

## SITE SUMMARIES

**Site:** 1039R

**Priority:** 1

**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, BGR, Hannover, Germany, 2001).

**Objectives:** The objectives of Site 1039R are to:

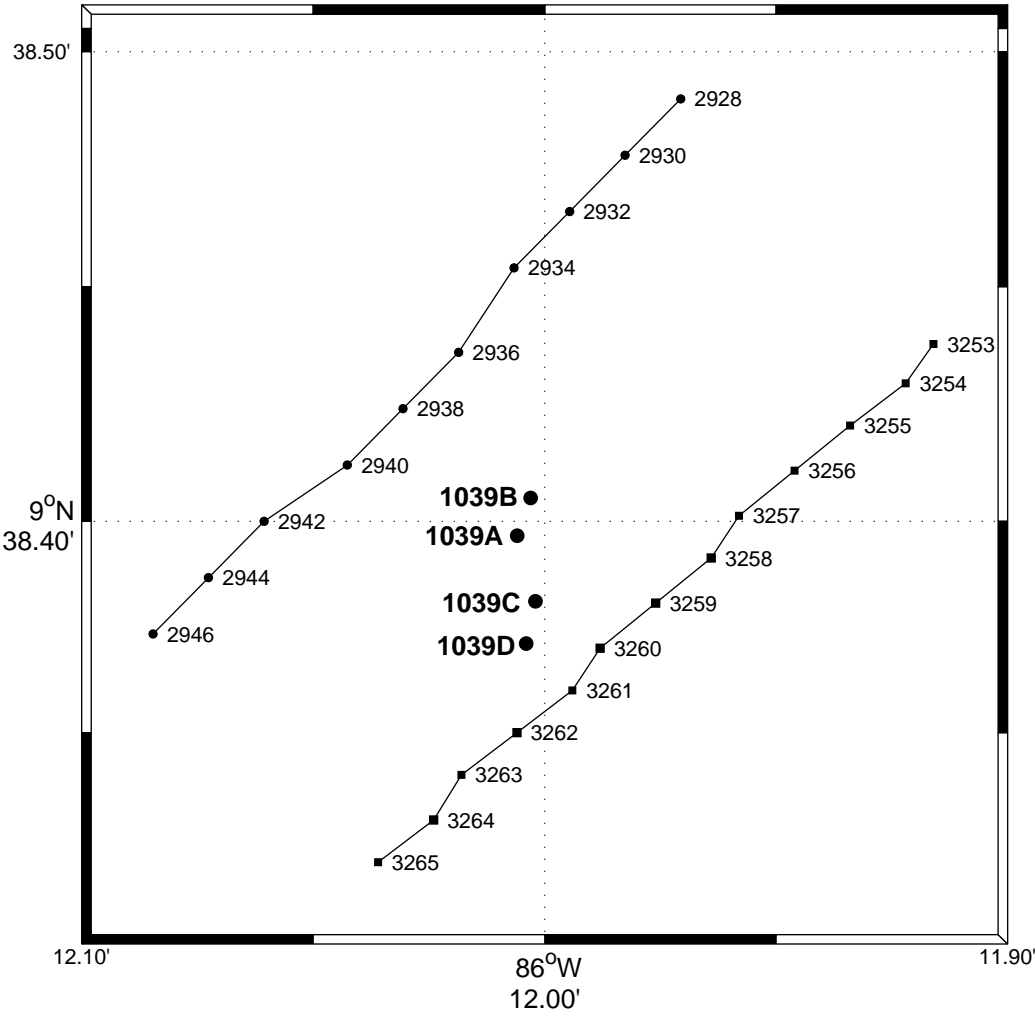
1. Investigate the petrology and alteration state of upper oceanic basement.
2. Determine fluid flow pattern in upper oceanic basement.
3. Install a modified CORK to monitor pressure and to sample basement fluids.

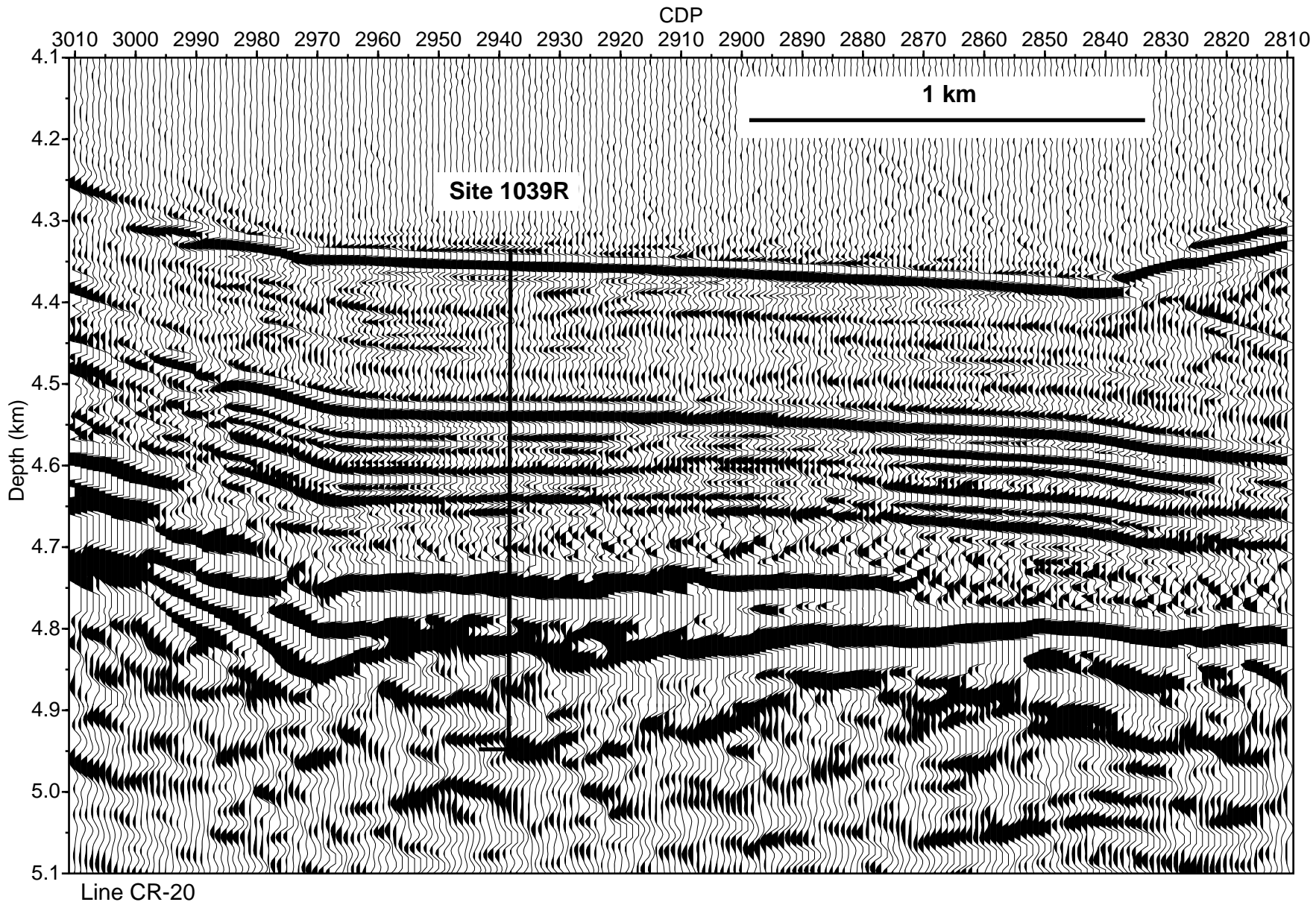
**Drilling Program:** Core with the RCB from 340 mbsf to total depth (TD); install modified CORK for monitoring fluid flow, pressure, and temperature in upper oceanic basement.

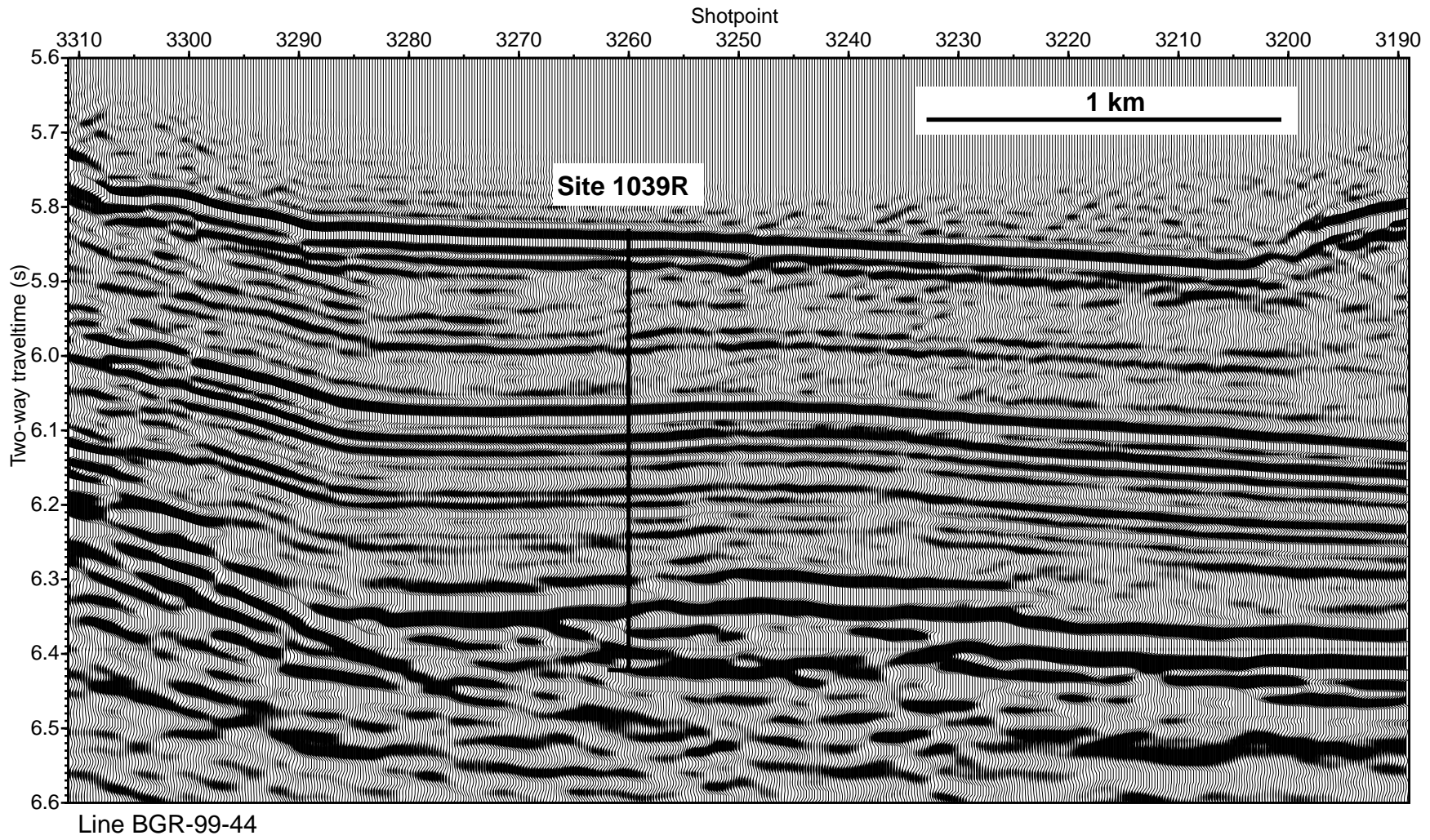
**Logging and Downhole:** Formation temperature measurements (~5 DVTP), downhole logging with triple combo and FMS/sonic tool strings.

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

Shotpoint Navigation CR-20 (circles) and BGR-99-44 (squares)







**Site:** 1040R

**Priority:** 1

**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. com., GEOMAR, Kiel, Germany and C. Reichert, BGR, Hannover, Germany, pers. comm., 2001.).

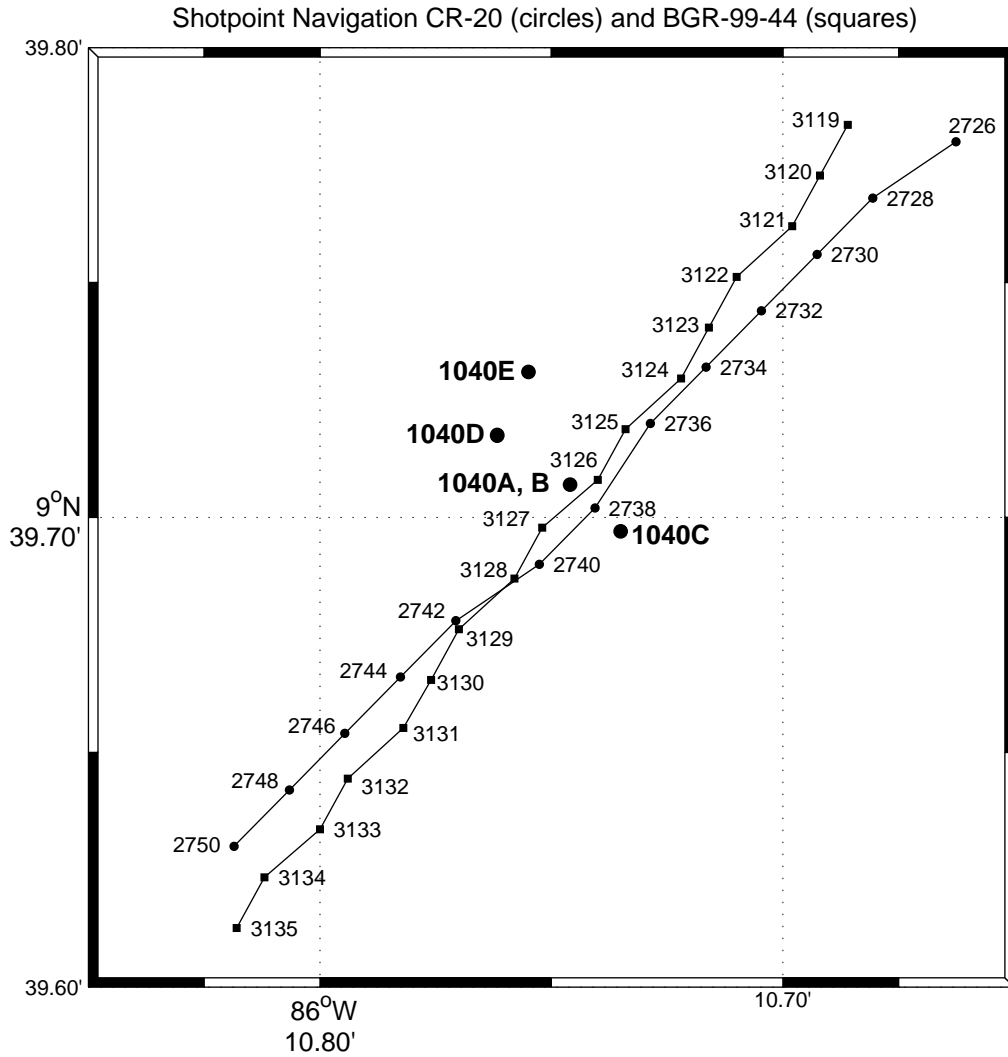
**Objectives:** The objectives of Site 1040R are to:

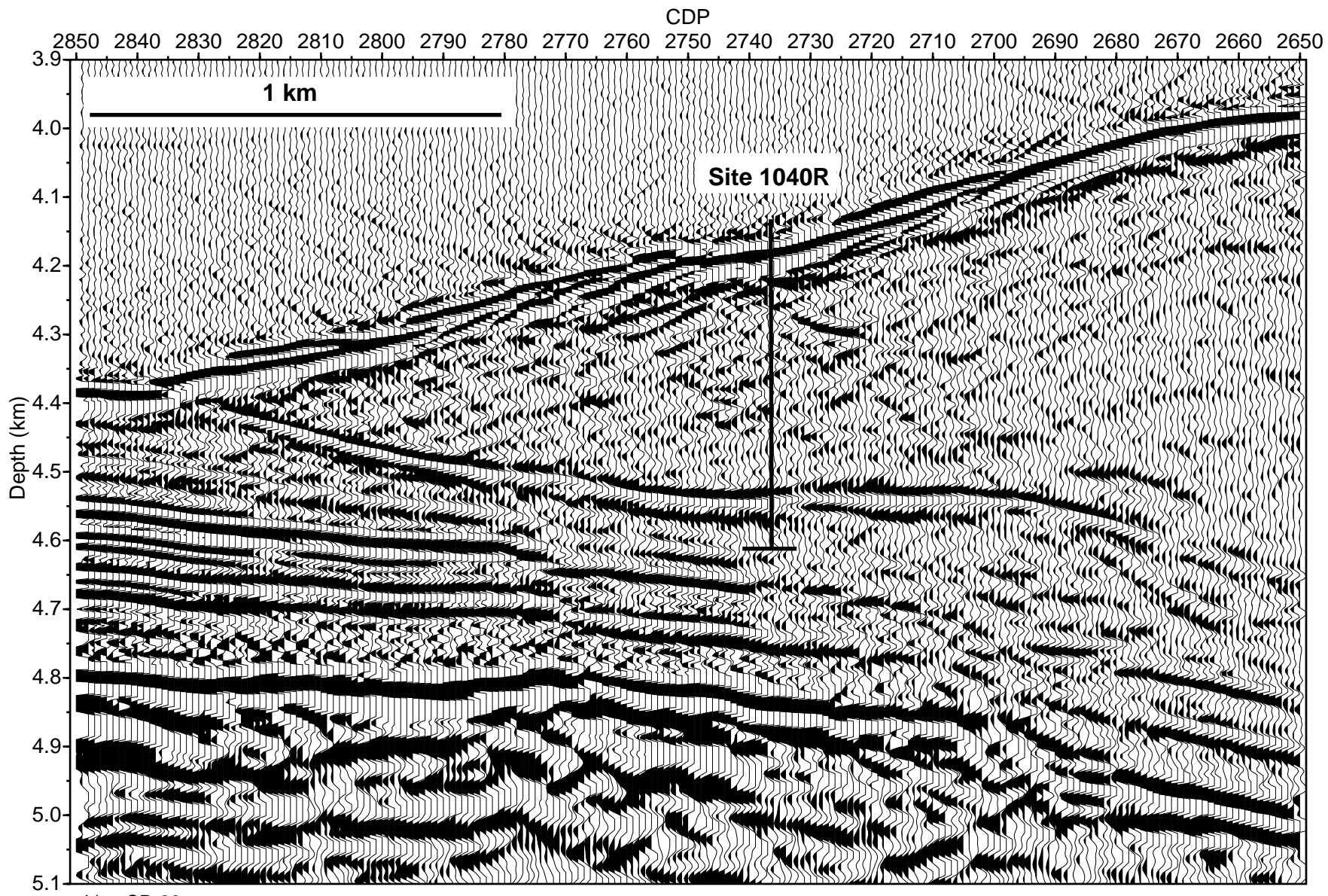
1. Investigate the décollement.
2. Investigate fluid flow within the décollement and underthrust sediments.
3. Install modified CORKs to monitor pressure and temperature and to sample fluids within the décollement and underthrust sediments.

**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.

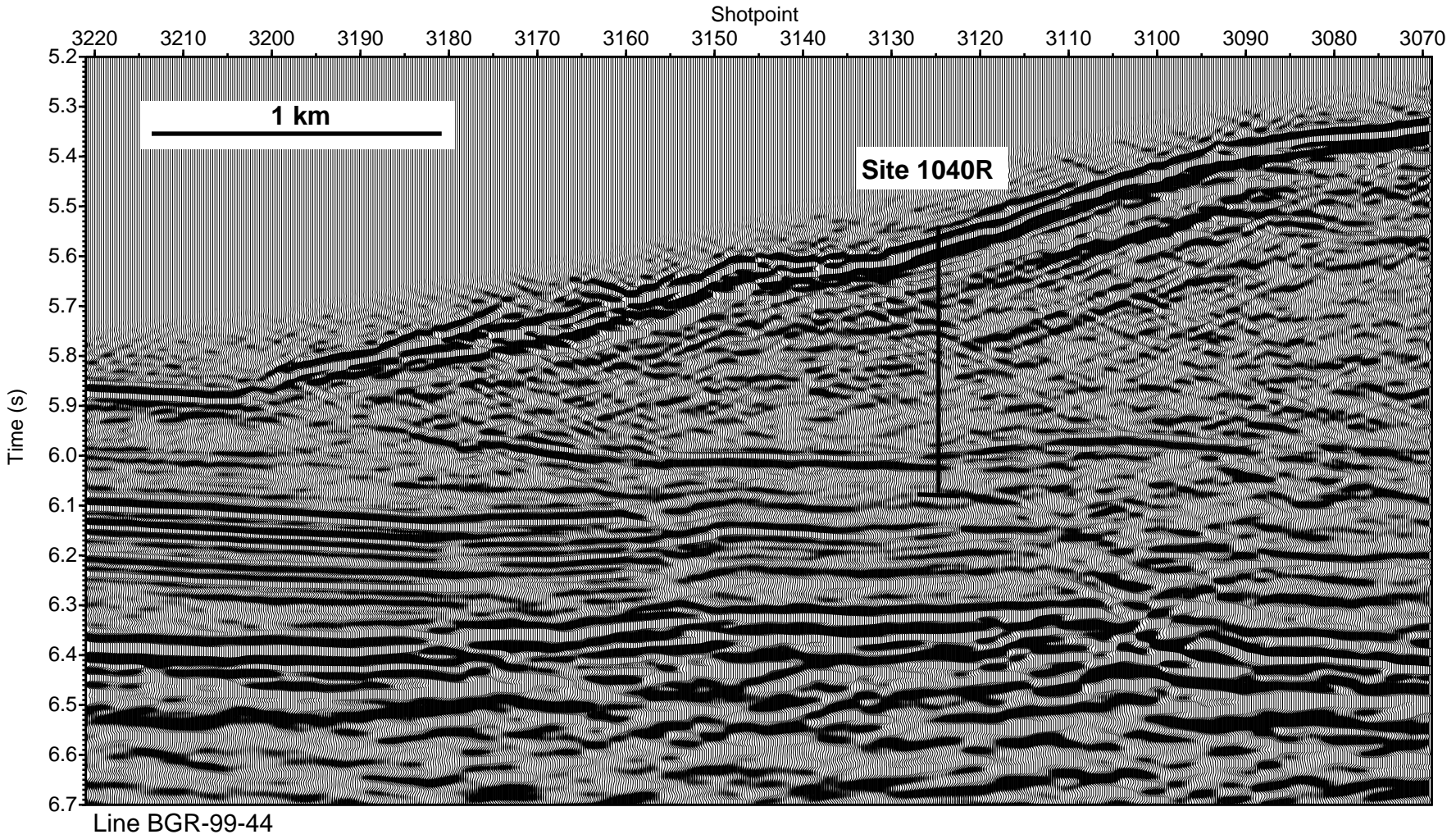
**Logging and Downhole:** Formation temperature measurements (~5 DVTP); no downhole logging is planned at this site.

**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. comm., 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, BGR, Hannover, Germany, 2001).

**Objectives:** The objectives of Site 1043R are to:

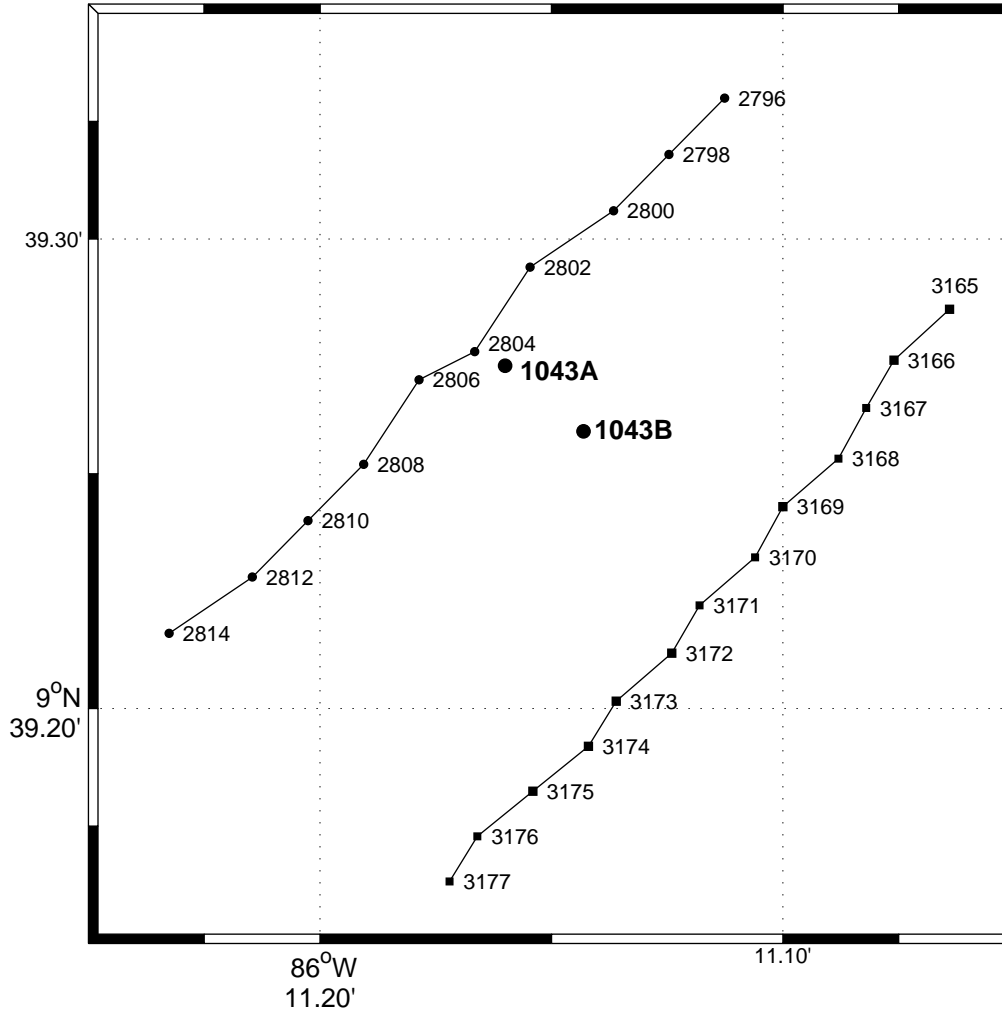
1. Investigate the décollement.
2. Investigate fluid flow within the décollement and underthrust sediments.
3. Install modified CORK to monitor pressure and temperature and to sample fluids within the décollement.

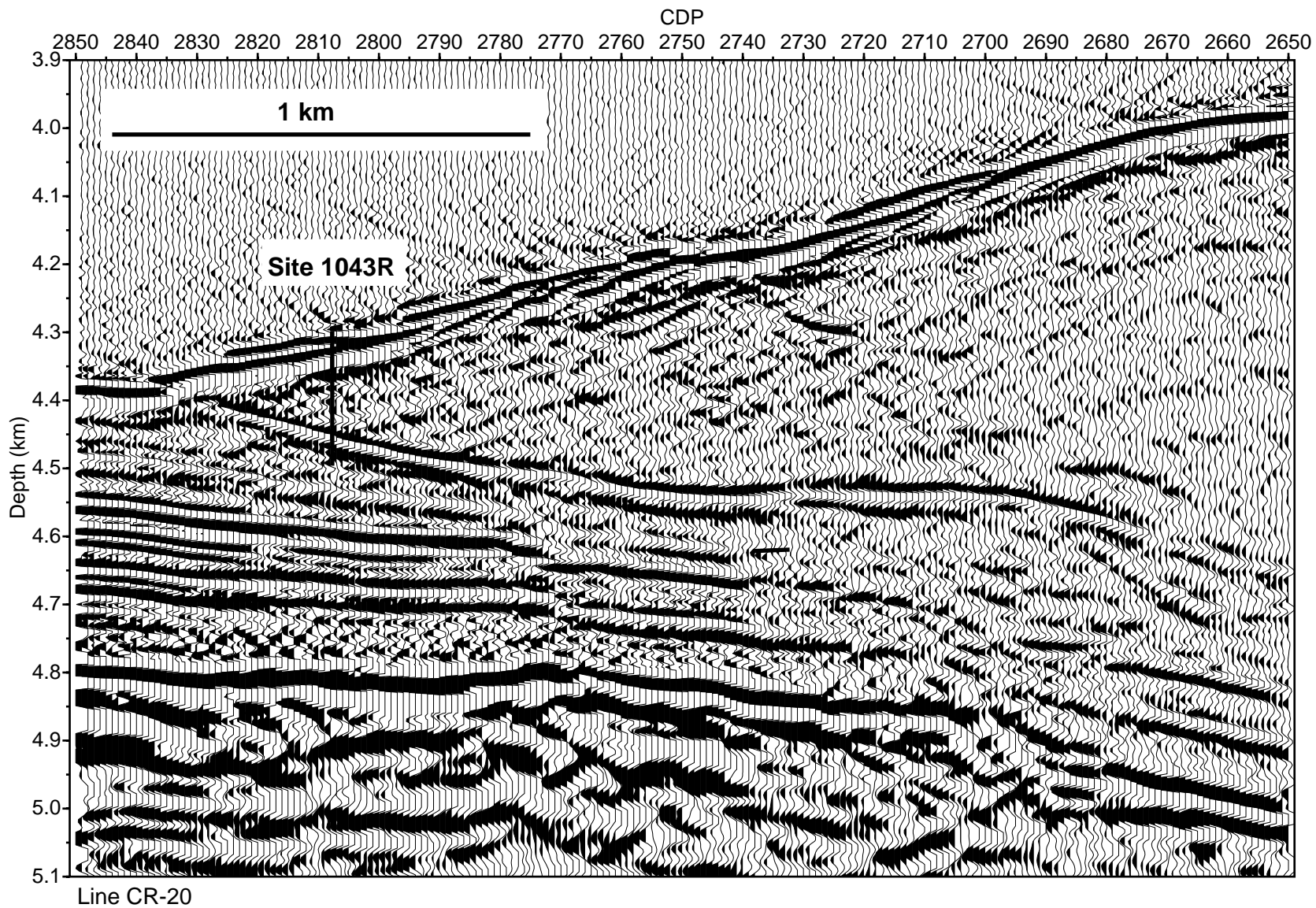
**Drilling Program:** Same as Site 1040R

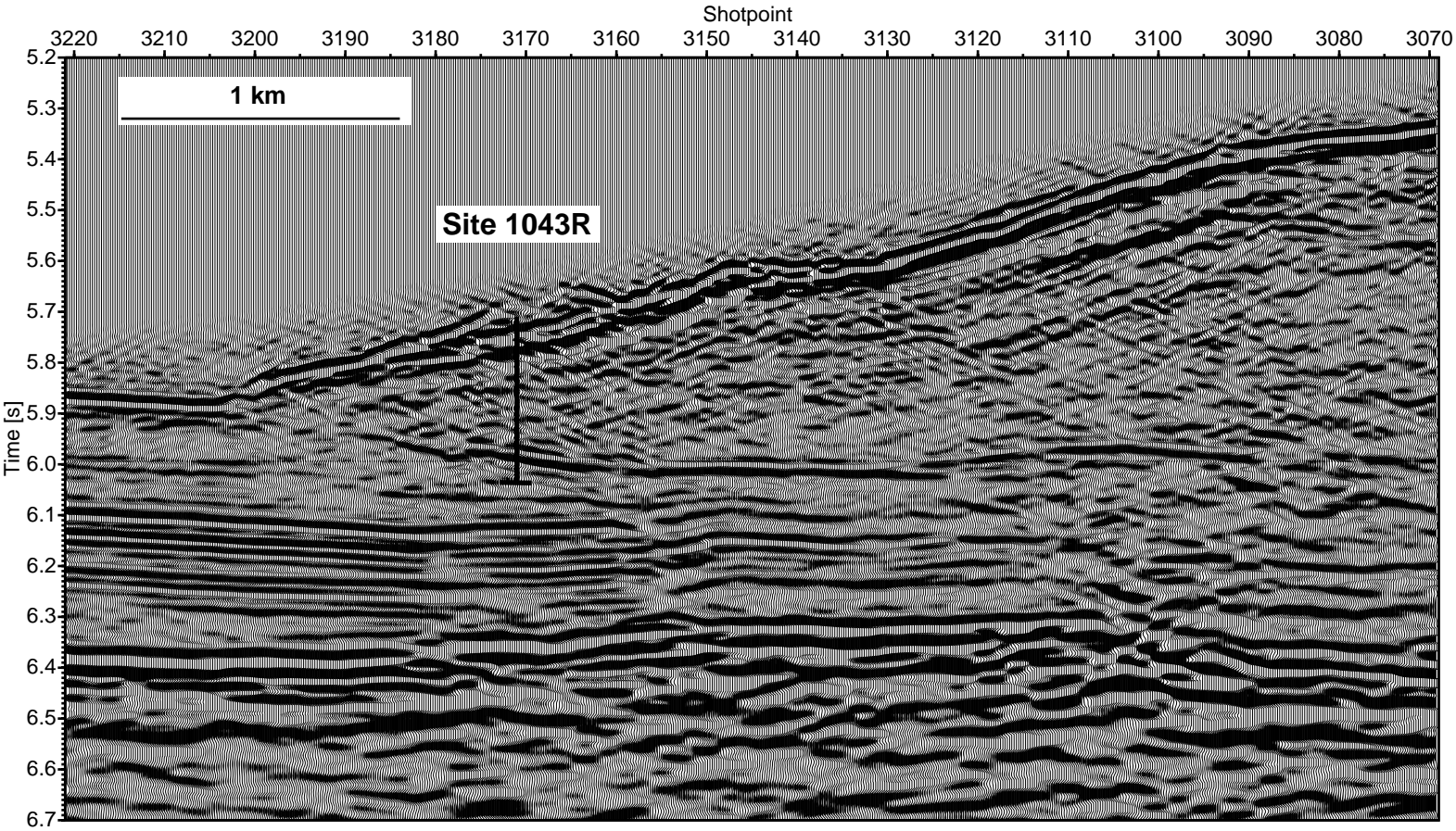
**Logging and Downhole:** Same as Site 1040R

**Nature of Rock Anticipated:** Deformed claystones and hemipelagics

Shotpoint Navigation CR-20 (circles) and BGR-99-44 (squares)







Line BGR99-44

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