

# Activity Summary

CrsID

Blake2003

CrsProjID

PRJ0004

## Blake Ridge Diapir

7/27/2003

*Windows to the Deep: Blake Ridge Mapping*

### Overview of Human Occupied Vehicle Dive Alvin 3910 (Blake2003\_ACT0007) at Blake Ridge Diapir

| Activity Vitals                     |                         |                               | Participants              |  | Overall Dive Site Ratings         |          |
|-------------------------------------|-------------------------|-------------------------------|---------------------------|--|-----------------------------------|----------|
| <b>Dates/Times/Depth</b>            | <b>Bndg Coordinates</b> | <b>System(s)</b>              | No participants recorded. |  | 1 = low; 10 = high                |          |
| <b>Start</b> 7/27/2003 7:57:00      | <b>North</b> 32.4957    | Alvin                         |                           |  | <b>Uniqueness</b>                 | <b>3</b> |
| <b>End</b> 7/27/2003 15:50:00       | <b>South</b> 32.4924    |                               |                           |  | <b>Health</b>                     | <b>3</b> |
| <b>Time zone</b> EDT <b>UTC</b> -04 | <b>East</b> -76.1891    | <b>Data Collected</b>         |                           |  | <b>Disturbance</b>                | <b>2</b> |
| <b>MaxDepth (m):</b> -2169.0        | <b>West</b> -76.1933    | Samples<br>Multimedia<br>Data |                           |  | <b>Biodiversity</b>               | <b>2</b> |
|                                     |                         |                               |                           |  | <b>Relief Variation (meters):</b> | <b>2</b> |

### Objectives

Sample for Biology and Chemistry

1. Niskin bottle
2. Push cores (methane hydrate; bacterial mat; clams; tubeworms)
3. Document methane-hydrate site with good video
4. Other samples (slurp live clams; slurp ice shrimp; mussels)
5. Deploy markers

### Dive Track Description

Landed approximately 150 m southeast of field and dove into the main area, first encountering marker B and rabbit chow bucket. Collected clams, mussels, push cores for bacterial mats, etc. Drove around for a while, fount hydrate, ate sandwiches/cnady bars while waiting for dust cloud to clear, then tried to photograph hydrate. Found cool octopus and nearly ran over it with the sub.

| Living Habitat Structure |         | Sediments         |         | Geomorphology |         | Anthropogenics               |
|--------------------------|---------|-------------------|---------|---------------|---------|------------------------------|
| Type                     | % Cover | Type              | % Cover | Type          | % Cover | Type/Description             |
|                          | 5       | Nothing recorded. |         | rock outcrops | 20      | None, except very very minor |
|                          |         |                   |         | rock rubble   | 30      |                              |
|                          |         |                   |         | Other         | 95      |                              |

### Living Marine Resources Abundance

None (0) Single (1) Few (2-10) Many (11-100) Abundant (&gt;100)

| Pelagic Fish      |          | Other Benthic |  | Observations and Comments on Living Marine Resources: |                                   |
|-------------------|----------|---------------|--|---|-----------------------------------|
| None              |          | cephalopod    |  | No other comments.                                    |                                   |
| Bottom Fish       | Few      |               |  | <b>Unique or Rare Invertebrates</b>                   | <b>Unique or Rare Vertebrates</b> |
|                   |          |               |  | Nothing recorded.                                     | Nothing recorded.                 |
| <b>Crustacean</b> | Few      |               |  |   |                                   |
| <b>Mollusk</b>    | Abundant |               |  |   |                                   |
| <b>Echinoderm</b> | Many     |               |  |   |                                   |

### Fish Observation and Abundance

None (0) Single (1) Few (2-10) Many (11-100) Abundant (&gt;100)

Nothing recorded.

### Other Comments/Notes

NOAA Office of Ocean Exploration



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