

# Activity Summary

CrsID

Blake2003

CrsProjID

PRJ0004

## Blake Ridge Diapir

7/29/2003

*Windows to the Deep: Blake Ridge Mapping*

### Overview of Human Occupied Vehicle Dive Alvin 3912 (Blake2003\_ACT0011) at Blake Ridge Diapir

#### Activity Vitals

Dates/Times/Depth	Bndg Coordinates	System(s)
<b>Start</b> 7/29/2003 8:12:00	<b>North</b> 32.4945	Alvin
<b>End</b> 7/29/2003 16:02:00	<b>South</b> 32.4829	
<b>Time zone</b> EDT <b>UTC</b> -04	<b>East</b> -77.1878	<b>Data Collected</b>
<b>MaxDepth (m):</b> -2173.0	<b>West</b> -77.2025	Samples Multimedia Data

#### Participants

No participants recorded.

#### Overall Dive Site Ratings

1 = low; 10 = high

Uniqueness	<b>10</b>
Health	<b>7</b>
Disturbance	<b>1</b>
Biodiversity	<b>3</b>
Relief Variation (meters):	

#### Objectives

Sample for biology and chemistry

1. Push cores (methane hydrate, bacterial mat, clams)
2. Slurp bacterial mat
3. Other samples (tubeworms, other interesting organisms)
4. Deploy markers
5. Systematically explore southern and western sides of field.

#### Dive Track Description

The sea floor at the very beginning of the dive was flat with tan sediment. There were a few sea stars and some small crabs scattered around. The sediment was easily disrupted by the submersible's movements. We also came across some clam beds. There were large and small beds. Most of the clams in the larger beds seemed to be dead. We came across mussel beds that were much larger than the clam beds. The mussel beds were found on mounds and small hills. We saw a few fish, most of which were between the mounds in small valleys. In two of the mounds were openings, one contained ice shrimp and the other frozen hydrate cones.

#### Living Habitat Structure

Type	% Cover
Nothing recorded.	

#### Sediments

Type	% Cover
Nothing recorded.	

#### Geomorphology

Type	% Cover
mounds	
rock outcrops	

#### Anthropogenics

Type/Description
Buoys or Markers

#### Living Marine Resources Abundance

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

<b>Pelagic Fish</b>	Few	<b>Other Benthic</b>
<b>Bottom Fish</b>		Nothing recorded.
<b>Crustacean</b>	Many	
<b>Mollusk</b>		
<b>Echinoderm</b>	Abundant	

#### Observations and Comments on Living Marine Resources:

No other comments.

<b>Unique or Rare Invertebrates</b>	<b>Unique or Rare Vertebrates</b>
Nothing recorded.	Nothing recorded.

#### Fish Observation and Abundance

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

Nothing recorded.

#### Other Comments/Notes

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