

Received
#78027

R/V ASTERIAS
Jeffreys Ledge
11 September to 21 September
1978

Diane Eskenasy
U.S. Geological Survey
Woods Hole, MA.

Vessel: R/V ASTERIAS
Area: Jeffreys Ledge
Dates: 11 September - 21 September, 1978

Personnel:

Colburn, Arthur D.
Eskenasy, Diane M.

Bothner, Wallace
Mason, David
Oldale, Robert N.
Parolski, Kenneth
Shride, Andrew
Simpson, Robert

Captain, R/V ASTERIAS
Chief Scientist, U.S. Geological
Survey, Woods Hole
U.S.G.S. - Denver
U.S.G.S. - Woods Hole
U.S.G.S. - Woods Hole
U.S.G.S. - Woods Hole
U.S.G.S. - Denver
U.S.G.S. - Denver

Purpose:

To observe the structure of the Presumpscot Formation flanking the western end of Jeffreys Ledge and to determine if the deformation is related to a Late Wisconsin readvance of the continental ice sheet, and to locate the offshore extension of the Clinton-Newbury and the Bloody Bluff faults.

Navigation Techniques: Loran C, Radar

Equipment on Board:

Northstar 6000 Loran C and repeater
Del Norte Sparker Array
EPC 4100 recorder
EPC 3200 recorder
Del Norte Streamer
Energy International Streamer

11 September, Monday

Very windy, cloudy

0830-1930 In transit from Woods Hole to Gloucester;
testing gear on the way.

12 September, Tuesday

10-15 Kts, cloudy

0730-1200 Leave Gloucester, working on sparker.

1200-1445 Sparking

1600 Arrive Gloucester

13 September, Wednesday

10-15 Kts, cloudy

0730 Leave Gloucester

0930 Arrive Gloucester

Bad weather, blown out

14 September, Thursday

Calmer, big swells, clear water

0720 Leave Gloucester

0950-1640 Sparking

1800 Arrive Gloucester

no ½ sec. sweep

15 September, Friday

15-20 Kts.

0730 Leave Gloucester
0800 Blown out
0815 Refuel
0845 Arrive Gloucester

16 September, Saturday

Good weather

0600 Leave Gloucester
0830-1430 Sparking
Problems with Loran C signal, used radar instead
to keep constant distance from shore.
1430 Sparker firing irregularly, bad record.
Can't fix it.
1600 Arrive Gloucester

17 September, Sunday

Equipment not working.

18 September, Monday

Still not working. Jennings, Parolski, and Mason
arrived from Woods Hole to fix the system.
2200 System is working again.

19 September, Monday

Calm, cloudy

0715 Leave Gloucester
0845-1610 Sparking
1830 Arrive Gloucester

20 September, Tuesday

Flat, calm, sunny

0700 Leave Gloucester
1020-1610 Sparking
Loran C signal bad, use manual setting
1610 Recorder whistling loudly, sounds bad, pull gear.
1830 Arrive Gloucester
1900 Leave Gloucester for Woods Hole.
Weather picking up.

21 September, Wednesday

0430 Arrive Woods Hole
1300 Remove gear

Data tabulated

250 Km minisparker (135 nautical miles)

