



United States Department of the Interior

GEOLOGICAL SURVEY
RESTON, VA 22092

PRIDE IN
AMERICA

In Reply Refer To:
Mail Stop 914

Date: 28 June 1989

To: Brad Butman, Chief BAMG, Woods Hole

From: Jeff Williams, BAMG, Reston

Subject: Precruise report for USGS/LGS hi-res seismic surveys offshore central Louisiana.

1. Ships used: RV Acadiana, 57-foot LUMCON vessel and RV Coli - July 24 to August 13, 1989.
2. Branch principal: Jeff Williams, USGS (Reston)
Cruise co-chief scientists: Jeff Williams, USGS (Reston)
Jack Kindinger, USGS (St. Petersburg)
Shea Penland, LGS (Baton Rouge)
Randy McBride, LGS (Baton Rouge)
3. Study area: Coastal and inner parts of the central Gulf of Mexico (West Delta and Chandeleur Island areas), filling in data gaps between Raccoon Point and Sandy Point east of the delta, and the LA-MS shelf west of the delta.
4. Mobilization: 23 July 1989, Cocodrie, LA.
5. Demobilization: approximately 13 August 1989, Cocodrie, LA.
6. Cruises on RV Acadiana and RV Coli will consist of two phases including a total of five legs.

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Phase 1 - RV Acadiana will be mobilized on 23 July to collect high-res seismic in the open Gulf (West Delta and Chandeleur Island areas, and survey during 24-hour operations on leg 1 for about 4 days. A port call to resupply will be made at Biloxi or Gulfport, MS. Leg 2, starting about 28 July will continue survey. Leg 2 will end about 31 July. A port call to resupply will be made at Biloxi or Gulfport, MS. Leg 3, starting 31 July will end 4 August back in Cocodrie. RV Acadiana will be demobed and RV Coli will be mobed for the start of phase 2 consisting of 2 legs.

Phase 2 - RV Coli will be mobilized 6 August and continue surveys in shallow water areas, bays, tidal inlets, etc.

filling in gaps between Raccoon Point and Sandy Point during day light operations until 9 August. Leg 2 will continue 9 August and end 12 August. 4
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The schedule is summarized as follows:

Phase 1 RV Acadiana

Leg 1 - 24 to 28 July 1989, mob 23 July in Cocodrie, LA, portcall Biloxi/Gulfport 28 July 1989.

Leg 2 - 28 to 31 July 1989, portcall Gulfport or Biloxi.

Leg 3 - 31 July to 4 August 1989, demob in Cocodrie, LA

Phase 2 RV Coli

Leg 1 - 6 to 9 August 1989, mob Cocodrie, LA portcall Biloxi/Gulfport 9 August 1989

Leg 2 - 9 to 12 August 1989, demob in Cocodrie, LA

7. Cruise Personnel:

Jeff Williams (co-chief scientist) USGS, Reston
Jack Kindinger (co-chief scientist) USGS, St. Petersburg
Shea Penland (co-chief scientist) LGS, Baton Rouge
Randy McBride (co-chief scientist) LGS, Baton Rouge
David Pope LGS, Baton Rouge
Mike Ierardi USGS, Reston
Paul Conner LGS, Baton Rouge
Ken Parolski USGS, Woods Hole
Steve Anderson (Coli Operator) LGS, Baton Rouge
Karen Ramsey LGS, Baton Rouge

8. Purpose of cruise: As part of the fourth year of the Barrier Erosion Study, the USGS and LGS will be collecting hi-res seismic data to augment and fill in survey data collected since 1986. The objectives are to determine the shallow morphostratigraphy of the Louisiana barrier delta plain using seismic and core information.

9. USGS equipment needed:

ORE Geopulse or Uniboom transducer
Benthos 10 element hydrophone or similar shallow-water phone
EPC 3200 recorder
ORE 5210 receiver
ORE 5420A power supply
ORE 3.5 kHz over-the-side subbottom profiler
ORE 140 transceiver
Northstar 6000 LORAN-C and computer and printer for storing navigation data on both disc and paper copy
Gasoline generator for use on RV Coli
Equipment needed to vent all recorders to the outside.

10. The anticipated overtime will be for Ken Parolski and Mike Ierardi. Maximum overtime anticipated is 4 hours/weekday and 12 hours/weekends. Overtime and travel charges are to be charged against project 9-9470-03855.

cc: H. Knebel
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