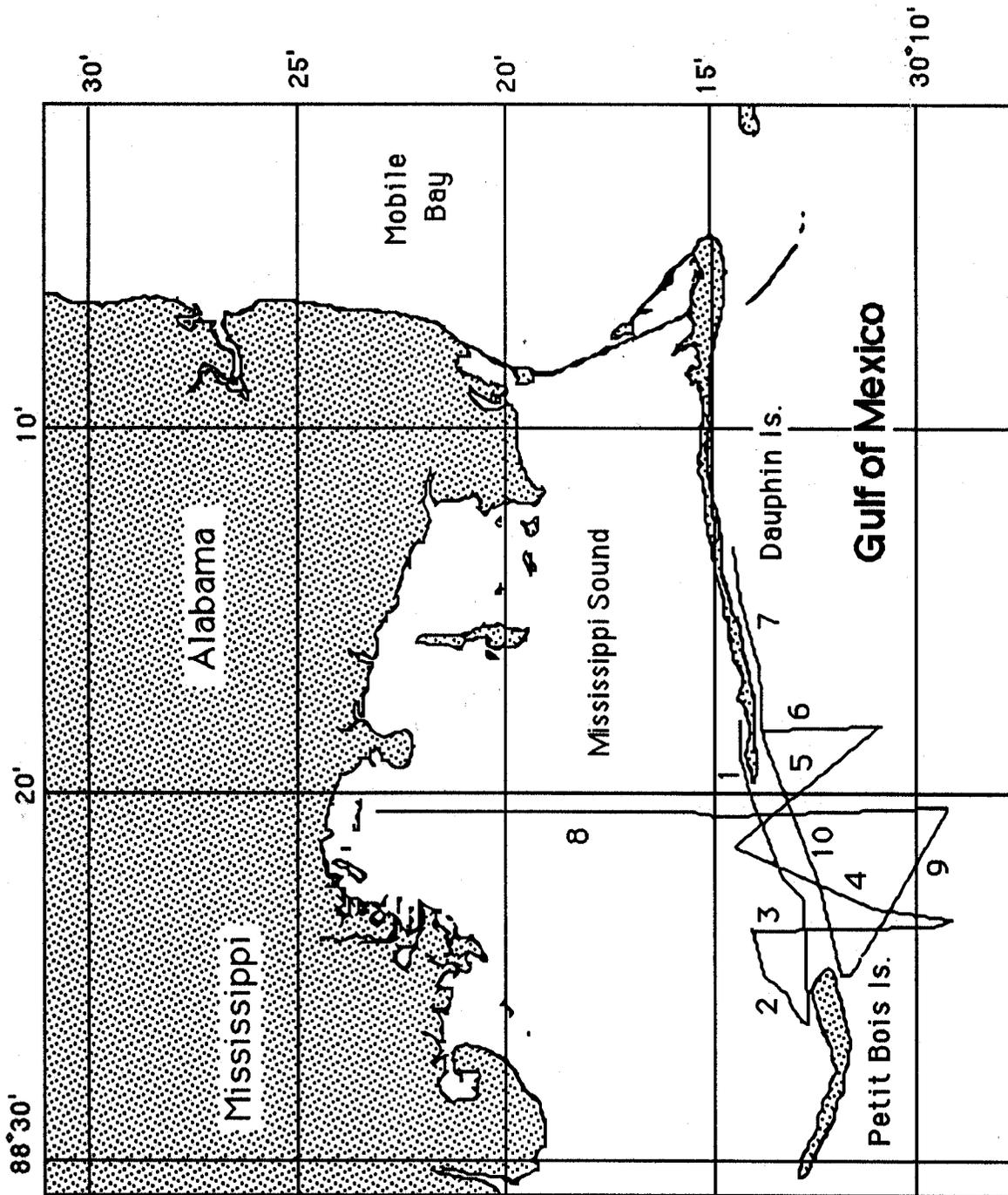


90011

CRUISE REPORT
June 25, 1990

1. Ship Name (Parent vessel if submersible used)/submersible name:
R/V ERDA 1
2. Cruise number and leg (if any): ERDA-90-1, Leg PBP-90-1
3. Parent project: Mississippi/Alabama/USGS Cooperative # 9460-27017
4. Funding amount: 30,000
5. Funding agency: USGS
6. Contract number:
7. Contract start and end date: FY '90
8. Area of operations: Petit Bois Pass; Mississippi Sound; Gulf of Mexico
9. Dates and ports, start and end cruise: Dauphin Island Marina, AL; June 17 to 19, 1990
10. Chief scientist: Jack Kindinger, USGS and Shea Penland, LGS
11. Names and affiliations of scientific party; ship's captain: Conrad Tome, Capt., Lyle McGinnis, Argonne National Labs, DOE; Dave Nichols USGS/WH
12. Brief statement of purpose of cruise: Collect nearshore high resolution seismics, as part of ongoing coastal geologic framework studies in state cooperative projects.
13. Brief statement describing navigation techniques: GPS & Loran C, TD's recorded manually and test-case system using small boat automated recording software and hardware. Loran C was taken from Megapulse unit and GPS was from TrimbleNav.
14. Scientific equipment: Geopulse seismic system with analog data recorded on HP 8 channel recorder.
Seismic system: HP Channels used:

| | | |
|-----------------------|-----------------------|---------------------|
| Geopulse receiver | 1 FM Raw Signal | 5. Dir Reel servo |
| Geopulse power supply | 2. FM Filtered Signal | 6. Dir Geopulse Key |
| new Geopulse plate | 3. FM Time code | 7. Dir --- |
| Benthos hydrophone | 4. FM --- | 8. Dir --- |
| EPC graphic recorder | | |
15. Tabulated information:
Days at sea : One
Kilometers of each type of continuous data: 60 n. miles (~96 km)
Rolls of seismic data: 6 for entire cruise ERDA-90-1
Number of magnetic data tapes: 18 for entire cruise ERDA-90-1
16. Page-size trackline chart



Cruise: ERDA-90-1 Leg PBP-90-1



United States Department of the Interior

GEOLOGICAL SURVEY
CENTER FOR COASTAL GEOLOGY
AND REGIONAL MARINE STUDIES
600 FOURTH STREET SOUTH
ST. PETERSBURG, FLORIDA 33701

MEMORANDUM

To: Nancy Soderberg, USGS, BAMG, WH
From: Jack L. Kindinger *Jack*
Date: 29 June 1990
Subject: Cruise Reports

Enclosed are cruise reports for the R/V ERDA 1 (ERDA-90-1) cruise, which includes three legs. Leg 1 (Lake Belto) was a combination shakedown and data collection. One short tie line was run to complete a survey which was previously run. Leg 2 (H-90-1) was a survey to expand the data base from the western end of Mississippi Sound. Leg 3 (PBP-90-1) was a complete survey of the Petit Bois Pass, the purpose was to determine the geometry and extent of the associated ebb-flood tide deltas. The weather cooperated and some very good high-resolution single channel data was collected.

I am sending the 18 magnetic data tapes from the 8 channel HP recorder. At present the original seismic profiles are being reproduced (vellum and paper copies) which will be used here in St. Petersburg. A detailed trackmap of the cruise will be sent as soon as it is produced. If you have any questions please call.

cc: Brad Butman, USGS, BAMG, Woods Hole
Robert Halley, USGS, St. Petersburg
Lyle McGinnis, Argonne Nat'l Labs
Shea Penland, LGS, Baton Rouge
Abby Sallenger, USGS, St. Petersburg
Jeff Williams, USGS, BAMG, Reston