CRUISE REPORT

1. Ship Name (Parent vessel if submersible used)/submersible name: R/V ERDA-1

2. Cruise number and leg (if any): ERDA-91-1

3. Parent project: Mississppi/Alabama Pollution Project, Geologic Framework Study, Mississippi/Alabama/USGS Cooperative

4. Funding amount: $2,000,000

5. Funding agency: USGS

6. Contract number: # 9460-27017

7. Contract start and end date: FY'91

8. Area of operations: Mbile Bay and Mississippi Sound,AL

9. Dates and ports, start and end cruise: May 15-20,1991; Dauphin Island, AL, Gulf of Mexico

10. Chief scientist: Jack Kindinger, USGS/Gregg Brooks, USF

11. Names and affiliations of scientific party; ship's captian: Captain Conrad Tome, Argonne Labs, Chicago, IL; Dana Weise, USGS, St. Petersburg; Richard Hummel, GSA, Tuscaloosa, AL (partial time): and Steve Parker, GSA, Tuscaloosa, AL (partial time)

12. Brief statement of purpose of cruise: Conduct high-resolution single-channel seismics survey of Mobile Bay and eastern Mississippi Sound, AL.

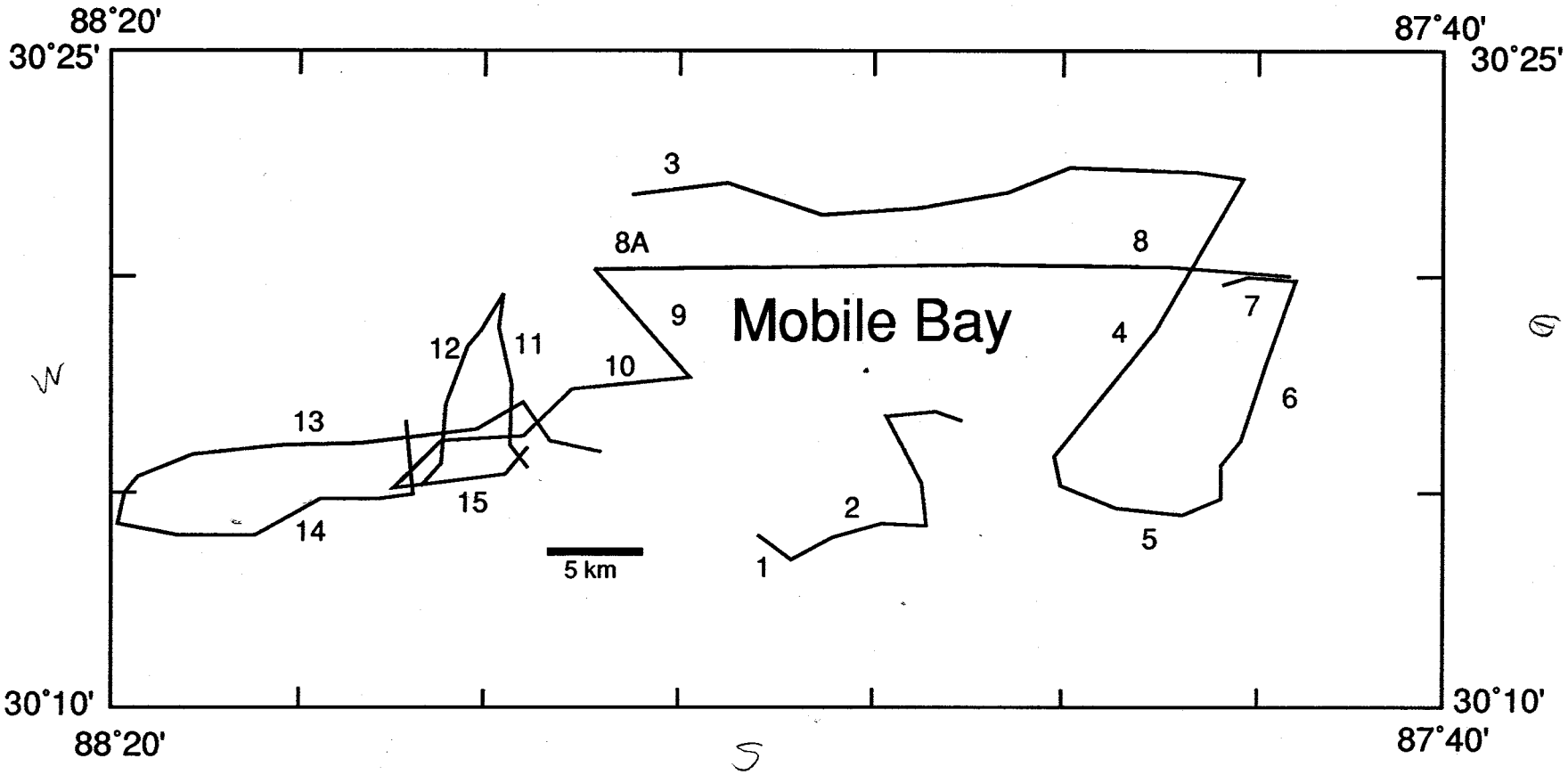
13. Brief statement describing navigation techniquies: GPS & Loran C, recorded to hard disk with floppy disk backup (ASCII File), fixes taken every 5 min.

14. Scientific equipment:

Signal source:	Huntec plate
	EG&G power supply
	Geopulse receiver
Hydrophone:	Benthos
Hard copy:	EPC 1600
Geopulse:	Power - 125 joules
	Graphic Recorder - EPC 1600
Tape Recorder -	HP 3968A $^{1}/_{4}$ in. rec. speed 1 $^{7}/_{8}$
	Channel 1 FM Filtered Signal ~300/3 kHz
	2 FM Raw Signal
	3 FM Time Code
	4 FM -----
	5 DIR Sevo
	6 DIR Geopulse Key
	7 DIR -----
	8 DIR -----

15. Tabulated information:
    Days at sea: 6 day light working days
    Kilometers of each type of contiuous data: 160 line km of profile data
    Remarks: fairly good shallow water seismic data first 3 days, bad weather rest of time

16. Page-size trackline chart



ERDA-91-1

May15-20,1991

Mississippi/Alabama Cooperative

Mississippi/AlabamaPollution Project

Geologic Framework Studies