#94001

Date: Thu, 8 Sep 1994 14:33:16 -0400
From: bwd@boomer.er.usgs.gov (William W. Danforth)
To: nsoderberg
Subject: 94001postFERREL 15-20Aug94 Danforth, Gray's Reef, GA

U.S. GEOLOGICAL SURVEY-BRANCH OF ATLANTIC MARINE GEOLOGY

CRUISE REPORT

1. SHIP NAME (Parent vessel)/SUBMERSIBLE/OWNER-OPERATOR: R/V Ferrel

2. PRE-CRUISE SERIAL # AND CRUISE-LEG: 94001, Leg 1 (?)

3. PROJECT # AND NAME: No applicable USGS project

4. FUNDING AGENCY: NOAA

5. CONTRACT (If applicable):

6. AREA OF OPERATIONS: Gray's Reef National Marine Sanctuary:
80d49.5'w - 80d55.5'w
31d21.25'n - 31d25.75'n

7. DATES AND PORTS OF CALL: 8/15/94 - 8/20/94, Savannah, GA.

8. CHIEF SCIENTIST(S): William Danforth and Lt. Cheryl Callahan

9. SCIENTIFIC PARTY (Names,affiliations,cruise duties):

William Danforth, USGS, Chief Scientist
Lt. Cheryl Callahan, NOAA, Chief Scientist
Jane Denny, USGS, Watchstander
Mead Allison, USGS, Watchstander
Tom O'Brien, USGS, ET
Rick Koehler, NOAA, Watchstander

10. SHIP'S CAPTAIN (and affiliation): John Navarro, NOAA

11. PURPOSE OF CRUISE (brief statement)

To collect sidescan sonar and bathymetric data within the area designated as Gray's Reef National Marine Sanctuary located approximately 25 miles southeast of Savannah, GA.

12. NAVIGATION TECHNIQUES: Real-time differential GPS

13. SCIENTIFIC EQUIPMENT:

Klein Model 531 100 kHz sonar towfish
Odem digital fathometer
QMIPS Data Acquisition station (PC-based collection system)
DECstation 3100 UNIX Workstation (sonar processing platform)
Raytheon TDU-850 Thermal Printer (for mapped sonar output)
Benthos 7000 Acoustic Ranging Unit
Ashtech Differential GPS Receiver
Navigation Computer

14. TABULATED INFORMATION:
DAYS AT SEA: 5
CONTINUOUS DATA (in km): 438
STATIONS OCCUPIED (stationary and underway): N/A
SUBMERSIBLE DIVES (BY #): N/A
STATION INFORMATION: N/A
Station number:
Date of occupation:
Latitude/Longitude:
Water depth:
Sampling device (dive #):
Number and type of samples:
Remarks:

15. PAGE-SIZE TRACKCHART (including station & line #'s)

16. SUBMITTED BY AND DATE: William Danforth - September 8, 1994