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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Office of Energy and Marine Geology
Branch of Atlantic Marine Geology
Woods Hole, MA 02543

24 February 1987

To: B. Halley, H. Knebel, G. Hill, D. Folger, T. Aldrich, S. Barton, J. Newell, T. O'Brien, G. Sexton, N. Soderberg, B. Henry (DMA), R. Nolet (DMA), T. Cocke (State Dept.)

From: W. Strahle

Subj: Cruise Report R/V STARELLA

Cruise No.: S10-87-VZ

Parent Project: Defense Mapping Agency Gravity

Funding Agency: Defense Mapping Agency

Contract No.: HTCPO-84 Annex C

Area of Operation: Venezuela

Cruise Start/End Dates; Ports: 16 Dec 87 Port-of-Spain, Trinidad/
26 Jan 88 La Guaira, Venezuela

Chief Scientist: William Strahle

Cruise Curator: William Strahle

Scientific Party; Affiliation: William Strahle USGS-AMG
Robin Bouse USGS-AMG
Sarah Griscom USGS-AMG
Richard Rendigs USGS-AMG
George Driscoll USGS-AMG

Ship's Captain: John Nichols
Anthony Barkworth

Purpose: Collection of gravity, magnetics, and bathymetric data in and around the waters of Venezuela as specified by DMA requirements.

Equipment: USGS Gravity Data Logging System
USGS Data Processing System
LaCoste-Romberg Air/Sea Gravimeters S-26 and S-41
Geometrics Magnetometer
Raytheon PTR 12kHz Bathymetry System
General Electric B10 Correlation Sonar

Navigation Techniques: General Electric 810 Correlation Sonar and
Sperry MK29MOD3 Gyrocompass with GPS and
Transit Satellite control.

Tabulated Information:

Days at sea: 8
Kilometers surveyed: 740
Kilometers steamed : 2740

Narrative: Departed La Guaira, Venezuela on 29 Jan 1988. The ship
transited northwest 600 nmi. to the Haiti survey site.
Prevailing seas and winds from the northeast made running
survey lines in the easterly direction tentative and
reduced significantly the ship's speed. Data collection
proceeded slowly with the existing weather conditions.
No major problems excluding weather were encountered.
The ship arrived at Roosevelt Roads on 6 Feb 1988 after
a 400 nmi. transit from Haiti.

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