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United States Department of the Interior

GEOLOGICAL SURVEY
RESTON, VA 22092

JAN 17 1988

87039mt

In Reply Refer To:
Mail Stop 914

Date: 13 January 1989

To: Brad Butman, Chief BAMG

From: Jeff Williams, BAMG (Reston) JW 1/13/89

Subject: Cruise report for coring the Chandeleur Islands region, LA.

1. Vessels: Blue Streak self-propelled jack-up barge.

2. Cruise: BS 87-1

3. Parent project: LA barrier island project (9470-03855).

4. Funding agency: USGS

5. Funding amount: Project total $1.5 M.

6. Contract number: N/A

7. Contract start and end dates: N/A

8. Area of operations: Southeast Louisiana shelf, Chandeleur Islands region.

9. Start of cruise: 14 September 1987, Pearlington, MS
End of cruise: 25 September 1987, Pearlington, MS

10. Chief scientists: Jeff Williams, Jack Kindinger, USGS
Shea Penland, John Suter, LGS

11. Names and affiliations of scientific party:
Don Bates - Vibracore contractor, Alpine Ocean Seismic Surveys
Rodney - Contractor Blue Streak barge captain

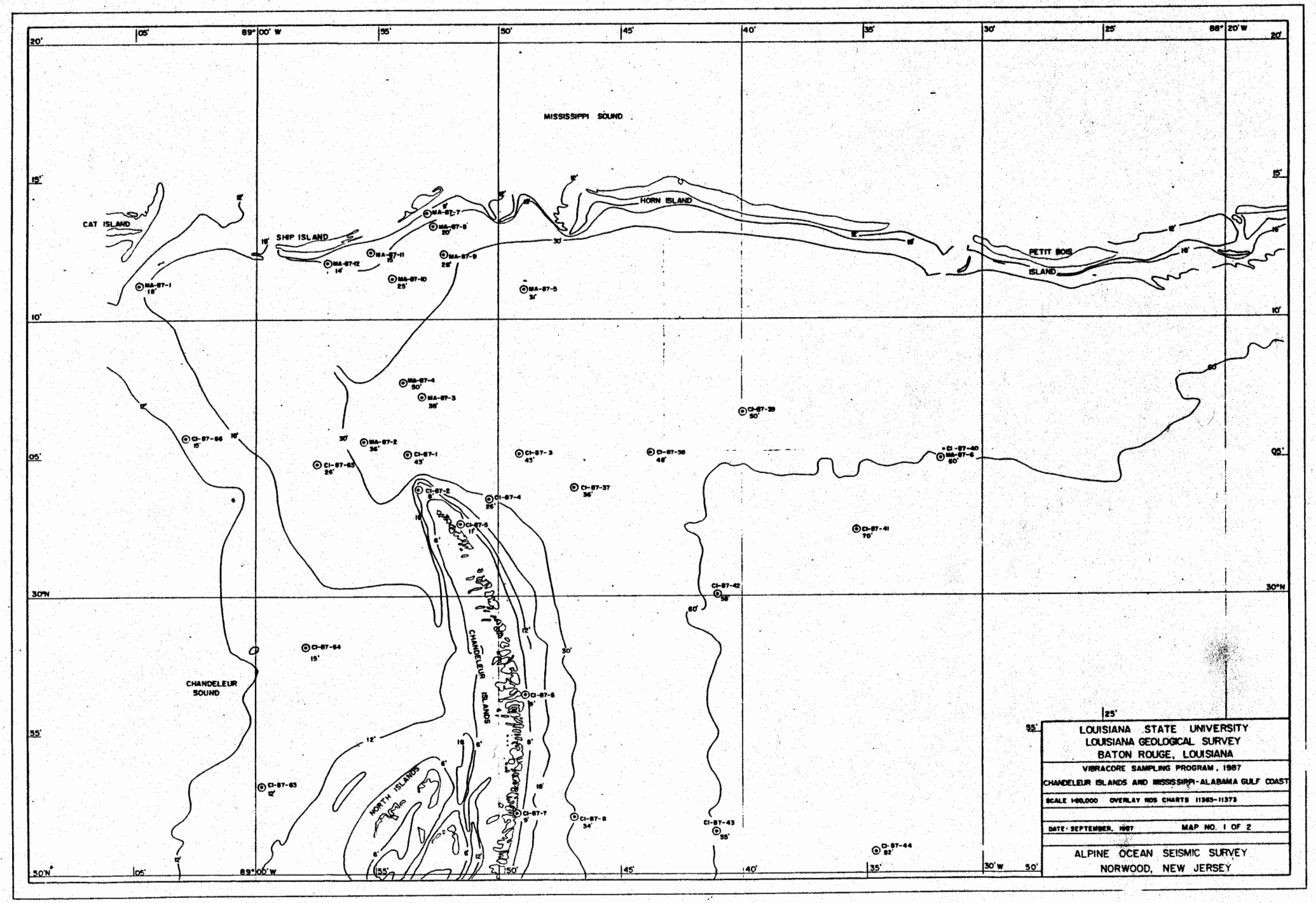
12. Purpose of cruise: Collect 40-ft. long continuous vibracores at sites selected form hi-res seismic profiles collected in a survey in June 1987. Interpretation of the cores and seismic profiles will be used to determine the stratigraphy and structure of the shallow subbottom of the region.

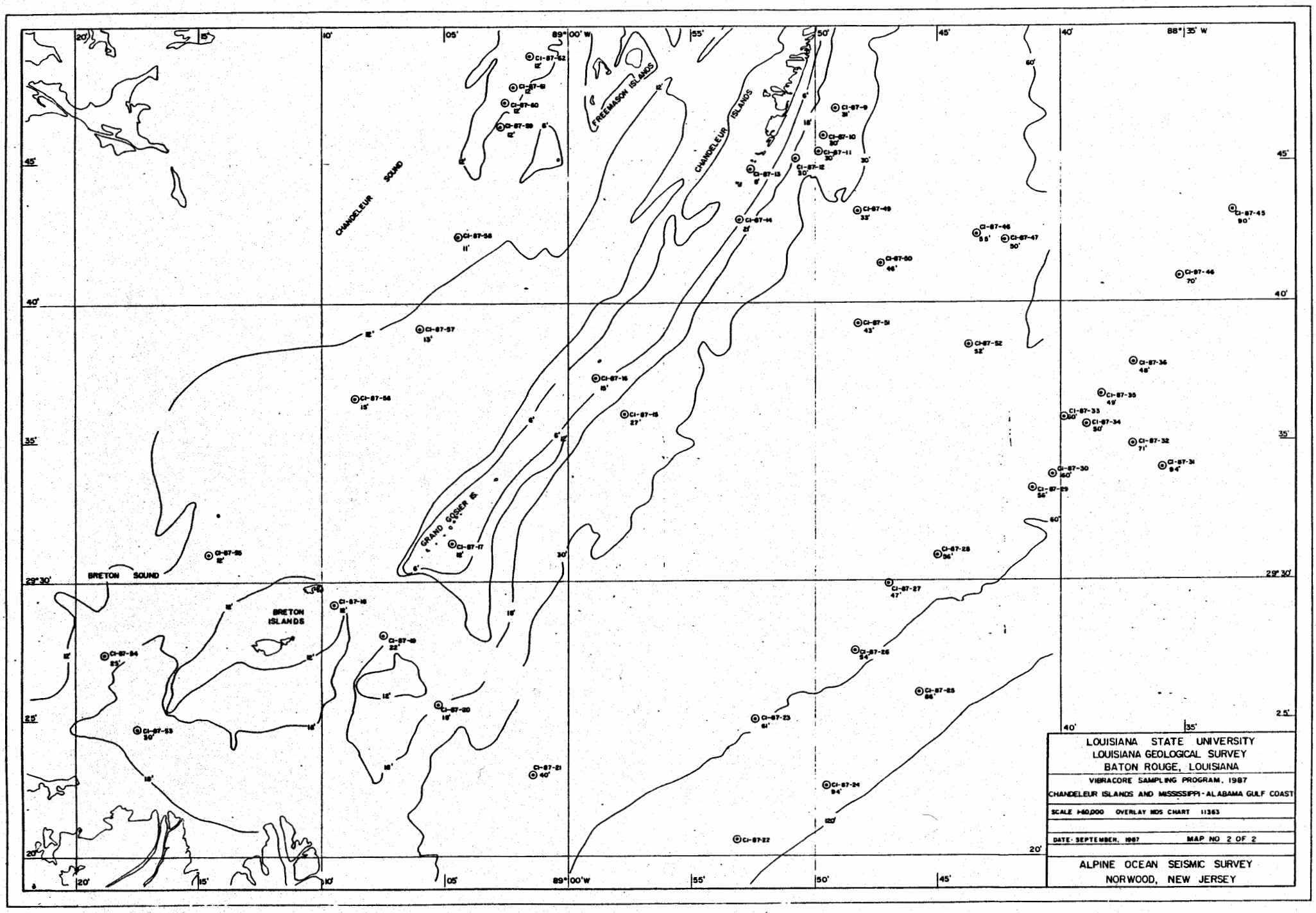
13. Navigation: LORAN-C.

14. Scientific equipment: ORE 3.5 kHz pinger system
40-ft. long Alpine-type pnenmatic
vibracore apparatus

15. Days at sea: 12
Cores collected: 64 40-ft. long cores
13 20-ft. long cores.

cc: D. Folger
J. Kindinger
S. Penland (LGS)
A. Sallenger
T. O'Brien
N. Soderberg
G. Sexton


MISSISSIPPI SOUND
CAT ISLAND
SHIP ISLAND
HORN ISLAND
PETIT BOIS ISLAND
CHANDELEUR SOUND
CHANDELEUR ISLANDS
NORTH ISLANDS
89° 00' W
88° 20' W
30°N
30°W
LOUISIANA STATE UNIVERSITY
LOUISIANA GEOLOGICAL SURVEY
BATON ROUGE, LOUISIANA
VIBRACORE SAMPLING PROGRAM, 1987
CHANDELEUR ISLANDS AND MISSISSIPPI-ALABAMA GULF COAST
SCALE 1:80,000 OVERLAY NOS CHARTS 11363-11373
DATE: SEPTEMBER, 1987
MAP NO. 1 OF 2
ALPINE OCEAN SEISMIC SURVEY
NORWOOD, NEW JERSEY


LOUISIANA STATE UNIVERSITY
LOUISIANA GEOLOGICAL SURVEY
BATON ROUGE, LOUISIANA
VIBRACORE SAMPLING PROGRAM, 1987
CHANDELEUR ISLANDS AND MISSISSIPPI-ALABAMA GULF COAST
SCALE 1:60,000 OVERLAY NOS CHART 11363
DATE: SEPTEMBER, 1987
MAP NO 2 OF 2
ALPINE OCEAN SEISMIC SURVEY
NORWOOD, NEW JERSEY
CHANDELEUR SOUND
FREEMASON ISLANDS
CHANDELEUR ISLANDS
GRAND GOSIER IS.
BRETON SOUND
BRETON ISLANDS
89°00'W
88°35'W
29°30'

5 1988

CRUISE REPORT

M/V BLUE STREAK 8 (jack up barge)
Leg 1 and Leg 2

Louisiana Coastal Erosion Studies
Louisiana Geological Survey
Louisiana State University

Contract No. B8KED0323
September 14 to October 12, 1987

North-central Gulf of Mexico, east of the Mississippi River delta and Chandeluer Sound

Cruise dates: Leg 1 September 15,1987 leave Pearlington, MS
September 19,1987 arrive Gulfport, MS

Leg 2 September 20, 1987 leave Gulfport, MS
September 24, 1987 arrive Pearlinton, MS

Leg 1 Co-Chief Scientists Shea Penland
Jeff Williams

Leg 2 Co-Chief Scientists John Suter
Jack Kindinger

Ship's Captain: Jake Stevens
Scientific Crew: Shea Penland Louisiana Geological Survey
John Suter " " "
Jeff Williams USGS - Reston
Jack Kindinger USGS - Miami Beach
5 crew with Alpine Seismic Survey, Inc.

Purpose of cruise: Locating and identifying potential offshore sand borrow areas for beach replenishment projects is the primary objectives of the program. Core sites were located on the basis of previous seismic profiling data obtained from the study area, and were planned so as to identify the sediment types present at points ofinterest in the study area.

Positioning was accomplised by a standard Loran C navigational system.

Vibracore samples were taken with an Alpine Model 271 VIBRACORE.

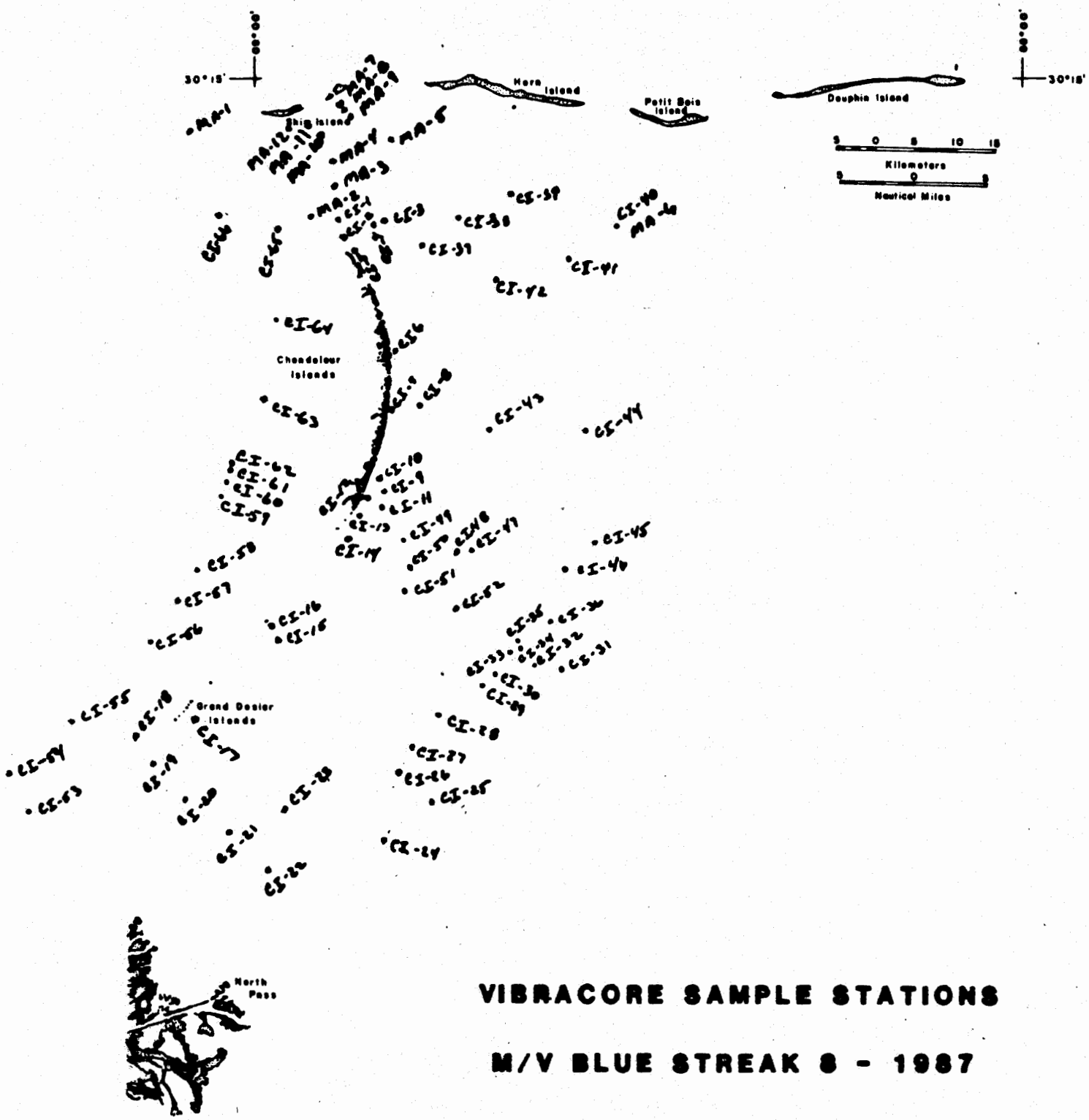
Days at sea: 8
Stations: 77 (see Table 1 and Fig. 1)
Cores collected: 77

TABLE ONE, VIBRACORE SAMPLE DATA, 1987.

LATITUDE	LONGITUDE	CORE NO.	WATER DEPTH
N30° 11.24'	W89° 04.88'	MA-87 #1	14'
N30° 05.65'	W88° 55.64'	MA-87 #2	32'
N30° 07.22'	W88° 53.20'	MA-87 #3	40'
N30° 09.48'	W88° 53.97'	MA-87 #4	34'
N30° 11.16'	W88° 49.00'	MA-87 #5	36'
N30° 13.81'	W88° 52.91'	MA-87 #7	13'
N30° 13.39'	W88° 52.78'	MA-87 #8	21'
N30° 12.42'	W88° 52.31'	MA-87 #9	28'
N30° 11.50'	W88° 54.41'	MA-87 #10	24'
N30° 12.44'	W88° 55.37'	MA-87 #11	16'
N30° 12.05'	W88° 57.14'	MA-87 #12	19'
N30° 05.13'	W88° 53.72'	CI-87 #1	40'
N30° 03.85'	W88° 53.32'	CI-87 #2	14'
N30° 05.19'	W88° 49.16'	CI-87 #3	43'
N30° 03.54'	W88° 50.40'	CI-87 #4	30'
N30° 02.61'	W88° 51.61'	CI-87 #5	9'
N29° 56.36'	W88° 49.03'	CI-87 #6	9'
N29° 52.15'	W88° 49.32'	CI-87 #7	9'
N29° 52.02'	W88° 46.97'	CI-87 #8	30'
N29° 46.89'	W88° 49.57'	CI-87 #9	29'
N29° 45.93'	W88° 49.78'	CI-87 #10	28'
N29° 45.37'	W88° 49.88'	CI-87 #11	26'
N29° 47.13'	W88° 50.80'	CI-87 #12	21'
N29° 44.76'	W88° 52.64'	CI-87 #13	9'
N29° 42.97'	W88° 53.11'	CI-87 #14	10'
N29° 36.01'	W88° 57.75'	CI-87 #15	23'
N29° 37.32'	W88° 58.84'	CI-87 #16	9'
N29° 31.42'	W89° 04.75'	CI-87 #17	9'
N29° 29.21'	W89° 09.60'	CI-87 #18	11'
N29° 28.14'	W89° 07.67'	CI-87 #19	19'
N29° 25.58'	W89° 05.28'	CI-87 #20	18'
N29° 23.02'	W89° 01.46'	CI-87 #21	39'
N29° 20.68'	W88° 53.20'	CI-87 #22	90'
N29° 24.98'	W88° 52.43'	CI-87 #23	58'
N29° 22.56'	W88° 49.66'	CI-87 #24	95'
N29° 26.03'	W88° 45.74'	CI-87 #25	83'
N29° 27.51'	W88° 48.38'	CI-87 #26	55'
N29° 29.91'	W88° 47.00'	CI-87 #27	50'
N29° 30.89'	W88° 45.02'	CI-87 #28	51'
N29° 33.33'	W88° 41.15'	CI-87 #29	58'
N29° 33.77'	W88° 40.37'	CI-87 #30	49'
N29° 34.04'	W88° 35.89'	CI-87 #31	82'
N29° 34.90'	W88° 37.12'	CI-87 #32	63'
N29° 35.84'	W88° 39.90'	CI-87 #33	48'
N29° 35.59'	W88° 39.00'	CI-87 #34	50'
N29° 36.68'	W88° 38.39'	CI-87 #35	49'
N29° 37.83'	W88° 37.09'	CI-87 #36	48'
N30° 03.95'	W88° 46.89'	CI-87 #37	40'

TABLE ONE, VIBRACORE SAMPLE DATA, 1987, CONT.

LATITUDE	LONGITUDE	CORE NO.	WATER DEPTH
N30° 05.22'	W88° 43.74'	CI-87 #38	53'
N30° 06.72'	W88° 39.97'	CI-87 #39	56'
N30° 05.01'	W88° 31.78'	CI-87 #40	60'
N30° 02.45'	W88° 35.25'	CI-87 #41	72'
N30° 00.09'	W88° 40.97'	CI-87 #42	63'
N29° 51.49'	W88° 41.14'	CI-87 #43	60'
N29° 50.73'	W88° 34.58'	CI-87 #44	81'
N29° 43.21'	W88° 33.04'	CI-87 #45	95'
N29° 40.86'	W88° 35.23'	CI-87 #46	72'
N29° 42.25'	W88° 42.29'	CI-87 #47	50'
N29° 42.38'	W88° 43.42'	CI-87 #48	55'
N29° 43.29'	W88° 48.28'	CI-87 #49	32'
N29° 41.35'	W88° 47.26'	CI-87 #50	41'
N29° 39.26'	W88° 48.23'	CI-87 #51	40'
N29° 38.50'	W88° 43.75'	CI-87 #52	51'
N29° 24.76'	W89° 17.49'	CI-87 #53	30'
N29° 27.40'	W89° 18.80'	CI-87 #54	16'
N29° 30.98'	W89° 14.61'	CI-87 #55	13'
N29° 36.61'	W89° 08.64'	CI-87 #56	15'
N29° 39.16'	W89° 05.94'	CI-87 #57	13'
N29° 42.36'	W89° 04.47'	CI-87 #58	10'
N29° 46.25'	W89° 02.76'	CI-87 #59	12'
N29° 47.13'	W89° 02.61'	CI-87 #60	13'
N29° 47.66'	W89° 02.34'	CI-87 #61	14'
N29° 48.78'	W89° 01.60'	CI-87 #62	14'
N29° 53.13'	W88° 59.73'	CI-87 #63	15'
N29° 58.18'	W88° 57.94'	CI-87 #64	14'
N30° 04.77'	W88° 57.51'	CI-87 #65	26'
N30° 05.77'	W89° 03.00'	CI-87 #66	13'



VIBRACORE SAMPLE STATIONS

M/V BLUE STREAK 8 - 1987