#84.
#81012

# Cruise Report

1. Ship Name: R/V Gyre

2. Cruise No/Leg: 81-G-8

3. Parent Project: West Florida Shelf

4. Funding Agency: S.I.R.

5. Funding Amount: $41,000

6. Contract Number: ------

7. Contract Start/End: ------

8. Area of Operation: West Florida Shelf

9. Date: May 15 - May 20, 1981

10. Chief Scientist: Charles W. Holmes

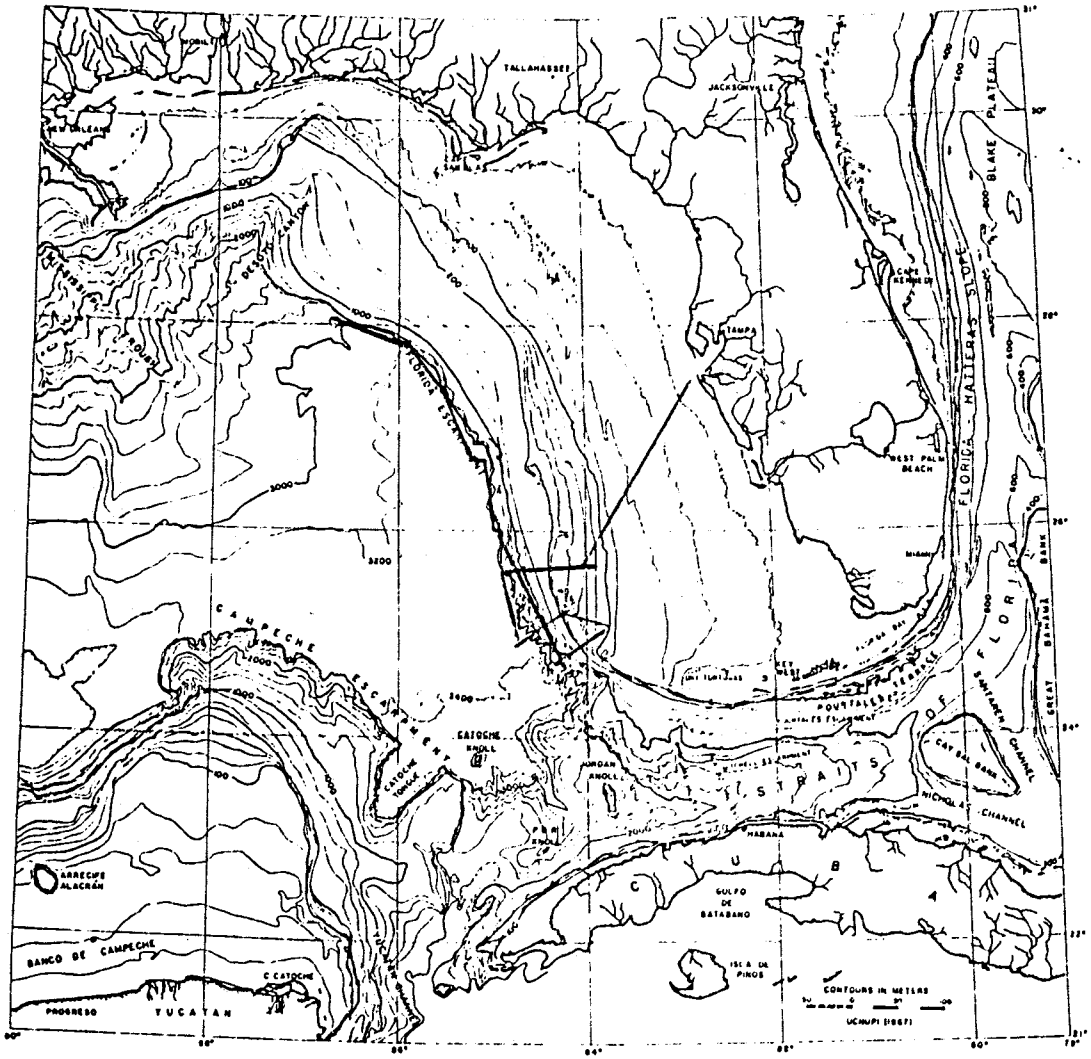
11. Scientific Staff: Larry Doyle U. of So. Florida
Paul Schoeder USGS
Greg Bnolls U. of So. Florida
Rick Wall U. of So. Florida
Steve Walker U. of So. Florida
Charles Stelting USGS
Margie M. Mitchell USGS
Angie Varga USGS
Madelynn Krobot USGS
Elizabeth Gum USGS
James McFarlen USGS
Barry Erwin USGS
Richard Elsie Captain

12. Purpose of Cruise: To sample viacore and dredge targets determined by seismic information obtained during G80-6A.

13. Navigation: Loran C

14. Equipment Employed: 3.5 kHz Subbottom Profiler
Piston Core
Van Veen Grab
Rock Dredge

15. Tabulation of Information: 5 - days at sea
540 - 3.5 kHz profiles
6 - rock dredges
5 - grab
3 - Piston cores retrieved


TALLAHASSEE
JACKSONVILLE
NEW ORLEANS
TAMPA
CAPE KENNEDY
WEST PALM BEACH
MIAMI
FLORIDA HATTERAS SLOPE
BLAKE PLATEAU
GREAT BAHAMA BANK
SANTAREN CHANNEL
CAY SAL BANK
NICHOLAS CHANNEL
STRAITS OF FLORIDA
CAMPECHE ESCARPMENT
CATOCHE KNOLL
CATOCHE TONGUE
JORDAN KNOLL
HABANA
GULFO DE BATABANO
ISLA DE PINOS
CONTOURS IN METERS
UCHUPI (1967)
ARRECIFE ALACRÁN
BANCO DE CAMPECHE
C CATOCHE
PROGRESO
YUCATAN
DESOTO CANYON
FLORIDA ESCARPMENT
3000
3200
3400

Gyre 1981

FORM APPROVED: OMB NO. 41-R2765 - EXPIRES : 12-31-79

NOAA FORM 24-23
(1-76)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE
NATIONAL OCEANOGRAPHIC DATA CENTER

A00 DATA CENTER #84.

A40 REFERENC NUMBER

# OCEANOGRAPHY - GENERAL CRUISE INVENTORY
(ROSCOP - II)

A01 EXPEDITION/PROJECT

A11 CRUISE NUMBER OR NAME
81-G-8

A02 SHIP OR PLATFORM
R/V GYRE

A12 PLATFORM TYPE
SHIP (01)

A03 COUNTRY
U.S

A04 ORGANIZATION
U.S. GEOLOGICAL SURVEY

A05 CHIEF SCIENTIST(S)
CHARLES HOLMES

| | YES | NO | PART |
|---|---|---|---|
| A91 Declared national program? | X | | |
| A81 Exchange restricted? | | X | |
| A92 Co-operative program? | | X | A72 NAME |
| A82 Co-ordinated internationally? | | X | A62 BY WHOM? |

A06 NAME AND ADDRESSES OF ORGANIZATIONS AND PERSONS

| WHOM TO QUERY | FINAL DISPOSITION OF DATA |
|---|---|
| A1 CHARLES HOLMES - USGS | A2 |
| B1 Box 6732 | B2 |
| C1 CORPUS CHRISTI, TEXAS 78411 | C2 |
| D1 | D2 |
| E1 | E2 |

| DATE | DAY | MONTH | YEAR |
|---|---|---|---|
| A07 FROM | 15 | 05 | 81 |
| A17 TO | 20 | 05 | 81 |

A08 GENERAL OCEAN AREAS
26 GULF OF MEXICO - W. Florida Shelf

A09 TYPE(S) OF MARINE ZONE(S)
07

GEOGRAPHIC AREA
*If all data were collected at a fixed station, fill in the co-ordinates*

A10 LATITUDE ° ' " N/S

A20 LONGITUDE ° ' " E/W

A15 FEDERAL SUPPORT U.S.G.S

A25 REMARKS

DATA COLLECTED: 6 Dredge
5 Grab
3 Cores
540 Seismic reflection

| DISCIPLINE AND TYPE OF MEASUREMENTS | Index 10° x 10° Qc | L | G | G | INDEX 1° x 1° | DISCIPLINE AND TYPE OF MEASUREMENTS | Index 10° x 10° Qc | L | G | G | INDEX 1° x 1° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A G 25 B | 7 | 2 | 0 | 8 | | A B | | | | | |
| A G 01 B | 7 | 2 | 0 | 8 | | A B | | | | | |
| A G 02 B | 7 | 2 | 0 | 8 | | A B | | | | | |
| A G 04 B | 7 | 2 | 0 | 8 | | A B | | | | | |
| A B | | | | | | A B | | | | | |
| A B | | | | | | A B | | | | | |
| A B | | | | | | A B | | | | | |

## G – GEOLOGY GEOPHYSICS

| GL MEASUREMENTS MADE AT A SPECIFIC LOCATION | NUMBER | i | l | FORMAT |
|---|---|---|---|---|
| G01 Dredge | 6 | A | I | |
| G02 Grab | 5 | A | I | |
| G03 Core rock *(no. of cores)* | | | | |
| G04 Core–soft bottom *(no. of cores)* | 3 | A | I | |
| G05 Sampling by divers | | | | |
| G06 Sampling by submersible | | | | |
| G07 Drilling | | | | |
| G08 Bottom photography | | | | |
| G09 Sea floor temperature *(≤ 1 m from bottom)* | | | | |
| G10 Accoustical properties of the sea floor | | | | |
| G11 Engineering properties of the sea floor | | | | |
| G12 Magnetic properties of the sea floor | | | | |
| G13 Gravimetric properties of the sea floor | | | | |
| G14 Radioactivity measurements | | | | |
| G70 Other measurements | | | | |
| | | | | |
| | | | | |

| GU MEASUREMENTS UNDERWAY | | | | |
|---|---|---|---|---|
| G21 Motion picture of sea floor *(No. of nautical miles)* | | | | |
| G22 Bathymetry-wide beam *(no. of nautical miles)* | | | | |
| G23 Bathymetry-narrow beam *(no. of nautical miles)* | | | | |
| G24 Side scan sonor *(no. of nautical miles)* | | | | |
| G25 Seismic reflection *(no. of nautical miles)* | 540 | | | |
| G26 Seismic refraction *(no. of nautical miles)* | | | | |
| G27 Gravimetry | | | | |
| G28 Magnetism | | | | |
| G29 Other measurements | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## G – GEOLOGY GEOPHYSICS *(Continued)*

| GS TYPES OF STUDIES | NUMBER | i | l | FORMAT |
|---|---|---|---|---|
| G31 Physical analysis of sediments | | | | |
| G32 Chemical analysis of sediments | | | | |
| G33 Paleothermy | | | | |
| G34 Paleomagnetism and rock magnetism | | | | |
| G35 Paleontology | | | | |
| G36 Geothermy | | | | |
| G37 Geochronology | | | | |
| G38 Mineral and fossil resources | | | | |
| G39 Litteral zone studies | | | | |
| G90 Other measurements | | | | |

## D – DYNAMICS

| | | | | |
|---|---|---|---|---|
| D01 Current meters *(no. of stat.)* | | | | |
| D02 Current meters *(Average duration of measurement days)* | | | | |
| D03 Currents measured from ship drift | | | | |
| D04 GEK | | | | |
| D05 Drifters *(number)* | | | | |
| D06 Swallow floats *(number)* | | | | |
| D07 Drift cards *(no. released)* | | | | |
| D08 Bottom drifters *(no. released)* | | | | |
| D09 Tidal observation *(duration)* | | | | |
| D10 Sea and swell *(no. of observations)* | | | | |
| D90 Other measurements | | | | |
| | | | | |

## M – METEOROLOGY

| | | | | |
|---|---|---|---|---|
| M01 Upper air observations | | | | |
| M02 Incident radiation | | | | |
| M03 Air–sea interface studies | | | | |
| M04 Ice observations | | | | |
| M05 Occasional standard measurements | | | | |
| M06 Systematic standard measurements | | | | |
| M90 Other measurements | | | | |
| | | | | |