Carancahua 8/24 - 9/28 1982 Cruise Report

Received 1/14/83

UNITED STATES GOVERNMENT

memorandum

82029

DATE: January 10, 1983

REPLY TO ATTN OF: John Suter, MMS, Corpus Christi, TX JS

SUBJECT: Carancahua Cruise, Aug.-Sept. 1982

TO: Red Bailey, USGS, Woods Hole, MA

From August 24 through September 22, 1982, John Suter, Jack Kindinger, Doug Owen, James McFarlen, John West, and James Ray, all USGS - Corpus Christi, collected high-resolution geophysical profiles on the inner continental shelf of southwestern Louisiana. The work, done in co-operation with the Louisiana Geological Survey, was for the purpose of mapping nearshore geology and making an inventory of sand resources. Despite numerous mechanical difficulties with the R/V Carancahua, 400 km of high quality ORE uniboom data were obtained near Cameron, Louisiana.

6 People - USGS
6 Days

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

OPTIONAL FORM NO. 10
(REV. 7-76)
GSA FPMR (41 CFR) 101-11.6
5010-112

#90

#82029

Cruise Report

Ship: R/V Carancahua (LaCoss)

Cruise Number: 82-C-1

AREAOF OPERATIONS: Louisiana Shelf

Dates of Operation: 8/24/82 to 9/22/82

Personnel:
Chief Scientist: John Suter USGS - Corpus Christi
Jack Kindinger - Oceanographer - USGS - Corpus Christi
Doug Owen - Geologist - USGS - Corpus Christi
John West - Electronic Tech - USGS - Corpus Christi
James Ray - Boat Captain - USGS - Corpus Christi
James McFarlen - Boat Operator - USGS - Corpus Christi

Purpose: High resolution seismic profiling in three areas of western Louisiana Continental shelf to map nearshore gology and survey sand resources

Major Equipment - Ore Boomer,

Navigation - Loran C

Data Acquired: 300 KM high resolution seismic data

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

OCEANOGRAPHY - GENERAL CRUISE INVENTORY
(ROSCOP - II)

A40 REFERENCE NUMBER 70

	YES	NO	PART
A91 Declared national program?		X	
A81 Exchange restricted?		X	
A92 Co-operative program?	X		
A82 Co-ordinated internationally?			

A01 EXPEDITION/PROJECT: La Coss

A11 CRUISE NUMBER OR NAME: 82-C-1

A02 SHIP OR PLATFORM: RV Carancahua

A72 NAME

A12 PLATFORM TYPE

A62 BY WHOM?

A03 COUNTRY

A04 ORGANIZATION

A05 CHIEF SCIENTIST(S): John Suter

A06 NAME AND ADDRESSES OF ORGANIZATIONS AND PERSONS WHOM TO QUERY

A1 John Suter - US GEological Survey
B1 P.O. Box 6732
C1 Corpus Christi, Texas 78411
D1
E1

FINAL DISPOSITION OF DATA

A2
B2
C2
D2
E2

DATE	DAY	MONTH	YEAR
A07 FROM	24	08	82
A17 TO	22	09	82

A08 GENERAL OCEAN AREAS: Louisiana Shelf

A09 TYPE(S) OF MARINE ZONE(S): 01,02,04,07

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

A25 REMARKS

DATA ACQUIRED: APPROXIMATELY 300 Km.
1. Ore Boomer
~~2. Klein Side scan~~

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 [redacted], G25 B	7	2	0	9		A B					
A B						A B					
A B						A B					
A B						A B					
A B						A B					
A B						A B					
A B						A B					

National Oceanic and Atmospheric Administration
Environmental Data Service
National Geophysical and Solar-Terrestrial Data Center

MARINE GEOPHYSICAL DATA DOCUMENTATION CODING FORM

CRUISE IDENTIFIER (as in data record)	FORMAT ACRONYM	DATA CENTER FILE NUMBER	NO. OF HEADERS: TYPE "1"	NO. OF HEADERS: TYPE "2"	NUMBER OF PARAMETERS	PARAMETERS SURVEYED: BATHYMETRY	MAGNETICS	GRAVITY	H.R. SEIS.	D.P. SEIS.	FILE CREATION DATE (Y Y M M D D)	CONTRIBUTING INSTITUTION	SEQ. NO.
1 82-C-1	MGD77	90			29			5				U.S. Geological Survey	01

COUNTRY	PLATFORM NAME	PLATFORM TYPE CODE	PLATFORM TYPE plain language	CHIEF SCIENTIST(S)	SEQ. NO.
United States	R/V Carancahua	1	Boat	John Suter	02

PROJECT, CRUISE & LEG	FUNDING	SEQ. NO.
LaCoSS		03

DEPARTURE DATE (Y Y M M D D)	DEPARTURE PORT (CITY, COUNTRY)	ARRIVAL DATE (Y Y M M D D)	ARRIVAL PORT (CITY, COUNTRY)	SEQ. NO.
820824	Corpus Christi Texas USA	820922	Corpus Christi Texas USA	04

NAVIGATION INSTRUMENTATION	POSITION DETERMINATION METHOD	SEQ. NO.
LORAN-C	LORAN-C	05

BATHYMETRY INSTRUMENTATION	ADDITIONAL FORMS OF BATHYMETRY DATA	SEQ. NO.
		06

MAGNETICS INSTRUMENTATION	ADDITIONAL FORMS OF MAGNETICS DATA	SEQ. NO.
		07

GRAVITY INSTRUMENTATION	ADDITIONAL FORMS OF GRAVITY DATA	SEQ. NO.
		08

SEISMIC INSTRUMENTATION	FORMATS OF SEISMIC DATA	SEQ. NO.
200 Joule Boomer	Analog	09

FORMAT TYPE	DATA FORMAT DESCRIPTION (IN FORTRAN)	SEQ. NO.
A	(I1,A8,F5.2,4I2,F5.3,F8.5,F9.5,I1,F6.4,F6.1,I2,I1,3F6.1,I1,F5.1,F6.0,F7.1,	10
	F6.1,F5.1,A8,4I1)	11

BATHYMETRY

DIGITIZING RATE (MIN)	SAMPLING RATE	SOUND VELOCITY (METERS/SEC)	BATHY. DATUM CODE	INTERPOLATION SCHEME	SEQ. NO.
					12

MAGNETICS

DIGITIZING RATE (MIN)	SAMPLING RATE (SEC)	SENSOR TOW DIST. (METERS)	SENSOR DEPTH (METERS)	HORIZONTAL SENSOR SEPARATION (METERS)	REFERENCE FIELD	REFERENCE FIELD	METHOD OF DERIVING RESIDUAL FIELD	SEQ. NO.
								13

GRAVITY

DIGITIZING RATE (MIN)	SAMPLING RATE (SEC)	CODE	THEORETICAL GRAV. FORMULA in plain language	CODE	REFERENCE SYSTEM in plain language	CORRECTIONS APPLIED	SEQ. NO.
							14

BASE STATION GRAVITY (MGAL)	DEPARTURE BASE STATION DESCRIPTION	BASE STATION GRAVITY (MGAL)	ARRIVAL BASE STATION DESCRIPTION	SEQ. NO.
				15

NO. OF AREA IDENTIFIERS	10-DEGREE AREA IDENTIFIERS	SEQ. NO.
		16
		17

ADDITIONAL DOCUMENTATION

	SEQ. NO.
	18
	19
	20
	21
	22
	23
	24

Louisiana Cooperative Sand Survey

LaCoSS aboard R/V-Caracahua (82-C-1)

Chief Scientist: John Suter - USGS
Scientific Support: Doug Owen - "
Jack Kindinger - "
Chief of Operations: John West - "
Boat Captain: Jim Ray - "
Crew: Jim McFarlen - "

200 Joule Boomer System
~~Side Scan Sonar~~

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NOAA FORM 24-23
(1-76)

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

OCEANOGRAPHY - GENERAL CRUISE INVENTORY
(ROSCOP - II)

A00 DATA CENTER

A40 REFERENCE NUMBER 90

A01 EXPEDITION/PROJECT: LaCoSS

A11 CRUISE NUMBER OR NAME: 82-C-1

A02 SHIP OR PLATFORM: RV Caranchua

A12 PLATFORM TYPE: 01

	YES	NO	PART
A91 Declared national program?		X	
A81 Exchange restricted?		X	
A92 Co-operative program?	X		
A82 Co-ordinated internationally?			

A72 NAME

A62 BY WHOM?

A03 COUNTRY: United States

A04 ORGANIZATION: U.S. Geological Survey

A05 CHIEF SCIENTIST(S): John Suter

A06 NAME AND ADDRESSES OF ORGANIZATIONS AND PERSONS

WHOM TO QUERY		FINAL DISPOSITION OF DATA	
A1	John Suter - USGS	A2	
B1	P.O. Box 6732	B2	
C1	Corpu Christi	C2	
D1	Tx 78411	D2	
E1		E2	

DATE	DAY	MONTH	YEAR
A07 FROM	24	08	82
A17 TO	22	09	82

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A09 TYPE(S) OF MARINE ZONE(S): 01, 02, 04, 07

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A10 LATITUDE ° ' " N/S

A20 LONGITUDE ° ' " E/W

A15 FEDERAL SUPPORT

A25 REMARKS Data acquired: approximately 300 Km

1. ORE Boomer

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	9		A B					
A B						A B					
A B						A B					
A B						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				
G02 Grab				
G03 Core rock *(no. of cores)*				
G04 Core–soft bottom *(no. of cores)*				
G05 Sampling by divers				
G06 Sampling by submersible				
G07 Drilling				
G08 Bottom photography				
G09 Sea floor temperature *(≤ 1 m from bottom)*				
G10 Accoustrical 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 Mosaic 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)*				Analog
G25 Seismic reflection *(no. of nautical miles)*				Analog
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				

Red Bailey

UNITED STATES GOVERNMENT

memorandum

DATE: August 18, 1982

REPLY TO ATTN OF: John Suter, Chief Scientist

SUBJECT: Pre-Cruise Report
R/V Carancahua 8/22-9/16/82
Western Louisiana Shelf

TO: Tom Aldrich, Ship Manager

1. Name of vessel: R/V Carancahua
2. Departure: 0800 8/22/82 Corpus Christi, TX
3. Ports of call: Cameron, LA; Cocodrie, LA; Grand Isle, LA
4. Estimated return: 1700 9/16/82 Corpus Christi, TX
5. Purpose: High resolution seismic profiling in three areas of western Louisiana continental shelf to map nearshore geology and survey sand resources

Uniboom
~10-miles
6 days
4 [illegible]

Personnel (All USGS, CC)

1.	John Suter	Chief Scientist, Geologist
2.	Jack Kindinger	Watch stander, Oceanographer
3.	Doug Owen	Watch stander, Geologist
4.	John West	Chief of Operations, Electronic Tech.
5.	James Ray	Boat Captain
6.	James McFarlen	Boat operator

OPTIONAL FORM NO. 10
(REV. 1-80)
GSA FPMR (41 CFR) 101-11.6
5010-114