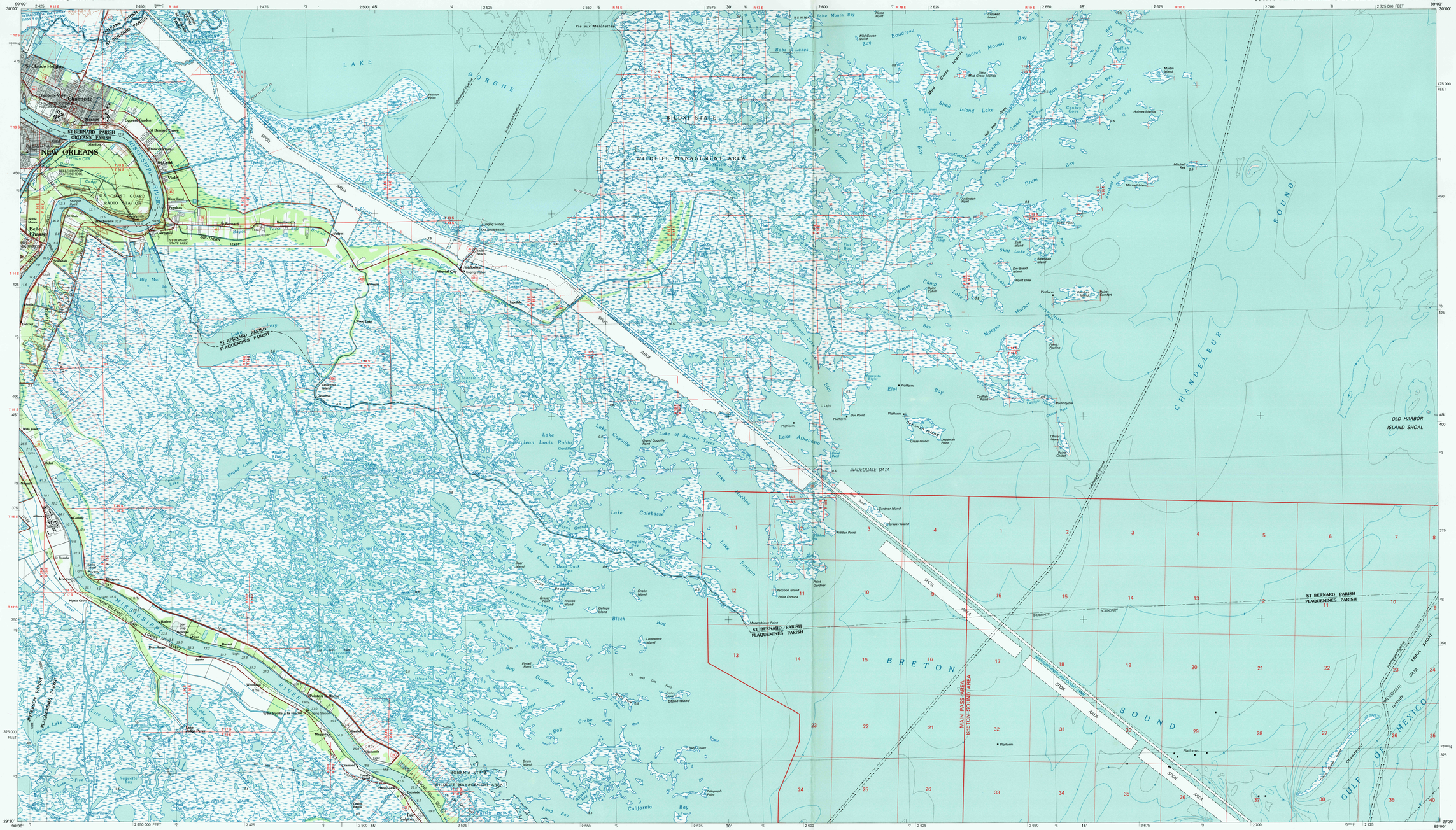



INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1983

KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

MILES 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

1000 0 5000 10 000 15 000 20 000 METERS

5000 0 10 000 20 000 30 000 40 000 50 000 60 000 70 000 FEET

**SCALE 1:100 000**

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

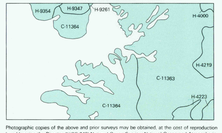
**CONTOUR INTERVAL 2 METERS**

USGS NMD HISTORICAL MAP ARCHIVES
OCT 7 1997
REC'D FILE COPY

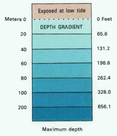
## HYDROGRAPHIC SURVEY INFORMATION

| SURVEY NUMBER | SURVEY DATE | SURVEY SCALE | SURVEY LINE SPACING NAUT. MILES |
|---|---|---|---|
| H-4200 | 1917 | 1:40,000 | .05-.1.1 |
| H-4219 | 1922 | 1:80,000 | .10-.60 |
| H-4221 | 1922 | 1:80,000 | .15-1.5 |
| H-8261 | 1971 | 1:20,000 | .03-.10 |
| H-8347 | 1972-73 | 1:20,000 | .05-.20 |
| H-9264 | 1973 | 1:20,000 | .05-.15 |
| NOS CHART 11363 | 1978 | 1:80,000 | |
| NOS CHART 11364 | 1980 | 1:80,000 | |

## HYDROGRAPHIC SURVEY INDEX




Photographic copies of the above and prior surveys may be obtained, at the cost of reproduction, by addressing the Director (NCG) 2431 National Ocean Service, National Ocean and Atmospheric Administration, Rockville, Maryland 20852

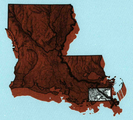



29089-E1-TB-100

# Black Bay

## LOUISIANA

### 1:100 000-scale *metric* topographic–bathymetric map



*30 X 60 MINUTE QUADRANGLE SHOWING*

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names
- Bathymetric contours in meters

U. S. GEOLOGICAL SURVEY
NATIONAL OCEAN SERVICE

1983

Produced by the United States Geological Survey and the National Ocean Service
Compiled from USGS 1:24 000-scale topographic maps dated 1951-79 and orthophotomaps dated 1973. Planimetry revised from aerial photographs taken 1978 and other source data. Revised information not field checked. Map edited 1983
Bathymetry compiled by the National Ocean Service from tide-coordinated hydrographic surveys. This information is not intended for navigational purposes. Shoreline and topographic information on bathymetric maps compiled by NOS from tide-coordinated aerial photographs. Apparent shoreline (mean edge of vegetation) shown by light solid line
Projection and 10 000-meter grid, zone 16: Universal Transverse Mercator
25 000-foot grid ticks based on Louisiana coordinate system, south zone
1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 6 meters south and 47 meters west
Offshore protraction survey data, shown in red, compiled by the Bureau of Land Management. Heavy lines indicate limits of BLM Outer Continental Shelf Official Protraction Diagram dated July 22, 1954. The protractions on this map are not for Federal leasing purposes, for such purposes, refer to the 1:250 000-scale Official Protraction Diagrams available from the Bureau of Land Management
There may be private inholdings within the boundaries of the National or State reservations shown on this map
All or part of this quadrangle lies within a subsidence area

CONTOUR INTERVAL 2 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST 0.5 METER
BATHYMETRIC CONTOUR INTERVAL 2 METERS WITH SUPPLEMENTARY 1 METER CONTOURS. MEAN LOWER LOW WATER DATUM
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS. BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION 44 ACCURACY STANDARDS AND/OR STANDARDS USED AS OF THE DATE OF THE SURVEYS

**CONVERSION TABLE**

| Meters | Feet |
|---|---|
| 1 | 3.2808 |
| 2 | 6.5617 |
| 3 | 9.8425 |
| 4 | 13.1234 |
| 5 | 16.4042 |
| 6 | 19.6850 |
| 7 | 22.9659 |
| 8 | 26.2467 |
| 9 | 29.5276 |
| 10 | 32.8084 |

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

**DECLINATION DIAGRAM**

MN
GN 1
TRUE
T14E 22 MILS 62° MILS

UTM grid convergence (GN) and true magnetic declination (MN) at center of map
Diagram is approximate

**ADJOINING MAPS**

| 1 | 2 | 3 |
|---|---|---|
| 4 | | 5 |
| 6 | 7 | 8 |

1 Ponchatoula
2 Gulfport
3 Biloxi
4 New Orleans
5 North Islands
6 Terrebonne Bay
7 Mississippi River Delta
8

ISBN 0-607-23054-8
9 780607 230567

## Topographic Map Symbols

Primary highway, hard surface
Secondary highway, hard surface
Light duty road, principal street, hard or improved surface
Other road or street; trail
Route marker: Interstate; U. S.; State
Railroad: standard gage; narrow gage
Bridge; overpass; underpass
Tunnel: road; railroad
Built up area; locality; elevation
Airport; landing field; landing strip
National boundary
State boundary
County boundary
National or State reservation boundary
Land grant boundary
U. S. public lands survey: range, township; section
Range, township; section line; protracted
Power transmission line; pipeline
Dam; dam with lock
Cemetery; building
Windmill; water well; spring
Mine shaft; adit or cave; mine, quarry; gravel pit
Campground; picnic area; U. S. location monument
Ruins; cliff dwelling
Distorted surface: strip mine, lava; sand
Contours: index; intermediate; supplementary
Bathymetric contours: index; intermediate
Stream, lake: perennial; intermittent
Rapids, large and small; falls, large and small
Area to be submerged; marsh, swamp
Land subject to controlled inundation; woodland
Scrub; mangrove
Orchard; vineyard

A pamphlet describing topographic maps is available on request

FOR SALE BY U.S. GEOLOGICAL SURVEY
P.O. BOX 25286, DENVER, COLORADO 80225
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852
"BATHYMETRIC MAPS FOR SALE BY NOS ONLY

BLACK BAY, LOUISIANA
29089-E1-TB-100
1983