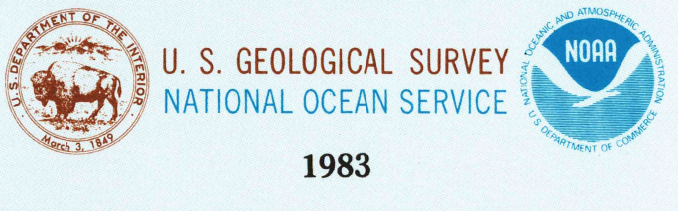


- 30 X 60 MINUTE QUADRANGLE SHOWING
- Contours and elevations in meters
 - Highways, roads and other manmade structures
 - Water features
 - Woodland areas
 - Geographic names
 - Bathymetric contours in meters



Produced by the United States Geological Survey and the National Ocean Service. Compiled from USGS 1:250 000-scale topographic maps dated 1971-1973 and 1:100 000-scale bathymetric maps dated 1958-1960. Bathymetry 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 bathymetric surveys. This information is not intended for navigational purposes and is not to be used for navigation. For each purpose, refer to the 1:250 000-scale USGS Official Projection Diagrams available from the Bureau of Land Management. This map is printed on North American Datum 1983, using the projection listed on the USGS Official Projection Diagrams available from the Bureau of Land Management. All other projection survey data, shown in red, compiled by the Bureau of Land Management. Heavy dashed lines show 1:250 000-scale USGS Official Projection Diagrams dated June 1954. The projections on this map are not the Federal Geodetic Control System. The projections on this map are not the Federal Geodetic Control System. The projections on this map are not the Federal Geodetic Control System. The projections on this map are not the Federal Geodetic Control System.

CONTOUR INTERVAL: 2 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
 BATHYMETRIC CONTOUR INTERVAL: 2 METERS WITH SUPPLEMENTARY 1 METER CONTOURS; MEAN LOWER LOW WATER DATUM
 THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
 SOUNDINGS FROM NOS CHARTS 11381 AND 11384

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

DECLINATION DIAGRAM

ADJOINING MAPS

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

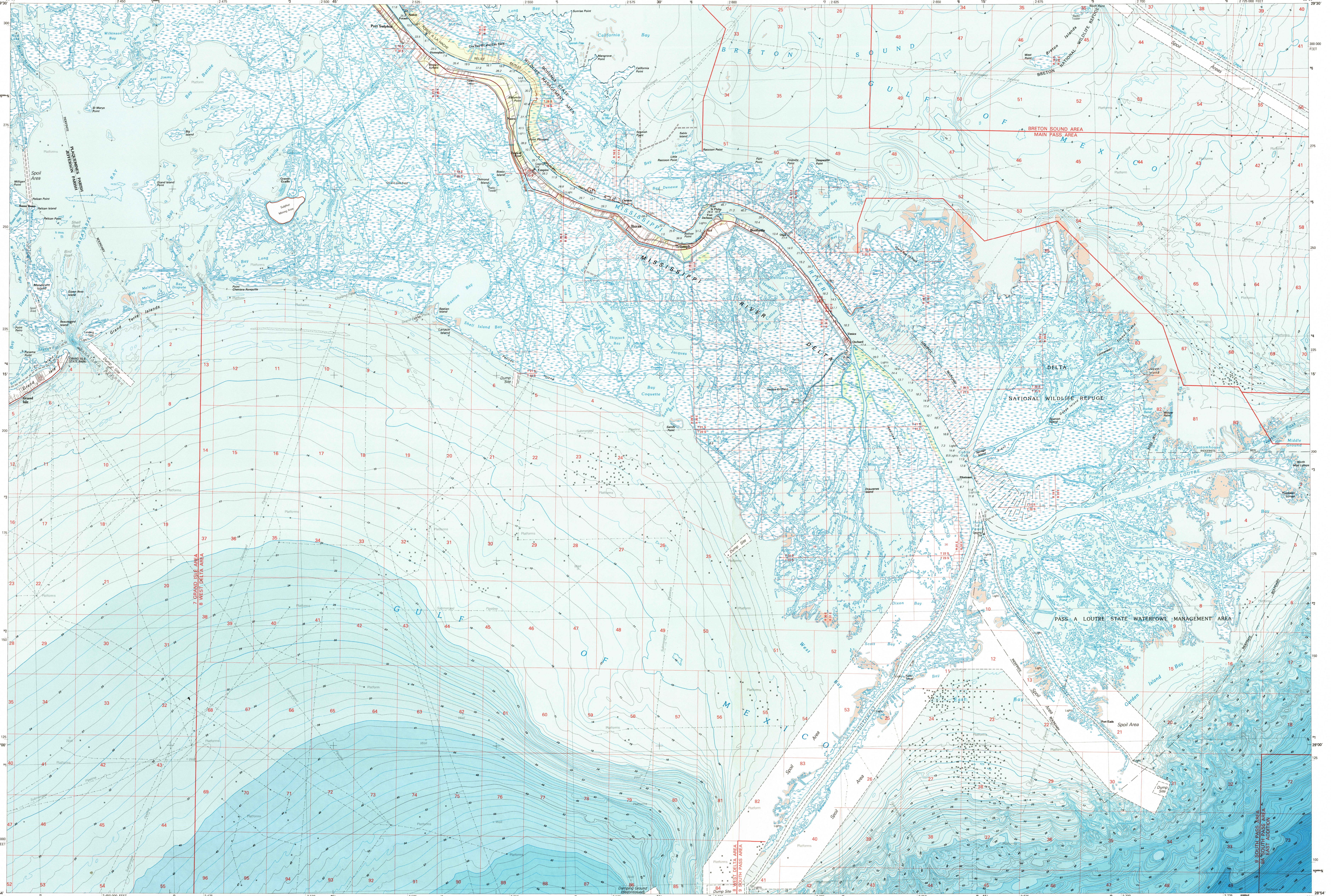
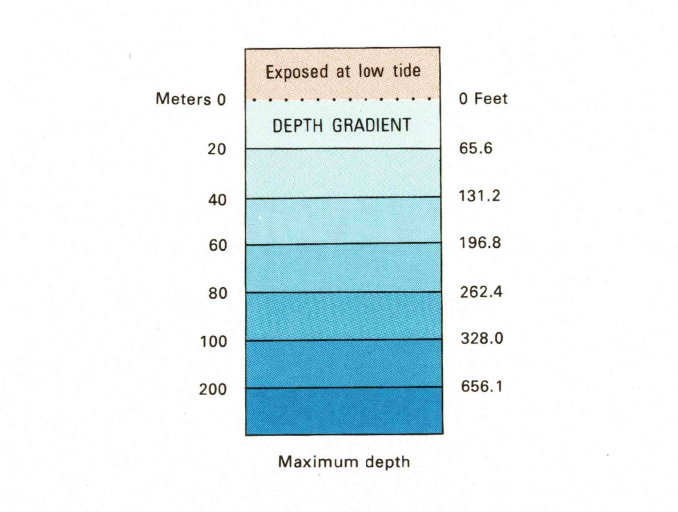


Topographic Map Symbols

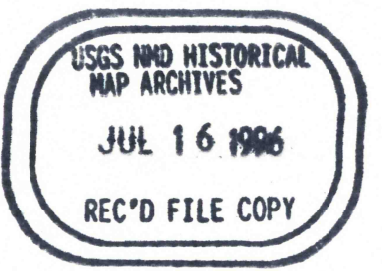
- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street, gravel
- Railroad, standard gauge, U. S. State
- Railroad, standard gauge, narrow gauge
- Bridge, covered, underpass
- Tunnel, rock, masonry
- Built up area, locality, elevation
- Airport, landing field, landing strip
- Natural 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, protected
- Power transmission line, pipeline
- Ditch, dam with lock
- Cemetery, building
- Wellhead, water well, spring
- Mine shaft, salt or cave, mine, quarry, gravel pit
- Compass rose, plane area, U. S. location monument
- Rail, cliff, dwelling
- Disturbed surface: strip mine, loess, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake, general, intermittent
- Rapid, large and small, hills, large and small
- Area to be submerged, marsh, swamp
- Land subject to controlled inundation, woodland
- Swamp, mangrove
- Orchard, vineyard

A pamphlet describing topographic maps is available on request

FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092 AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852



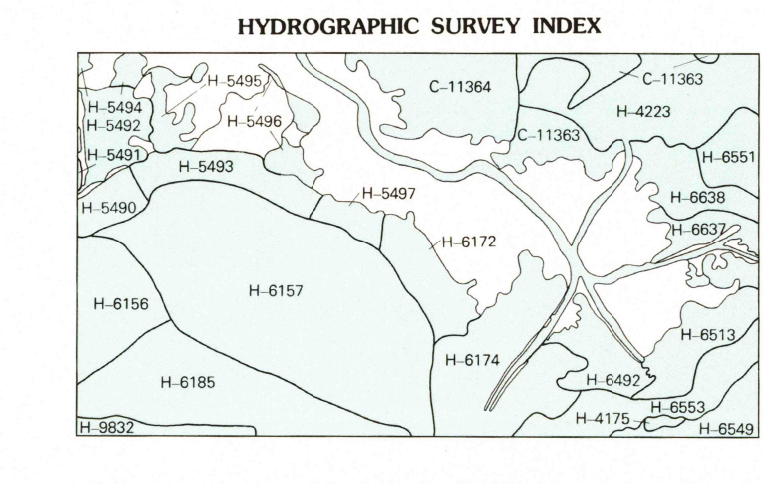
SCALE 1:100 000
 1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
 CONTOUR INTERVAL: 2 METERS



HYDROGRAPHIC SURVEY INFORMATION

QUADRY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING	QUADRY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING
H-4175	1951-52	1:60 000	02-10	H-4174	1956	1:20 000	05-20
H-4222	1952	1:60 000	01-15	H-4220	1956	1:20 000	05-20
H-4281	1954	1:60 000	02-25	H-4279	1959	1:20 000	02-25
H-4282	1954	1:60 000	02-25	H-4278	1959	1:20 000	02-25
H-4283	1954	1:60 000	02-25	H-4277	1959	1:20 000	02-25
H-4284	1954	1:60 000	02-25	H-4276	1959	1:20 000	02-25
H-4285	1954	1:60 000	02-25	H-4275	1959	1:20 000	02-25
H-4286	1954	1:60 000	02-25	H-4274	1959	1:20 000	02-25
H-4287	1954	1:60 000	02-25	H-4273	1959	1:20 000	02-25
H-4288	1954	1:60 000	02-25	H-4272	1959	1:20 000	02-25
H-4289	1954	1:60 000	02-25	H-4271	1959	1:20 000	02-25
H-4290	1954	1:60 000	02-25	H-4270	1959	1:20 000	02-25
H-4291	1954	1:60 000	02-25	H-4269	1959	1:20 000	02-25
H-4292	1954	1:60 000	02-25	H-4268	1959	1:20 000	02-25
H-4293	1954	1:60 000	02-25	H-4267	1959	1:20 000	02-25
H-4294	1954	1:60 000	02-25	H-4266	1959	1:20 000	02-25
H-4295	1954	1:60 000	02-25	H-4265	1959	1:20 000	02-25
H-4296	1954	1:60 000	02-25	H-4264	1959	1:20 000	02-25
H-4297	1954	1:60 000	02-25	H-4263	1959	1:20 000	02-25
H-4298	1954	1:60 000	02-25	H-4262	1959	1:20 000	02-25
H-4299	1954	1:60 000	02-25	H-4261	1959	1:20 000	02-25
H-4300	1954	1:60 000	02-25	H-4260	1959	1:20 000	02-25

NOS CHART 11381 1981 1:60 000
 NOS CHART 11384 1981 1:60 000



Photographic copies of the above and prior surveys may be obtained at the cost of reproduction, by addressing the Director, NCEC, 225 National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852