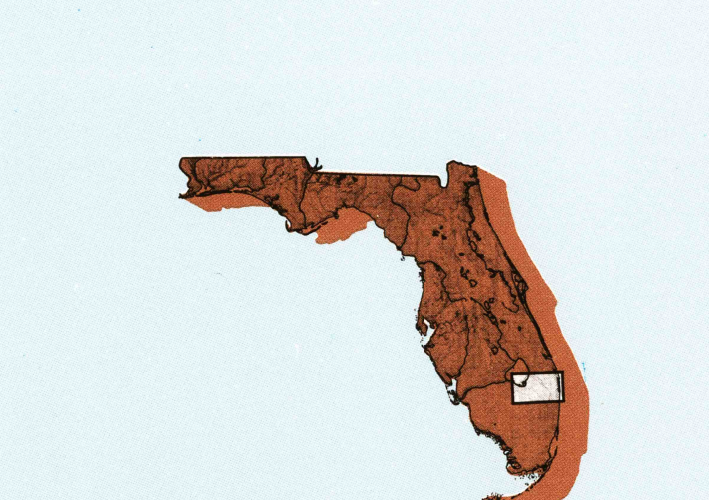
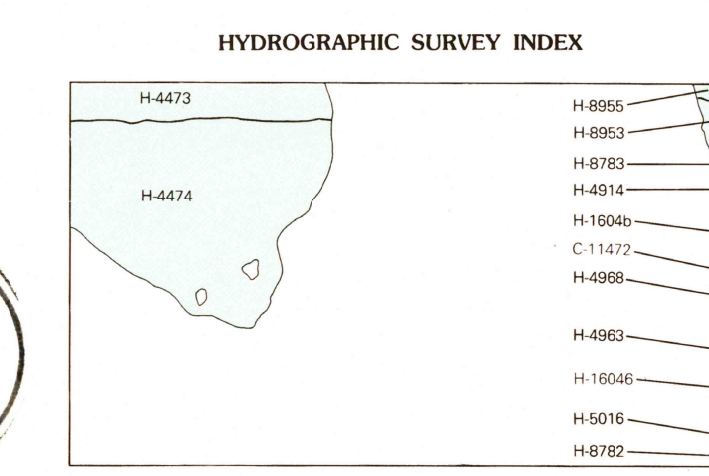


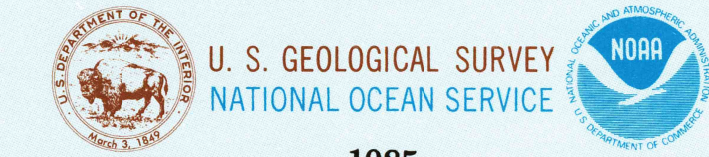
Scale: 1:100,000
Contour Interval: 5 Meters
Scale bar: 0 to 20 Kilometers, 0 to 20 Miles, 0 to 20,000 Meters, 0 to 20,000 Feet

HYDROGRAPHIC SURVEY INFORMATION			
SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY UNIT (NAUT. MILES)
H-10000	1900	1:10,000	10
H-10010	1901	1:10,000	10
H-10020	1902	1:10,000	10
H-10030	1903	1:10,000	10
H-10040	1904	1:10,000	10
H-10050	1905	1:10,000	10
H-10060	1906	1:10,000	10
H-10070	1907	1:10,000	10
H-10080	1908	1:10,000	10
H-10090	1909	1:10,000	10
H-10100	1910	1:10,000	10
H-10110	1911	1:10,000	10
H-10120	1912	1:10,000	10
H-10130	1913	1:10,000	10
H-10140	1914	1:10,000	10
H-10150	1915	1:10,000	10
H-10160	1916	1:10,000	10
H-10170	1917	1:10,000	10
H-10180	1918	1:10,000	10
H-10190	1919	1:10,000	10
H-10200	1920	1:10,000	10

USGS NMD HISTORICAL MAP
JAN 16 1987
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- 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 1:100,000 scale topographic maps dated 1945-1975 and bathymetric data dated 1975-1977. Bathymetry revised from aerial photographs taken 1980 and other source data. Revised information not field checked. Map dated 1985.
Bathymetry compiled by the National Ocean Service from tide-coordinated bathymetric surveys. This information is not intended for navigational purposes. Mean low water (MLW) line and mean high water (MHW) solid line compiled by NOAA from tide-coordinated aerial photographs. Reported shoreline (inner edge of vegetation) shown by light solid line.
Projection and 30,000 meter grid zone 17, Universal Transverse Mercator 21,000-foot grid based on Florida coordinate system, east zone 1987 North American Datum.
To place on the projected North American Datum 1983, move the projection lines 31 meters south and 22 meters east.
Offshore protection survey data, shown in red, furnished by the Minerals Management Service. Many features from the Outer Continental Shelf Official Protection Diagram dated February 3, 1977. The protection on this map are for Federal landing purposes. For each purpose, refer to USGS Official Protection Diagrams available from the Minerals Management Service. These maps are printed on the backside of the National Ocean Service maps shown on this map.

CONTOUR INTERVAL 5 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER
BATHYMETRIC CONTOUR INTERVAL 5 METERS WITH SUPPLEMENTARY 1 METER CONTOURS MEAN LOWER LOW WATER DATUM
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	Magnetic Declination		1	2	3
1	3.281	Magnetic Declination		4	5	
2	6.562			6	7	8
3	9.843	UTM grid convergence		1	2	3
4	13.124			4	5	6
5	16.405	UTM grid convergence		7	8	9
6	19.686			10	11	12
7	22.967	UTM grid convergence		13	14	15
8	26.248			16	17	18
9	29.529	UTM grid convergence		19	20	21
10	32.810			22	23	24
To convert feet to meters multiply by 0.3048		To convert meters to feet multiply by 3.281		Diagram is approximate		

FOR SALE BY U.S. GEOLOGICAL SURVEY
BOSTON, VIRGINIA 22002
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20850

Topographic Map Symbols

- Primary highway, hard surface
Secondary highway, hard surface
Light duty road, principal street, hard or improved surface
Other road or street, foot
Route marker, Interstate, U.S., State
Railroad, standard gauge, narrow gauge
Bridge, overpass, underpass
Tunnel, road, railroad
Built up area, locality, elevation
Airport, landing field, landing strip
National 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
Dam, dam with lock
Canal, 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
Roads, large and small, bays, large and small
Area to be submerged, marsh, swamp
Land subject to controlled inundation, woodland
Sewer, mangrove
Orchard, vineyard

A pamphlet describing topographic maps is available on request

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