



EXPLANATION

● HWM-12 High-water mark and identification number. Number in parenthesis is elevation of high-water mark, in feet above mean sea level.

□ RM-17 Reference mark and identification number. Number in parenthesis is elevation of reference mark, in feet above mean sea level.

□ BM-28Y Benchmark and identification number. Number in parenthesis is elevation of benchmark, in feet above mean sea level.

Note: Topographic contours on this map are in meters above mean sea level. To convert from meters to feet, multiply by 3.281. High-water mark and survey mark elevations are shown in feet above mean sea level. To convert feet to meters, multiply by 0.3048.

Mapped, edited, and published by the Geological Survey
 under authority of the Department of the Interior, U.S. Geological Survey.

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1963. Revised from aerial photographs taken 1967. Field checked 1969.

Selected hydrographic data compiled from NOS charts 903 (1964) and 908 (1965). This information is not intended for navigational purposes.

Polyconic projection. Puerto Rico Datum, 1940 adjustment 2000-meter grid ticks based on Puerto Rico coordinate system 1000-meter Universal Transverse Mercator grid, zone 19.

Barrio and municipality boundaries by the Puerto Rico Planning Board. Red tint indicates areas in which only landmark buildings are shown. There may be private inholdings within the boundaries of the National or State reservations shown on this map.

Revisions shown in purple and woodtint compiled from aerial photographs taken 1977 and other sources. This information not field checked. Map edited 1982.

Purple tint indicates extension of urban areas.

SCALE 1:20,000

CONTOUR INTERVAL 5 METERS
 DOTTED LINES REPRESENT 1-METER CONTOURS
 DATUM IS MEAN SEA LEVEL
 DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
 THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
 SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
 THE MEAN RANGE OF TIDE IS APPROXIMATELY 0.3 METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

ROAD CLASSIFICATION

Primary highway, all weather. Light duty road, all weather, improved surface.

Secondary highway, all weather. Unimproved road, fair or dry weather.

Insular Route

MAP SHOWING ELEVATIONS OF HIGH-WATER MARKS AND SURVEY MARKS USED TO DOCUMENT THE EFFECTS OF STORM TIDES CAUSED BY HURRICANE HUGO, SEPTEMBER 18, 1989: SAN JUAN QUADRANGLE, P.R.

SAN JUAN, P.R.
 11822 5—W6600/7.5
 1969
 PHOTOREVISED 1982
 DMA 1523 II SE—SERIES E835