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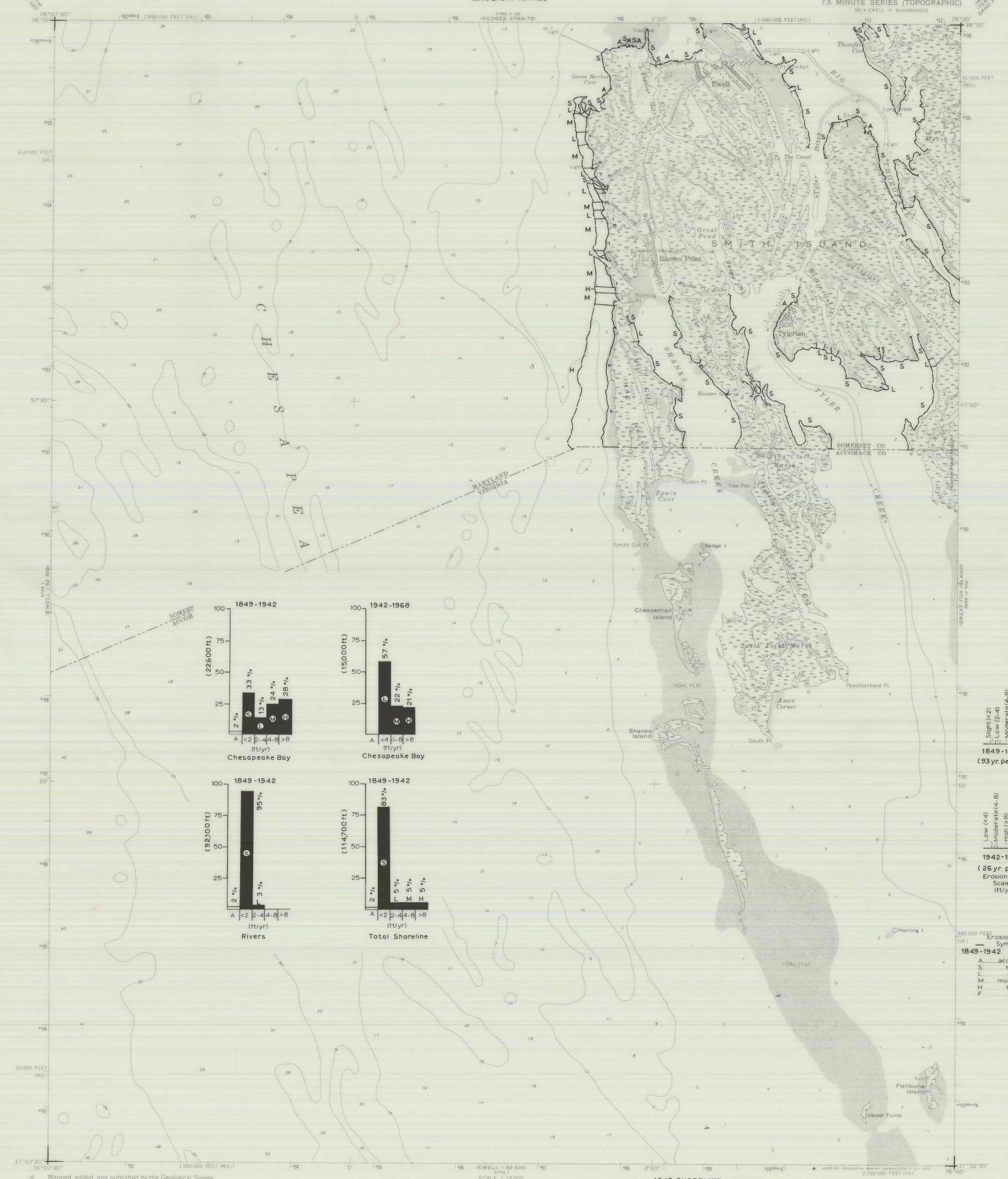
HISTORICAL SHORELINES AND EROSION RATES

CZM MAP 84 B

EWELL QUADRANGLE
MARYLAND–VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 EWELL 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey in cooperation with Commonwealth of Virginia agencies

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

Supersedes Army Map Service map dated 1942

Map prepared by Maryland Geological Survey with funds from National Oceanographic Atmospheric Administration (NOAA) made available through Department of Natural Resources Coastal Zone Management Program

Compiled by Robert D. Conkwright, 1975

Basic data from M.G.S. Bulletin 6

MN GN
7½° 133 MILS
0°39' 12 MILS
UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 1.6 FEET

Erosion Rate Graphs

Histograms indicate prevalent erosion rate categories for different shoreline areas.

1849 SHORELINE – – – – –
1942 SHORELINE —·—·—
BASE MAP SHORELINE 1968

MARYLAND
QUADRANGLE LOCATION

Erosion Rates

Exact erosion rates can be calculated by dividing the distance between shorelines by the difference in their dates. Erosion rate categories can be estimated by using the Erosion Rate Scale in the right-hand margin. Place the left-hand line of the scale against the earliest shoreline and read the name of the erosion rate category.

EWELL, MD.—VA.
NE/4 EWELL 15' QUADRANGLE
N3752.5—W7600/7.5

1968

AMS 5759 I NE–SERIES V834