

PATTERNS OF
EROSION AND DEPOSITION

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STATE OF MARYLAND
DEPARTMENT OF NATURAL RESOURCES
MARYLAND GEOLOGICAL SURVEY
KENNETH N. WEAVER, Director

EXPLANATION

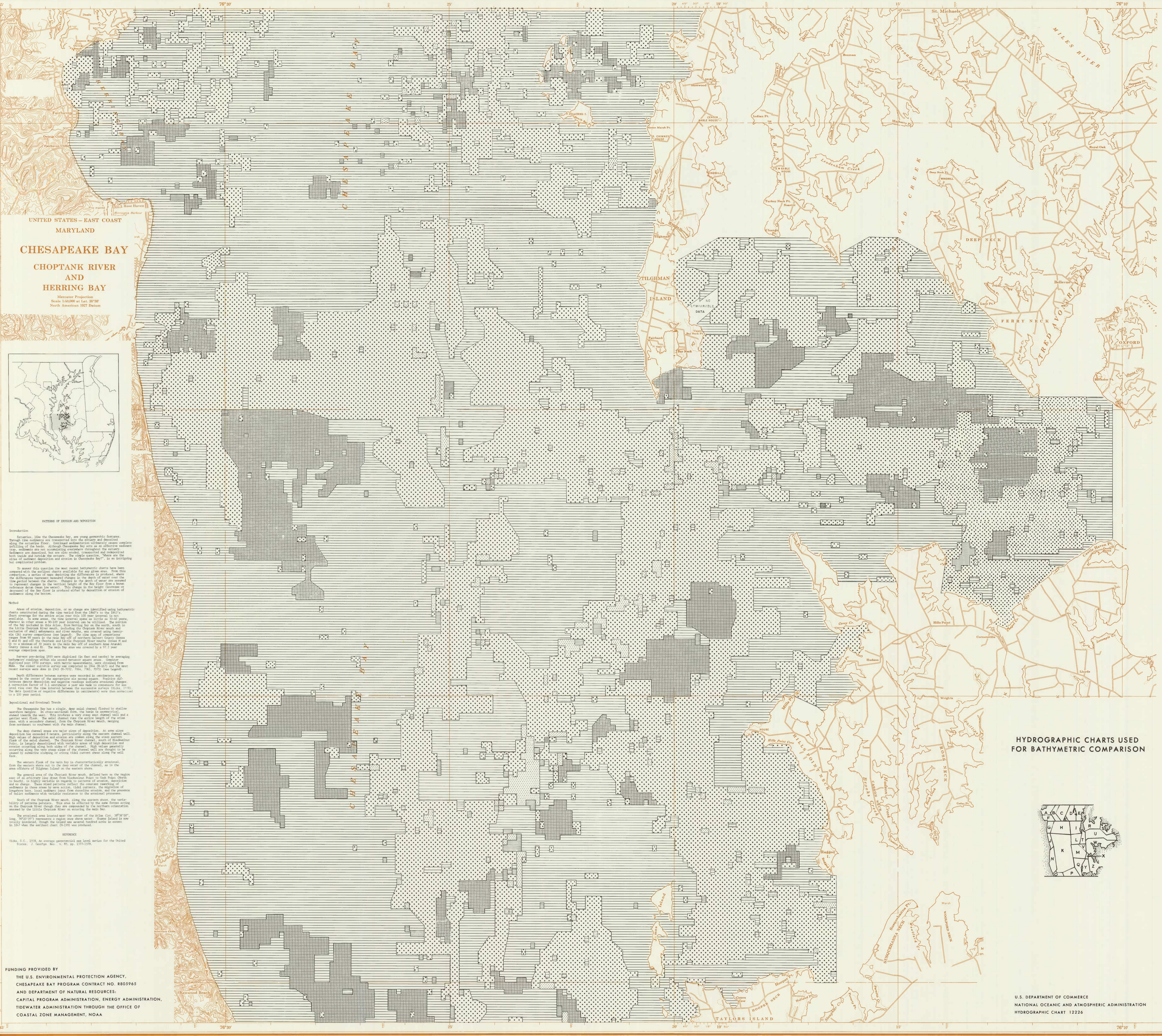
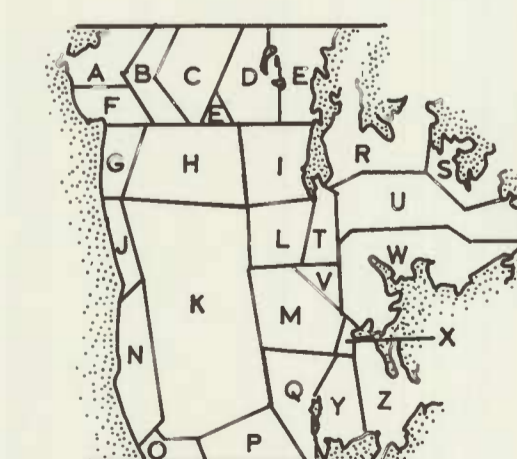
RATES OF EROSION AND DEPOSITION
METER/CENTURY
RATES ADJUSTED FOR SEA LEVEL RISE AND TIME INTERVAL
CORRECTION FACTOR FOR SEA LEVEL RISE 1 millimeter/year

METER/CENTURY

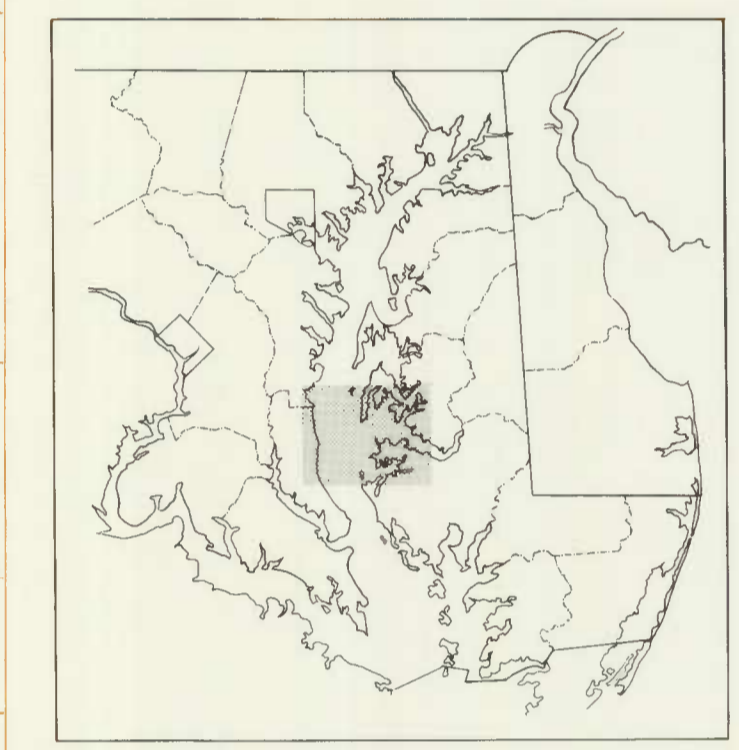
- > +2.2
- +2.2 TO +0.2
- +0.2 TO -0.4
- 0.4 TO -2.4
- > -2.4

HYDROGRAPHIC CHARTS USED
FOR BATHYMETRIC COMPARISON

AREAS	SURVEY CHART NUMBERS	SURVEY DATES
A	2629-5374	1903-1933
B	2629-5501	1903-1933
C	188-5501	1846-1933
D	167-2402	1844-1898
E	188-5327	1846-1933
F	188-5374	1846-1933
G	188-6954	1846-1944
H	188-6952	1846-1944
I	188-6958	1846-1943
J	199-6954	1847-1944
K	199-6952	1847-1944
L	199-6958	1847-1943
M	199-7075	1847-1945
N	199-6955	1847-1944
O	199-7009	1847-1944
P	199-6953	1847-1943
Q	199-7065	1847-1945
R	201-7047	1848-1944
S	201-7001	1848-1944
T	201-6958	1848-1943
U	201-7032	1848-1945
V	201-7075	1848-1945
W	201-7043	1848-1943
X	2681-7075	1903-1945
Y	2681-7065	1903-1945
Z	2681-7064	1903-1945



UNITED STATES - EAST COAST
MARYLAND
CHESAPEAKE BAY
CHOPTANK RIVER
AND
HERRING BAY
Mercator Projection
Scale 1:600,000 at Lat. 38°30'N
North American 1927 Datum



PATTERNS OF EROSION AND DEPOSITION

Introduction
Through the centuries, the Chesapeake Bay has undergone dramatic changes. Through the centuries, the Chesapeake Bay has undergone dramatic changes. Through the centuries, the Chesapeake Bay has undergone dramatic changes.

Methods
Rates of erosion, accretion, or no change were identified using bathymetric charts constructed during the late 19th to the 1930's. Rates of erosion, accretion, or no change were identified using bathymetric charts constructed during the late 19th to the 1930's.

Discussion and Conclusions
The Chesapeake Bay has a single, deep axial channel flanked by shallow secondary channels. The Chesapeake Bay has a single, deep axial channel flanked by shallow secondary channels.

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