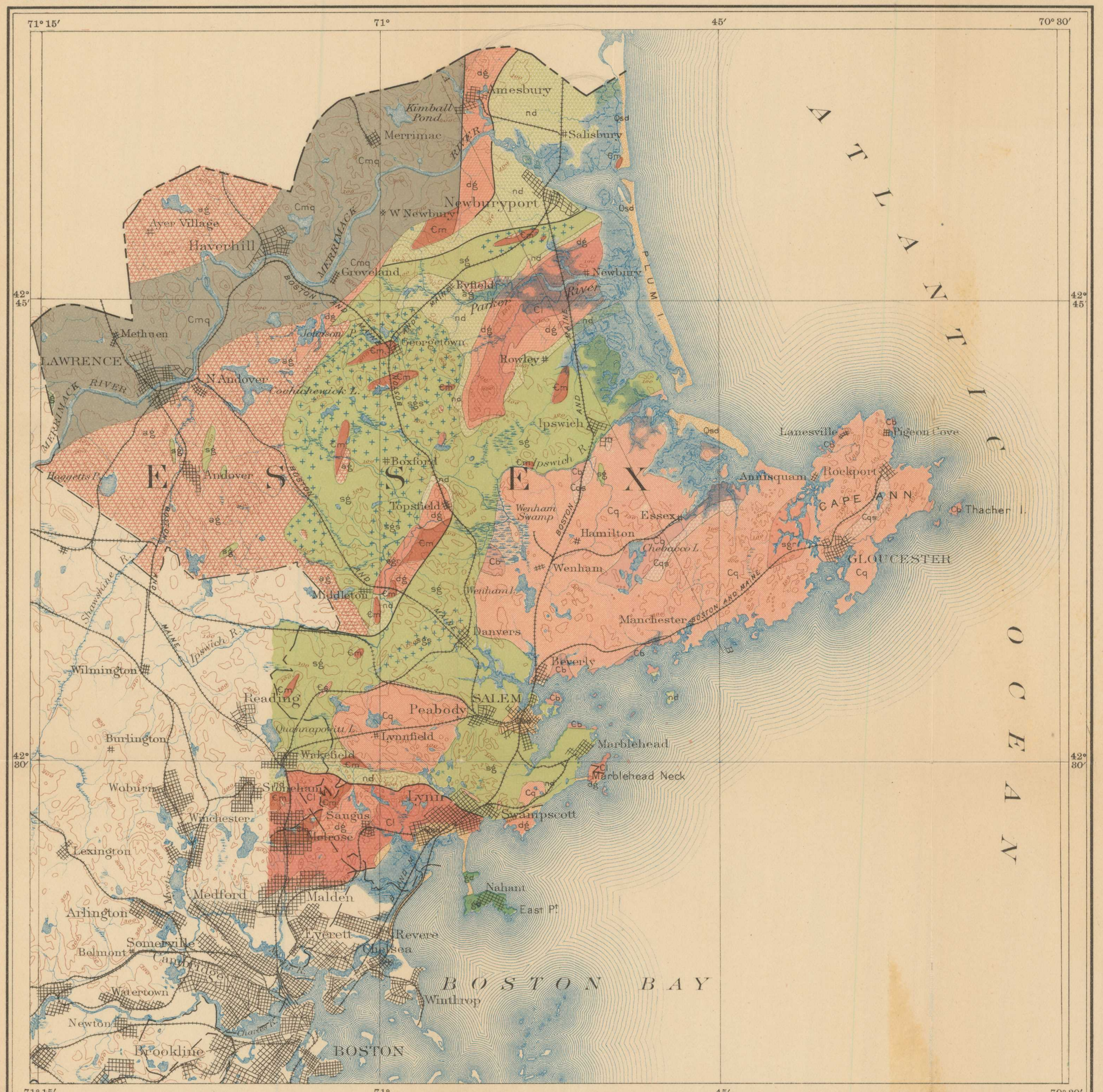


GEOLOGIC RECONNAISSANCE MAP AND STRUCTURE SECTION OF ESSEX COUNTY, MASSACHUSETTS

Base from U. S. Geological Survey topographic map of Massachusetts

Scale 1/250,000

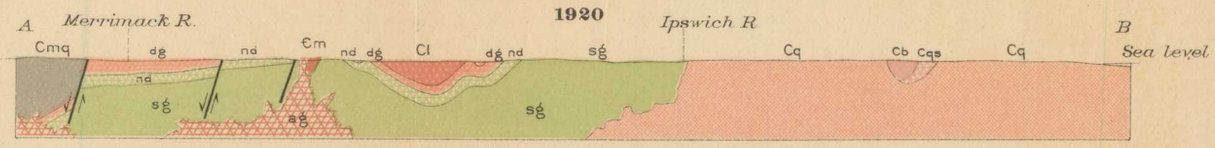
0 5 10 15 Miles

0 5 10 15 Kilometers

Contour interval 100 feet.
Datum is mean sea level.

Geology by C. H. Clapp

1920



STRUCTURE SECTION ALONG LINE A–B

EXPLANATION

SEDIMENTARY AND METAMORPHIC ROCKS

QUATERNARY

Qsd — Surficial deposits of Recent and Pleistocene age

CARBONIFEROUS

Cmq — Merrimack quartzite

CAMBRIAN AND ALGONKIAN (?)

Cs — Serpentine

Cm — Metamorphic rocks

IGNEOUS ROCKS

LATE CARBONIFEROUS OR POST-CARBONIFEROUS

ag — Andover granite
(As mapped it includes some areas of older gneiss)

g — Gabbro associated with Dracut diorite

sgr — Squam granite

Cl — Lynn volcanics
(In southern or typical area probably Carboniferous; in northern area (mapped as Newbury volcanic complex by B. K. Emerson) probably Devonian)

CARBONIFEROUS

Cq — Quincy granite

Cqs — Quartz syenite or nordmarkite

Cb — Beverly syenite (pulaskites and umptekites) and nephelite syenite

DEVONIAN (?)

dg — Dedham granodiorite

nd — Newburyport quartz diorite

sg — Salem gabbro-diorite

sgs — Salem gabbro-diorite with amphibolite schist

gd — Gabbro and diabase

Fault
(Location assumed in places)

Geologic boundary
(Location assumed in places)

ENGRAVED AND PRINTED BY THE U.S. GEOLOGICAL SURVEY