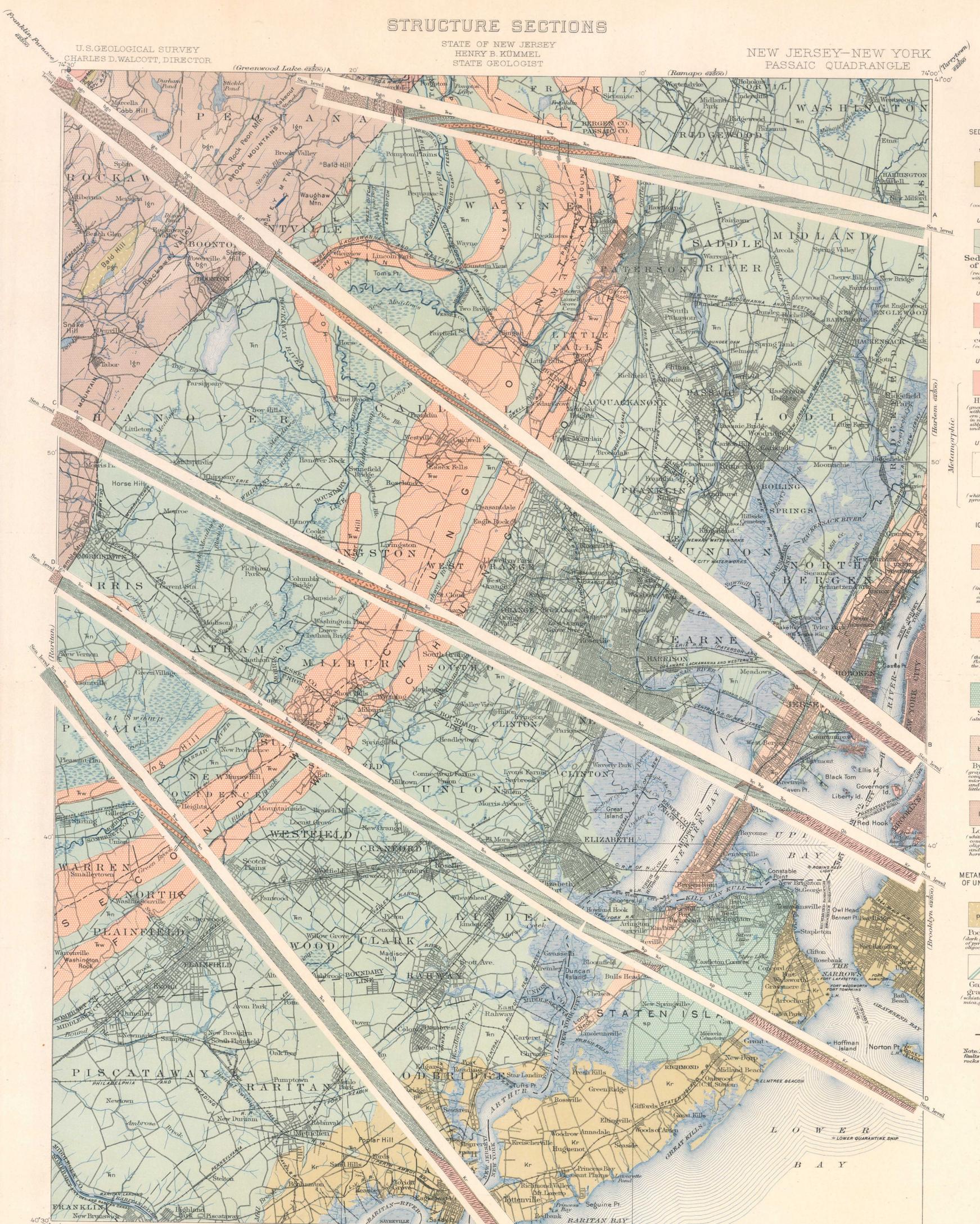


# STRUCTURE SECTIONS

U.S. GEOLOGICAL SURVEY  
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## LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL SYMBOL

Kr Kr

Raritan formation

(coarse sand and some variegated clay)

UNCONFORMITY

Tn Tn

Sedimentary rocks of Newark group

(red sandstone and shale with occasional layers of conglomerate, etc.)

UNCONFORMITY

Sgp Sgp

Green Pond conglomerate

(coarse white quartz conglomerate)

UNCONFORMITY

Oh Oh

Hudson schist

(quartz and mica schist with granite, etc. in eastern portion, black slate in northern portion, possibly other rocks in sections under Hudson River and Bay)

UNCONFORMITY

Fl Fl

Franklin limestone

(white marble containing pyroxene and much iron porphyry)

IGNEOUS ROCKS

Tp Tp

Palisade diabase

(intrusive sheet forming the Palisades of the Hudson, and small dikes of basalt, etc.)

Ww Ww

Watchung basalt

(three successive lava flows interbedded in the Newark)

ep ep

Serpentine

(altered igneous rock)

bgn bgn

Byram gneiss

(grey granitoid gneiss composed of microcline, orthoclase, quartz, and hornblende with a little pyroxene and biotite)

lgn lgn

Loosee gneiss

(white granitoid gneiss composed of quartz, orthoclase, pyroxene, and in places some hornblende and biotite)

Metamorphic rocks of UNKNOWN ORIGIN

pgn pgn

Bohick gneiss

(dark gneiss composed of pyroxene, hornblende, orthoclase, and magnetite)

Garnetiferous graphite schist

(schistose rocks of quartz, mica, garnet, and graphite, weather red)

Faults

Note: Numerous small faults in the Newark rocks are not represented.

Metamorphic

Triassic

Ordovician or later

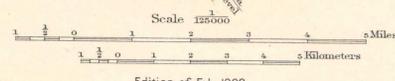
Pre-Cambrian

Pre-Cambrian

Pre-Cambrian

H.M. Wilson, Geographer in charge.  
Triangulation by U.S. Coast and Geodetic Survey.  
Topography by the U.S. Coast and Geodetic Survey.  
The Geological Survey of New Jersey, S.H. Bodfish,  
Frank Sutton, R.D. Cummin, E.B. Clark,  
J.H. Wheat, J.W. Thom, and W.E. Horton.  
Surveyed in 1887, 1889, 1897, 1899, and 1903.

APPROXIMATE MEAN DECLINATION 1882



Edition of Feb. 1908.

Geology of post-Cambrian by N.H. Darton and H.B. Kümmel.  
Geology of pre-Cambrian by W.S. Bayley.  
Surveyed in 1895 and 1906.

SURVEYED IN COOPERATION WITH THE STATE OF NEW JERSEY.

N.Y. AREA SURVEYED IN COOPERATION WITH THE STATE OF NEW YORK