

SEDIMENTARY ROCKS
(Areas of Sedimentary rocks are shown by patterns of parallel lines. Metamorphism is indicated by short dashes combined with the parallel lines.)

CRETACEOUS?
Overstepped clay, probably Eocene formation.

JURATRIAS
Newark formation (red sandstone and shales)

SILURIAN
Hudson schist (micro-schist, consisting of biotite and quartz, with garnet, corundum, fibrolite, and cyanite)

CAMBRIAN
Stockbridge dolomite (coarsely crystalline dolomite, often containing druse and tremolite)

Poughquag quartzite (thin-bedded white to brownish quartzite)

IGNEOUS ROCKS
(Areas of igneous rocks are shown by patterns of triangles and rhombs.)

JURATRIAS
Palisade diabase (intrusive sheet, forming the Palisades and small dikes)

Serpentine (resulting from local alteration of hornblende, biotite, and other minerals in basic dikes and masses)

Basic dikes (hornblende and augite dikes, generally strongly foliated)

Granite dikes and bosses (white to reddish granite and pegmatite)

SILURIAN OR LATER
Close parallel granite injections in Hudson schist

Yonkers gneiss (banded gneiss of quartz, orthoclase, and orthoclase, with biotite and hornblende in small quantities)

Harrison diorite (coarse-grained granite, often much foliated)

ANCIENT CRYSTALLINE ROCKS
(Areas of ancient crystalline rocks of unknown origin are shown by patterns of short dashes.)

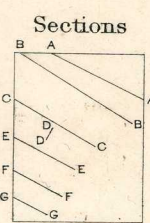
PRE-CAMBRIAN
Fordham gneiss (massive gneiss of orthoclase, quartz, and biotite)

Formation not determined (areas deeply covered by drift and artesianly made sand)

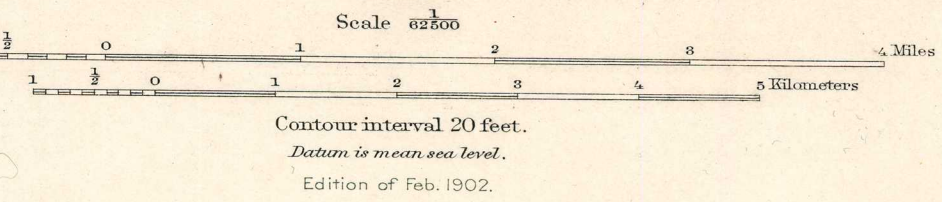
Faults

Hypothetical boundaries (beneath water-surface)

Quarries and clay pits
 TP Trap rock (diabase and basalt) used for roads
 SS Sandstone for building stone
 GR Granite for building stone and road material
 GNS Gneissoid granite for building stone
 DI Diorite for building stone
 MR Marble for building stone
 CL Cretaceous clay used for firebrick and stoneware



H. M. Wilson, Geographer in charge.
 Triangulation by the U. S. Coast and Geodetic Survey, N. Y. City.
 Topography by the U. S. Coast and Geodetic Survey, N. Y. City.
 Government, S. H. Bodfish, Frank Sutton, R. D. Cummin, E. B. Clark, and J. W. Thom.
 Surveyed in 1888-89 and 1897 in cooperation with the State of New York.
 Campbell W. Adams, State Engineer and Surveyor.



Geology of New York by Frederick J. H. Merrill.
 Assisted by E. M. Blake, H. Ries, and E. C. Eckel.
 Surveyed 1883-1900.
 Geology of New Jersey by N. H. Darton.
 Surveyed 1885-1899.