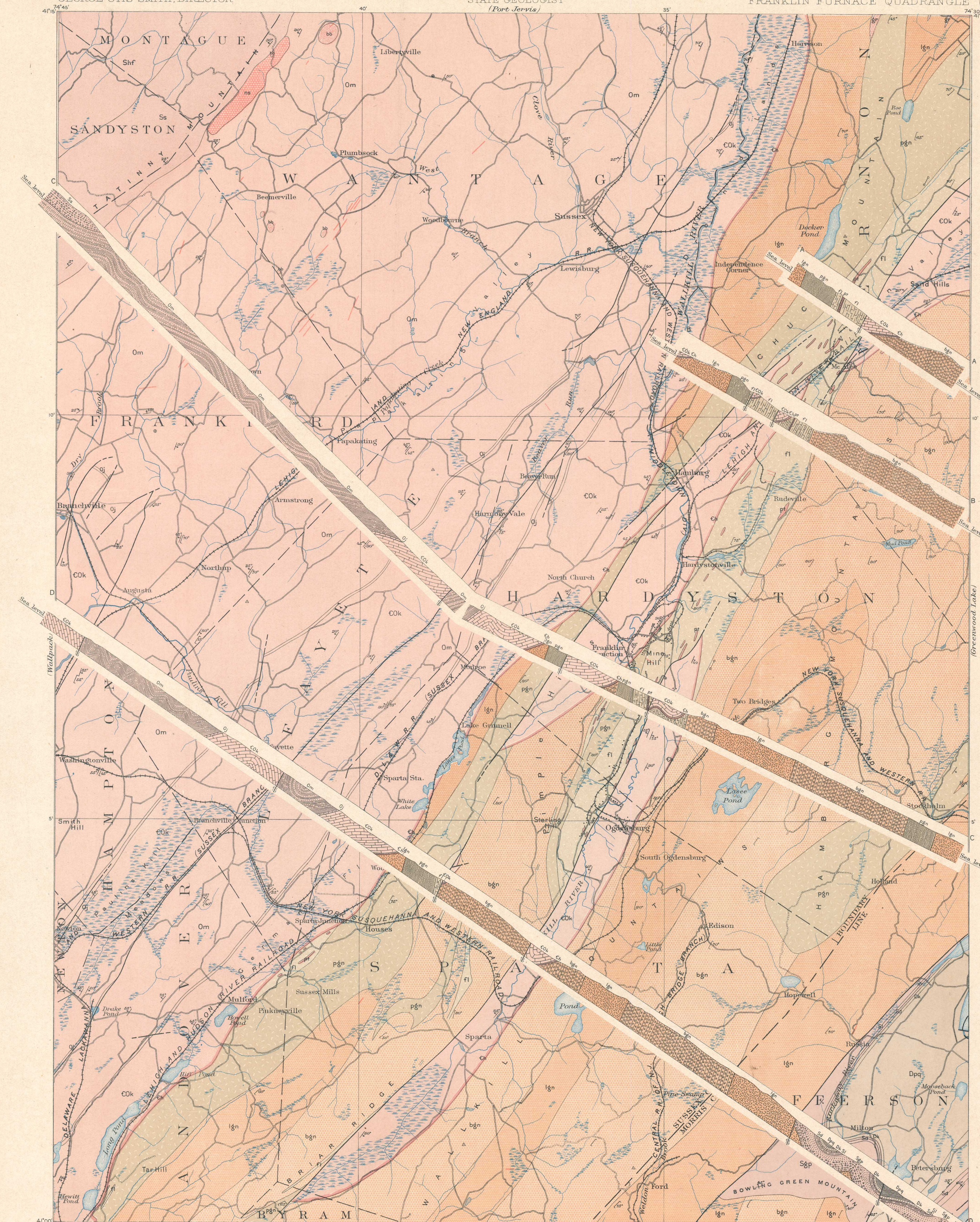


# STRUCTURE SECTIONS

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NEW JERSEY  
FRANKLIN FURNACE QUADRANGLE



## LEGEND

### SEDIMENTARY ROCKS

- | SHEET SYMBOL | SECTION SYMBOL | DESCRIPTION   | PERIOD       |
|--------------|----------------|---|--------------|
| Dpq          | Dpq            | Pequannoc shale (black shale or slate)  | DEVONIAN     |
| Dk           | Dk             | Kamouise sandstone (light-colored sandstone or quartzite)   |              |
| Sd           | Sd             | Decker limestone (dark gray limestone)  |              |
| Shf          | Shf            | High Falls formation (red sandstone and shale)  | SILURIAN     |
| Ss           | Ss             | Shawangunk conglomerate (white quartzitic conglomerate)   |              |
| Sgp          | Sgp            | Green Pond conglomerate (conglomerate and quartzite)  | ORDOVICIAN   |
| Om           | Om             | Martinsburg shale (black shale, slate, and sandstone)   |              |
| Oj           | Oj             | Jacksonburg limestone (brown limestone, dark blue or black massive and shaly limestone, cement rock with limestone conglomerate at base)                  |              |
| Ch           | Ch             | Kitatim limestone (blue limestone, often magnesian, with occasional cherty layers)  | CAMBRIAN     |
| Fl           | Fl             | Hardyston quartzite (siliceous, ferruginous, calcareous and magnesian, part foliaceous)   |              |
| Fl           | Fl             | Franklin limestone (coarsely crystalline, roughly bedded, white limestone marbles containing quartz, chert, druse, pyroces, and other accessory minerals) | PRE-CAMBRIAN |

### UNCONFORMITY

- | SHEET SYMBOL | SECTION SYMBOL | DESCRIPTION  | PERIOD       |
|--------------|----------------|--------------|--------------|
| Un           | Un             | Unconformity | ORDOVICIAN   |
| Un           | Un             | Unconformity |              |
| Un           | Un             | Unconformity | CAMBRIAN     |
| Un           | Un             | Unconformity |              |
| Un           | Un             | Unconformity | PRE-CAMBRIAN |
| Un           | Un             | Unconformity |              |

### IGNEOUS ROCKS

- | SHEET SYMBOL | SECTION SYMBOL | DESCRIPTION  | PERIOD          |
|--------------|----------------|--|-----------------|
| Dk           | Dk             | Dikes (mostly basic, including nephelitic trachyte, basalt, andesite, and diorite)   | POST-ORDOVICIAN |
| bb           | bb             | Basic breccia (trachyte, including numerous fragments of glass, basalt, and andesite, filling old volcanic necks)                      |                 |
| ns           | ns             | Nephelitic syenite (coarse to fine-grained rock)   | PRE-CAMBRIAN    |
| Pg           | Pg             | Pegmatite (coarse, obscurely foliated granite, quartz, mica, and other accessories)  |                 |
| Gr           | Gr             | Granite (coarse-grained, usually pinkish, hornblende granite rich in zircon, titanite, and allanite)                                   |                 |
| Bgn          | Bgn            | Byram gneiss (gray granitoid gneiss, composed of microcline, orthoclase, quartz, hornblende, pyroxene, and sometimes mica)             | PRE-CAMBRIAN    |
| Lgn          | Lgn            | Loosee gneiss (white granitoid gneiss, composed of oligoclase, quartz, and occasionally orthoclase, pyroxene, hornblende, and biotite) |                 |

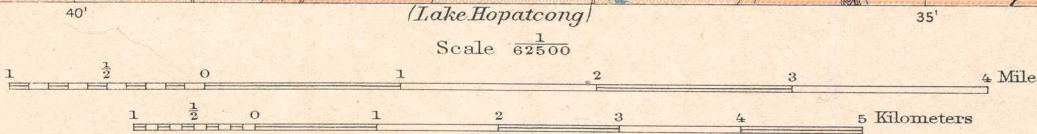
### METAMORPHIC ROCKS OF UNKNOWN ORIGIN

- | SHEET SYMBOL | SECTION SYMBOL | DESCRIPTION   | PERIOD       |
|--------------|----------------|---|--------------|
| Pgn          | Pgn            | Pochuck gneiss (dark granitoid gneiss, composed of hornblende, pyroxene, oligoclase, and magnetite) | PRE-CAMBRIAN |

### FAULTS

- | SHEET SYMBOL | SECTION SYMBOL | DESCRIPTION                              |
|--------------|----------------|--|
| F            | F              | Strike and dip of sedimentary rocks      |
| V            | V              | Strike of vertical beds                  |
| H            | H              | Horizontal stratified rocks              |
| S            | S              | Strike and dip of foliation or cleavage  |
| P            | P              | Strike of vertical foliation or cleavage |

Triangulation by the U.S. Coast and Geodetic Survey.  
Topography by the Geological Survey of New Jersey.  
Surveyed in 1884.



Geology by Henry B. Kümmel,  
Arthur C. Spencer, and Stuart Weller.  
Surveyed in 1892-1901 and 1905.

Edition of May 1908.

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