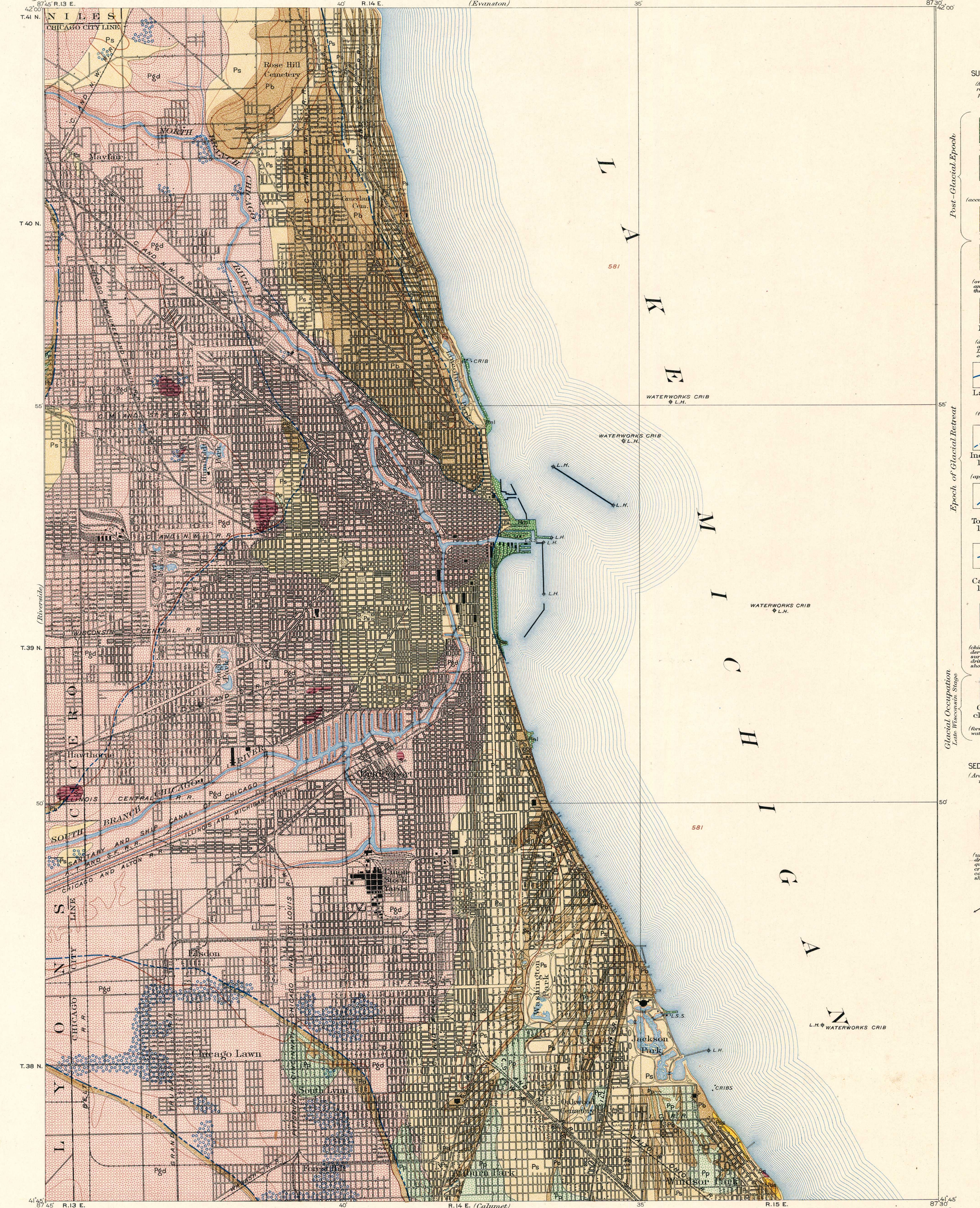
U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT
DIRECTOR

AREAL GEOLOGY SHEET

ILLINOIS
(COOK COUNTY)
CHICAGO QUADRANGLE



LEGEND

SURFICIAL ROCKS

(Areas of Surficial rocks are shown by patterns of dots and circles.)

Post-Glacial Epoch

- Pml — Made land
- Pp — Peat and muck *(accumulated in marshes)*
- Pds — Dune sand
- Ps — Sandy soil *(overlying glacial drift and including sand of the present beach)*
- Pb — Beach sand and gravel *(deposited in ridges at various stages of Lake Chicago; includes also bars and spits)*

Epoch of Glacial Retreat — PLEISTOCENE

- Lake Michigan shore line of 1821 *(from U.S. Engineers' field notes)*
- Indefinite shore line of Lake Chicago *(approximate location)*
- Third, or Tolleston, shore line of Lake Chicago
- Second, or Calumet, shore line of Lake Chicago

Glacial Occupation *Late Wisconsin Stage*

- Bowlder deposit *(chiefly crystalline bowlders scattered over the surface of the glacial drift and occasionally showing in marshes and sandy soil)*
- Pgd — Glacial drift, chiefly ground moraine *(formerly covered by the waters of Lake Chicago)*

SEDIMENTARY ROCKS

(Areas of Sedimentary rocks are shown by patterns of parallel lines.)

- Sn — Niagara limestone *(underlies the glacial drift throughout the quadrangle, only outcrops and very thinly covered areas are shown on the map)* — SILURIAN

Glacial striae

Henry Gannett, Chief Topographer.
Jno. H. Renshawe, Geographer in charge.
Triangulation and shore line by the U.S. Lake Survey.
Topography by D.C. Harrison, R.C. Mc Kinney, Nat. Tyler Jr, and Chicago Sanitary Commission.
Surveyed in 1889, 1897, and 1899.

Scale $\frac{1}{62500}$

1 ½ 0 1 2 3 4 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Contour interval 5 feet.
Datum is mean sea level.
Edition of April 1902.

T. C. Chamberlin, Geologist in charge.
Geology by William C. Alden.
Surveyed in 1896.