

U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

STRUCTURE-SECTION SHEET

NORTH CAROLINA - TENNESSEE
CRANBERRY QUADRANGLE

LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL SECTION SYMBOL

Cw Cw

Watauga shale
(purple reddish, and yellow shales with sandstone and limestone beds)

Csh Csh

Shady limestone
(grayish limestone with chert)

Ce Ce

Erwin quartzite
(white quartzite and sandstone)

Chf Chf

Hampton shale
(black and gray shale with thin sandstones)

Cu Cu

Unicoi formation
(white sandstone and quartzite with shale and conglomerate and a bed of amygdaloidal basalt)

IGNEOUS ROCKS

SHEET SYMBOL SECTION SYMBOL

Jb Jb

Bakersville gabbro
(massive gabbro and diabase)

Cab Cab

Amygdaloidal basalt
(lava bed interstratified in the Unicoi formation)

Amr Amr

Metarhyolite
(grayish metarhyolite and rhyolite porphyry)

Af Af

Flat-top schist
(gray and black schist, probably altered andesitic rocks)

Am Am

Montezuma schist
(blue and green epidote schist, probably altered, basalt, and amygdaloidal basalt)

Al Al

Linville metadiabase
(altered greenish diabase and gabbro)

ANCIENT CRYSTALLINE ROCKS

SHEET SYMBOL SECTION SYMBOL

Rb Rb

Beech granite
(coarse orthopyroxene granite, light reddish in color)

Rbr Rbr

Blowing Rock gneiss
(chiefly dark, coarse porphyritic gneiss)

Rcb Rcb

Cranberry granite
(massive granite and gneiss)

Rs Rs

Soapstone
(with peridotite and porphyritic more or less altered)

Rr Rr

Roan gneiss
(chiefly K-feldspar gneiss and diorite)

Rc Rc

Carolina gneiss
(chiefly mica-gneiss and mica-schist, includes other gneisses, granites, and diorite)

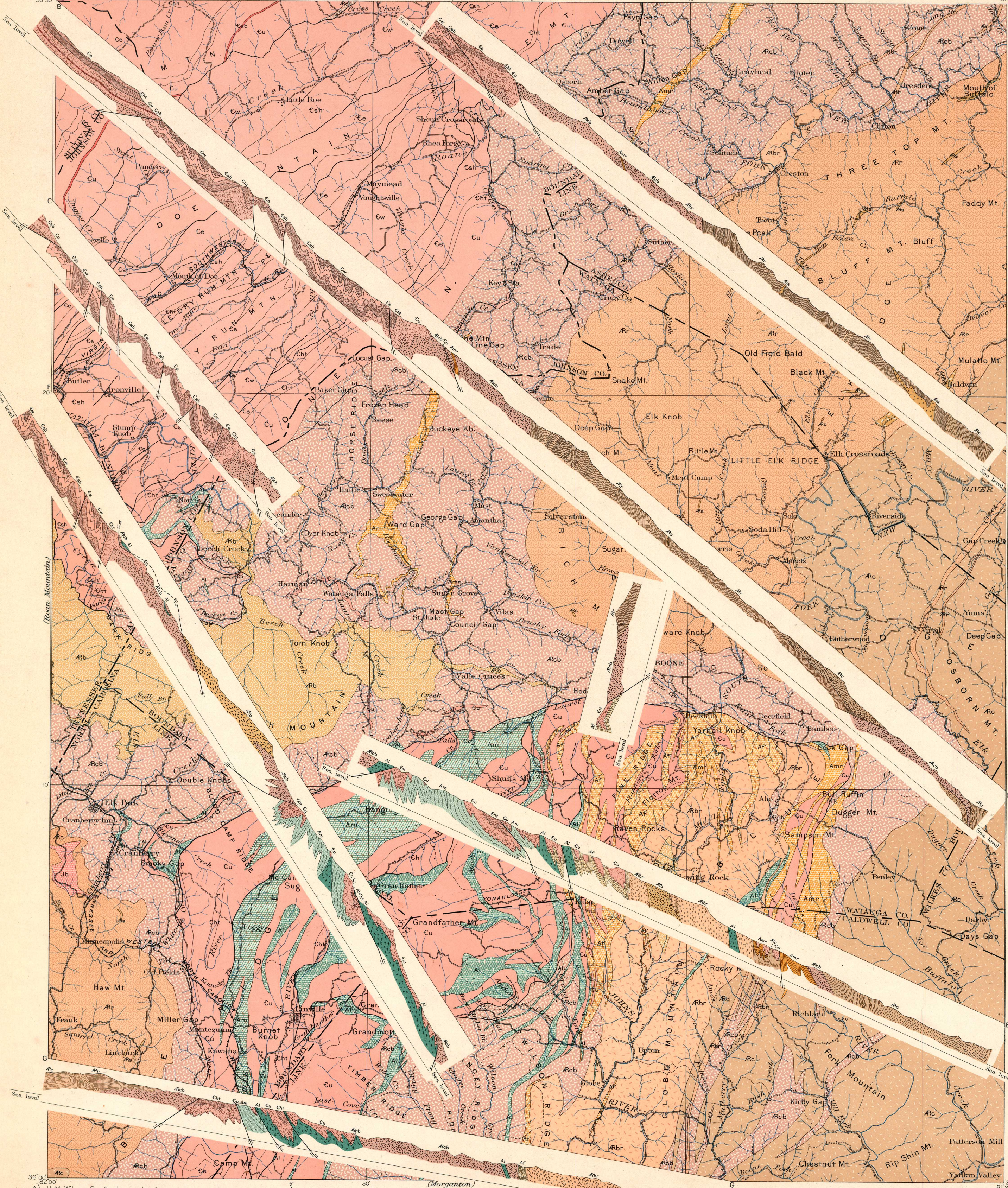
Faults

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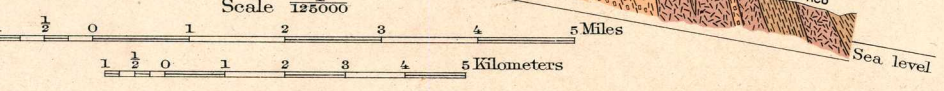
Geology by Arthur Keith.

Assisted by H.B. Goodrich.

Surveyed in 1894, 96, 97, and 1900.



H.M. Wilson, Geographer in charge.
Triangulation by W.C. Kerr and S.S. Gannett.
Topography by Hersey Munroe, W.L. Miller, and Albert Pike.
Surveyed in 1892 and 1897.



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