

LEGEND

(continued)

IGNEOUS ROCKS

SHEET SYMBOL SECTION SYMBOL

Jb Jb

Blackrock diabase (intrusive)

Jh Jh

Holyoke diabase (main sheet of Percival, interbedded)

Jt Jt

Talcott diabase (anterior sheet of Percival, interbedded)

Jhp Jhp

Hampden diabase (posterior sheet of Percival, interbedded)

Cw Cw

Williamsburg granite (coarse muscovite-biotite granite, with pegmatite and albite granite veins)

Cbr Cbr

Belchertown tonalite (granitoid quartz-plagioclase hornblende rock)

mg mg

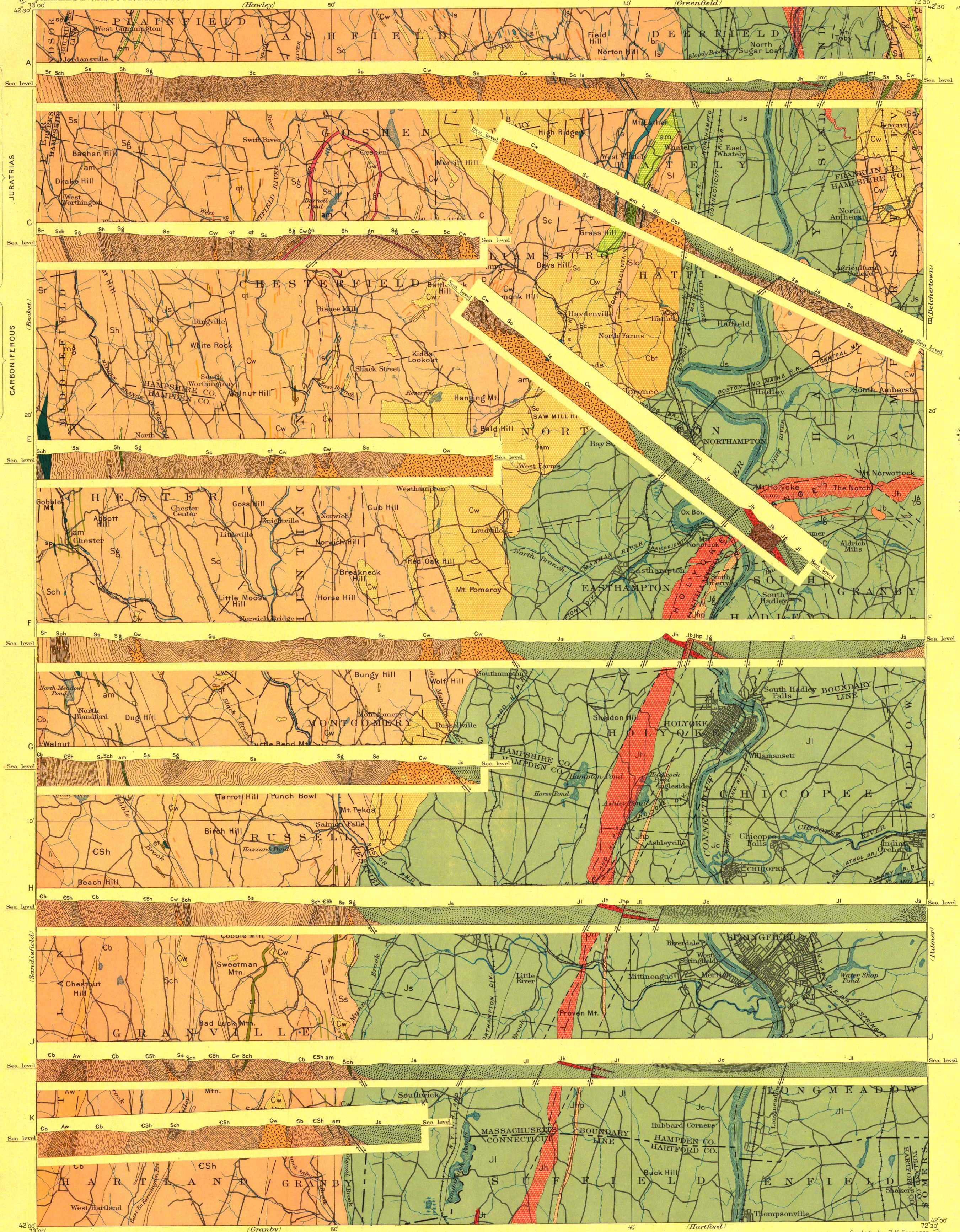
Middlefield granite (porphyritic biotite granite)

Probable faults

STRUCTURE-SECTION SHEET

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

MASS.-CONN.
HOLYOKE QUADRANGLE



Henry Gannett, Chief Topographer.
Marcus Baker, Geographer in charge.
Triangulation by U.S. Coast and Geodetic Survey.
Topography by C. Arriok, C.C. Bassett, L.F. Cutter,
A. Karl, and H.L. Smyth.
Surveyed in 1884-87.

Scale 125,000
1 2 3 4 5 Miles
1 2 3 4 5 Kilometers
Edition of July 1898.

Geology by B.K. Emerson.
Surveyed 1875-1896.

LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL SECTION SYMBOL

Jc Jc

Chicopee shale (black and red sandy shale)

Jl Jl

Longmeadow sandstone (reddish, brown sandstone with shore and shallow water markings)

Jg Jg

Granby tuff (coarse agglomerate of fragments of diabase, grading into tuffaceous sandstone)

Js Js

Sugarloaf arkose (coarse feldspathic sandstone composed of the angular debris of granite)

Jmt Jmt

Mt. Toby conglomerate (very coarse conglomerate composed largely of shale fragments)

Sl Sl

Leyden argillite (dark coarse shale or fine-grained mica schist)

Slc Slc

Leyden argillite (chertlike contact zone)

Sc Sc

Conway schist (dark graphitic mica schist with biotite, garnet, staurolite, and cordierite and many beds of dark impure limestone and sandy quartzite)

Sa Sa

Amherst schist (coarse feldspathic and feldspathic schist, probably the equivalent of Conway schist)

Sg Sg

Goshen schist (dark graphitic flaggy mica schist with biotite and garnet)

Sh Sh

Hawley schist (sericite and chlorite schist with many beds of hornblende schist)

Ss Ss

Savoy schist (sericite schist with garnet and chlorite locally developed)

Sch Sch

Chester amphibolite (dark flaggy hornblende schist in places changed to serpentine and omphacite)

Sr Sr

Rowe schist (quartzite sericite schist)

CSh CSh

Hoosac schist (albite sericite schist)

Cb Cb

Becket gneiss (light gray biotite gneiss, at times a conglomerate contains intrusive masses of gneiss altered to serpentine and asbestos)

Aw Aw

Washington gneiss (dark compact gneiss slightly foliolite)

ROCK MASSES (in various formations)

SHEET SYMBOL SECTION SYMBOL

ls ls

Limestone (in Conway and Goshen schists)

qt qt

Quartzite (in Conway and Goshen schists)

gn gn

Gneiss (fine-grained biotite gneiss in Goshen schist, possibly bedded granite)

am am

Amphibolite (in Conway, Hawley, Savoy, and Hoosac schists)

et et

Enstatite rock, pyroxene rock, and dolomite (in Chester amphibolite)

Legend is continued on the left margin.