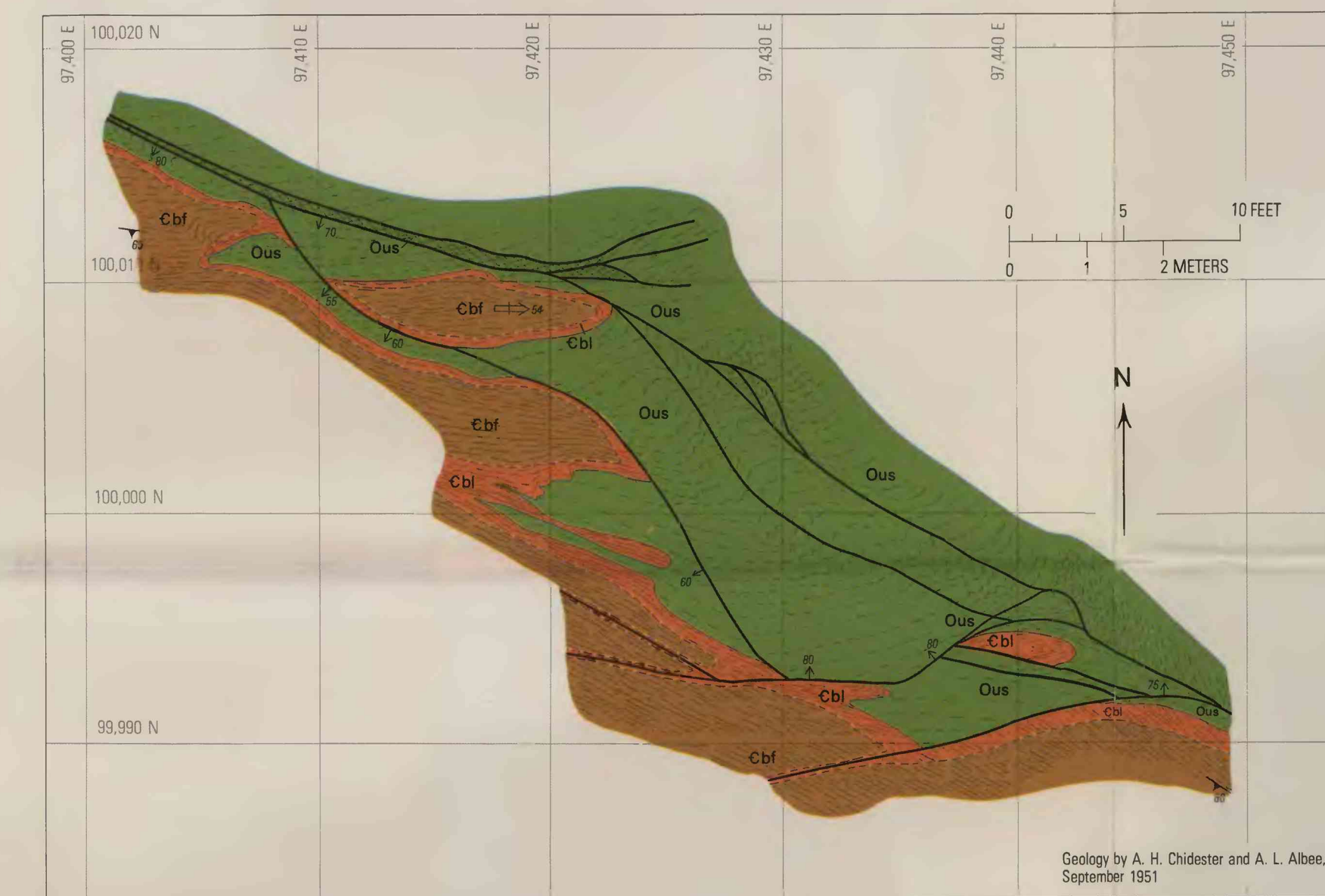


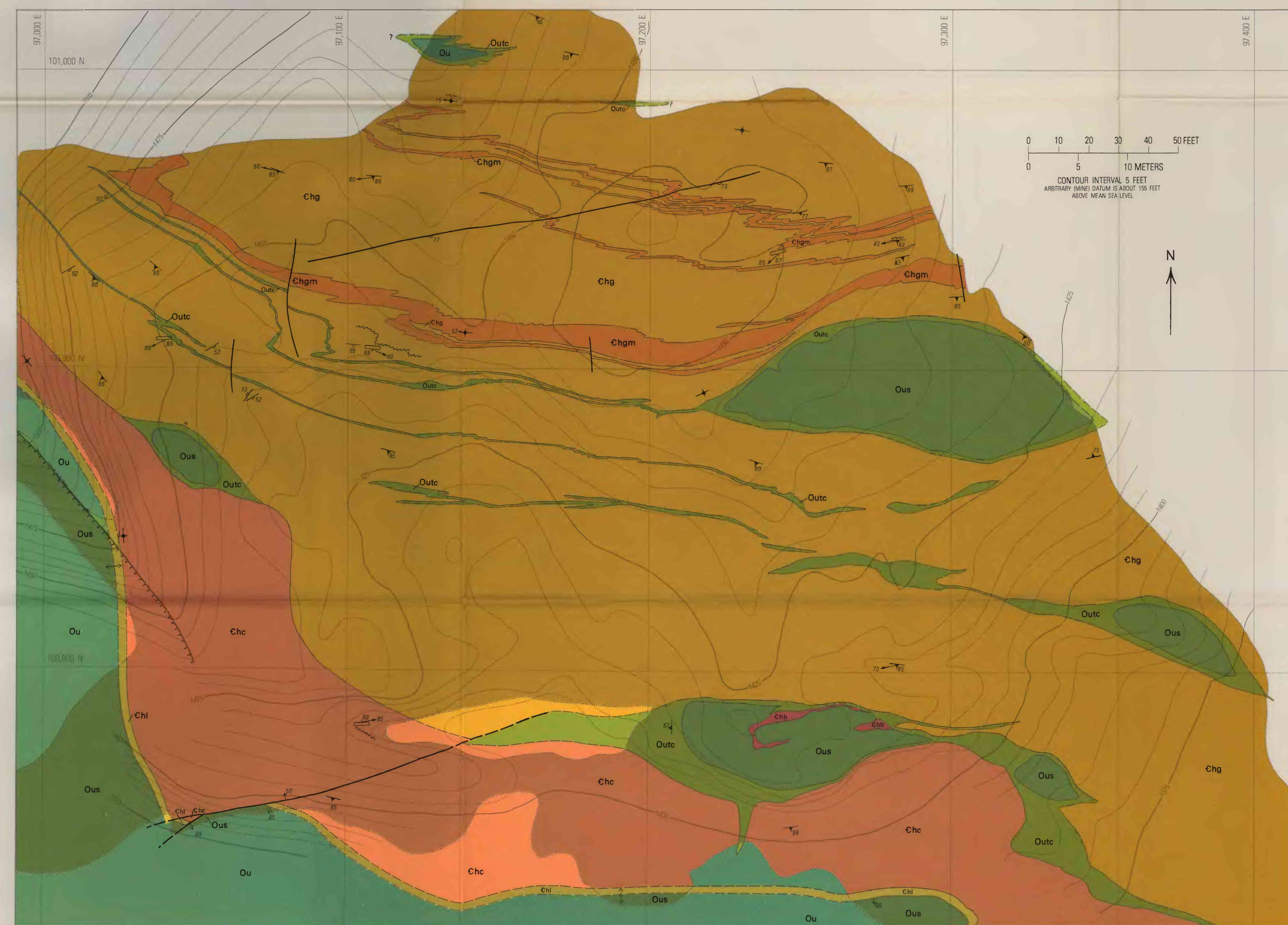
A. SOUTHEAST PART OF THE SOUTHWEST CONTACT



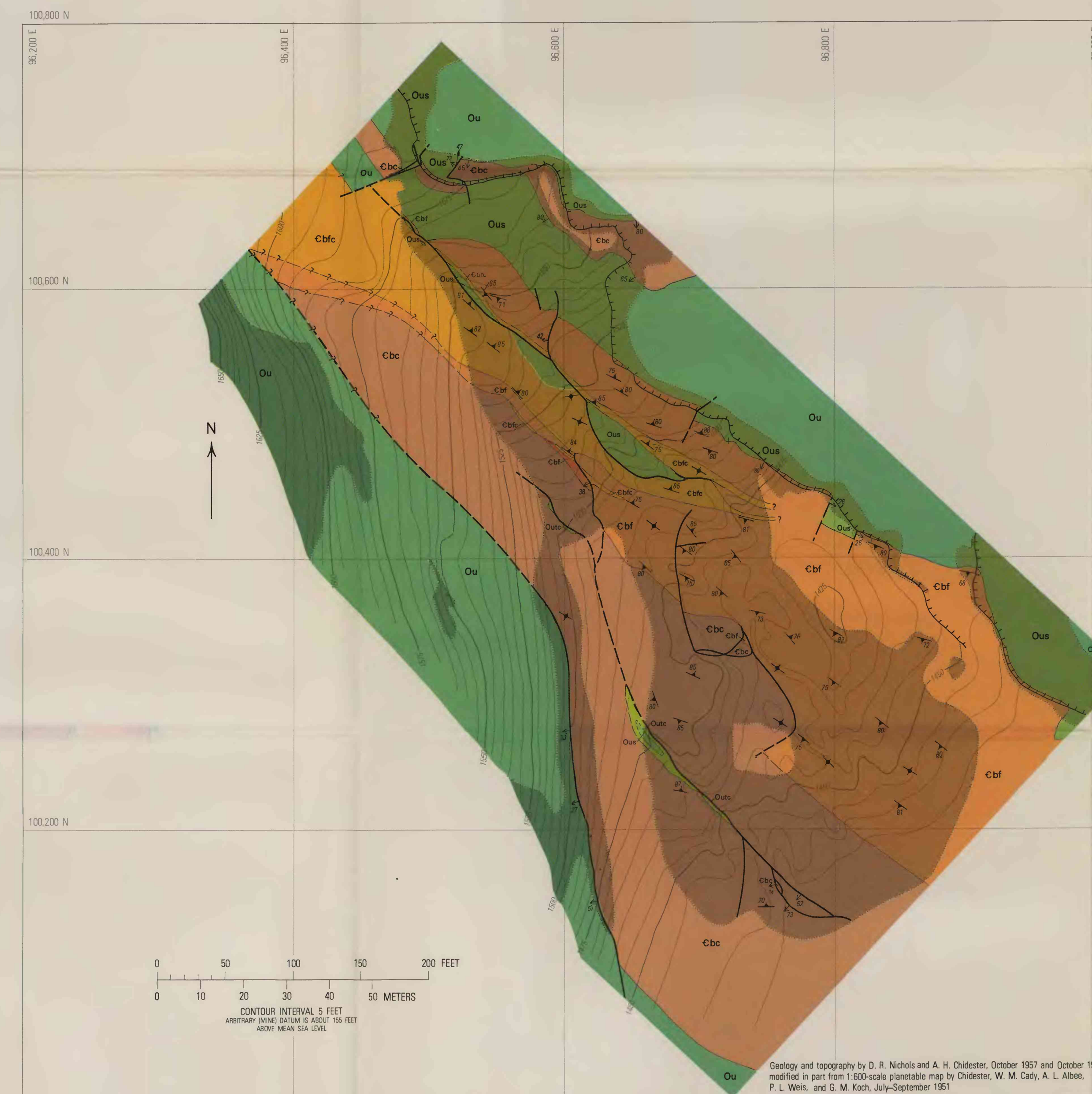
B. SOUTH-CENTRAL PART OF THE LOWELL QUARRY



C. CENTRAL PART OF THE SOUTHWEST CONTACT



D. CENTRAL PART OF THE NORTHEAST CONTACT



E. SOUTHWEST SIDE OF THE NORTHWEST PART OF THE LOWELL QUARRY

CORRELATION OF MAP UNITS

Ou	Oud	Ouds	Ous	Ousc	ORDOVICIAN
Cbl	Cbf	Cbc	Cbc	Cbc	
Chl	Chb	Chc	Chg	Chgm	Cambrian(?)

- DESCRIPTION OF MAP UNITS**
- Ou** ULTRAMAFIC IGNEOUS ROCKS AND DERIVATIVES (ORDOVICIAN):
ULTRAMAFIC ROCKS, UNDIFFERENTIATED—Chiefly, dunite (Oud) composed essentially of olivine but generally considerably serpentinized; massive serpentine (Ouds), which intergrades with dunite, composed chiefly of bladed serpentine (antigorite and/or lizardite) and small variable proportions of chrysotile; and schistose serpentine (Ous).
 - Oud** DUNITE—Composed essentially of olivine, but all of unit has been partially serpentinized; grades into massive serpentine (Ouds).
 - Ouds** MASSIVE SERPENTINE—Composed chiefly of bladed serpentine (antigorite and/or lizardite); chrysotile sparse to moderately abundant in matrix, locally prominent as cross-fiber veins. Relict grains of olivine persist but range widely in abundance. The rock retains the textural appearance of dunite.
 - Ous** SCHISTOSE SERPENTINE—Matrix composed chiefly or entirely of bladed serpentine (antigorite and/or lizardite); chrysotile confined almost entirely to shear surfaces. Little or no relict olivine. In plate 4 C lines give generalized pattern of schistosity, including zones of intersecting schistosity bounded by shear surfaces.
 - Ousc** TALC-CARBONATE ROCK AND STEATITE—Talc-carbonate rock is composed typically of about 40 percent magnesite and 60 percent talc, and it is intergradational with steatite, composed essentially of talc. Steatite commonly has a thin selvage of tremolite, where appreciably less than 0.3 m thick, a massive body commonly consists chiefly or entirely of tremolite and minor chlorite.
 - Cbl** BELVIDERE MOUNTAIN FORMATION (LOWER CAMBRIAN)
RODNGITE (LIME-SILICATE)—Alternation zone of diopside-veuxantinite-epidote-garnet rock adjacent to the ultramafic pluton. In plate 4 C lines give generalized pattern of bedding.
 - Cbf** FINE AMPHIBOLITE—Greenish-gray to medium-bluish-gray, distinctly bedded. Individual crystals of hornblende rarely discernible to the naked eye. In plate 4 B and C lines show generalized pattern of bedding.
 - Cbc** GRAPHIC FINE AMPHIBOLITE
COARSE AMPHIBOLITE—Dark-greenish-gray or greenish-black, distinctly bedded. Crystals of hornblende are commonly 5–10 mm long and range to as much as 25 mm.
 - Chl** HAZENS NOTCH FORMATION (CAMBRIAN ?)
RODNGITE (LIME-SILICATE)—Alternation zone of diopside-veuxantinite-epidote-garnet rock.
 - Chb** BLACKWALL CHLORITE ROCK
 - Chc** GRAPHIC QUARTZ-MUSCOVITE-CHLORITE-ALBITE SCHIST
 - Chg** GREENISH-GRAY QUARTZ-ALBITE-MUSCOVITE-CHLORITE GNEISS
 - Chgm** MAFIC INTERBEDS RICH IN CHLORITE AND EPIDOTE

- Contact—Solid where exposed, dashed where inferred. Arrow shows direction and amount of dip (vertical, inclined).
- Indefinite or gradational contact
- Limit of exposure—Within quarry, also serves as boundary between undifferentiated ultramafic rocks (Ou) (ultramafic rocks masked by quarry rubble) and the several varieties of ultramafic rock.
- Fault or shear zone—Solid where exposed, dashed where readily inferred. Barbed arrow shows direction and amount of dip (vertical, inclined); diamond-headed arrow shows bearing and plunge of slickensides.
- Anticline—Showing trace of axial plane and plunge of axis.
- Syncline—Showing trace of axial plane and plunge of axis.
- Strike and dip of axial plane of minor fold.
- Strike of vertical axial plane of minor fold and plunge of axis.
- Strike and dip of schistosity parallel to bedding.
- Inclined
- Vertical
- Strike and dip of schistosity divergent from bedding, in nonbedded rock, or where relations are indeterminate.
- Strike and dip of slip cleavage.
- LINEAR FEATURES
- Generally combined with one of the above planar symbols for features in bedded rocks.
- Bearing and plunge of minor fold axis or lineations.
- Pattern, in plan, of folded or crinoid bedding.
- Strike and dip of joints.
- Inclined
- Vertical
- Trace of joint—Showing dip.
- Trace of mappable horizon in amphibolite—Arrow shows direction and amount of dip.
- Trace of layering in ultramafic rock—Double ticks show direction and amount of dip.
- Top of quarry wall.