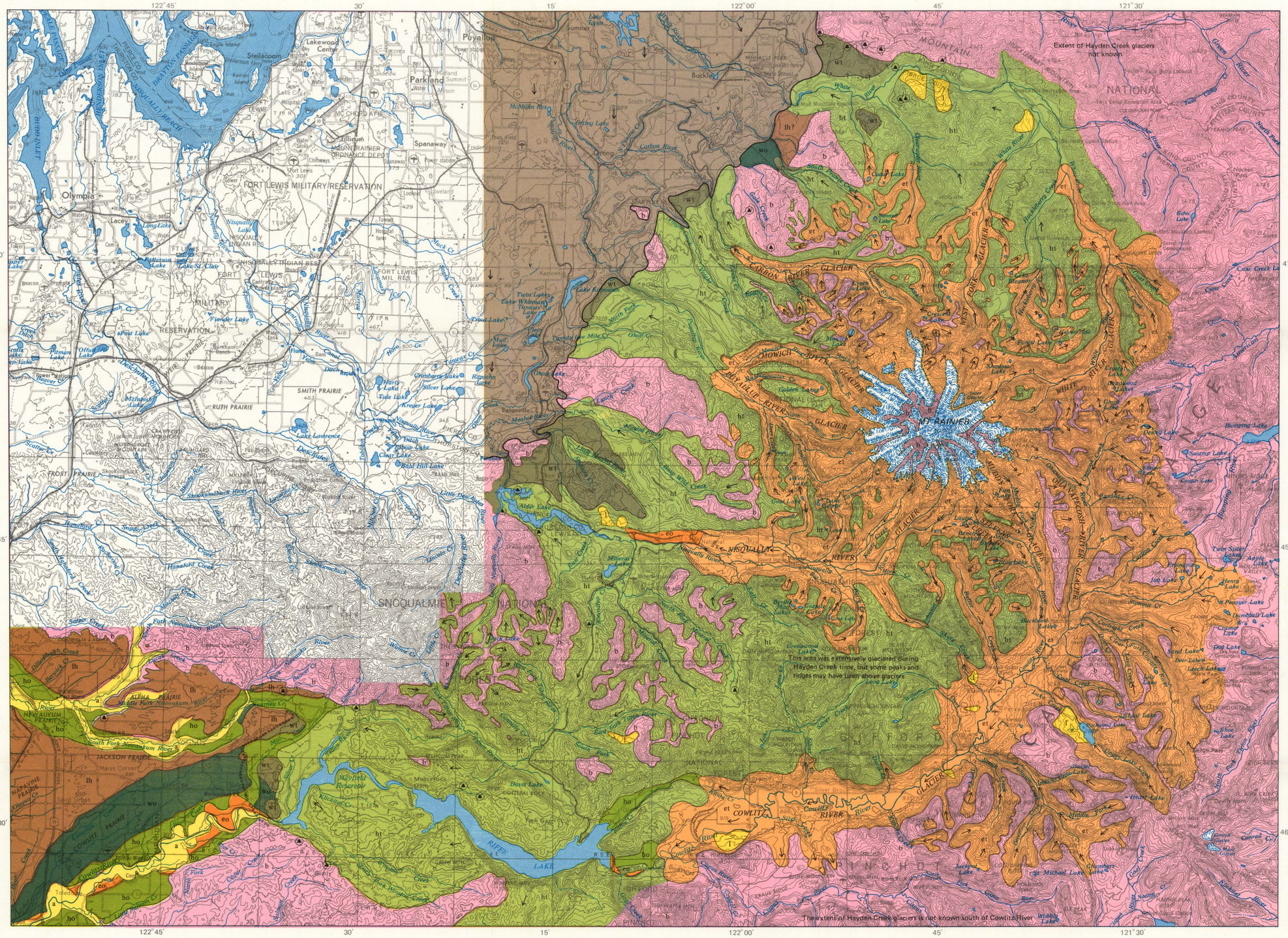

Base from U.S. Geological Survey:
Seattle, 1958–65, Wenatchee, 1957–63,
Hoquiam, 1958–68, and Yakima, 1958–63

SCALE 1:250 000

5 0 5 10 MILES

5 0 5 10 KILOMETERS

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100-FOOT INTERVALS
DATUM IS MEAN SEA LEVEL
1974 MAGNETIC DECLINATION VARIES FROM 21° EASTERLY ON THE SOUTHEAST CORNER TO 21°30′ EASTERLY ON THE NORTHWEST CORNER

Geology mapped in 1960–67

CORRELATION OF MAP UNITS

a, l		Holocene	QUATERNARY
v, et, eo, ht, ho	Fraser Glaciation; Salmon Springs Glaciation	Upper Pleistocene	Pleistocene
wt, wo	Salmon Springs(?) Glaciation	Upper(?) Pleistocene	Pleistocene
lh		Middle to lower Pleistocene	Pleistocene
b			

DESCRIPTION OF MAP UNITS

Moraines are shown by hachures within the units in which they occur

a — ALLUVIUM (HOLOCENE) – Shown only in Cowlitz and Newaukum River valleys west of Cascade mountain front

l — LANDSLIDE DEPOSITS (HOLOCENE)

McNEELEY DRIFT (UPPER PLEISTOCENE – FRASER GLACIATION) – Moraines composed of till; other areas underlain by McNeeley Drift are not differentiated from Evans Creek Drift

v — VASHON DRIFT (UPPER PLEISTOCENE – FRASER GLACIATION) – Heavy line shows inferred maximum extent of Puget lobe

EVANS CREEK DRIFT (UPPER PLEISTOCENE–FRASER GLACIATION)

et — Areal distribution of Evans Creek till

eo — Outwash deposits – Shown only in the Cowlitz and Nisqually River valleys

HAYDEN CREEK DRIFT (UPPER PLEISTOCENE–SALMON SPRINGS GLACIATION)

ht — Areal distribution of Hayden Creek till

ho — Outwash deposits

WINGATE HILL DRIFT (UPPER? PLEISTOCENE–SALMON SPRINGS? GLACIATION)

wt — Areal distribution of Wingate Hill till – Line of circles in Cowlitz River valley indicates probable maximum extent of glacier

wo — Outwash deposits

OLD TILL (MIDDLE TO LOWER? PLEISTOCENE) – Outcrop of deeply weathered till. May be partly correlative with Logan Hill Formation

lh — LOGAN HILL FORMATION (MIDDLE TO LOWER PLEISTOCENE) – Deeply weathered gravel, perhaps largely of glaciofluvial origin, and small amounts of till

b — BEDROCK AND NONGLACIAL SURFICIAL DEPOSITS – Includes drift in some glaciated areas where glacier extents are not known

→ INFERRED DIRECTION OF GLACIER MOVEMENT

MORAINE

NOTE

Distribution of glacial-drift map units shows the extent of glaciers of various ages, as inferred from scattered outcrops of till. Bedrock, glacial outwash, and Holocene deposits other than landslides generally are not shown within the boundaries of the glacial drifts.

MAP SHOWING DISTRIBUTION OF PLEISTOCENE SURFICIAL DEPOSITS AND EXTENTS OF PLEISTOCENE GLACIERS IN THE MOUNT RAINIER REGION, WASHINGTON

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