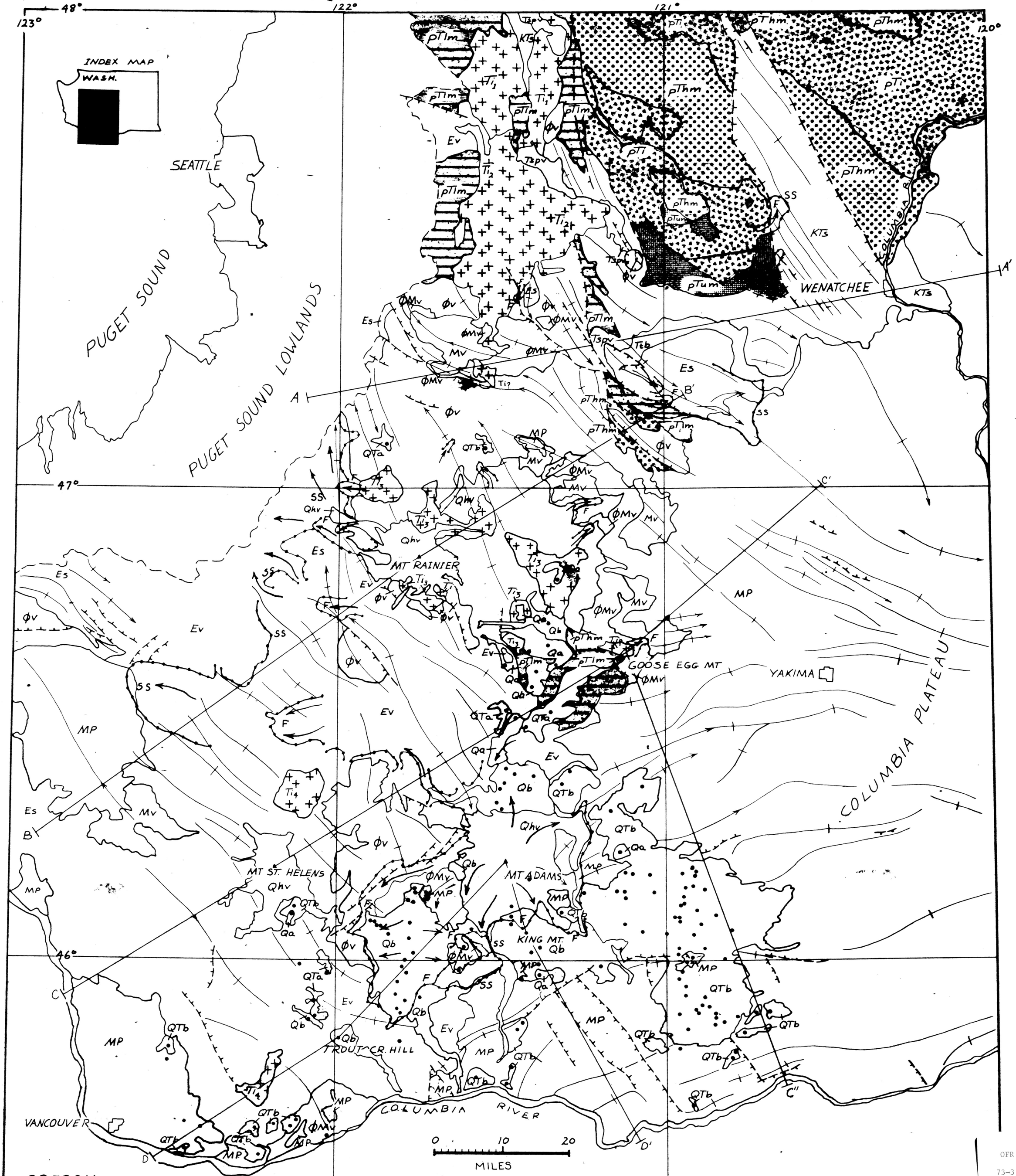
GENERALIZED GEOLOGIC MAP OF SOUTHERN CASCADE RGE. WASH.



OFR
73-3
Plate 1

GEOLOGY BY P.E. HAMMOND 1957 - 1972
CARTOGRAPHY BY P.E. HAMMOND & C.R. THOMS 1973

EXPLANATION TO GEOLOGIC MAP (Plate 1)

Qhv	High Cascade volcanics
Qb	Quaternary basalt lava flows and cinder cones
Qa	Quaternary andesite lava flows
QTb	Plio-Quaternary basalt lava flows
QTa	Plio-Quaternary andesite lava flows
Ti	Mid-Tertiary intrusions, Ti_1-Ti_4
MP	Mio-Pliocene volcanic and sedimentary rocks
Mv	Miocene volcanic rocks
ΦMv	Oligo-Miocene volcanic rocks Includes some sedimentary rocks.
Φv	Oligocene volcanic rocks
Ev	Eocene volcanic rocks
Es	Eocene sedimentary rocks
Ttb	Teanaway Basalt
Tspv	Silver Pass Volcanic Rocks
KTs	Cretaceo-Paleocene Swauk Formation
pTi	Pre-Tertiary intrusive rocks
pTum	Pre-Tertiary ultramafic rocks (Ingalls Creek Peridotite) } pTx
pThm	Pre-Tertiary high-grade metamorphic rocks
pTlm	Pre-Tertiary low-grade metamorphic rocks

Symbols

Moraine: approximate maximum extent of glacier

F Fraser glaciation

SS Salmon Springs glaciation

direction of glacier advance

A High Cascade volcano center

Volcanic center (cinder cone and shield volcano)

Fault, barbs on down block

Anticline, showing direction of plunge

Syncline

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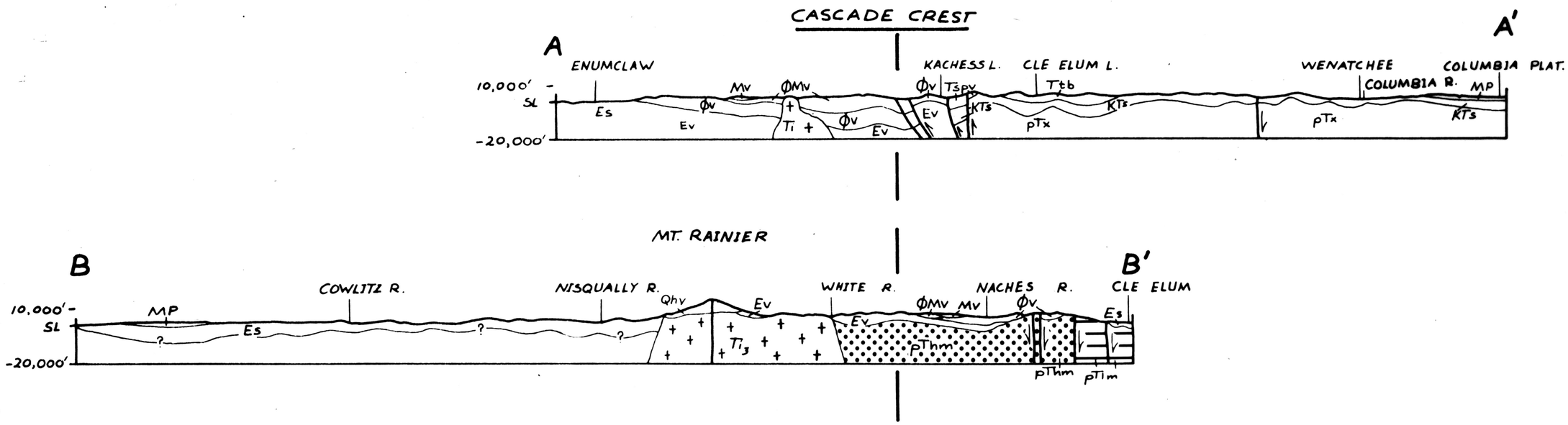
Plate 5

GEOLOGIC CROSS SECTIONS SOUTHERN CASCADE RGE. WASH.



GEOLOGY BY P.E. HAMMOND 1957 - 1972
CARTOGRAPHY BY C.R. THOMS 1973

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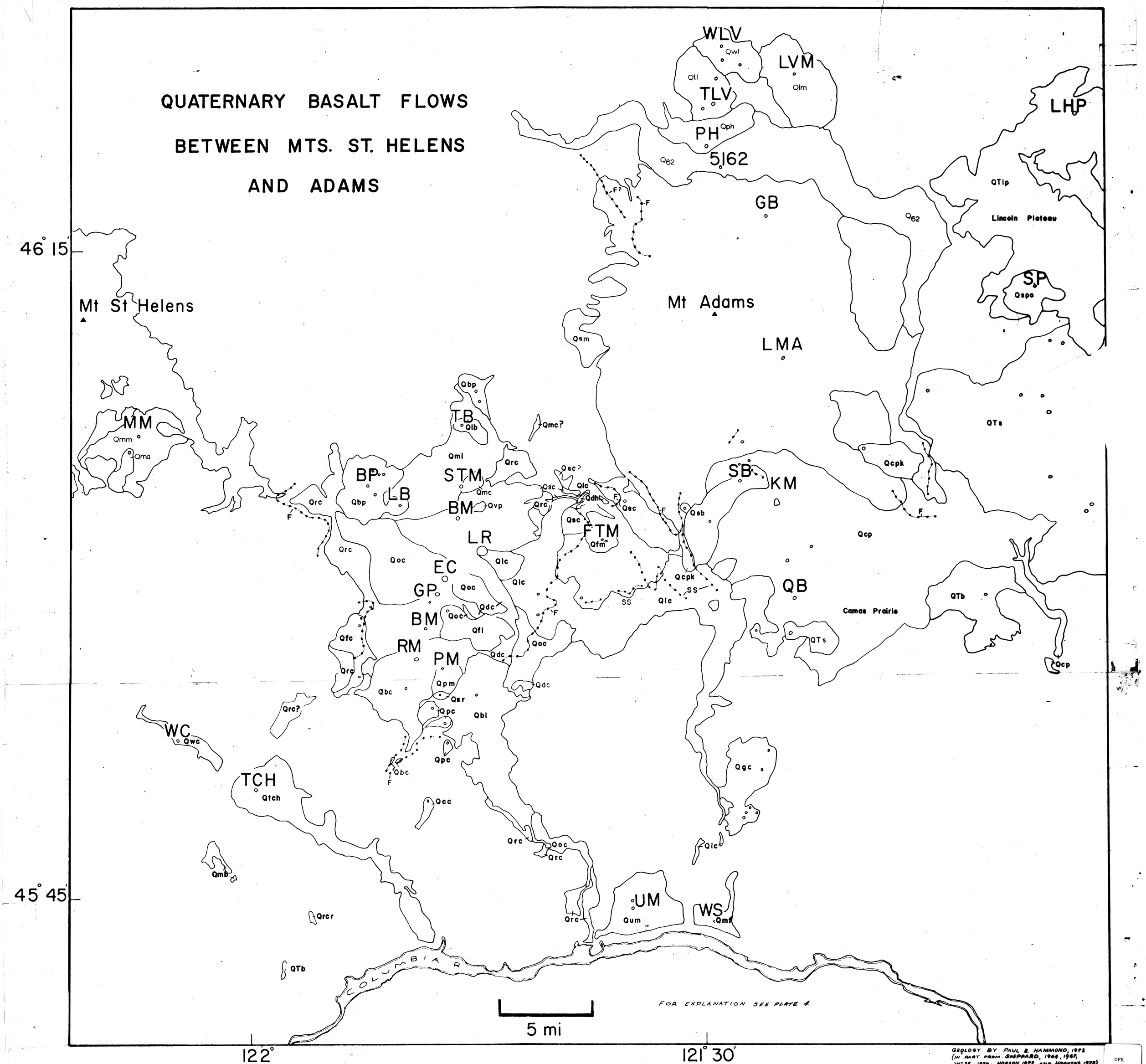
73-3
Plate 2



GEOLOGY BY PAUL E. HAMMOND, 1972
(IN PART FROM SHEPPARD, 1964, 1967;
WISE, 1970; HOPSON, 1972, AND HOPKINS, 1972)
CARTOGRAPHY - CHRIS THOMS, 1973.

BASALT ERUPTIONS

Between Mt. St. Helens and Mt. Adams

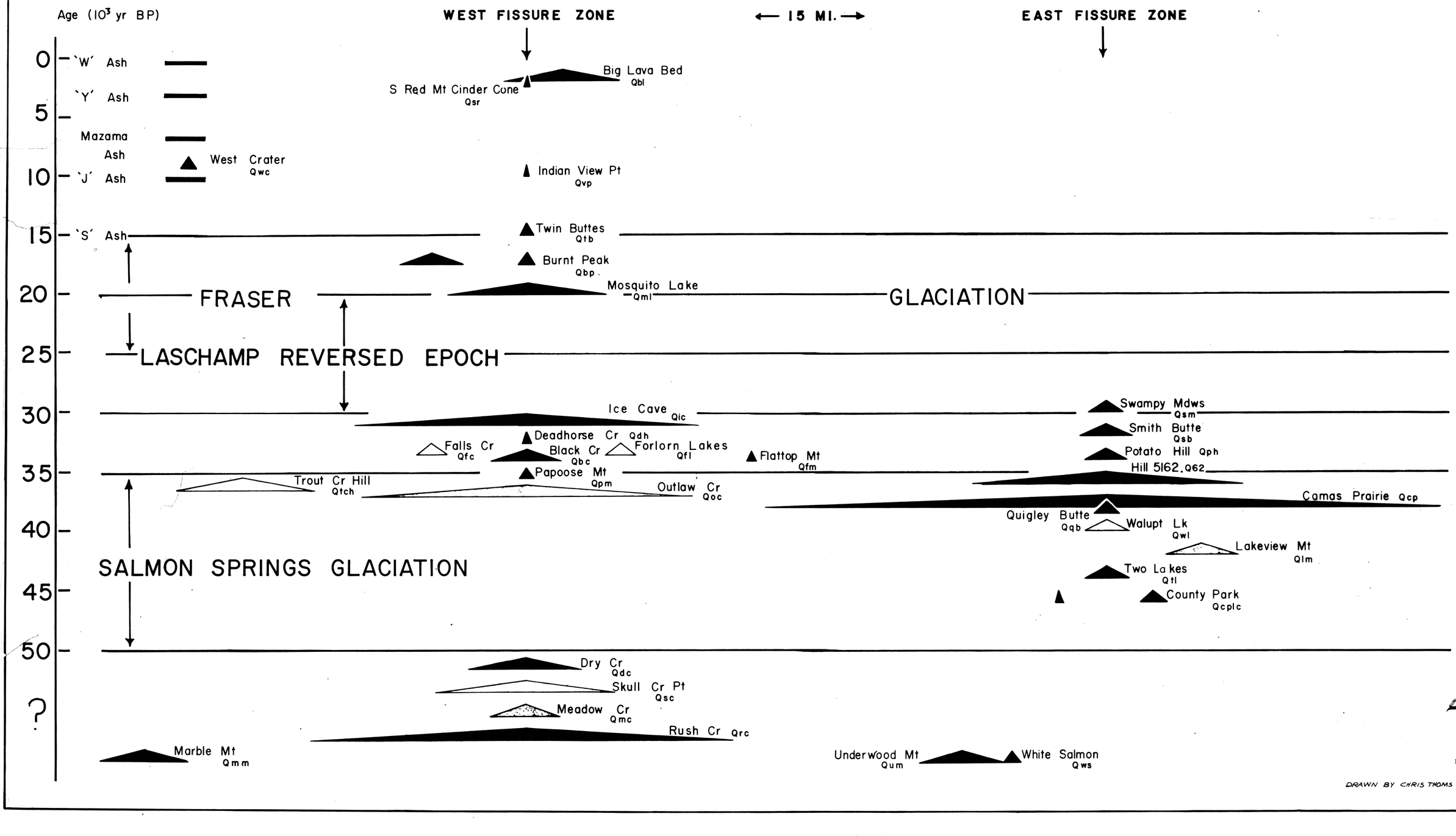


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Plate 4

DRAWN BY CHRIS THOMS 3/73