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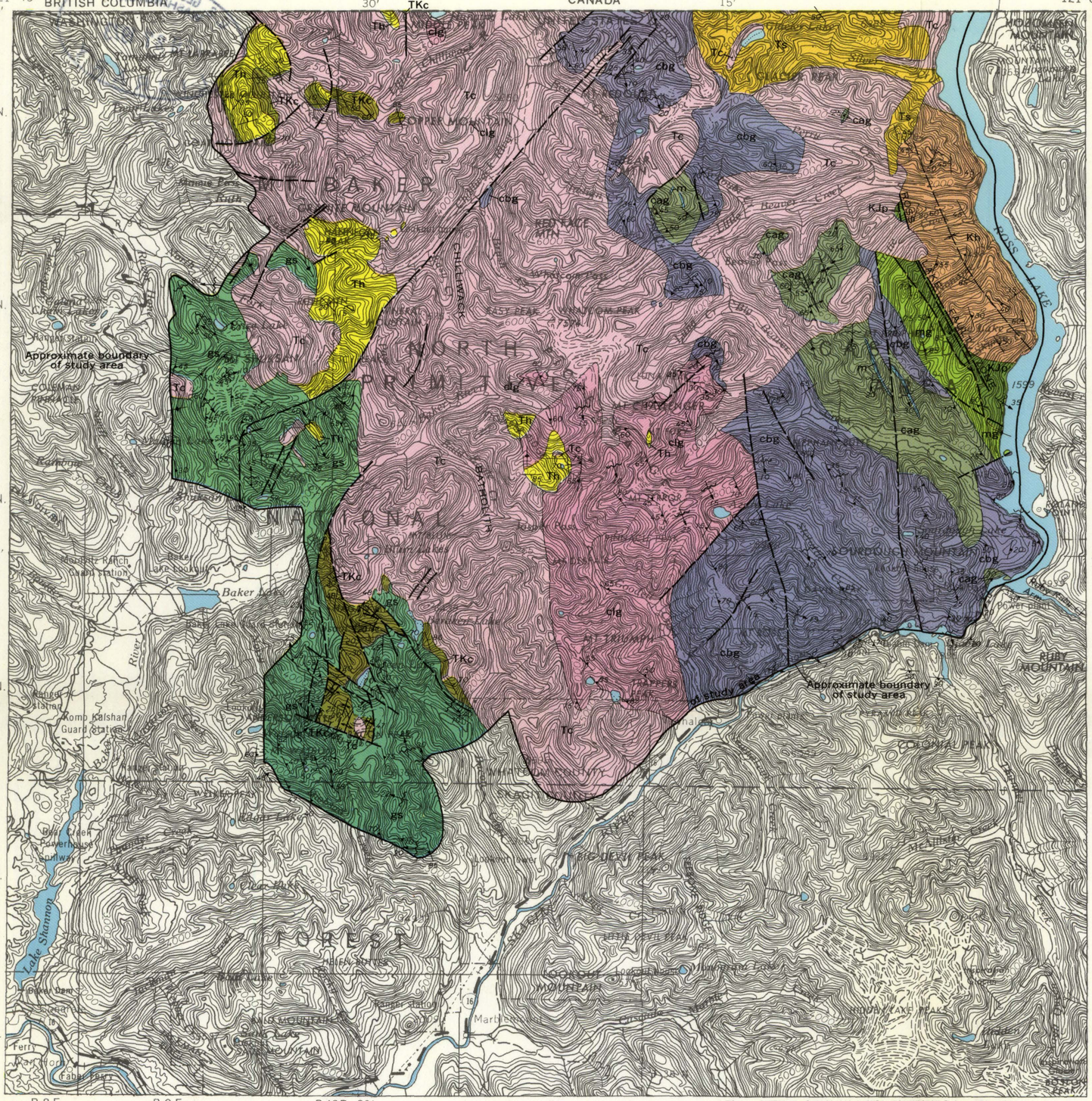
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1359
PLATE 1

GEOLOGICAL SURVEY



Base from U.S. Geological Survey,
1:250,000, Concrete, 1962

GEOLOGIC MAP OF THE NORTHERN PART OF THE NORTH CASCADES NATIONAL PARK, WASHINGTON

Geology by M. H. Staatz, R. W. Tabor,
P. L. Weis, and J. F. Robertson, 1966–67

EXPLANATION

ROCKS IN THE WESTERN PART OF THE AREA

Lower Tertiary	Th	Hannegan Volcanics	TERTIARY
Upper Tertiary	Tc	Granodiorite, quartz diorite, and related rocks of the Chilliwack composite batholith. *In part may be as old as* Th *and* Ts	TERTIARY
Upper Cretaceous and Paleocene	TKc	Chuckanut Formation	CRETACEOUS
	gs	Greenschist and phyllite of Mount Shuksan	AGE UNKNOWN

ROCKS IN THE EASTERN PART OF THE AREA

Lower(?) Tertiary	Ts	Skagit Volcanics	TERTIARY
	Kh	Hozomeen Group of Cairnes (1944)	CRETACEOUS
Lower Jurassic to Lower Cretaceous	KJp	Phyllite and schist of Ross Lake	JURASSIC TO CRETACEOUS
	mg	Metagabbro	AGE UNKNOWN
	clg, cbg, cag, m	Custer Gneiss of McTaggart and Thompson (1967) clg, *light-colored gneiss* cbg, *banded gneiss* cag, *amphibole-rich gneiss* m, *marble*	CRETACEOUS(?) AND OLDER

Contact
Dashed where approximately located

Fault, showing dip
Dashed where approximately located

Anticline — Syncline
Folds
Showing trace of axial plane.
Dashed where approximately located

20 — Inclined — Vertical
Strike and dip of beds

55 — Inclined — Vertical
Strike and dip of foliation

Plunge of minor fold axis

SCALE 1:200 000

5 0 5 10 15 MILES

5 0 5 10 15 KILOMETERS

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL
1972 MAGNETIC DECLINATION AT CENTER OF MAP IS APPROXIMATELY 22°30′ EAST

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON D.C.—1972—G71364