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GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA

# OPEN FILE 2719

GEOLOGY

# SPATSIZI RIVER

BRITISH COLUMBIA

Scale 1:250 000 - Échelle 1/250 000

Kilometres 5 0 5 10 15 20 Kilometres

Universal Transverse Mercator Projection
Projection transverse universelle de Mercator

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Copies of this map may be obtained from the Geological Survey of Canada 601 Booth Street, Ottawa, Ontario, K1A 0E8 and from the Geological Survey of Canada Pacific Division Map Unit, 1automne 100 West Pender Street, Vancouver, B.C. V6B 1R8

LOCATION MAP

## DESCRIPTIVE NOTES

Spatsizi River map area is underlain by Paleozoic to upper Tertiary volcanic, sedimentary and igneous rocks which constitute three tectonic elements, the Bowser and Sustut basins, and Stikinia. Paleozoic metavolcanic and metasedimentary rocks and Triassic and Lower Jurassic volcanic and sedimentary rocks and plutons, are part of Stikinia, a terrane allochthonous to ancestral North America [1]. It is overlain by the Bowser Basin, an extensive marine to nonmarine basin which underlies much of Spatsizi River map area, and the Intermontane Belt between 56° N and 58° N latitude. Strata of the Bowser Basin, primarily the Bowser Lake Group but including the uppermost Hazelton Group, are early Middle Jurassic to Early Cretaceous in age. They consist of sediments derived from the oceanic Cache Creek Terrane to the north and northeast during and after obduction of the Cache Creek Terrane onto Stikinia. The Bowser Basin is bounded on the northeast by the nonmarine Sustut Basin, which was filled by rivers flowing southward from the Omineca Mountains [2] and eastward from an evolving fold belt in mid- to Late Cretaceous time. Mid-Bell