

129°30' 129°00' CARTMEL STOCK WILDERNESS 129°30' Copies of this map may be obtained from the Geological Survey of Canada: 601 Booth Street, Ottawa, Ontario K1A 0E8 MAP 2029A 3303-33rd Street, N.W., Calgary, Alberta T2L 2A7 101-605 Robson Street, Vancouver, B.C. V6B 5J3 **GEOLOGY** 104 H/14 104 H/15 Digital base map from data compiled by Geomatics Canada, Geology by C.A. Evenchick (1985–1990) D.J. Thorkelson (1986–1987) **EAGLENEST CREEK** and P.S. Mustard (1988) modified by ESS Info 104 H/12 104 H/11 104 H/10 **BRITISH COLUMBIA** Mean magnetic declination 2004, 23°48'E, Map compilation by C.A. Evenchick and D.J. Thorkelson

Scale 1:50 000/Échelle 1/50 000

Système de référence géodésique nord-américain, 1927

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North American Datum 1927

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Digital geological cartography by C.L. Wagner, S. Churchill, and R. Cocking, Earth Sciences Sector Information Division (ESS Info),

D. Dunn and C. Evenchick, Geological Survey of Canada

Any revisions or additional geological information known to the user

would be welcomed by the Geological Survey of Canada

LOCATION MAP

decreasing 15.5' annually

Elevations in feet above mean sea level

Contour interval 100 feet

2028A

2035A

104 H/5

2029A

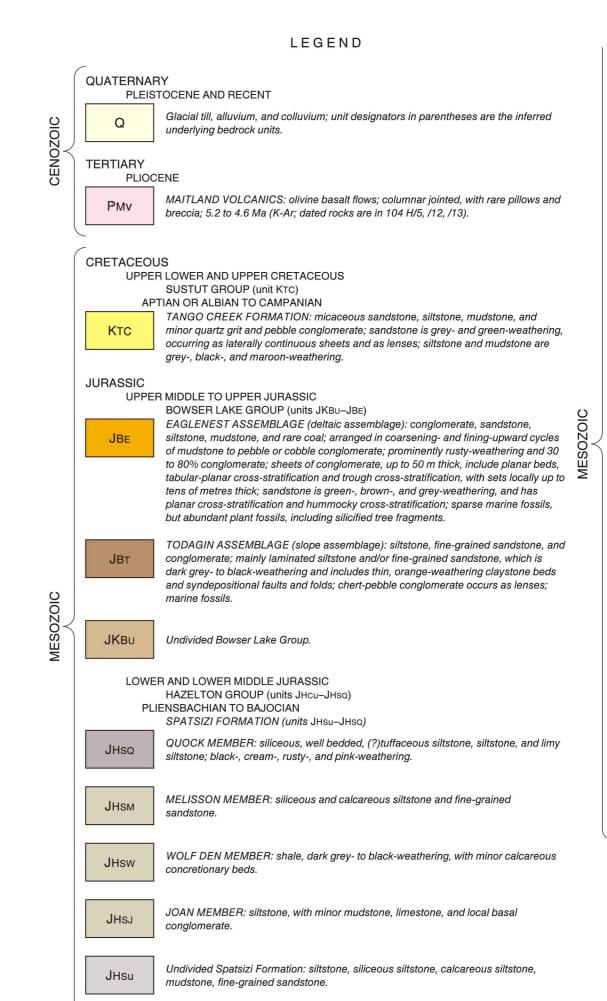
2034A

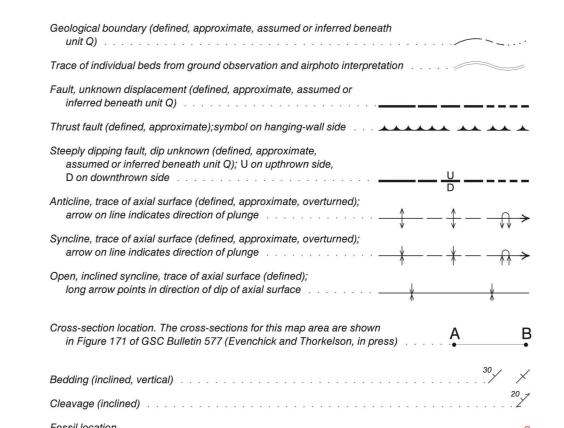
104 H/6

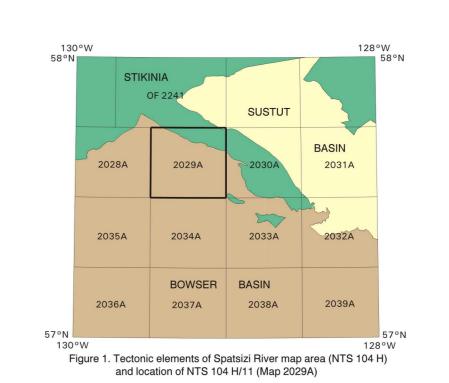
2030A

2033A

104 H/7







JURASSIC TO TERTIARY

CARTMEL STOCK Fine-grained hornblende granite, fine-grained hornblende±pyroxene quartz diorite, and medium-grained biotite-hornblende quartz monzonite.

LOWER JURASSIC

LOWER PLIENSBACHIAN COLD FISH VOLCANICS (units JHcu-JHcs) Subaerial mafic lava flows interbedded with felsic air-fall tuff and nonwelded ignimbrite, minor felsic sills, welded ignimbrite, conglomerate, sandstone, shale, and

subaqueous mafic lava.

Marine mafic lava, minor sandstone, shale, limestone, tuff, and subaerial mafic lava. Felsic volcanic rocks, including sills, dykes, welded and nonwelded ignimbrite, air-fall tuff-breccia, and lava, with minor mafic lava and epiclastic rocks. JHcfi:

welded ignimbrite; minor nonwelded ignimbrite and felsic sills. JHcfs: felsic sills;

Mainly block lava and associated lava.

minor felsic lava and ignimbrite.

JHcel: mainly lahar, breccia, and conglomerate. JHces: shale, siltstone, and

JHCu Undivided Cold Fish Volcanics.

UPPER TRIASSIC TO LOWER JURASSIC (?)CARNIAN AND (?)NORIAN TO HETTANGIAN AND/OR LOWER SINEMURIAN Conglomerate, sandstone, shale, mafic to intermediate volcanic breccia, and olistostrome: conglomerate clasts are mainly hornblende and plagioclase porphyry andesite, but include augite-phyric mafic lava and other volcanic rocks, felsic to intermediate granitoid rocks, and limestone.

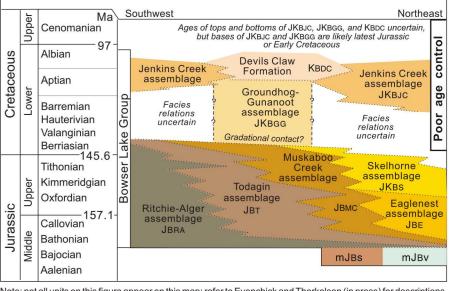
Undivided Stuhini Group and unit TJc.

Undivided Stuhini Group, unit TJc, Griffith Creek volcanics, and Cold Fish Volcanics.

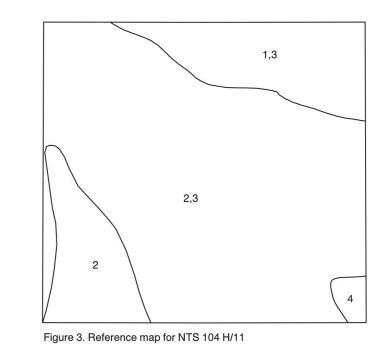
UPPER TRIASSIC (?)CARNIAN TO NORIAN

STUHINI GROUP (unit uTss)

Mudstone, shale, sandstone, and olistostrome; minor conglomerate and mafic lava.



Note: not all units on this figure appear on this map; refer to Evenchick and Thorkelson (in press) for descriptions Figure 2. Approximate ages and relationships of units in the Bowser Lake Group



Sources of information for this compilation are geological mapping by 1) D.J. Thorkelson, 1986, 1987; 2) C.A. Evenchick, 1985, 1988 (with P.S. Mustard), 1990; 3) H. Gabrielse and H.W. Tipper, 1979, 1981, 1983, (1984); and 4) R.C. Thomson et al. (1986). Dates in parentheses are years of publications. Other dates are years of fieldwork from

Previous geological maps of the region are by Geological Survey of Canada (1957), Eisbacher (1974), Gabrielse and Tipper (1984), Thomson et al. (1986), and Thorkelson (1992). Geology of the surrounding region (NTS 104 H) and descriptive notes are given by Evenchick and Thorkelson (in

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In press: Geology of the Spatsizi River map area, north-central British Columbia; Geological Survey of Canada, Gabrielse, H. and Tipper, H.W. 1984: Bedrock geology of Spatsizi map area (104 H); Geological Survey of Canada, Open File 1005, scale

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Thomson, R.C., Smith, P.L., and Tipper, H.W. 1986: Lower to Middle Jurassic (Pliensbachian to Bajocian) stratigraphy of the northern Spatsizi area, northcentral British Columbia; Canadian Journal of Earth Sciences, v. 23, p. 1963–1973.

1992: Volcanic and tectonic evolution of the Hazelton Group in Spatsizi River (104 H) map area, north-central British Columbia; Ph.D. thesis, Carleton University, Ottawa, Ontario, 299 p.

Evenchick, C.A. and Green, G.M

Recommended citation: