

LEGEND

QUATERNARY FLUVIOTECTONIC AND RECENT

CRETACEOUS

JURASSIC AND CRETACEOUS

JURASSIC

LOWER AND LOWER MIDDLE JURASSIC

HAZELTON GROUP (units JHs-JHs)

PLENSBACHIAN TO BAJOJIAN

SPATSIZI FORMATION (units JHs-JHs)

QUOQC MEMBER: siliceous, well bedded, (?)lenticular siltstone, siltstone, and limy siltstone; black, cream, rusty, and pink-weathering.

ABOU MEMBER: calcareous to siliceous organic shale, laminated, light-weathering.

MELISSON MEMBER: siliceous and calcareous siltstone and fine-grained sandstone.

WOLF DEN MEMBER: shale, dark grey to black-weathering, with minor calcareous concretionary beds.

JOAN MEMBER: siltstone, with minor mudstone, limestone, and local basal conglomerate.

Undivided Spatsizi Formation: siliceous, siliceous limestone, calcareous siltstone, mudstone, fine-grained sandstone.

LOWER JURASSIC

LOWER PLENSBACHIAN COLD FISH VOLCANICS (units JHc-JHc)

HETTANGIAN

GRIFFITH CREEK VOLCANICS (units JHc and JHc)

UPPER TRIASSIC TO LOWER JURASSIC

UPPER TRIASSIC (?)CARNIAN AND (?)NORIAN TO HETTANGIAN AND/OR LOWER SINEMURIAN

UPPER TRIASSIC (?)CARNIAN TO NORIAN

STUHNIN GROUP (units UTs and UTs)

CARBONIFEROUS TO PERMIAN

White marble.

Geological boundary (defined, approximate, assumed or inferred beneath unit Q)

Trace of individual beds from ground observation and airphoto interpretation

Fault, unknown displacement (defined, approximate, assumed or inferred beneath unit Q); symbol on hanging-wall side

Thrust fault (defined, approximate, assumed or inferred beneath unit Q); symbol on hanging-wall side

Normal fault (defined, approximate, assumed or inferred beneath unit Q); symbol on downthrown side

Steeply dipping fault, dip unknown (defined, approximate, assumed or inferred beneath unit Q); U on upthrown side, D on downthrown side

Anticline, trace of axial surface (defined, approximate, overturned); arrow on line indicates direction of plunge

Syncline, trace of axial surface (defined, approximate, overturned); arrow on line indicates direction of plunge

Open, inclined fold, trace of axial surface (anticline, syncline); long arrow points in direction of dip of axial surface

Cross-section location. The cross-sections for this map area are shown in Figures 171 and 172 of GSC Bulletin 577 (Evenchick and Thorkelson, in press)

Bedding (inclined, vertical)

Cleavage (inclined)

Fold axis

Fossil location

Mineral occurrence from British Columbia MINFILE; see Table 1 below

Radiometric age (in Ma)

Conglomerate

Icefield

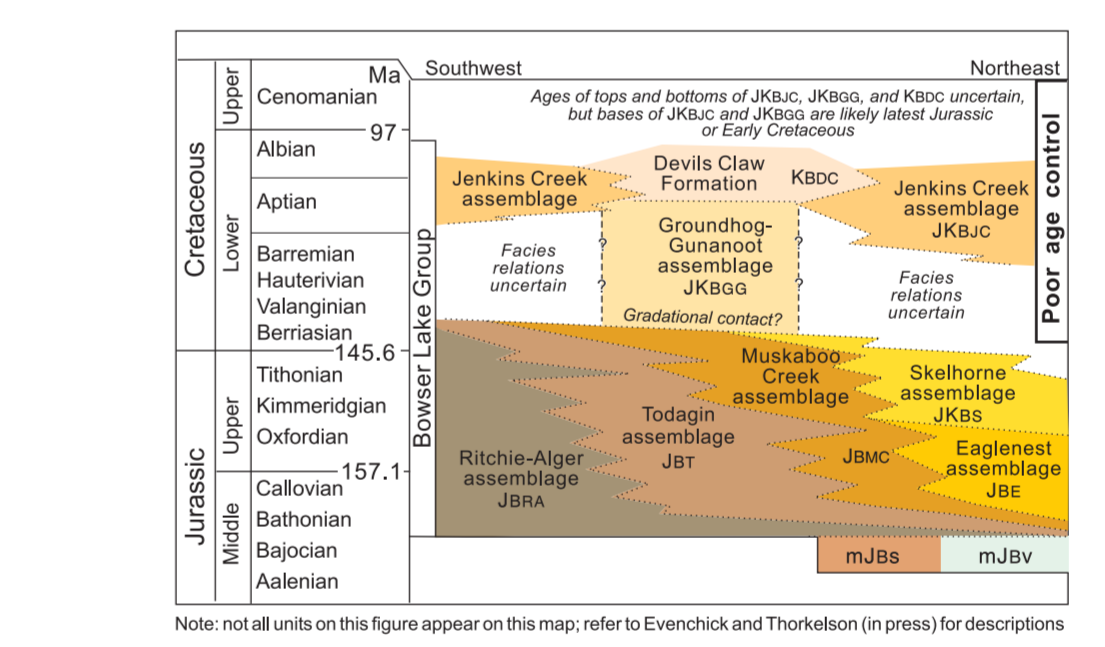


Figure 1. Approximate ages and relationships of units in the Bowser Lake Group

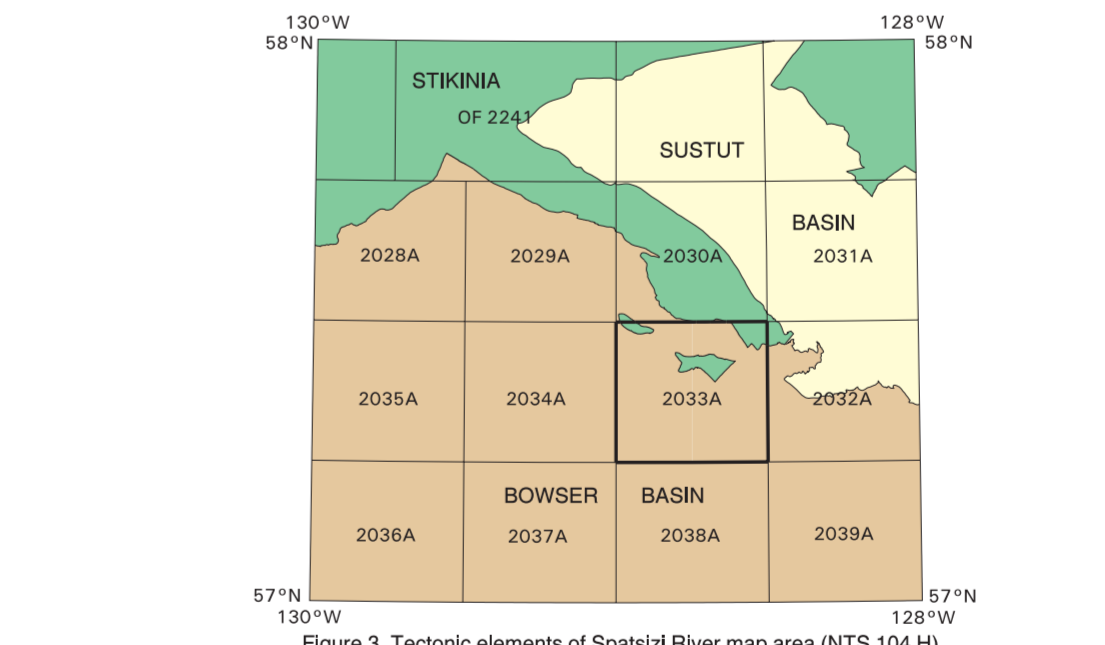


Figure 2. Reference map for NTS 104 H17

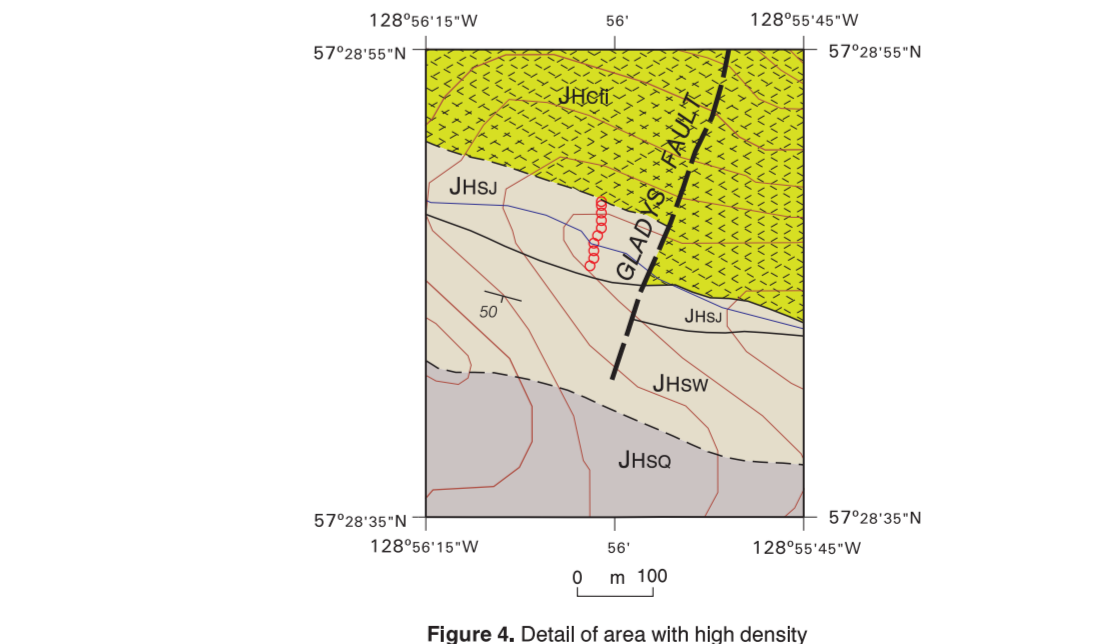


Figure 3. Tectonic elements of Spatsizi River map area (NTS 104 H) and location of NTS 104 H17 (Map 2033A)

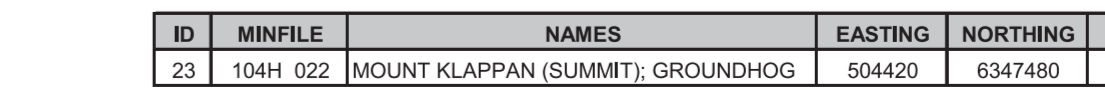


Figure 4. Detail of area with high density of fossil locations

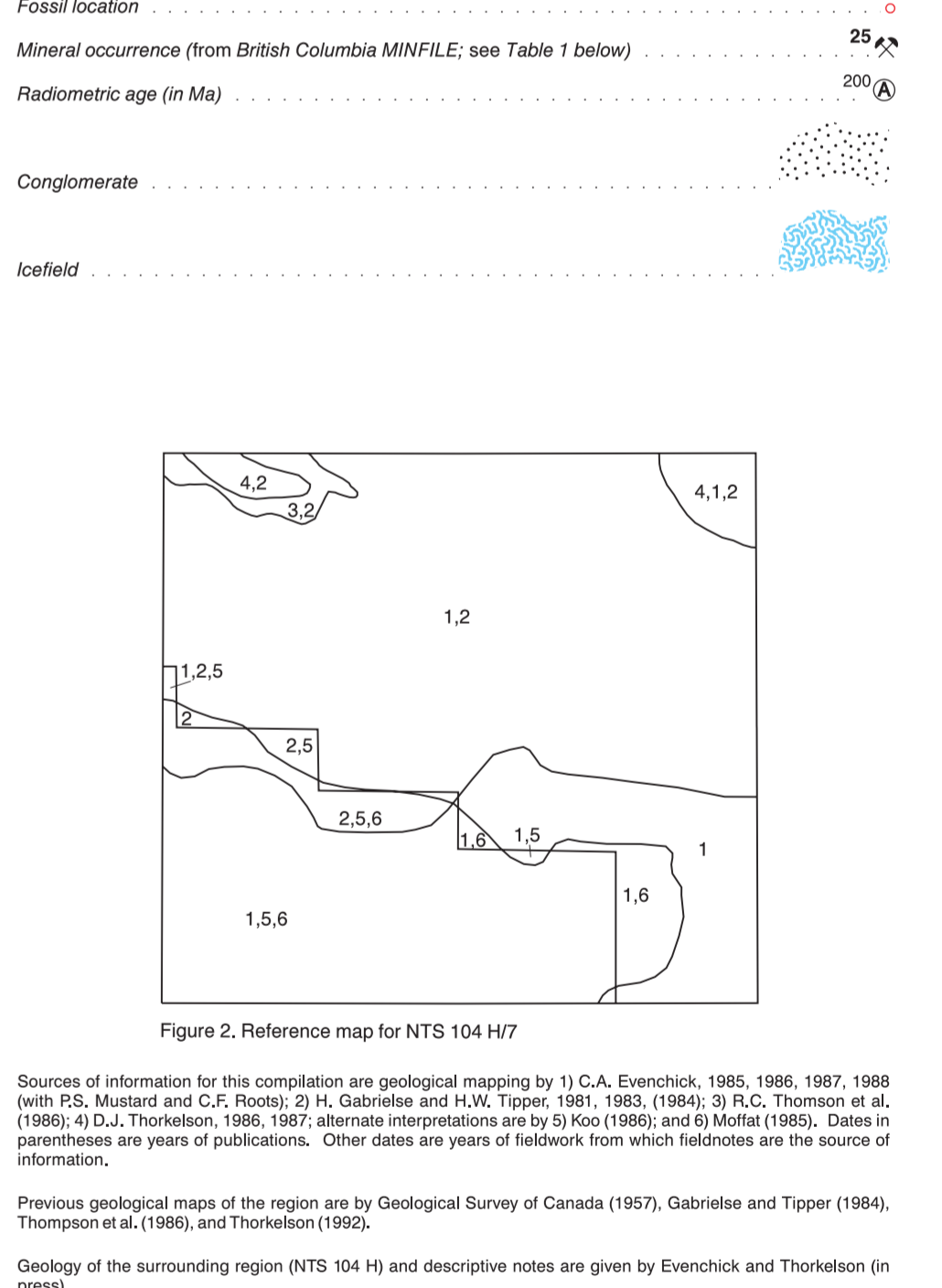


Figure 5. Reference map for NTS 104 H17

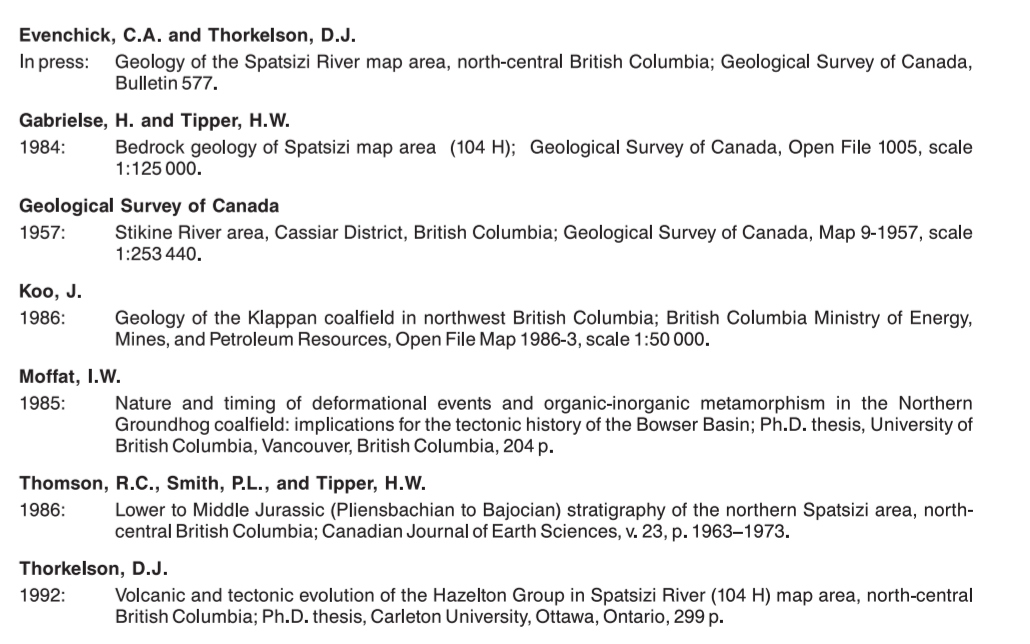


Figure 6. Tectonic elements of Spatsizi River map area (NTS 104 H) and location of NTS 104 H17 (Map 2033A)



Figure 7. Detail of area with high density of fossil locations

Geology by C.A. Evenchick (1985-1993), D.J. Thorkelson (1986-1987), P.S. Mustard (1988), H. Gabrielse and H.W. Tipper (1981, 1983), and R.C. Thomson (1983)

Map compilation by C.A. Evenchick and D.J. Thorkelson

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

MAP 2033A
GEOLOGY
BUCKINGHORSE CREEK
BRITISH COLUMBIA

Scale 1:50 000/Échelle 1/50 000

Universal Transverse Mercator Projection
North American Datum 1927
© Her Majesty the Queen in Right of Canada 2004

Projection transversale universelle de Mercator
Système de référence géodésique nord-américain, 1927
© Sa Majesté la Reine du chef du Canada 2004

Digital base map from data compiled by Geomatics Canada, modified by ESS Info

Mean magnetic declination 2004, 23°39' E, decreasing 15.3' annually

Elevations in feet above mean sea level

Contour interval 100 feet

ID	MINFILE	NAMES	EASTING	NORTHING	COMMODITY	STATUS
23	104H 022	CLIPPER (SUMMIT), GROUNDHOG	504420	634740	Coal	Developed prospect

Table 1. Mineral occurrence data for Buckinghorse Creek area.