

BC **Province of British Columbia**
Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION
GEOLOGICAL SURVEY BRANCH
OPEN FILE 1989-4 (SHEET 1 OF 2)

GEOLOGY OF THE TYAUGHTON CREEK AREA

NTS 92J/15,16; 92O/2

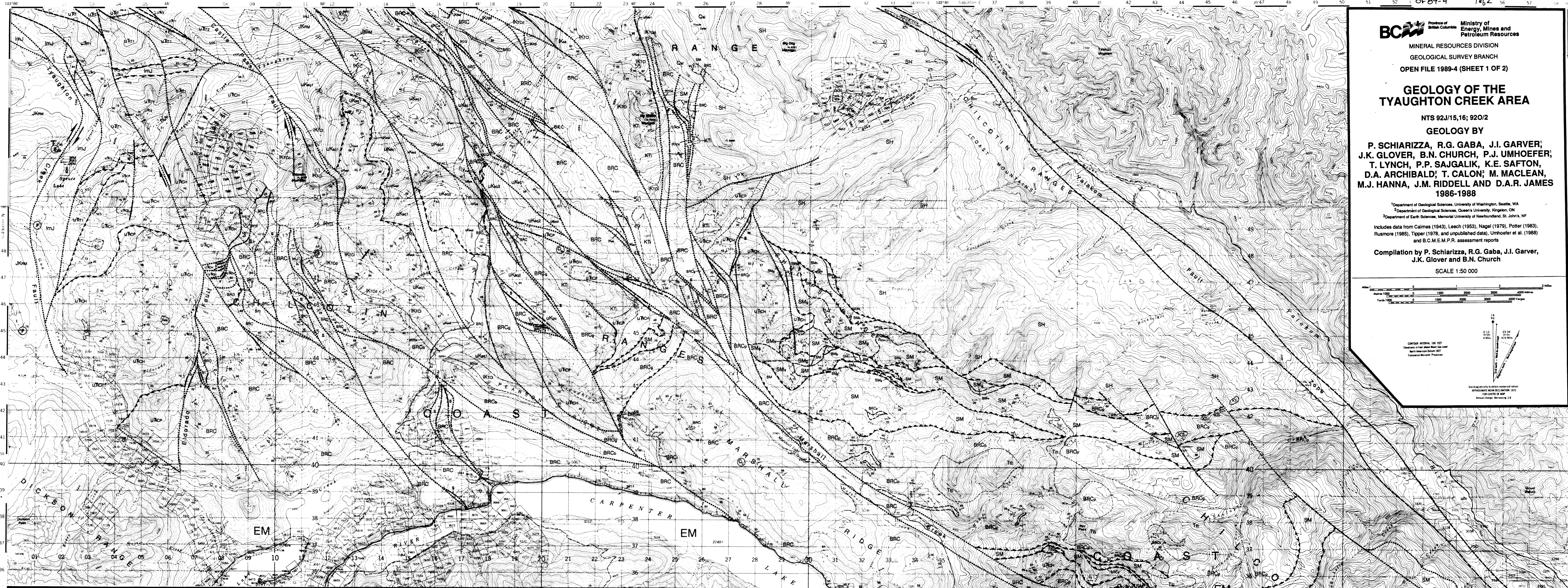
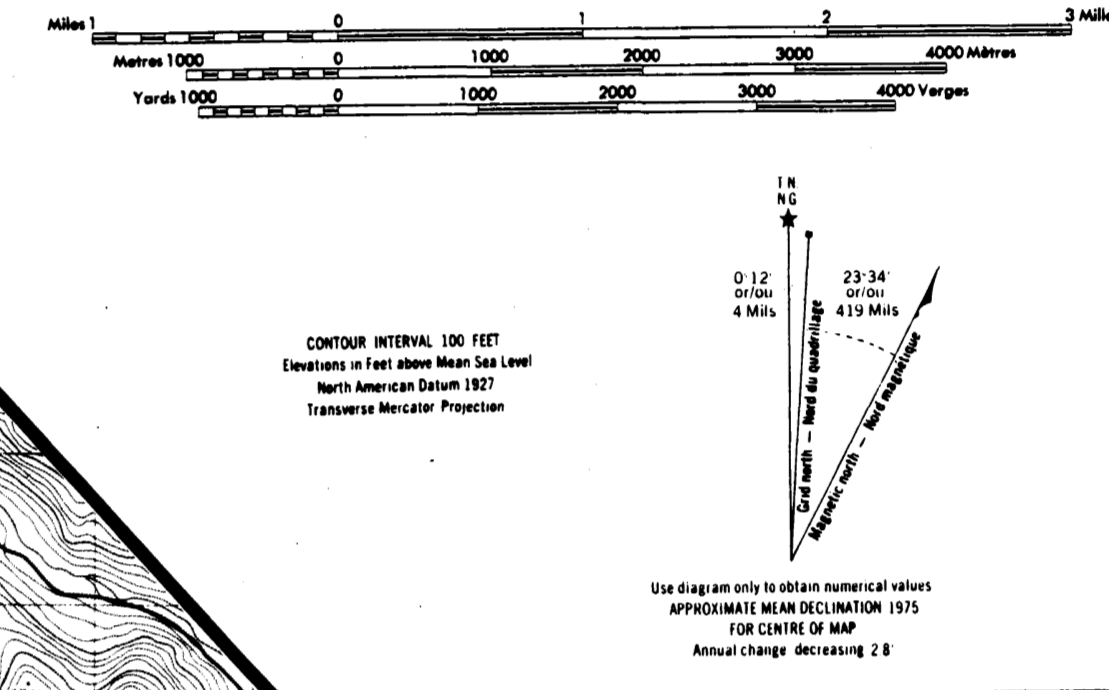
GEOLOGY BY

P. SCHIARIZZA, R.G. GABA, J.I. GARVER,
J.K. GLOVER, B.N. CHURCH, P.J. UMHOEFER,
T. LYNCH, P.P. SAJGALIK, K.E. SAFTON,
D.A. ARCHIBALD, T. CALON, M. MACLEAN,
M.J. HANNA, J.M. RIDDELL AND D.A.R. JAMES
1986-1988

¹Department of Geological Sciences, University of Washington, Seattle, WA
²Department of Geological Sciences, Queen's University, Kingston, ON
³Department of Earth Sciences, Memorial University of Newfoundland, St. John's, NF
Includes data from Calmes (1943), Leach (1953), Nagel (1979), Potter (1983), Rusmore (1985), Tipper (1978), and unpublished data; Umhoefer et al. (1988) and B.C.M.E.M.P.R. assessment reports

Compilation by P. Schiarizza, R.G. Gaba, J.I. Garver,
J.K. Glover and B.N. Church

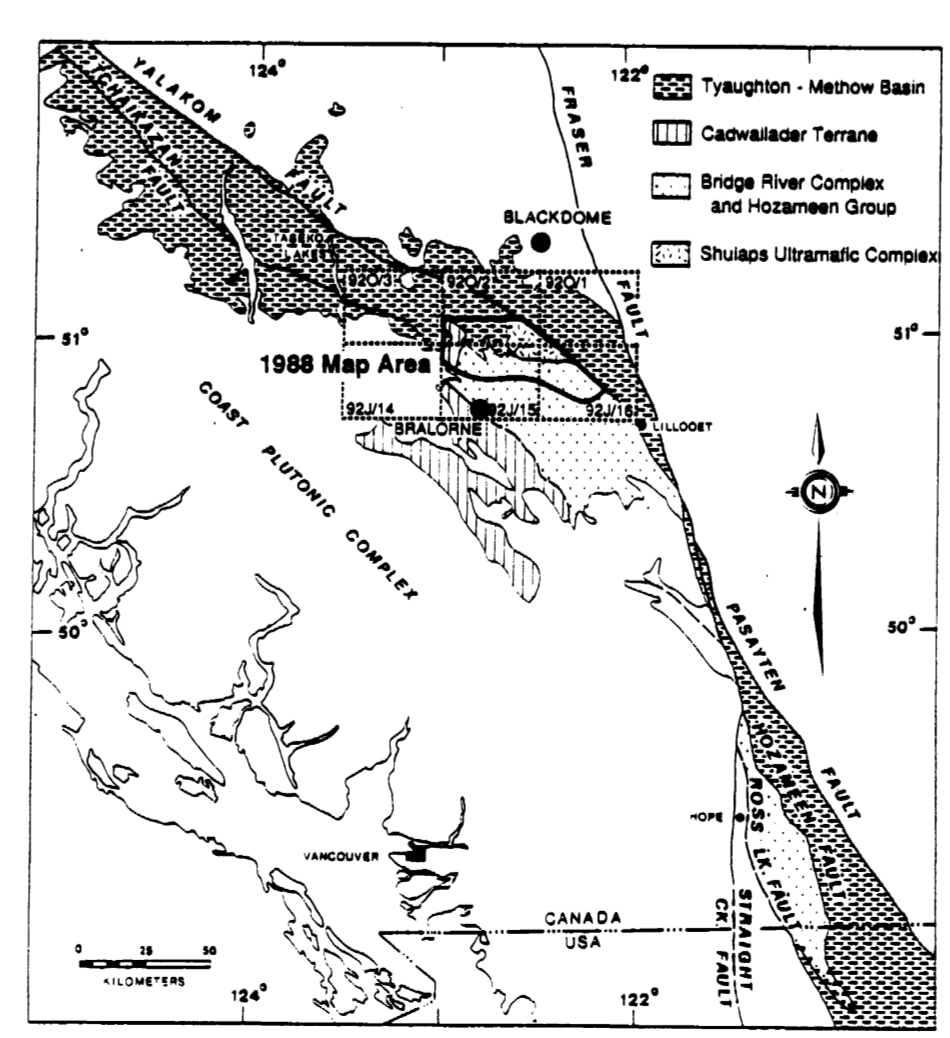
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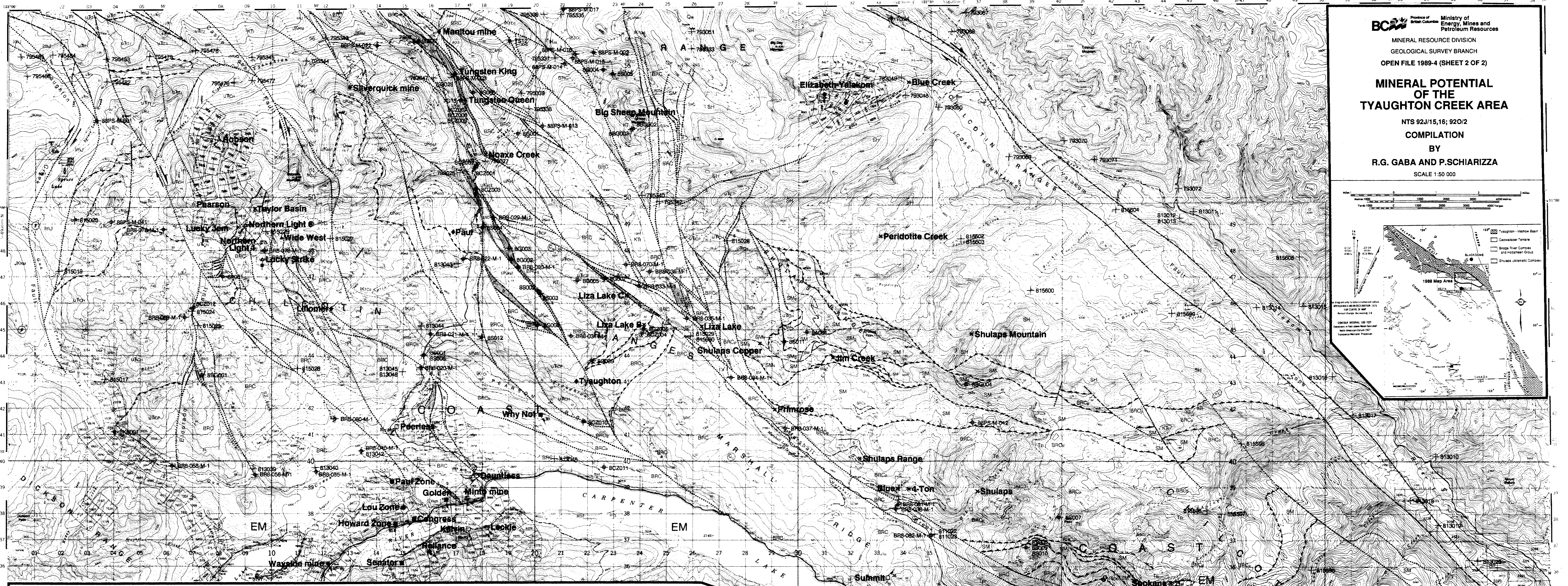
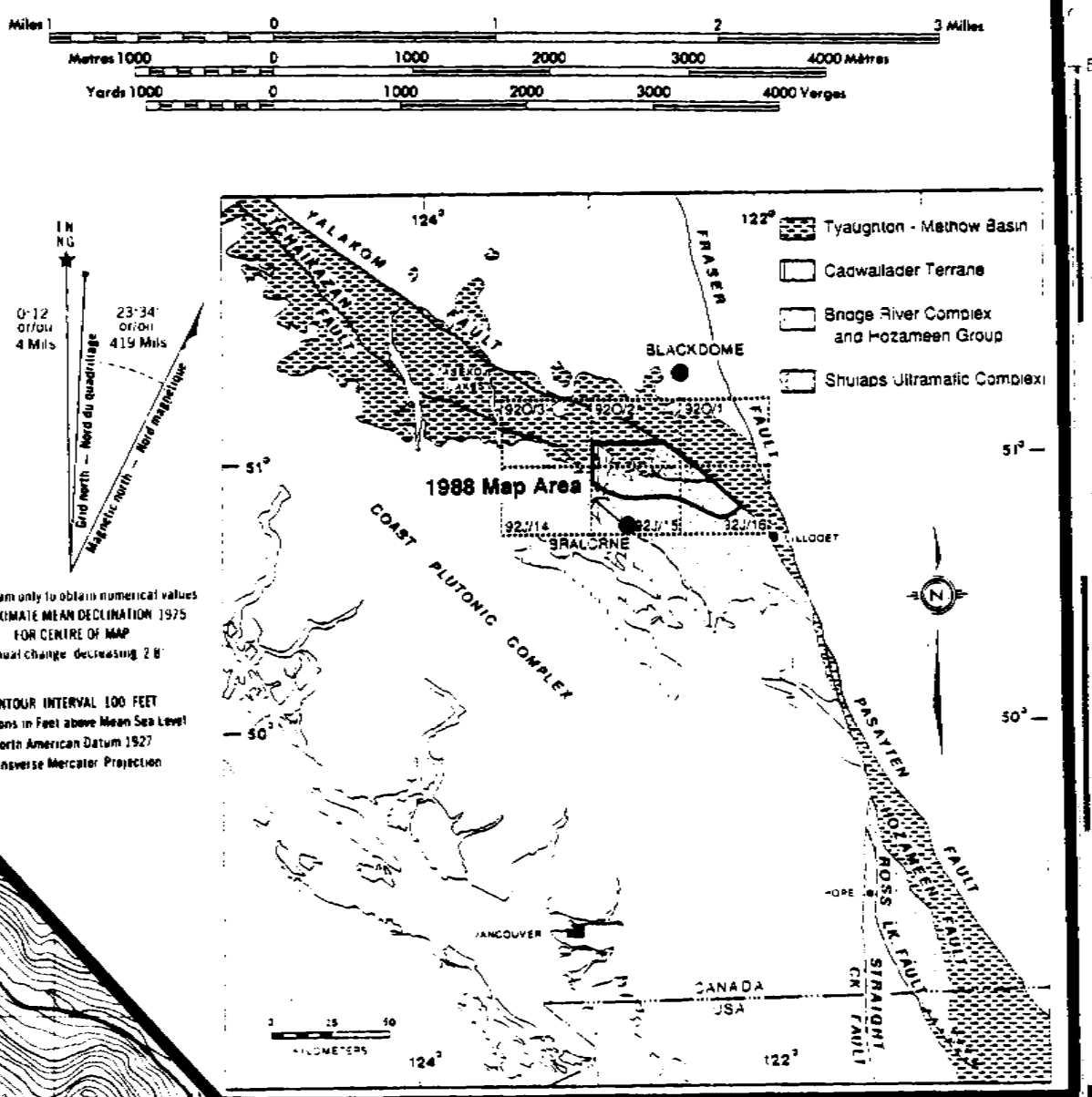
LEGEND

QUATERNARY Qm Unconsolidated glacial, fluvial and alluvial deposits	LOWER TO MIDDLE JURASSIC Upper Hettangian to lower Bajocian lmj Green calcareous sandstone, siltstone and conglomerate; dark grey shale and calcareous shale	MIOCENE Tm Basalt, dike
Eocene(?) Te Light grey porphyritic dike and volcanic breccia; minor amounts of conglomerate, sandstone, shale and siltstone	UPPER TRIASSIC Middle(?) to upper Norton TYAUGHTON GROUP UTh1 Green and grey sandstone, conglomeratic sandstone, conglomerate and shale; limestone conglomerate at base UTh2 Massive to thin-bedded limestone-volcanic conglomerate and conglomeratic sandstone; red to brown thin- to medium-bedded sandstone; thin- to thick-bedded grey limestone URT Unfolded Tyughton Group	Eocene Te Basalt granodiorite to hornblende-biotite-quartz-feldspar porphyry
UPPER CRETACEOUS(?) POWELL CREEK VOLCANICS (informal) UKP Andesitic breccia and lahar tuff; rhyolite and hornblende plagioclase phryic flow; volcanic sandstone and conglomerate SILVERBUCK CONGLOMERATE (informal) UKa2 Interbedded medium-bedded chert and volcanic pebble to cobble conglomerate; minor amounts of interbedded sandstone and siltstone UKa1 Pebble to cobble polymictic (dominantly chert) conglomerate; minor amounts of interbedded sandstone and shale	LOWER CRETACEOUS Albian TAYLOR CREEK GROUP Lizard formation (informal) IKL1 Interbedded shale and muscovite-rich argillaceous sandstone; minor amounts of chert-rich sandstone, chert pebble conglomerate and polymictic conglomerate Dash conglomerate (informal) IKL2 Chert pebble conglomerate; chert-rich sandstone and shale; conglomerate directly above the unconformable contact with the Bridge River complex contains clasts of basaltic gneiss, metachert, mafic and serpentinite IKL3 Unfolded Taylor Creek Group	PALEOCENE Tp Calciplexus quartz diorite to granodiorite LATE CRETACEOUS TO EARLY TERTIARY KTI Unfolded hornblende-quartz-feldspar; quartz-feldspar; and hornblende-biotite-quartz-feldspar porphyry; KTV - porphyritic rhyolite AGE UNKNOWN (IN PART LATE TRIASSIC OR YOUNGER) di Quartz, gabbro
MIDDLE JURASSIC TO LOWER CRETACEOUS Callowan to Barraman RELAY MOUNTAIN GROUP JKM Only to green sandstone and shale; pelopod and balmatite; minor amounts of conglomerate and silt	TRIASIC TO JURASSIC AND OLDER BRIDGE RIVER COMPLEX BRC Unfolded ribbon chert, argillite and pillowed to massive gneiss, with lesser amounts of limestone, calcarenite and calcarenaceous sandstone, locally muscovite gneiss, limestone granitic breccia and mafic gabbro AGE UNKNOWN SH Hurley Formation URcp Green to purple, commonly amygdaloidal, pillowed and massive gneiss, greenstone breccia and full plagioclase formation SM Shulaps ultramafic complex SH Northridge with lesser amounts of diorite (variably aperturbed) Other ultramafic rocks (relation to the Shulaps ultramafic complex is not known) S Greenish-grey, argillaceous, calcareous, and quartz-carbonate marlaceous rocks with red sandstone; calcarenite, calcarenaceous, phyllite and chert; gneiss, sandstone and phyllite derived mainly from the Bridge River complex	SYMBOLS Geological contact (defined, approximate, assumed) Unconformity (defined, assumed) Bedding, tops observed (inclined, vertical, overturned) Bedding, tops not observed (inclined, vertical) Strike and dip of pillows (inclined, vertical, overturned) Igneous layering (inclined, vertical) Strike and dip of sheeted dykes (inclined) Schistosity, cleavage (inclined, vertical) Mesosopic fold axis Mineral or stretch lineation Crenulation lineation Syncline (approximate) Thrust fault; teeth in direction of dip (defined, approximate, assumed) Thrust-related fault with steep or unknown dip (defined, approximate, assumed) High angle fault; arrows indicate relative sense of strike-slip movement (defined, approximate, assumed) Macrotectonic locality Conodont fossil locality (Carmanian, Norian) Geological station (denotes mapping by the Geological Survey Branch, 1986-1988)

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THIS PROJECT IS A CONTRIBUTION TO THE CANADA/BRITISH COLUMBIA MINERAL DEVELOPMENT AGREEMENT, 1985-1990



BC Ministry of Energy, Mines and Petroleum Resources. MINERAL RESOURCE DIVISION. GEOLOGICAL SURVEY BRANCH. OPEN FILE 1989-4 (SHEET 2 OF 2). MINERAL POTENTIAL OF THE TYAUGHTON CREEK AREA. NTS 92J/15,16; 92O/2. COMPILED BY R.G. GABA AND P. SCHIARITZA. SCALE 1:50 000.



Tables containing geochemical analysis data. Includes columns for sample ID, element (Au, Ag, Cu, etc.), and concentration values. Sub-sections include Lithogeochemical Analyses, Moss Mat Geochemical Analyses, and Stream Sediment (RGS) Geochemical Analyses.

- MINERAL DEPOSITS AND PROSPECTS. A list of mineral occurrences and prospects in the area, including Porphyry Cu-Ag, Au-Ag polymetallic veins, and various disseminations. Includes sample numbers and descriptions.

Small text at the bottom right providing additional project details and contact information.