

Report No. J-14-1989-TPP

Report on 1 collection of Jurassic fossils collected by R.V. Kirkham in Iskut River maparea, B.C., in 1987 and received in May, 1989 (NTS 104B).

"The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision."

103905. Field No. KQ-87-87B. UTM 617385N 4325000mE. Base of rock area east of Treaty Glacier and north of the South Treaty Glacier at an elevation of about 3600 feet. Lat. 56°36'30"N, Long. 130°08'W. In a 10-15 foot thick limey pebble mudstone (debris flow).

Identifications:

Camptonectes(?) sp.

Gervillia(?) sp.

belemnites, indet.

Age: Middle Toarcian through Cretaceous, most likely Middle Toarcian through Early Oxfordian



T. P. Poulton

Godfrey S. Rowler
Paleontology Subdivision

Institute of Sedimentary and Petroleum Geology

Geological Survey of Canada

Calgary, Alberta.

May 11, 1989

October 23/89
R.V. Kirkham

KQ-89-121D

Fossil Locality

- NTS Area 104 B/9
- UTM East 431820
- " North 6271670
- near top of ridge south of east arm of Treaty Glacier
- interlayered ^{thin} dark grey clastic sedimentary rocks and volcanic units
- collection consists of a few poorly preserved fossil fragments (some *Trigonias?*)
- however, fossils are abundant in the area some much better preserved fossils were visible in outcrop but we could not extract them.



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Resources Canada

Earth Sciences

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Sciences de la Terre

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Your file Votre référence

Our file Notre référence

May 17, 1989

Dr. M. J. Orchard:

Dear Mike:

I found one sample of dark, graphitic, argillaceous(?) lithographic limestone (KQ-87-24A) from the Sulphurets region, B.C. (104 B/8) that I would like checked for corodonts. I would like to know if it is worth collecting more of this type of material this summer (July & August). This is an interturbidite bed in fine grained distal turbidites of possible Triassic age(?).

The sample comes from about 2 km? west of Brucejack Lake in the canyon of Brucejack Creek at UTM location - Zone 09 425 260 East and 6 259 030 North.

Thanks for your help.

Best regards,
Rod Kirkham
613-995-4656

Canada



TO / À

G. P. Martin

FROM / DE

R. V. Kirkham

SECURITY CLASSIFICATION - DE SÉCURITÉ
OUR FILE - N/RÉFÉRENCE
YOUR FILE - V/RÉFÉRENCE
DATE Feb. 25/88

SUBJECT / OBJET

Fossils from NW British Columbia (NTS 104B/9)

Enclosed are two groups of fossils collected by R. V. Kirkham in northwestern B.C. in the summer of 1987. These fossils should be cataloged and identified (the belemnite-dominated assemblage probably by Dr. Teletzky and the pelecypod-dominated assemblage by Dr. Poulton?)

1) KQ-87-87B - Collected August 2/87 from the bare rock area east of Treaty Glacier and north of the South Treaty Glacier at an elevation of about 3600 feet - 627385 N ($\sim 56^{\circ} 36' 30''$ N) and 4325000mE ($\sim 130^{\circ} 06'$ W). Many belemnites, belemnite fragments, one ammonite and a few pelecypods in a 10-15m thick bronze weathering, dark grey, limy pebble mudstone (debris flow) unit.

2) KQ-87-122B - Collected August 9/87 from cliff-forming ridge north of upper Mitchell Glacier at an elevation of about ⁴⁶⁰⁰ feet - 6267000m N ($\sim 56^{\circ} 33'$) and 4274000E ($\sim 130^{\circ} 10' 40''$ W). Some fossils from talus but can see locally in o/c on this steep hillside. Massive, poorly bedded, fine grained, medium and dark grey sandstone (minor siltstone) unit between 2-100m-thick maroon kgillifalt units. Large limy concretions in sandstone. Mainly poorly preserved pelecypods.
R.V. Kirkham

Report J10-1987-TPP

Report on one collection of Middle Jurassic(?) fossils collected in 1986 in Iskut River maparea, B. C. by R. V. Kirkham (NTS 104B).


The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision.

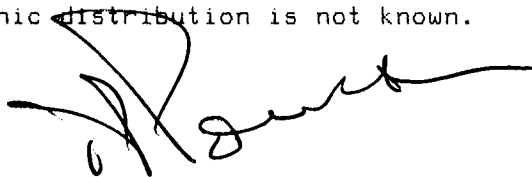
GSC Locality No. 102254. Field No. KQ-86-59. Near top of bare rock face near base of large snowfield (head of Treaty Glacier), north side of Mitchell Glacier, about 5700 ft. elev.. 56°33.5'N. Lat., 130°13' W. Long. Mitchell Glacier, B.C. (NTS 104B). Poorly preserved, in dark slate and limy siltstone near major faults, near Brucejack lineament.

Identifications:

Myophorella spp.
Trigonia sp.
 bivalves, indet.
 gastropods, indet.

Age: Middle Jurassic probably. Not determinable in more detail. None of the trigoniid bivalve species have been described, and their biostratigraphic distribution is not known.

 20⁷87



T. P. Poulton

Palaeontology Subdivision,
 Institute of Sedimentary and Petroleum Geology,
 Geological Survey of Canada.

July 15, 1987

Report on 1 collection of Jurassic or Cretaceous fossils collected by R. V. Kirkham in Iskut River maparea, B.C. in 1987 (NTS 1048/9).

(Ottawa)

"The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision."

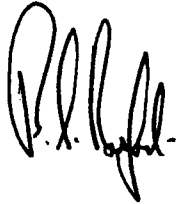
C-103906. R.V. Kirkham, 1987. Field No. KQ-87-122B. On cliff-forming ridge north of upper Mitchell Glacier, elev. about 5000 ft; UTM 6267000N 427400E. Lat. 56°33'N, Long. 130°10'40"W. Iskut River map-area, B.C. Massive sandstone between two thick lapilli tuff units. Large limy concretions in sandstone; fossils from talus and in place.

Identifications:

Entolium(?) sp.

Myophorella(?) sp.

Age: Middle or Upper Jurassic(?), or Early Cretaceous(?)



T. P. Poulton

Paleontology Subdivision
Institute of Sedimentary and Petroleum Geology
Geological Survey of Canada
Calgary, Alberta.
April 7, 1988

Report No. J2-1990-TPP

Report on 1 collection of Jurassic fossils collected by R. V. Kirkham in Iskut River map area, B.C., in 1989 (NTS 104B/9).

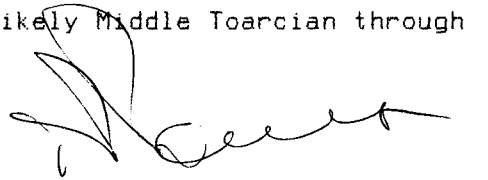
"The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision."

104582. R.V. Kirkham, 1989. Field No. KQ-89-121D. Near top of ridge south of east arm of Treaty Glacier. UTM 431820/ 6271670 Lat. 56°35'24"N, Long. 130°06'36"W. Iskut River map-area, B.C. (NTS 104B/09). Interlayered limy, dark grey clastic sedimentary rocks and volcanic units.

Identifications:

ammonite, indet. small fragment, deformed, not determinable
trigoniid bivalve (?)
rhynchonellid brachiopod (?)
belemnite, indet.

Age: probably Jurassic, most likely Middle Toarcian through Callovian



T. P. Poulton

Godfrey S. Nowlan

Paleontology Subdivision
Institute of Sedimentary and Petroleum Geology
Geological Survey of Canada
Calgary, Alberta.
February 27, 1990

Report on 6 collections of Jurassic fossils collected by R.V. Kirkham in Sulphurets area, Iskut River and Smithers map areas, B.C. in 1991 (NTS 104B, 93L).

The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision.

O-105272. Field No. KQ-91-61. North of Mitchell Glacier, Lat. 56° 33'N, Long. 130° 11'30"W. Mt. Dilworth Formation, limy fossiliferous sandstone/conglomerate interbedded with rhyolite.

Identifications:

Pleuromya sp.

Age: Jurassic probably, not differentiable; Toarcian(?) according to collector

O-105273. Field No. KQ-91-71. Small nunatak in high icefield between Mitchell and Knipple glaciers, Lat. 56° 30'10"N, Long. 130° 09'10"W. base of Salmon River Formation; fossiliferous, limy, gritty sandstone beds. Same as KQ-91-71?(?).

Identifications:

Plagiostoma(?) sp.

Cucullaea(?) sp.

Lima sp.

Myophorella two species

Pleuromya sp.

bivalves, indet.

Age: Early Bajocian probably

O-105274. Field No. KQ-91-71?. Collector suggests this could be part of collection O-105273, mistakenly separated. (See locality and age data there.) The two collections are not closely similar in their fossil composition, but the respective fossils are compatible, having been found together in a familiar association elsewhere, and the lithologies are similar.

Identifications:

Myophorella sp. aff. *dawsoni* (Whiteaves)

Myophorella sp. aff. *taylori* Poulton

Myophorella sp. aff. *freboldi* Poulton

Astarte sp.

bivalves, indet.

belemnites, indet.

Age: Aalenian or Early Bajocian probably; a Toarcian to Oxfordian range is possible

Same locality

O-105275. Field No. KQ-91-95C. Top of high ridge between Mitchell Glacier and Hanging Glacier to the south, Lat. 56°30'30"N, Long. 130°11'40"W.

Identifications:

gastropods, indet. Very small, in limestone

Age: Not determinable

O-105276. Field No. KQ-91-121A. Ridge north of Atkins Glacier, Lat. 56°36'20"N, Long. 130°11'W. Limy sandstone with shelly fossils.

Identifications:

Plagiostoma(?) sp.

Weyla acutiplicata (Meek)

Weyla alata (von Buch)(?)

Homomya(?) sp.

Lima(?) sp.

bivalves, indet.

gastropods, indet.

Atractites(?) sp.

echinoid(?) sp.

coral, indet.

Age: Late Sinemurian or Early Pliensbachian probably

O-105277. Field No. KQ-91-39B. Ashman Ridge, Smithers map area. Lat. 54°50'N, Long. 127°51'W. near base of Smithers Formation.

Identifications:

Ctenostreon sp.

Oxytoma(?) sp.

Ostrea sp.

rhynchonellid brachiopod, indet.

Age: Early Bajocian probably

Comments: The collections were submitted together with two photographs of corals in outcrop. The abundance of the corals, their variety and their size certainly indicates reef development, but nothing more can be said about them from photographs alone. If they are indeed Jurassic, then they represent a very rare occurrence. The outcrops may be of interest to Dr. George D. Stanley, University of Montana, Missoula (phone 406-243-5693), who has studied in detail the only other known Jurassic coral reef in western Canada. This reef was initially described by Poulton (1989: CSPG Mem. 13, p. 754-757).

Godfrey S. Nowlan

Paleontology Subdivision
Institute of Sedimentary and Petroleum Geology
Geological Survey of Canada
Calgary, Alberta
April 29, 1992

T. P. Poulton
T. P. Poulton

Sulphurets, B.C.
RVK 1991 Fossil Collections (104B/8,9)

16 March 1992

Lat. & Long.

- KQ-91-61-56°33' 130°11'30" - North of Mitchell Glacier - limy fossiliferous sandstone and conglomerate interbedded with rhyolite - Mount Dilworth Formation - Toarcian?- solitary pelecypod-many fossils in area but poor preservation.
- KQ-91-71-56°30'10" 130°9'10" - small nunatak in high icefield between Mitchell and Knipple glaciers - ~2 to 3 fossiliferous beds in limy, gritty sandstone at base of Salmon River Formation on top of Mount Dilworth rhyolite - Toarcian? - mainly pelecypods and belemnites.
- KQ-91-71?-56°30'10" 130°9'10" - probably same location as KQ-91-71 but 3 unlabelled small sample bags were mistakenly removed from the large numbered bag. Terry Poulton can probably confirm that they are from the same locality. There are no other collections to confuse them with but I do not want to put them back with the other fossils once they were removed.
- KQ-19-95C 56°30'30" 130°11'40" - top of high ridge between Mitchell Glacier and Hanging Glacier to the south
- minute gastropods in concretion in dark, carbonaceous lithographic limestone (also contains pseudomorphs after some crystals).
- KQ-91-121A-56°36'20" 130°11' - ridge north of Atkins Glacier B.C. - limy sandstone with ammonite, pelecypods and gastropods - Lower Jurassic.
- Smithers Area, B.C. (93L/13)
- KQ-91-39B-54°50' 127°51' - Ashman Ridge type section
- Float of large Weyla-type specimen from near base of Smithers Formation
- collected because of it is a nice specimen
- reference Tipper and Richards, 1976, GSC Bull. 270, p. 57.



TO
A

Dr. A. R. Cameron

FROM
DE

R. V. Kirkham

SUBJECT
OBJET

Samples metamorphosed coal

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE - N / RÉFÉRENCE
YOUR FILE - V / RÉFÉRENCE
DATE March 16/92

Dear Alex,

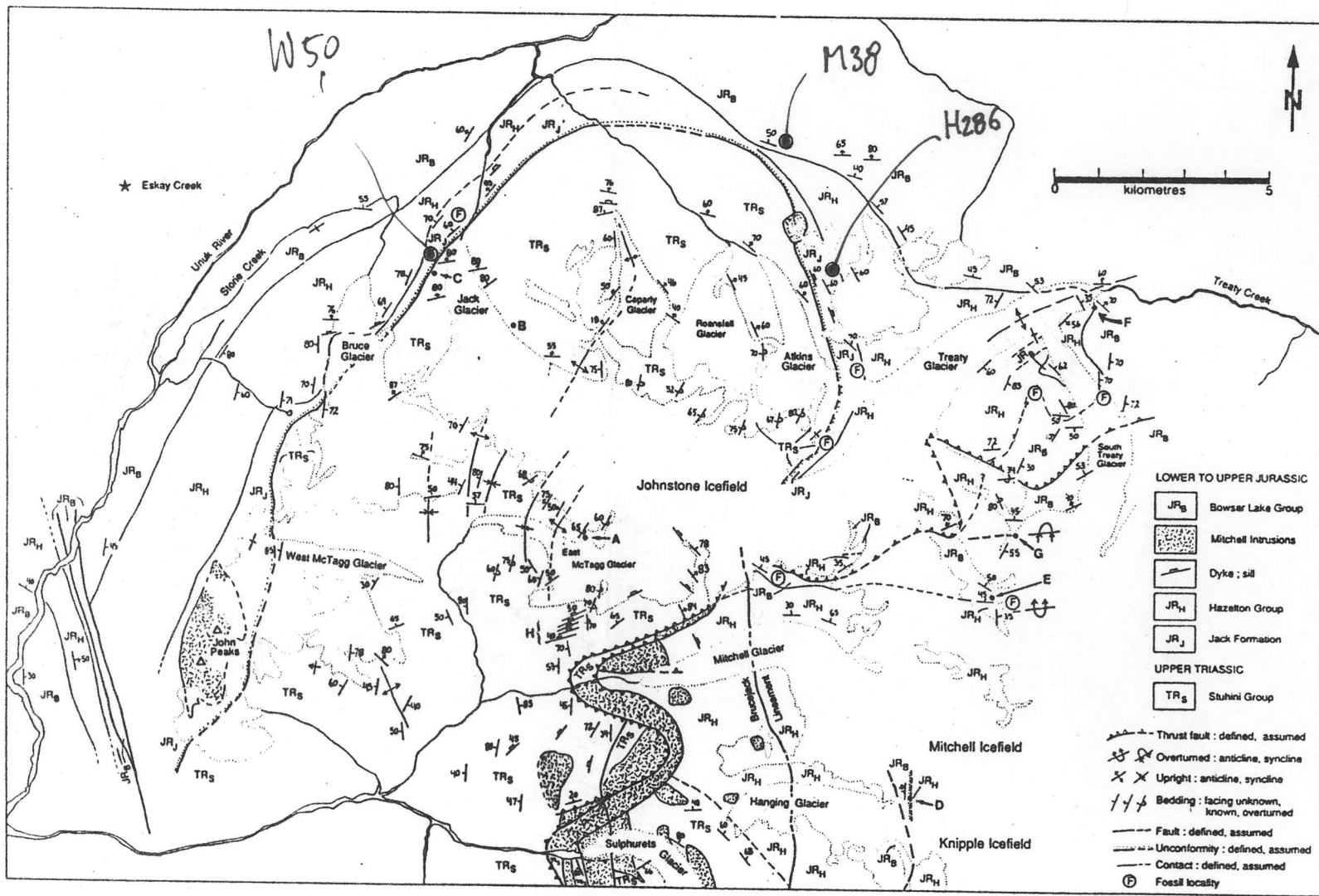
Enclosed are two samples of metamorphosed coal that I said that I would send. RK-64-42A is from the Toboggan Glacier area, Hudson Bay Mountain, B.C. (93L/13 about 54° 50' 30"N; 127° 20' 30"W) and KQ-91-107A is from northwest of the Jack Glacier near Storie Creek (104B/9 about 56° 30' N; 130° 19' 30"W). RK-64-42A is still vitreous but KQ-91-107A could be petrified with no organic material remaining.

You said that you could make reflectance measurements on these that would give some idea of their thermal histories.

Thanks in advance for any information that you can send.

Best regards,
Rod Kirkham

Fossil Localities
1991





TO
A

M. J. Orchard

FROM
DE

R. V. Kirkham

SUBJECT
OBJET

Conodont (radiolaria) samples from Sulphurets area, B.C.

Mike,

Three more samples to check for conodonts (rads) (KQ-90-146C, 160A & 160B) (104B/8).

KQ-90-146C - north ~~side~~ of Sulphurets Glacier about 6262000mN and 423000mE.

KQ-90 & 160A & B - 2 beds same area south of Brucejack Creek about 6258800mN and 426000mE.

Let me know the results.

Best regards
Rod Kirkham

SECURITY - CLASSIFICATION - DE SÉCURITÉ

OUR FILE - N / RÉFÉRENCE

YOUR FILE - V / RÉFÉRENCE

DATE

October 26/90