

## Report No. J3-1992-TPP

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),

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April 29, 1992

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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.