

Additions to the New Brunswick Museum Palaeontology Type Collection (1988-1996)

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[See table of contents](#)

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Article abstract

Since publication of the New Brunswick Museum's first catalogue of type fossils in 1988, over 240 specimen records have been added to the collection of primary and secondary types. The list includes fossils recovered from the collection of G.F. Matthew that are considered to have type, or probable type, status. New specimens resulting from publications since 1988 include invertebrates, ichnofossils and vertebrates.

Additions to the New Brunswick Museum Palaeontology Type Collection (1988-1996)

Randall F. Miller

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Since publication of the New Brunswick Museum's first catalogue of type fossils in 1988, over 240 specimen records have been added to the collection of primary and secondary types. The list includes fossils recovered from the collection of G.F. Matthew that are considered to have type, or probable type, status. New specimens resulting from publications since 1988 include invertebrates, ichnofossils and vertebrates.

Depuis la publication du premier catalogue de fossiles stratigraphiques du Musée du Nouveau-Brunswick en 1988, on a ajouté plus de 240 enregistrements de spécimens à la collection de types primaires et secondaires. La liste englobe des fossiles provenant de la collection de G.F. Matthews, considérés comme des fossiles de types définis ou de types et valeurs probables. Les nouveaux spécimens découlant des communications publiées depuis 1988 comprennent des invertébrés, des ichnofossiles et des vertébrés.

[Traduit par la rédaction]

INTRODUCTION

When the New Brunswick Museum (NBM) published its Catalogue of Type Fossils (Miller, 1988a), it was the institution's first compilation of primary and secondary type specimen records. This historically important collection dates back to the mid-1800s and includes specimens from Gesner's 1837 to 1842 geological survey of the province. Many of the specimens belonged to the Natural History Society of New Brunswick (Miller and Buhay, 1988). Research on collection development has assisted in documenting older material, and aspects of the collection's history have recently been published (Landing and Miller, 1988; Miller and Buhay, 1988; Miller, 1988b, 1994). Since 1988, over 240 specimens have been added to the type collection. This includes material studied in the nineteenth to early twentieth century by G.F. Matthew as well as new specimens added in recent years, primarily by R.K. Pickerill and colleagues (ichnofossils and invertebrates), H.J. Hofmann and I.M. Patel (ichnofossils), E. Landing (small shelly fossils) and R.F. Miller (invertebrates and vertebrates). This list and the previous type catalogue (Miller, 1988a) include Cited and Referred Specimens found in older literature that may be of interest to researchers seeking specimens. Notes on the revision of type specimens (Fillion and Pickerill, 1990; Miller, 1990a, 1995a, 1995b, 1996a) and the transfer of types to the NBM collection (Miller, 1989; Pickerill, 1990) have appeared since 1988.

NBM PALAEOLOGY COLLECTION

This list contains additions to the type collection since 1987-88, and includes references published, or in press, at

the end of 1996. Records are presented in the same order used in the museum's first catalogue, and are maintained on a computer database using INMAGIC® software. Information concerning type or other fossils can be obtained by writing the Curator of Geology, New Brunswick Museum, 277 Douglas Avenue, Saint John, New Brunswick E2K 1E5, Canada. The type status of older specimens marked with "?" indicates uncertainty. It is often difficult to determine if fossils in the Matthew collection are actually figured in his publications. However, so much of the older material has been inaccessible for so long, it is important to make researchers aware specimens do in fact exist. A summary of the type holdings of the NBM is presented below.

Total Specimen (Lots) in NBM Palaeontology Collection: 8,217

Type Holdings: Holotypes 56, Syntypes 148, Paratypes 35, Paralectotypes 14, Figured/Cited/Referred 573; Miscellaneous/Unconfirmed 65

Phyla Represented by Holotypes: 8 (incl. Ichnotaxa, Problematica)

Time Coverage: Late Precambrian to Quaternary
Publications Referring to Collection - Total: 193

Brachiopoda

Strophomena atava Matthew: Syntype NBMG 4553; 4554; 4555

Matthew, 1893. Trans. Roy. Soc. Can. 10, sec. IV, p. 102. Silver Falls Fm., Cambrian/Ordovician, Navy Island, Saint John, New Brunswick.

Remarks: One specimen labelled type, uncertain if figured. See: ROM catalogue, p.46, *Eoorthis atava* (Matthew).

Mollusca

Aldanella attleborensis (Shaler and Foerste): Fig. Spec. NBMG 10031

Landing, 1996. Can. J. Earth Sci. 33, p. 1189, fig. 5b,c.
Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

"*Allatheca*" *degeeri* (Holm): Fig. Spec. NBMG 10036; 10037
Landing, 1996. Can. J. Earth Sci. 33, p. 1189, fig. 5h,i.
Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

Buccinum undatum Linnaeus: Ref. Spec. NBMG 8544
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Chlamys islandicus (Müller): Ref. Spec. NBMG 8539
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Coleoloides typicalis Walcott: Fig. Spec. NBMG 10038
Landing, 1996. Can. J. Earth Sci. 33, p. 1189, fig. 5j.
Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

Hiatella arctica (Linné): Ref. Spec. NBMG 8538
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Maetra Linné: Ref. Spec.? NBMG 4230
Chalmers, 1890. Annual Report Part N, IV, Geol. Surv. of
Can., p. 64N.
Quaternary, Quaco, New Brunswick.
Remarks: One specimen, possibly referred to by Chalmers
(1890).

Mya calcarea (Gmelin): Ref. Spec. NBMG 8541
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Mya truncata Linné: Ref. Spec. NBMG 8540
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Natica clausa Broderip and Sowerby: Ref. Spec. NBMG 8543
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Serripes groenlandicus (Bruguière): Ref. Spec. NBMG 8542
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Solen Linné: Ref. Spec.? NBMG 4272
Chalmers, 1890. Annual Report Part N, IV, Geol. Surv. of
Can., p. 64N.
Quaternary, Quaco, New Brunswick.
Remarks: two specimens, possibly referred to by Chalmers
(1890).

Arthropoda

Balanus crenatus Bruguière: Ref. Spec. NBMG 10088
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Balanus hameri Ascon: Ref. Spec. NBMG 8545
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Coleoptera: Ref. Spec. NBMG 3868-3905
Miller *et al.*, 1987. Can. J. Earth Sci. 24, p. 2099.
Quaternary, Evertt, Ontario.
Remarks: Multiple specimens per slide, additional material
in vials.

Leaia silurica Matthew: Holotype NBMG 4573/1,2
Matthew, 1910. Trans. Roy. Soc. Can., 3 (4), p. 115, pl. IV,
fig. 3.
Cumberland Gp., Lancaster Fm., Pennsylvanian, Saint John,
New Brunswick.
Remarks: Status reviewed by Miller (1995a).

Pterygotus anglicus Agassiz: Fig. Spec. NBMG 9774/1,2;
9775
Miller, 1996b. Atlan. Geol. 32, p. 96, figs. 3a-c.
Campbellton Fm., Devonian, Atholville, New Brunswick.

Annelida

Byronia annulata Matthew: Holotype? NBMG 3154
Matthew, 1899a. Trans. Roy. Soc. Can. 5 (4), p. 42, pl. 1,
fig. 2.
Stephen Fm., Cambrian, Mount Stephen, British Colum-
bia.
Remarks: Although the original figure caption suggests a
complete tube was examined, this may be Matthew's holo-
type. Holotype not at ROM.

Chancelloria sp.: Fig. Spec. NBMG 10039; 10040
Landing, 1996. Can. J. Earth Sci. 33, p. 1189, fig. 5k,l.
Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

Trentonia shegiriana Pickerill and Forbes: Holotype NBMG
6501
Pickerill and Forbes, 1978. Can. J. Earth Sci. 15, p. 661,
fig. 2,3.
Trenton Gp., Ordovician, near Quebec City, Quebec.
Remarks: Transfer of specimen to NBM cited in Pickerill
(1990a).

Urotheca flagellum Matthew: Ref. Spec.? NBMG 3152
Matthew, 1899a. Trans. Roy. Soc. Can. 5 (4), p. 40.
Stephen Fm., Cambrian, Mount Stephen, British Colum-
bia.
Remarks: This specimen found in same box as NBMG 3153,
not specifically identified. Holotype at ROM.

Urotheca parva Matthew: Ref. Spec.? NBMG 3153
Matthew, 1899a. Trans. Roy. Soc. Can. 5 (4), p. 41.
Stephen Fm., Cambrian, Mount Stephen, British Columbia.
Remarks: This specimen found in same box as NBMG 3152, not specifically identified. Holotype at ROM.

Echinodermata

Ophiura sarsi Lütken: Fig. Spec. NBMG 4007/1-4; Cited Spec. NBMG 4561; 4575; 4578; 6014; 8349; 8350; 8440
Miller and McAlpine, 1991. Atlan. Geol. 27, p. 111, fig. 3a,b.
Quaternary, Saint John, New Brunswick.
Remarks: NBMG 4007 may be specimens of *Ophioglypha sarsii* referred to by Dawson (1893, p. 218) as occurring in Leda clay, near Saint John, New Brunswick.

Ophiura cf. *O. sarsi* Lütken: Cited Spec. NBMG 4560; 4577; 4622-4627; 6015; 8347; 8348
Miller and McAlpine, 1991. Atlan. Geol. 27, p. 113.
Quaternary, Saint John, New Brunswick.

Strongylocentrotus droebachiensis Müller: Fig. Spec. NBMG 4246; Cited Spec. NBMG 4640
Miller and McAlpine, 1991. Atlan. Geol. 27, p. 112, fig. 2a-e.
Quaternary, Saint John, New Brunswick.

Strongylocentrotus droebachiensis Müller: Cited Spec. NBMG 8537
Thomas *et al.*, 1973. Can. J. Earth Sci. 10, p. 1330.
Quaternary, Shippegan, New Brunswick.

Monobathrid camerate gen. et sp. indet.: Fig. Spec. NBMG 9942-9944; Cited Spec. NBMG 9945
Donovan and Pickerill, 1995. Atlan. Geol. 31, p. 82, figs. 2-4.
Arisaig Gp., Moydart Fm., Arisaig, Nova Scotia.

Other

Camenella baltica (Bengston): Fig. Spec. NBMG 10033; 10034
Landing, 1996. Can. J. Earth Sci. 33, p. 1189, fig. 5e,f.
Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

Halkieria sp.: Fig. Spec. NBMG 10041-10043
Landing, 1996. Can. J. Earth Sci. 33, p. 1189, fig. 5m-o.
Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

Sunnaginia imbricata Missarzhevsky: Fig. Spec. NBMG 10032
Landing, 1996. Can. J. Earth Sci. 33, p. 1189, fig. 5d.
Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

Volborthella tenuis Schmidt: Ref. Spec.? NBMG 8027/1,2
Matthew, 1890a. Trans. Roy. Soc. Can. 7 (4), p. 156, pl. 8, fig. 5a,b.

Yochelson (1981) U.S.G.S., Open File Report 81-743, p. 246.
Saint John Gp., Ratcliffe Brook or Hanford Brook Fm., Cambrian, Belyeas Landing, New Brunswick.
Remarks: uncertain if these are Matthew's figured specimens.

Ichnotaxa/Trace Fossils

Arenicolites ichnosp.: Cited Spec. NBMG 4404
Fillion and Pickerill, 1990. Palaeontographica Canadiana No. 7, p. 19.
Cambrian/Ordovician, Great Bell Island, Conception Bay, Newfoundland.
Remarks: may be part of suite noted by Matthew (1899b, pp. 71-72) as *Arenicolites antiquatus*.

Arthraria antiquata Billings: Cited Spec. NBMG 4557
Fillion and Pickerill, 1990. Palaeontographica Canadiana No. 7, p. 20.
Cambrian/Ordovician, Great Bell Island, Conception Bay, Newfoundland.
Remarks: may be part of suite noted by Matthew (1899b, pp. 71-72) as *Arenicolites antiquatus*.

Arthropodichnus chelopodus Greiner: Holotype NBMG 4615; Paratype NBMG 4616
Greiner, 1972. Can. J. Earth Sci. 9, p. 1776, figs. 11, 12, 13.
Jacquet River Fm., Devonian, Jacquet River, Kettlehole, New Brunswick.
Remarks: transfer of specimens to NBM cited in Miller (1989).

Arthropodichnus jacquetensis Greiner: Holotype NBMG 4608; Paratype NBMG 4609-4614
Greiner, 1972. Can. J. Earth Sci. 9, p. 1774, fig. 1-8.
Jacquet River Fm., Devonian, Jacquet River, Kettlehole, New Brunswick.
Remarks: probably *Protovirgularia dichotoma* M'Coy, according to Han and Pickerill (1994b). Transfer of specimens to NBM cited in Miller (1989).

Bichordites monastiriensis Plaziat and Mahmoudi: Fig. Spec. NBMG 8612-8619
Pickerill *et al.*, 1992. Ichnos 2, p. 2, fig. 3a-l.
Quaternary, St. Thomas, Jamaica.

Compaginatichnus forbesi Pickerill: Holotype NBMG 4595; Paratype NBMG 4596-4600
Pickerill, 1989. J. Paleont. 63, p. 914, figs. 2, 3, 4.
Matapedia Gp., Ordovician, confluence of Upsalquitch and Restigouche rivers, New Brunswick.

Cosmorhappe cf. *gracilis* Książkiewicz: Fig. Spec. NBMG 8844
Pickerill *et al.*, 1993a. Atlan. Geol. 29, p. 62, fig. 2a.
Richmond Fm., Tertiary, Port Maria, Jamaica.

- Cruziana semiplicata* Salter: Cited Spec. NBMG 4402; 4403
Fillion and Pickerill, 1990. *Palaeontographica Canadiana*
No. 7, p. 27.
Cambrian/Ordovician, Great Bell Island and Kelly's Island,
Conception Bay, Newfoundland.
- Cruziana* ichnosp.: Fig. Spec. NBMG 9946
Pickerill, 1995. *Atlan. Geol.* 31, p. 104, fig. 2.
Lotbinière Fm., Ordovician, Montmorency Falls, Quebec.
- Dactyloidites otto* (Geinitz): Fig. Spec. NBMG 8603; 8604
Pickerill *et al.*, 1993b. *J. Paleont.* 67, p. 1073, figs. 2.6, 3.
Tertiary, Round Hill, Farquars Beach, Jamaica.
- Diplichnites* ichnosp. C: Cited Spec. NBMG 4402
Fillion and Pickerill, 1990. *Palaeontographica Canadiana*
No. 7, p. 32.
Cambrian/Ordovician, Great Bell Island, Conception Bay,
Newfoundland.
- Helminthopsis abeli* Książkiewicz: Fig. Spec. NBMG 9670-9676
Han and Pickerill, 1995. *Ichnos* 4, p. 103, figs. 7a-e, 8a,b.
Tobique Gp., Wapske Fm., Devonian, New Brunswick.
- Helminthopsis cf. granulata* Książkiewicz: Fig. Spec. NBMG
9682
Han and Pickerill, 1995. *Ichnos* 4, p. 107, fig. 9f.
Tobique Gp., Wapske Fm., Devonian, New Brunswick.
- Helminthopsis hieroglyphica* Heer: Fig. Spec. NBMG 9676-9681
Han and Pickerill, 1995. *Ichnos* 4, p. 107, figs. 8b, 9a-e.
Tobique Gp., Wapske Fm., Devonian, New Brunswick.
- Helminthopsis* ichnosp.: Fig. Spec. NBMG 9683
Han and Pickerill, 1995. *Ichnos* 4, p. 109, fig. 10.
Tobique Gp., Wapske Fm., Devonian, New Brunswick.
- Helminthoidichnites tenuis* Fitch: Hypotype NBMG 4008
Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 141, fig. 2a.
Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford
Brook, New Brunswick.
- Lobichnus variabilis* Kemper: Fig. Spec. NBMG 9938
Norman and Pickerill, 1996. *Ichnos* 4, p. 234, fig. 3.
Devonian, Dockendorff Group, Chapman Sandstone, Presque
Isle, Maine.
- Lockeia avalonensis* Fillion and Pickerill: Cited Spec. NBMG
4399
Fillion and Pickerill, 1990. *Palaeontographica Canadiana*
No. 7, p. 39.
Cambrian/Ordovician, Great Bell Island, Conception Bay,
Newfoundland.
- Lockeia siliquaria* James: Cited Spec. NBMG 4399
Fillion and Pickerill, 1990. *Palaeontographica Canadiana*
No. 7, p. 39.
Cambrian/Ordovician, Great Bell Island, Conception Bay,
Newfoundland.
- Monocraterion* ichnosp.: Fig. Spec. NBMG 4009
Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 141, fig. 2c.
Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford
Brook, New Brunswick.
- Monomorphichnus lineatus* Crimes, Legg, Marcos and Arboleya:
Cited Spec. NBMG 4402
Fillion and Pickerill, 1990. *Palaeontographica Canadiana*
No. 7, p. 42.
Cambrian/Ordovician, Great Bell Island, Conception Bay,
Newfoundland.
- Neonereites multiserialis* Pickerill and Harland: Fig. Spec.
NBMG 8375-8377
Pickerill, 1991. *Atlan. Geol.* 27, p. 121, fig. 2.
Tobique Gp., Wapske Fm., Devonian, Little Tobique River,
New Brunswick.
- Palaeochorda setacea* Matthew: Syntype? NBMG 8178
Matthew, 1890a. *Trans. Roy. Soc. Can.* 7 (4), p. 145.
Saint John Gp., Hanford Brook Fm., Cambrian, Hanford
Brook, New Brunswick.
- Paleodictyon* ichnosp.: Fig. Spec. NBMG 6460
Pickerill, 1990b. *Atlan. Geol.* 26, p. 159, fig. 3.
Albert Fm., Mississippian, Norton, New Brunswick.
- Paleodictyon ?* ichnosp.: Fig. Spec. NBMG 8845
Pickerill *et al.*, 1993a. *Atlan. Geol.* 29, p. 64, fig. 2c.
Richmond Fm., Tertiary, Port Maria, Jamaica.
- Palaeophycus tubularis* Hall: Fig. Spec. NBMG 4010/3,4,5
Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 141, fig. 2d.
Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford
Brook, New Brunswick.
- Palaeophycus tubularis* Hall: Cited Spec. NBMG 4398; 4399;
4400; 4401
Fillion and Pickerill, 1990. *Palaeontographica Canadiana*
No. 7, p. 45.
Cambrian/Ordovician, Great Bell Island, Conception Bay,
Newfoundland.
- Paleophycus* ichnosp.: Cited Spec. NBMG 4556; 4557
Fillion and Pickerill, 1990. *Palaeontographica Canadiana*
No. 7, p. 46.
Cambrian/Ordovician, Great Bell Island, Conception Bay,
Newfoundland.
Remarks: may be part of suite noted by Matthew (1899b,
pp. 71-72) as *Arenicolites antiquatus*.
- "pascichnia": Fig. Spec. NBMG 4617; 4618
Greiner, 1972. *Can. J. Earth Sci.* 9, p. 1772, fig. 9, 10.
Jacquet River Fm., Devonian, Jacquet River, Kettlehole, New
Brunswick.
Remarks: probably *Helminthopsis abeli*, according to Han
and Pickerill (1995). Transfer of specimens to NBM cited
in Miller (1989).

Phycodes templus Han and Pickerill: Holotype NBMG 9202; Paratype NBMG 9203-9209

Han and Pickerill, 1994a. *Atlan. Geol.* 30, p. 39, figs. 2 to 4.

Tobique Gp., Wapske Fm., Devonian, Riley Brook, New Brunswick.

Phycodes templus Han and Pickerill: Fig. Spec. NBMG 9812
Pickerill *et al.*, 1995. *Atlan. Geol.* 31, p. 3, fig. 2.

Dockendorff Gp., Chapman Sandstone, Presque Isle, Maine.

Planolites ichnosp.: Fig. Spec. NBMG 4011/6,7

Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 141, fig. 2b.

Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford Brook, New Brunswick.

Protovirgularia dichotoma M'Coy: Fig. Spec. NBMG 9336-9340; 9342; 9347; 9348; 9351; 9352; Cited Spec. NBMG 9334; 9335; 9341; 9343; 9344-9346; 9349; 9350; 9353

Han and Pickerill, 1994b. *Ichnos* 3, p. 204, figs. 2 to 5.

Tobique Gp., Wapske Fm., Devonian, Riley Brook-Nictau, New Brunswick.

Psammichnites gigas (Torell): Fig. Spec. NBMG 4011/1-5; 4012

Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 145, figs. 3a-c, 4a-e, 5.

Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford Brook, New Brunswick.

Psammichnites ichnosp.: Fig. or Cited Spec.? NBMG 4565
Matthew, 1891. *Trans. Roy. Soc. Can.* 8 (4), p. 157.

Cambrian, Tabors Bridge, Hammond River, New Brunswick.
Remarks: uncertain if this is Matthew's figured or cited specimen.

Rusophycus ichnosp.: Fig. Spec. NBMG 9946

Pickerill, 1995. *Atlan. Geol.* 31, p. 104, fig. 2.

Lotbinière Fm., Ordovician, Montmorency Falls, Quebec.

Subphyllochorda ? ichnosp.: Fig. Spec. NBMG 4010/1,2

Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 147, fig. 2d,e.

Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford Brook, New Brunswick.

Taenidium barretti (Bradshaw): Fig. Spec. NBMG 9074; 9216; 9217

Keighley and Pickerill, 1994. *Palaeontol.* 37, p. 327, pl. 1, fig. 6a,b,c.

Pomquet Fm., Carboniferous, Grand Étang, Nova Scotia.

Taphrhelminthoidea cf. *T. circularis* Crimes *et al.*: Fig. Spec. NBMG 4015

Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 155, fig. 4g.

Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford Brook, New Brunswick.

Taphrhelminthoidea dailyi Hofmann and Patel: Holotype NBMG 4013/1; Paratype NBMG 4013/2; Fig. Spec. NBMG 4014

Hofmann and Patel, 1989. *Geol. Mag.* 126, p. 148, figs. 4f, 6a-f, 7.

Saint John Gp., Ratcliffe Brook Fm., Cambrian, Hanford Brook, New Brunswick.

Problematica/Pseudofossils

"Eozoon canadense" Dawson: Ref. Spec.? NBMG 8576; 8577

Matthew, 1890b. *Nat. Hist. Soc. N.B. Bull.*, No. 9, p. 36.

Precambrian, Saint John, New Brunswick.

Remarks: these are possibly the "Eozoon" specimens referred to by Matthew.

"Lepidostrobus": Fig. Spec. NBMG 8428

Matthew, 1907. *Trans. Roy. Soc. Can.* 1 (4), p. 185, fig. 1

Fyffe and Miller, 1992. *Atlan. Geol.* 28, p. 216, fig. 5.

Silurian, Flume Ridge Fm./Digdeguash Fm., Cox's Brook, New Brunswick.

Remarks: not a plant fossil, but a metamorphic feature.

"Orthoceratite": Ref. Spec.? NBMG 8620

Richardson, 1871. *Geol. Surv. Can.*, 1870-71, p. 295.

Silurian?, Mistassini, Quebec.

Remarks: may be specimen or from group of specimens mentioned by Richardson (1871) and possibly the specimen noted by Matthew (1891).

Torellella laevigata (Holm): Fig. Spec. NBMG 10035

Landing, 1996. *Can. J. Earth Sci.* 33, p. 1189, fig. 5g.

Fosters Point Fm.?, Cambrian, Cradle Brook, New Brunswick.

Chordata

"Crossopterygian": Fig. Spec. NBMG 4607

Greiner, 1977. *J. Paleont.* 51, p. 50 pl. 1, fig. 2.

Albert Fm., Mississippian, Irishtown, New Brunswick.

Remarks: transfer of specimens to NBM cited in Miller (1989).

Latvius porosus Greiner: Holotype NBMG 4605; Paratype NBMG 4603 a,b; 4604; Fig. Spec. NBMG 4606

Greiner, 1977. *J. Paleont.* 51, p. 44, pl. 1, figs. 1, 3 to 7, text figs. 2 to 8.

Albert Fm., Mississippian, Irishtown, New Brunswick.

Remarks: transfer of specimens to NBM cited in Miller (1989).

cf. *Megaptera novaeangliae* (Borowski): Cited Spec. NBMG 4586/1-11

Miller, 1990b. *Atlan. Geol.* 26, p. 102.

Quaternary, Grande Anse, New Brunswick.

Odobenus rosmarus Linnaeus: Fig. Spec. NBMG 4559; 4584; 4585; 4587

Miller, 1990b. *Atlan. Geol.* 26, p. 98, fig. 2a,b,c,d.

Quaternary, Bay of Fundy; Portage Island; St. Paul Village; Beresford, New Brunswick.

Odobenus rosmarus Linnaeus: Cited Spec. NBMG 4583; 4588-4593

Miller, 1990b. *Atlan. Geol.* 26, p. 103.

Quaternary, Granville Ferry, New Brunswick; Pictou Island, Nova Scotia; Gulf of St. Lawrence and Georges Bank.

Odobenus rosmarus Linnaeus: Cited Spec. NBMG 8621; 8722; 9105; 10026; 10029; 10045

Miller, 1997a. *Géograph. phys. et Quatern.* 51, p. 108.

Quaternary, Bay of Fundy, New Brunswick.

Megaplants

Annularia latifolia minor Dawson: Holotype NBMG 3416
Matthew, 1906. *Trans. Roy. Soc. Can.* 12 (4), p. 126, pl. VII, fig. 4.

Cumberland Gp., Lancaster Fm., Pennsylvanian, Saint John, New Brunswick.

Cardiocarpon cornutum Dawson: Fig. Spec. NBMG 7123
Stopes, 1914. *Geol. Surv. Can., Mem.* 41, p. 89, pl. XXIII, fig. 62.

Cumberland Gp., Lancaster Fm., Pennsylvanian, Saint John, New Brunswick.

Dadoxylon ouangondianum Dawson: Fig. Spec. NBMG 8623
Matthew, 1910. *Trans. Roy. Soc. Can.* 3 (4), p. 77, pl. 1.
Cumberland Gp., Lancaster Fm., Pennsylvanian, Saint John, New Brunswick.

Remarks: loaned by Matthew to J.W. Dawson, listed by Matthew as a cotype, may be part of syntype series examined by Dawson (1861, p. 165).

Dicranophyllum glabrum Dawson: Fig. Spec. NBMG 2130
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Cumberland Gp., Lancaster Fm., Pennsylvanian, Saint John, New Brunswick.

Pecopteris miltoni Artis: Fig. Spec. NBMG 7311
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Cumberland Gp., Lancaster Fm., Pennsylvanian, Saint John, New Brunswick.

Rhizomorpha lichenoides Matthew: Holotype NBMG 8182
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Remarks: assigned to the genus *Thallites* by Lundblad (1954).

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