

CHECKLIST OF NEWFOUNDLAND NON-MARINE MOLLUSCA

A. LA ROCQUE

The list given herewith is the fourth of a proposed series (see STERKIANA 1: 19-22). Earlier lists for Ohio appeared in STERKIANA (1: 23-49), for Wyoming (3: 1-9), and for New Brunswick (3: 40-42).

The non-marine Mollusca of Newfoundland present extraordinary interest first, because their presence on this island may throw some light on the connection, if any, of the island with the mainland since Pleistocene glaciation and second, because of the unusually large European element represented. The island has been visited by Europeans for more than four centuries; therefore, this large immigrant contingent may be explained quite naturally. It has given rise to some speculation involving even a possible Pleistocene connection with Europe but evidence for this is extremely tenuous. Nevertheless, a detailed list of the species that do occur on the island is necessary background for discussion.

The non-marine Mollusca of Newfoundland are particularly well-known thanks to papers by Vanatta (1925, 1927, 1930) and Brooks and Brooks (1940). The oldest paper cited is that of Packard (1863) but it was preceded by earlier ones, not cited here because their content has been included in later lists.

The list presented here does not pretend to be complete although every effort has been made to render it so. Notes on additions and corrections will be gladly received by the writer or, if they are extensive enough, they may be presented in STERKIANA.

1. NAIADES

1. ANODONTA BROOKSIANA van der Schalie 1938. Brooks and Brooks 1940: 75. La Rocque 1953: 87.

2. ANODONTA MARGINATA Say 1817. Vanatta 1925: 93, Junction Pond, Whitbourne; Vanatta 1927: 114, Otter Pond near Plum Point. Brooks and Brooks 1940: 75. La Rocque 1953: 88.

3. MARGARITIFERA MARGARITIFERA (Linnaeus) 1758. Packard 1863: 401-429. Brooks and Brooks 1940: 75. La Rocque 1953: 85.

2. SPHAERIIDAE

4. SPHAERIUM OCCIDENTALE (Prime) 1860. Vanatta 1927: 114, Otter Pond near Plum Point. La Rocque 1953: 114.

3. FRESHWATER PULMONATES

5. FOSSARIA OBRUSSA (Say) 1825. Brooks and Brooks 1940: 75. La Rocque 1953: 285.
6. FOSSARIA OBRUSSA BROOKSI (F. C. Baker) 1935. Brooks and Brooks 1940: 75. La Rocque 1953: 285.
7. FOSSARIA UMBILICATA (C. B. Adams) 1840. Brooks and Brooks 1940: 75. La Rocque 1953: 286.
8. GYRAULUS HORNENSIS F. C. Baker 1934. Brooks and Brooks 1940: 75. La Rocque 1953: 294.
9. GYRAULUS PARVUS (Say) 1817. Vanatta 1927: 114, Otter Pond near Plum Point, East Brook at St. Barbe Bay, Eddies Cove Brook. Brooks and Brooks 1940: 75. La Rocque 1953: 294.
10. HELISOMA CAMPANULATUM (Say) 1821. Brooks and Brooks 1940: 75 (*H. c. minus*). A synonym of the type variety, according to Baker 1928: 345.
11. HELISOMA CAMPANULATUM DAVISI (Winslow) 1926. Brooks and Brooks 1940: 75. La Rocque 1953: 288.
12. HELISOMA CAMPANULATUM FERRISSI F. C. Baker 1945: 452. La Rocque 1953: 289 (not Newfoundland).
13. HELISOMA CAMPANULATUM RUDENTIS (Dall) 1905. Walker 1918: 97. La Rocque 1953: 289.
14. PHYSA GYRINA Say 1821. Vanatta 1927: 114, Otter Pond near Plum Point, Brig Bay. Brooks and Brooks 1940: 75. La Rocque 1953: 298.
15. PHYSA HETEROSTROPHA Say 1817. Brooks and Brooks 1940: 75. La Rocque 1953: 298.
16. (PHYSA MARGARITA Lesson). Walker 1918: 112. Not listed by La Rocque (1953) and probably a synonym of another species.
17. (RADIX PEREGRINA GEISERICOLA Beck). Vanatta 1925: 92-93, Junction Pond, Whitbourne. Not listed by La Rocque (1953). A misidentification?
18. (RADIX PEREGRINA LACUSTRIS). Brooks and Brooks 1940: 75. Not listed by La Rocque (1953). A misidentification?
19. STAGNICOLA NEWFOUNDLANDENSIS Baker and Brooks 1935. Brooks and Brooks 1940: 75. La Rocque 1953: 279.
20. STAGNICOLA PALUSTRIS (Müller) 1774. Vanatta 1925: 93, Sandy Cove and Flower Cove (*Lymnaea* sp.). Vanatta 1927: 114, Cook Point, Pistolet Bay; Schooner Id.; Sandy Cove; Flower Cove; Otter Pond near Plum Point; Brig Bay; Eddie's Cove; Boat Harbour; Big Brooks; Savage Point; St. John's Id. Vanatta 1930: 134, Deer Arm, Bonne Bay; near Old Port au Choix; St. John Bay; Brooks and Brooks 1940: 75. La Rocque 1953: 280.
21. STAGNICOLA PALUSTRIS PAPHYRACEA Baker and Brooks 1935. Brooks and Brooks 1940: 75. La Rocque 1953: 280.
22. STAGNICOLA PALUSTRIS PERPALUSTRIS Baker and Brooks 1935. Brooks and Brooks 1940: 75. La Rocque 1953: 280.

4. FRESHWATER OPERCULATES

23. AMNICOLA LIMOSA (Say) 1817. Brooks and Brooks 1940: 75 (*A. limosa* var.). La Rocque 1953: 267.
24. VALVATA LEWISII Currier 1868. Vanatta 1927: 114, Eddies Cove Brook; Brooks and Brooks 1940: 75. La Rocque 1953: 263.
25. VALVATA SINCERA Say 1824. Brooks and Brooks 1940: 75 (*V. sincera* var.). La Rocque 1953: 264.
26. (VALVATA TERRAE-NOVAE Férussac). Walker 1918: 131, "probably never described." The locality is not stated but the specific name indicates that this was supposedly from Newfoundland.

5. LAND GASTROPODA

27. *ARION ATER* (Linnaeus) 1746. Vanatta 1925: 93, Bay Bulls. Brooks and Brooks 1940: 74. Post 1959: 105. La Rocque 1953: 323.
28. *ARION CIRCUMSCRIPTUS* Johnston 1828. Brooks and Brooks 1940: 74. La Rocque 1953: 323.
29. (*ARION FASCIATUS* (Nilsson) 1822.) Vanatta 1925: 93, Trepassey and Whitbourne. Not listed by La Rocque 1953; probably a synonym of No. 28.
30. *ARION HORTENSIS* Féruccac 1819. Vanatta 1927: 113, Lark Harbour. Brooks and Brooks 1940: 74. La Rocque 1953: 323.
31. *ARION SUBFUSCUS* (Draparnaud) 1805. Brooks and Brooks 1940: 74. La Rocque 1953: 323.
32. *CARYCHIUM EXIGUUM* (Say) 1822. Brooks and Brooks 1940: 75. La Rocque 1953: 339.
33. *CEPAEA HORTENSIS* (Müller) 1774. Johnson 1908: 75, 78: Two Codroy valleys; not found on the east coast; headwaters of Robinson's River, west coast of Newfoundland; Serpentine River; East River, Hawkes Bay; Vanatta 1927: 112 (*Helix*), Doctor Hill and Bard Harbor Hill, Highland of St. John, St. John's Bay, Straits of Belle Isle; French Island = Tweed Island, and Lark Island, Bay of Islands. Vanatta 1930: 133 (*Helix*), Tucker's Head, Lord and Lady Cove, above Lomond, and Summit of Killdevil Mountain, Main Arm of Bonne Bay. Southern Arm, Bonne Bay. Deer Arm, Bonne Bay. Pointe Riche, Ingonachoix Bay. Hannah's Head, Bay of Islands. Brooks and Brooks 1940: 74. La Rocque 1953: 301.
34. *CIONELLA LUBRICA* (Müller) 1774. Vanatta 1927: 113 (*Cochlicopa*), Schooner Id.; Ha Ha Cape; Tweed Id.; Eddies Cove Brook, Eddies Cove; Back of Savage Cove; Bard Harbor Hill; Doctor Hill; Vanatta 1930: 113 (*Cochlicopa*), Tucker's Head, near Point Riche, Hannah's Head, and Penguin Head; Brooks and Brooks 1940: 75. La Rocque 1953: 339.
35. *COLUMELLA EDENTULA* (Draparnaud) 1805. Vanatta 1927: 113, Anse aux Sauvages, Sacred Id., Schooner Id., Cape Norman, Savage Point, Yankee Point, Ha Ha Cape, Doctor Hill. Vanatta 1930: 134, Tucker's Head. Brooks and Brooks 1940: 75. La Rocque 1953: 336.
36. *DEROCERAS LAEVE* (Müller) 1774. Vanatta 1927: 113 (*Agriolimax campestris*), Mauve Bay near Cape Baud, Lark Harbour, Back of Savage Cove, Ha Ha Cape, Yankee Point, Flower Cove, Doctor Hill. Brooks and Brooks 1940: 74. La Rocque 1953: 319.
37. *DEROCERAS RETICULATUM* (Müller) 1774. Vanatta 1927: 113 (*Agriolimax agrestis*), Bard Harbour Hill, Doctor Hill. Brooks and Brooks 1940: 74 (*Deroceras agrestis*). La Rocque 1953: 319.
38. *DISCUS CRONKHTEI* (Newcomb) 1865. Vanatta 1925: 93, Brig Bay (*Gonyodiscus c. anthonyi*). Vanatta 1927: 113 (*Gonyodiscus*), Anse aux Sauvages, Yankee Point; (*G. c. anthonyi*), Cape Norman, Ha Ha Cape, Back of Savage Cove, Bard Harbour Hill, Doctor Hill. Vanatta 1930: 133, Tucker's Head, near Pointe Riche, and Hannah's Head; (*G. c. anthonyi*), Pointe Riche, Grassy Id., St. John's Bay. Brooks and Brooks 1940: 74. La Rocque 1953: 321.
39. *DISCUS ROTUNDATUS* (Müller) 1774. Brooks and Brooks 1940: 74. Jacobson 1951: 34-35, Ferryland. La Rocque 1953: 322.
40. *EUCONULUS FULVUS* (Müller) 1774. Vanatta 1927: 113, Anse aux Sauvages, Schooner Id., Cape Norman, Savage Cove, Ha Ha Cape, Bard Harbour Hill, Doctor Hill. Vanatta 1930: 133, Tucker's Head and Hannah's Head. Brooks and Brooks 1940: 74. La Rocque 1953: 311.
41. *HAWAIIA MINUSCULA* (Binney) 1840. Brooks and Brooks 1940: 74. La Rocque 1953: 315.

42. *HELICIGONA ARBUSTORUM* (Linnaeus) 1758. Whiteaves 1904, Ott. Nat. 17: 192, St. John; Dall 1905: 21 (*Helix*). Brooks and Brooks 1940: 74. La Rocque 1953: 302.
43. *HELICODISCUS PARALLELUS* (Say) 1821. Vanatta 1930: 133, Hannah's Head. Brooks and Brooks 1940: 74. La Rocque 1953: 322.
44. *HYGROMIA STRIOLATA* (C. Pfeiffer) 1828. Brooks and Brooks 1940: 74. La Rocque 1953: 302.
45. *LIMAX MARGINATUS* Müller 1774. Brooks and Brooks 1940: 74 (*Limax arborum*). Lee 1950: 58. La Rocque 1953: 318.
46. *LIMAX MAXIMUS* Linnaeus 1758. BROOKS and BROOKS 1940: 74. La Rocque 1953: 318.
47. *OXYCHILUS DRAPARNALDI* (Beck) 1837. Brooks and Brooks 1940: 74. La Rocque 1953: 312 (*O. lucidum*).
48. *OXYLOMA GRÖNLANDICA* ("Beck" Möller) 1842. Brooks and Brooks 1940: 74. La Rocque 1953: 327.
49. *OXYLOMA PEORIENSIS DECAMPPII* (Wolf in Walker) 1894. Brooks and Brooks 1940: 74. La Rocque 1953: 327.
50. *OXYLOMA VERRILLI* (Bland) 1865. Vanatta 1927: 114, Anchor Cove, Flower Cove, Bard Harbor Hill, St. John's Island. Vanatta 1930: 134, Main River and Lomond; near Old Port au Choix, St. John's Bay. Brooks and Brooks 1940: 74. La Rocque 1953: 328.
51. *PLANOGYRA ASTERISCUS* (Morse) 1857. Brooks and Brooks 1940: 75. La Rocque 1953: 338.
52. *PUNCTUM MINUTISSIMUM* (Lea) 1841. Vanatta 1927: 113, Bard Harbor Hill (*P. pygmaeum* Drap.). Vanatta 1930: 133, Tucker's Head, near Pointe Riche; Hannah's Head (*P. pygmaeum m.*). Brooks and Brooks 1940: 74 (*P. pygmaeum m.*). La Rocque 1953: 322.
53. *PUPILLA MUSCORUM* (Linnaeus) 1758. Vanatta 1927: 112, Doctor Hill; Anse aux Sauvages, near Cape Onion; Ha Ha Cape, Ha Ha Bay; Cape Norman. Vanatta 1930: 134, Tucker's Head, and near Pointe Riche. Brooks and Brooks 1940: 74. La Rocque 1953: 332.
54. *RETINELLA ELECTRINA* (Gould) 1841. Vanatta 1925: 93, Brig Bay (*Polita hammonis*). Vanatta 1927: 113, Anse aux Sauvages, Schooner Id., Cape Norman, Tweed Id., Ha Ha Cape, Bard Harbour Hill, Doctor Hill (*Polita hammonis*). H. B. Baker 1930: 196, (*Retinella electrina*). Vanatta 1930: 133, Tucker's Head, near Pointe Riche; Hannah's Head; Penguin Head; Middle Arm, Bay of Islands. Brooks and Brooks 1940: 74. La Rocque 1953: 313.
55. *STRIATURA EXIGUA* (Stimpson) 1850. Brooks and Brooks 1940: 74. La Rocque 1953: 317.
56. *STRIATURA MILIUM* (Morse) 1859. Brooks and Brooks, 1940: 74. La Rocque 1953: 317.
57. *SUCCINEA AVARA* Say 1824. Vanatta 1925: 93, Brig Bay and Flower Cove. Vanatta 1927: 114, Sandy Cove, Cape Norman, Yankee Point, Four Mile Cove, Big Brook, St. John's Island, Flower Cove, Back of Savage Cove, Savage Point. Vanatta 1930: 133, Tucker's Head, Pointe Riche, and Penguin Head. Brooks and Brooks 1940: 74. La Rocque 1953: 328.
58. *SUCCINEA OVALIS* Say 1817. Dall 1905: 58, Balaena Bay. Vanatta 1925: 93, Flower Cove. Vanatta 1927: 114, Lark Harbour, Savage Cove, Flower Cove, Eddie's Cove, St. John's Island, Bard Harbour Hill, Doctor Hill. Vanatta 1930: 133, Tucker's Head, Lomond, and Hannah's Head. Brooks and Brooks 1940: 74. La Rocque 1953: 329.
59. *VALLONIA ALBULA* Sterki 1893. Vanatta 1930: 134, Tucker's Head, near Pointe Riche, and Penguin Head. Brooks and Brooks 1940: 75. La Rocque 1953: 337.
60. *VALLONIA EXCENTRICA* Sterki 1893. Brooks and Brooks 1940: 75. La Rocque 1953: 337.

61. *VALLONIA PULCHELLA* (Müller) 1774. Brooks and Brooks 1940: 75. La Rocque 1953: 338.
62. *VERTIGO ALPESTRIS* Alder 1838. Brooks and Brooks 1940: 74. La Rocque 1953: 332.
63. *VERTIGO ELATIOR* Sterki 1894. Vanatta 1927: 113, Schooner Island (*V. ventricosa e.*). Brooks and Brooks 1940: 75. La Rocque 1953: 334.
64. *VERTIGO GOULDII* Binney 1843. Brooks and Brooks 1940: 74. La Rocque 1953: 334.
65. *VERTIGO GOULDII BASIDENS* Pilsbry and Vanatta 1900. Vanatta 1927: 113, Ha Ha Cape, Bard Harbour Hill. La Rocque 1953: 334.
66. *VERTIGO GOULDII COLORADENSIS* Cockerell 1891. Vanatta 1930: 134, Tucker's Head and Hannah's Bay. La Rocque 1953: 334.
67. *VERTIGO GOULDII PARADOXA* Sterki 1900. Brooks and Brooks 1940: 74. La Rocque 1953: 334.
68. *VERTIGO MODESTA* (Say) 1824. Vanatta 1925: 93, Brig Bay and Flower Cove (*V. hoppii*). Vanatta 1927: 113, Anse aux Sauvages, Sacred Island off Cape Onion, Brig Bay, Ha Ha Cape, Yankee Point, Savage Point, Back of Savage Cove, Sandy Cove = Poverty Cove, Bard Harbour Hill, Doctor Hill. Vanatta 1930: 134, Tucker's Head; near Pointe Riche. Brooks and Brooks 1940: 74. La Rocque 1953: 335.
69. *VERTIGO MODESTA CASTANEA* Pilsbry and Vanatta 1900. Vanatta 1927: 113, Brandy Id. = Schooner Id.; Pistolet Bay; Cape Norman; Flower Cove. Brooks and Brooks 1940: 74. La Rocque 1953: 335.
70. *VERTIGO MODESTA PARIETALIS* (Ancey) 1887. Vanatta 1927: 113, Anse aux Sauvages, Sacred Id., Ha Ha Cape. Brooks and Brooks 1940: 74. La Rocque 1953: 335.
71. *VERTIGO PERRYI* Sterki 1905. Brooks and Brooks 1940: 74. La Rocque 1953: 336.
72. *VITRINA LIMPIDA* Gould 1850. Vanatta 1927: 113, Anse aux Sauvages, Sacred Id., Cape Norman, Ship Cove, Ha Ha Cape, Flower Cove, Bard Harbour Hill, Doctor Hill. Vanatta 1930: 133, near Pointe Riche. Brooks and Brooks 1940: 74. La Rocque 1953: 317.
73. *ZONITOIDES ARBOREUS* (Say) 1817. Vanatta 1927: 113, Burnt Cape, Pistolet Bay; Bard Harbour Hill; Doctor Hill. Vanatta 1930: 133, near Pointe Riche; Hannah's Head. Brooks and Brooks 1940: 74. La Rocque 1953: 316.
74. *ZONITOIDES NITIDUS* (Müller) 1774. Brooks and Brooks 1940: 74. La Rocque 1953: 316.
75. *ZOÖGENETES HARPA* (Say) 1824. Vanatta 1927: 113, Ship Cove, Sacred Bay; Anse aux Sauvages; Deer Pond Brook; Bard Harbour. Brooks and Brooks 1940: 75. La Rocque 1953: 338.

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(with collation and revision by Harley Jones Van Cleave).

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