

ART. XXIII.—*Catalogue of Mineral Localities in New Brunswick, Nova Scotia, and Newfoundland*; by O. C. MARSH, B.A., of the Sheffield Scientific School, Yale College.

THE following list of mineral localities in New Brunswick,¹ Nova Scotia, and Newfoundland, is the first covering all these regions that has been published. Although necessarily imperfect in many respects, it has been prepared with considerable care, and it is hoped that it may prove of some service to mineralogists who are not familiar with these interesting regions.

The lists of minerals occurring at many of the places mentioned in the Catalogue, especially those in the trap district of the Bay of Fundy, are copied from the writer's notes, which were

¹ Many of the notices of localities referred to in this Province are given on the authority of Mr. Mathew, which is a sufficient guarantee for their general accuracy.

taken at the localities during several excursions to the Provinces, the first in 1854. Even these lists may, in some cases, be found incomplete; since the destructive tides of that region are constantly changing the outlines of the coast, and thus exhausting the old localities, while at the same time bringing to light others, equally rich in mineral treasures.

The notices of localities which the writer has not visited are derived from the best sources of information to which he had access. A few were taken from the publications of Jackson and Alger, Dawson, and Jukes, which contain much that is valuable in regard to the mineralogy of these Provinces.² The writer is also especially indebted to George F. Mathew, Esq., and Charles F. Hartt, Esq., of St. John, for important information in regard to localities, especially in New Brunswick, and to Prof. Forrest Shepherd, of New Haven, for notices of several new localities in Newfoundland.

There is probably no part of the world, except the trap district of India, which is richer in zeolites than the shores of the bay of Fundy; yet the minerals from that region have hitherto received but little attention in comparison with those from other similar sections, and hence no little confusion exists in regard to what species occur at the different localities. In the following lists of minerals from Nova Scotia, thomsonite, prehnite, and one or two other species are marked doubtful. The first is generally believed to be one of the most common minerals in that Province, yet on examining and analyzing specimens of the so-called thomsonite from many of its reputed localities, the writer found them to be invariably mesolite or natrolite,—most generally the former; and it is doubtful if this species has yet been discovered in that region. Prehnite, also, is stated to occur at two places on the bay of Fundy;³ yet an examination of specimens, so considered, which were collected by the discoverers of the localities, as well as a careful exploration of nearly all the places in that section at which this mineral might naturally be expected to occur, has led the writer to believe that prehnite has not hitherto been met with in Nova Scotia, and that its existence at any locality in that Province is extremely doubtful.

The entire group of zeolitic minerals from the bay of Fundy is well worthy of careful study. The writer has for several years been collecting materials for a full examination of the different species, and hopes at some future time to embody the results of his investigations in a Monograph on the subject.

² Remarks on the Mineralogy and Geology of Nova Scotia, by Charles T. Jackson and Francis Alger; *Memoirs of the American Academy*, vol. i, 1833; *Acadian Geology*, by J. W. Dawson, F.G.S., Edinburgh, 1855; *Geological Survey of Newfoundland*, by J. B. Jukes, F.G.S., London, 1843.

³ Near Black Rock, Kings Co., and at Clark's Head, Cumberland Co.

The following catalogue is arranged according to the plan used in Dana's Mineralogy. Only localities which afford cabinet specimens are in general included. The names of those minerals which can be obtained in good specimens at the several localities are printed in italics. When the specimens are remarkably good, an exclamation mark (!) is added, or two of these marks (!!) if the specimens are quite unique.

NEW BRUNSWICK.

- ALBERT CO. GRINDSTONE POINT and ISLAND.—Barytes, iron pyrites, lignite.
- HOPEWELL.—Gypsum (alabaster and selenite); Albert mines,—coal (albertite).
- PALLET RIVER—fifteen miles from mouth,—coal.
- SHEPODY MOUNTAIN.—Alunite in clay, calcite, iron pyrites, *manganite*? psilomelane, *pyrolusite*.
- TURTLE CREEK.—Coal.
- CARLETON CO. WOODSTOCK.—Copper pyrites (mined), hematite, limonite, wad.
- CHARLOTTE CO. BEAVER HARBOR.—Chlorite, jasper.
- CAMPOBELLO—at Welchpool.—Blende, copper pyrites, erubescite, galena, iron pyrites; at head of Harbor de Lute, galena (4 inch vein); at Head Harbor, copperas, iron pyrites.
- DEER ISLAND—on west side.—Calcite (in amygdaloid), magnetite, quartz crystals.
- DIGDIGUASH RIVER.—On west side of entrance, *calcite*! (in conglomerate), chalcedony; at Rolling Dam, graphite.
- GRANDMANAN.—Between Northern Head and Dark Harbor, agate, amethyst, *apophyllite*, *calcite*, hematite, heulandite, jasper, magnetite, natrolite, *stilbite*, thomsonite?; at Whale Cove, *calcite*!, heulandite, laumontite, *stilbite*, *semi-opal*!; at Fish Head, two miles east of Eel Brook, chlorite in quartz (abundant); at Rosses' Island, quartz crystals; at White Head, chlorite, quartz crystals.
- L'ETANG ISLAND Harbor.—Chlorite, iron pyrites, marble, serpentine; at La Tête, copper pyrites, erubescite, galena.
- WAGAGUADAVIC RIVER.—At entrance, azurite, copper pyrites in veins, malachite; one eighth of a mile east, galena.
- NEW RIVER.—At Mills, actinolite? (in porphyry).
- SEELY'S COVE.—Hill, half a mile north, calcite, iron pyrites, magnetite, quartz crystals.
- ST. STEPHEN.—Four miles north of, graphite in slate, molybdenite in gneiss, quartz crystals; at Mill Farm, iron pyrites.
- WAUWIG RIVER.—Three miles up, at Cormick's Mills, pyrites in boulders, garnet, feldspar crystals, tourmaline; at Bartlett's Pond, quartz crystals.
- GLOUCESTER CO. BATHURST.—Coal, malachite.
- TÊTE-A-GOUCHE RIVER.—Eight miles from Bathurst, copper pyrites (mined), *oxyd of manganese*!! formerly mined.

- KENT CO. BUCTOUCHE RIVER.—Coal.
 COCAIGNE RIVER.—On branch three miles from bridge, coal.
 RICHIUCTO RIVER.—Three miles above Ford's Mills, and at Big Brook, coal; at Bassk, iron pyrites; Liverpool, limonite.
 KOUCHIBOUQUASIS RIVER.—Coal.
 KINGS CO. BELLEISLE BAY.—On north shore, galena in limestone, hornstone, jasper; Bull Moose Hill, large bed of magnetite on farm of Northrup and Benson.
 CLIFTON.—Chlorite, epidote, hematite, orthoclase in crystals, prehnite, quartz crystals.
 HAMMOND RIVER.—At Sherwood's, graphite in limestone.
 HAMPTON.—At Darling's Lake, agate, carnelian, jasper.
 KINGSTON.—On ridge south of village, chlorite, magnetite, magnetic pyrites.
 NERAPIS.—Near Hatfield's Mill, pyrites; near Mather's Inn, amethyst, feldspar, quartz crystals.
 QUISPAMIS.—Copper pyrites, galena, iron pyrites, laumontite.
 SUSSEX.—Near Cloat's Mills, on road to Belleisle, argentiferous galena; one mile north of Baxter's Inn, *specular iron* in crystals, limonite; on Capt. McCready's farm, east of Church, *selenite*!! (crystals containing sand).
 UPHAM.—Salt springs; four miles east of Titus' Mills, gypsum.
 NORTHUMBERLAND CO. BOISTOWN.—Coal; also at New Castle and Chatham.
 QUEENS CO. GRAND LAKE.—At Long Point, barytes, copperas, and pyrites in fossil trees; Salmon River, on Crawford's farm, coal, copperas, pyrites, limonite; New Castle River, coal mines; Coal Creek, coal (formerly worked).
 LONG REACH.—Opposite Van Warts, chlorite.
 WASHEDMOAK RIVER.—Two and a half miles from Long's Creek, coal; a few miles above mouth of W. River, on S.E. side of small cove, carnelian, chalcedony, hornstone, jasper, quartz crystals.
 RESTIGOUCHE CO. BELLEDUNE POINT.—*Calcite! serpentine, verde antique marble.*
 DALHOUSIE.—Agate, carnelian.
 POINT LENIM.—Coal.
 SAINT JOHN CO. BLACK RIVER.—On coast, calcite, chlorite, copper pyrites, *hematite!* in crystals, pyroxene (green earth), quartz crystals.
 BRANDY BROOK.—Epidote, *hornblende*, quartz crystals.
 CARLETON.—Near Falls, calcite (red).
 CHANCE HARBOR.—*Calcite* (deep red) in quartz veins, chlorite in argillaceous and talcose slate.
 LITTLE DIPPER HARBOR.—On west side, in greenstone, amethyst, barytes, quartz crystals.
 MOOSEPATH.—Feldspar (red), *hornblende*, muscovite, black tourmaline.
 MUSQUASH.—On East side Harbor, copperas, graphite, pyrites; at Shannon's, chrysotile, serpentine; East side of Musquash, *quartz crystals!* (in conglomerate).
 PORTLAND.—At the Falls, large bed of graphite (impure); at Fort Howe Hill, *calcite* (fine crystals in several forms), graphite; Crow's Nest,
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- asbestos, calcite (fibrous), *chrysotile*, magnetite, *serpentine*, *steatite*; Lily Lake, white *augite*?, *chrysotile*, graphite, *serpentine*, *steatite*, talc; How's Road, two miles out, *epidote* (in *syenite*), *steatite* in limestone, *tremolite*; Drury's Cove, graphite, pyrites, *pyralloite*? indurated talc.
- QUACO.—At Light House Point, large bed of oxyd of manganese; west of Point, lignite; east of Quaco, at Fuller's Creek, graphite, iron pyrites; farther eastward, asbestos, *chrysotile*, black *tourmaline*.
- RED HEAD.—Calcite (fibrous), red jasper.
- SHELDON'S POINT.—Actinolite, asbestos, calcite, *epidote*, (*pistacite* and *zoisite*), *malachite*, specular iron.
- CAPE SPENCER.—Asbestos, calcite, chlorite, specular iron (in crystals).
- TEN MILE CREEK.—Coal (in slate and sandstone).
- WESTBRACH.—At east end, on Evans' Farm, chlorite, talc, *quartz crystals*; half a mile west, chlorite, copper pyrites, *magnesite* (vein), magnetite.
- POINT WOLF and SALMON RIVER.—Asbestos, chlorite, *chrysocolla*, copper pyrites, *erubescite*, pyrites.
- SUNBURY CO. ORMOCO RIVER.—Ten miles up north branch, coal.
- LINCOLN.—Bog iron ore (abundant), wad.
- VICTORIA CO. TABIQUE RIVER.—*Agate*, *carnelian*, jasper; at mouth, south side, galena; at mouth of Wapskanegan, gypsum, salt spring; three miles above, *stalactites* (abundant).
- QUISABIS RIVER.—Blue phosphate of iron, in clay.
- WESTMORELAND CO. BELLEVUE.—Iron pyrites.
- DORCESTER.—On Taylor's Farm, cannel coal, clay iron stone; on Ayres' Farm, asphaltum, petroleum spring.
- GRAND ANCE.—Apatite, selenite (in large crystals).
- MEMRAMCOOK.—Coal (*albertite*).
- SHEDIAC.—Four miles up Scadoué River, coal.
- YORK CO. NASHWAAK RIVER.—Coal; Jay Creek, coal.
- POKIOCK RIVER.—Stibnite? *tin pyrites*, in granite, (rare); Harvey Settlement, wad.⁴

NOVA SCOTIA.

- ANNAPOLIS CO. CHUTE'S COVE.—*Apophyllite*, *natrolite*.
- GATES' MOUNTAIN.—*Analcime*, magnetite, *mesolite*? *natrolite*, *stilbite*, *thomsonite*?⁵
- HADLEY'S MOUNTAIN.—*Chlorophæite*, *heulandite*.
- MARGARETVILLE.—*Epistilbite*?⁶ *laumontite*, (colored green by copper), *stilbite*.
- MARTIAL'S COVE.—*Analcime*? (inclosing native copper), *chabazite*, *heulandite*.

⁴ See note on Antimony (Stibnite) in New Brunswick in the preceding number of this Journal, p. 150.

⁵ See Introduction, page 211.

⁶ A mineral from this locality has been described as *epistilbite* by Prof. How, of Kings College, Nova Scotia; but, in a recent communication to the writer, that gentleman expresses a doubt whether it may not prove to be *heulandite* on further examination. The crystalline form of the mineral could not be ascertained from the specimen analyzed.

- MOOSE RIVER.—Beds of magnetite.
- NICTAU RIVER.—At the Falls, bed of hematite.
- PARADISE RIVER.—Black tourmaline, *smoky quartz*!! (perfect crystals, more than one hundred pounds in weight, have been found in the soil).
- PORT GEORGE.—Färöelite, laumontite, mesolite, stilbite; east of Port George, on coast, apophyllite containing gyrolite.
- PETER'S POINT.—West side of Stonock's Brook, *apophyllite*!, calcite, heulandite, *laumontite*! (abundant), native copper, stilbite.
- ST. CROIX COVE.—Chabazite, heulandite.
- WILMOT.—At the Spring, copperas.
- COLCHESTER CO. FIVE ISLANDS.—East River, *barytes*!, calcite, dolomite (ankerite), hematite, copper pyrites; Indian Point, malachite, magnetite, red copper, tetrahedrite; Pinnacle Islands, *analcime*, calcite, *chabazite*!, natrolite, siliceous sinter.
- LONDONDERRY.—On branch of Great Village River, *barytes*, ankerite, hematite, limonite, magnetite; Cook's Brook, ankerite, hematite; Martin's Brook, hematite, limonite; eastward of Great Village River, on high ground, hematite, limonite; at Folly River, below Falls, ankerite, iron pyrites; on high land, east of river, ankerite, hematite, limonite; on Archibald's land, ankerite, *barytes*, hematite.
- SALMON RIVER.—South branch of, coal, copper pyrites, hematite.
- SHUBENACADIE RIVER.—Anhydrite, calcite, *barytes*, hematite, oxyd of manganese; at the Canal, iron pyrites.
- STEWIACKE RIVER.—Barytes (in limestone).
- CUMBERLAND CO. CAPE CHIEGNECTO.—Barytes.
- CAPE D'OR.—*Analcime*, *apophyllite*!! (large crystals, highly modified), chabazite, färöelite, laumontite, *mesolite*, malachite, *natrolite*, *native copper*, obsidian, red copper (rare), vivianite (rare); Horse-shoe Cove, east side of Cape D'Or, *analcime*, calcite, stilbite.
- ISLE HAUTE.—South side, *analcime*, *apophyllite*!!⁷, albin?⁷ calcite, *heulandite*!!⁷, natrolite, *mesolite*, *stilbite*!
- JOGGINS.—Coal, hematite, limonite; malachite and tetrahedrite at Seaman's Brook.
- PARRSBOROUGH.—Augite, amianthus, calcite, gypsum, hematite, iron pyrites, magnetite, quartz.
- PARTRIDGE ISLAND.—*Analcime*, *apophyllite*! (rare), *amethyst*! agate, apatite (rare), *calcite*!! (abundant in large and highly modified crystals), chabazite (acadiolite), chalcedony, cat's-eye (rare), gypsum, hematite, *heulandite*!, magnetite, *stilbite*!! (very abundant).
- CLARK'S HEAD.—*Analcime*, anhydrite, chlorite, calcite, hematite, prehnite?, tremolite.
- SWAN'S CREEK.—West side, near the Point, calcite, gypsum, *heulandite*, iron pyrites; east side, at Wasson's Bluff and vicinity, *analcime*!! (occasionally enclosing native copper and malachite), *apophyllite*! (rare), *calcite*, *chabazite*!! (white, wine-yellow, and red (acadiolite) in large and very perfect crystals), gypsum, *heulandite*!!⁷, malachite, *natrolite*!, native copper, red copper (rare), siliceous sinter.

⁷ Specimens of the mineral, from this locality, which has for many years passed under the name of *albin*, have recently been examined by the writer, and proved to be merely a variety of calcite. o. c. m.

- TWO ISLANDS.—Moss agate, analcime, calcite, chabazite, *heulandite*.
 MCKAY'S HEAD.—Analcime, calcite, *heulandite*, *siliceous sinter*!
 STRONIX BROOK.—Laumontite.
 DIGBY CO. BRIER ISLAND.—Native copper, in trap.
 DIGBY NECK.—Sandy Cove and vicinity, *agate*, *amethyst*, *calcite*, *chabazite*, *hematite*! (in perfect crystals), *laumontite* (abundant), *magnetite*, *stilbite*, quartz crystals.
 GULLIVER'S HOLE.—*Magnetite*, *stilbite*!
 MINK COVE.—Amethyst, *chabazite*! (crystals an inch in diameter), quartz crystals.
 NICHOL'S MOUNTAIN.—South side, *amethyst*, *magnetite*! (in large and perfect crystals).
 TROUT COVE.—Six miles east of Sandy Cove, *agate*, *chalcedony*.
 WILLIAM'S BROOK.—Near source, *chabazite* (green), *heulandite*, *stilbite*, quartz crystals.
 GUYSBORO' CO. CAPE CANSEAU.—*Andalusite*, abundant in mica and clay slate.
 GUYSBORO'.—Galena, hematite.
 HALIFAX CO. GAY'S RIVER.—Galena, in limestone.
 HALIFAX.—Southwest of, garnet, staurotide, tourmaline.
 TANGIER.—*Gold*! (occasionally crystalized) in quartz veins in clay slate, associated with auriferous pyrites, galena, hematite, mispickel, and magnetite.* *Gold* has also been found in the same formation, accompanied by iron pyrites and mispickel, at Country Harbor, Fort Clarence, Isaac's Harbor, Indian Harbor, Laidlow's Farm, Lawrence-town, Sherbrooke, Salmon River, and Wine Cove.
 HANTS CO. CHEVERIE.—Oxyd of manganese (in limestone).
 PETITE RIVER.—Gypsum, oxyd of manganese.
 WINDSOR.—Calcite, cryptomorphite (boronatrocalcite?), glauher salt, hayesine. The last three minerals are found in beds of gypsum.*
 INVERNESS CO. MABON HARBOR.—*Fluor spar*! (green).
 KINGS CO. BLACK ROCK.—Centrallassite, cerinite, cyanolite;¹⁰ a few miles east of Black Rock, prehnite?, *stilbite*!
 CAPE BLOMIDON.—On the coast between the Cape and Cape Split, the following minerals occur in many places: some of the best localities are nearly opposite Cape Sharp,—*analcime*!!, *agate*, *amethyst*!, *apophyllite*!, calcite, *chalcedony*, *chabazite*, *gmelinite* (ledererite), *faröelite*, hematite, *heulandite*!, *laumontite*, *magnetite*, *malachite*, *mesolite*, native copper, (rare), *natrolite*!, *psilomelane*, *stilbite*!, *thomsonite*?, *quartz*.
 CORNWALLIS.—At the Bridge, oxyd of manganese.
 HALL'S HARBOR.—Analcime, *heulandite*, *laumontite*, *stilbite*.
 NORTH MOUNTAINS.—Amethyst, bloodstone (rare), *ferruginous quartz*, *mesolite* (in soil).
 LONG POINT.—Five miles west of Black Rock, *heulandite*, *laumontite*!!, *stilbite*!!
 SCOT'S BAY.—*Agate*, amethyst, *chalcedony*, *mesolite*, *natrolite*.

* This Journal, [2], xxxii, 395, 1861.

* This Journal, [2], xxiv, 230, and xxxi, 8.

¹⁰ Ed. New Phil. Jour., x, 84.

- WOODWORTH'S COVE.—A few miles west of Scot's Bay, *agate!*, *chalcedony!*, *jasper*.
- LUNENBURG CO. CHESTER.—Gold River, gold in quartz, iron pyrites, mispickel.
- CAPE LA HAVE.—*Iron pyrites!*
- THE "OVENS."—*Gold*, on the beach and in quartz veins, iron pyrites, mispickel!
- PETITE RIVER.—Gold, in slate.
- PICTOU CO. PICTOU.—*Jet*, oxyd of manganese, limonite; at Roder's Hill, six miles west of Pictou, barytes; on Carribou River, gray copper and malachite in lignite; at Albion Mines, coal, limonite; East River, limonite.
- QUEENS CO. WESTFIELD.—Gold in quartz, iron pyrites, mispickel.
- FIVE RIVERS.—Near Big Fall, gold in quartz, pyrites, mispickel, limonite.
- RICHMOND CO. PLAISTER COVE.—West of, barytes and calcite in sandstone; nearer the Cove, calcite, *fluor spar* (blue), chalybite.
- SHELBURNE CO. SHELBURNE.—Near mouth of Harbor, garnets (in gneiss); near the town, rose quartz; at Jordan and Sable River, *staurotide* (abundant in clay and mica slates), schiller spar.
- SYDNEY CO.—Hills east of Lochaber Lake, iron and copper pyrites, chalybite, hematite.
- MORRISTOWN.—Epidote in trap, gypsum.
- YARMOUTH CO. CREAM POT.—Above Cranberry Hill, gold in quartz, pyrites.
- CAT ROCK.—Fouchu Point, asbestos, calcite.

NEWFOUNDLAND.

- ANTONY'S ISLAND.—*Iron pyrites*, in large cubical crystals.
- CAPE BONAVISTA.—Copper pyrites, in quartz veins.
- CATALINA HARBOR.—On the shore, *iron pyrites!* large and perfect crystals, in slate.
- CHALKY HILL.—Feldspar, in crystals.
- COPPER ISLAND, one of the Wadham group.—Copper pyrites (abundant).
- CODROY'S ISLAND.—Gypsum, granular and fibrous.
- GREAT CODROY RIVER.—On left bank, near mouth, gypsum, (abundant); seven miles inland, bituminous coal.
- CONCEPTION BAY.—On the shore south of Brigus, erubescite and gray copper, in trap.
- GREAT WHITE BAY.—Gold Cove, copper pyrites, in quartz veins.
- GRAND POND.—Northeast of, bituminous coal, cannel coal.
- HALL'S BAY.—In the bank of a river flowing into the bay, copper pyrites in quartz veins, traversing chlorite slate; at the head of the tide on the same river, shell marl, a bed twenty feet in thickness.
- HUMBER RIVER.—Near mouth, marble (abundant), muscovite.
- BAY OF ISLANDS.—Southern shore, *iron pyrites*, in slate.
- LAWN.—Argentiferous galena, horn silver, ruby silver, silver glance.
- PLACENTIA BAY.—At La Manche, two miles eastward of Little Southern Harbor, *galena!* very pure and abundant, in a vein of pink calcite traversing metamorphic slate. This vein is now worked, and 1400 tons of galena have recently been taken from it. On the opposite side of

the isthmus from Placentia Bay, barytes (flesh-colored), in a large vein, occasionally accompanied by copper pyrites.

PORT AU PORT.—On the Isthmus, native copper, in trap.

ST. GEORGE'S BAY.—Galena in limestone; at Crabb's River, bituminous coal, (vein three feet in thickness), gypsum in bank of a brook, salt springs.

SHOAL BAY.—South of St. Johns, copper pyrites.

TOR BAY.—Four miles from St. Johns, a chalybeate spring, noted for its medicinal properties.

TRINITY BAY.—Western extremity, barytes (flesh-colored), a large vein.

HARBOR GREAT ST. LAWRENCE.—West side, fluor spar, galena.

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