

The Marine Molusca of Lancashire and Cheshire

PART III.

LORICATA and GASTROPODA (in part).

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(Parts I and II appeared in the 29th and 30th Reports.)

Arrangement and nomenclature followed are those of Winckworth's List (*J. Conch.*, xix, 217-250, 334-8; xx, 9-15, 51-3). Doubtful species are enclosed within square brackets in the following list.

Class LORICATA.

Lepidochitona cinereus (L.). L. Morecambe Bay (Hopwood). Knott End, Fleetwood (Jackson). C. Hilbre, Caldy Blacks, New Brighton, Egremont (Byerley). Still at Hilbre, rare (N.F.McM.). *Acanthochitona crinitus* (Pennant). L. Blackpool-Fleetwood area, living, rare (Darbshire).

Class GASTROPODA.

Emarginula reticulata müllerii Forbes & Hanley. L. Morecambe Bay, 1893 (specs. in Liverpool Museum pre-war. N.F.McM.). Southport (McNicolls, ed. 1; Chaster). Blackpool (Thornber). "Dead shells of general occurrence" (Archer).

[*Emarginula conica* Lam. Listed by Darbshire (sub. *E. rosea*) as "dead, rare. Formby and Southport". A mistake?]

Diodora apertura (Mont.). L. Morecambe Bay, 1893 (specs. in Liverpool Museum pre-war. N.F.McM.). Birkdale, dead, rare (Chaster). "Dead shells of general occurrence" (Archer).

Patella vulgata L. L. Morecambe Bay, alive (Hopwood). Knott End, Fleetwood, living (Jackson). Birkdale, one, living (Chaster). C. Woodside Slip (Byerley; apparently now gone). Hilbre (Byerley; still there in fair numbers seaward end main island, 1938, etc. (N.F.McM.). On Little Eye also (Burd, 1946). Apparently now absent from the Mersey shores. As a Holocene fossil, Shore Pool, New Ferry, Ches. (McMillan, 1944).

Patella athletica Bean. L. Fleetwood (spec. Liverpool Museum pre-war. N.F.McM.). Southport, very rare (McNicolls, ed. 3).

Patina pellucida (L.). L. Foulney Island Lighthouse, Morecambe Bay (Hopwood).

Patina laevis (Pennant). C. Mersey shore between Rock Ferry and New Ferry, a worn shell, 1936 (N.F.McM.).

Patelloidea tessulata (Müll.). L. Fleetwood, alive (Darbshire).

Calliostoma zizyphinum conuloide (Lam.). L. Morecambe Bay prawning grounds, living, rare (Fraser). Blackpool-Fleetwood district, living (Darbishire). Birkdale, dead, very rare (Chaster). Bootle, dead (spec. coll. by R. Tudor in Liverpool Museum) pre-war (N.F.McM.). C. Dredged off Dee mouth, deep water, and N. of Wirral, living (Byerley).

Calliostoma papillosum (da Costa). L. Off Morecambe, living (Archer). Birkdale, dead, very rare (Chaster).

Gibbula magus tuberculata (da Costa). L. Morecambe Bay, fine "live" specimens in Liverpool Museum pre-war (N.F.McM.). Formby and Southport, dead, rare (Chaster).

Gibbula cineraria (L.). L. Morecambe Bay (Hopwood). Fylde coast, dead, common (S. W. Brooks, *in litt.*). Birkdale, dead (Chaster). C. Dredged alive off Dee mouth and deeper water off N. Wirral (Byerley). Caldy Blacks, Hoylake, Hilbre (Byerley). Not found at Hilbre, 1938 onward (N.F.McM.). Da Costa (p. 43) recorded it from Ince.

Gibbula umbilicalis (da Costa). L. Blackpool-Fleetwood district, alive, common (Darbishire; ? some mistake, N.F.McM.). Blackpool, a dead shell (J. W. Jackson; spec. in Liverpool Museum). Southport (Glazebrook, ed. 2). C. Hilbre, dead once (Byerley: not seen there 1938 onward, N.F.McM.).

Cantharidus montagui (W. Wood). L. Southport, very rare (Chaster).

Tricolia pullus pictus (da Costa). L. Formby-Southport, dead, rare (Darbishire).

Lacuna vineta (Mont.). L. Southport (McNicoll, ed. 1). C. Dee mouth, one, dead, 1852 (Byerley).

Lacuna crassior (Mont.). L. 5 miles off Fleetwood, alive, Sept. 1891 (Archer). C. N. of Dove Bank; Dee mouth; New Brighton (Byerley).

Littorina littorea (L.). L. Generally distributed from N. to S. of county. C. Widely-spread.

Littorina saxatilis (Oliv.). L. Generally distributed throughout the area. Liverpool Landing-Stage (Fraser). C. Generally distributed.

Littorina littoralis (L.). L. Generally distributed. C. Hilbre (N.F.McM.).

[*Hydrobia ventrosa* (Mont.), *H. ulvae* Pennant, and *Potamopyrgus jenkinsi* (Smith). These three species although included in Winckworth's list of marine mollusca have already been listed among the non-marine species by Dr. J. W. Jackson, and details of their distribution are therefore omitted.]

Acmea subcylindrica (L.). L. Hightown, one in shell-pocket (Grensted).

Cingula alderi (Jeffreys). L. Birkdale, dead, very rare (Chaster, sub. *Rissoa soluta* Phil.).

Cingula vitrea (Mont.). L. Birkdale, dead, rare (Chaster). Hightown, one in shell-pocket (Grensted). Southport, several dead (Hargreaves, 1909); "central area,* one" (Archer).

*By this is meant, roughly, dredging grounds west of the mouths of the Mersey and Dee.

- Cingula proxima* (Forbes & Hanley). L. Southport (Marshall, *Journ. Conch.*, IX, 134).
- Cingula semicostata* (Mont.). L. Fleetwood (Archer) Southport, dead, very rare (Chaster).
- Cingula semistriata* (Mont.). L. Fleetwood (Archer).
- Cingula cingillus* (Mont.). L. Formby and Southport, dead, rare (Darbshire).
- Alvania punctura* (Mont.). L. Dredged off Fleetwood (Archer). Southport, very rare (Chaster).
- Rissoa inconspicua* Alder. L. Birkdale, dead, very rare (Chaster).
- Tornus subcarinatus* (Mont.). L. Southport, one, dead (Chaster). Note: Archer's 1892 record refers to a specimen obtained by Herdman outside our area.
- Tornus imperspicuus* (Chaster). L. Dredged off Southport, one (Marshall, *Journ. Conch.*, VII, 249-50, sub. *Cyclostrema millepunctatum* Friele; also Marshall, *Journ. Conch.*, X, 193).
- Turritella communis* Risso. L. First recorded by Lister in 1678 (p. 161). Morecambe Bay, alive (Hopwood). Blackpool-Fleetwood, dead (Darbshire). Birkdale, rare alive, very common dead (Chaster). Mersey, opposite Dingle, dead (Byerley). C. N. of Wirral (Byerley).
- Caecum glabrum* (Mont.). L. Birkdale, dead, very rare (Chaster).
- Bittium reticulatum* (da Costa). L. Southport, one, dead (McNicoll, ed. 3).
- Clathrus clathrus* (L.). L. Fylde coast, frequent (S. W. Brooks, *in litt.*). Birkdale, dead, frequent (Chaster). C. Meols, a fresh dead shell, 1937 (W. K. Ford).
- Clathrus turtonis* (Turton). L. Fylde coast, dead, rare (S. W. Brooks, *in litt.*). Southport, occasional (Chaster). Between Cleveleys and Fleetwood (Hargreaves, 1909).
- Clathrus clathratulus* (Kanmacher). L. Blackpool (Thornber).
- Graphis albida* (Kanmacher). L. Birkdale, dead, very rare (Chaster).
- Aclis ascaris* (Turton). L. Birkdale, dead, rare (Chaster).
- Aclis minor* (Brown). L. Birkdale, dead, frequent (Chaster). Crosby (Archer).
- Eulima glabra* (da Costa). L. Morecambe Bay (Marshall, *Journ. Conch.*, X, 128). Crosby, dead, common (Archer). Birkdale, dead, frequent (Chaster). "Not yet taken alive in area" (Archer).
- Balcis alba* (da Costa). L. Between Formby and Southport, dead (Byerley).
- Balcis devians* (Monterosato). L. Fleetwood, dredged (Archer).
- Chrysallida obtusa* (Brown). L. Birkdale, very rare (Chaster).
- Chrysallida indistincta* (Mont.). L. Birkdale, dead, frequent (Chaster). Marshall described a new variety (*minima*) from Southport specimens (*Journ. Conch.*, IX, 291).
- Chrysallida spiralis* (Mont.). L. Southport, dead, rare (Chaster, Suppl.).
- Menestho dolioliformis* (Jeffreys). L. Southport, 2 or 3 specimens (Chaster, Suppl.).

- Menestho divisa* (J. Adams). L. Southport, rare, but specimens sometimes large (Chaster, Suppl.).
- Menestho clavula* (Lovén). L. Southport, one specimen of a varietal form (Chaster, Suppl.).
- Odostomia nivosa* (Mont.). L. Southport (McNicoll, ed. 1).
- Odostomia turrita* Hanley. L. Southport, rare and always dead (Chaster, Suppl.).
- Odostomia unidentata* (Mont.). L. Southport, rare and always dead (Chaster, Suppl.).
- Odostomia umbilicaris* (Malm). Liverpool Bay, 12 fm. (Marshall, *Journ. Conch.*, IX, 231).
- Odostomia scalaris* MacGillivray. L. Southport drift (Archer, var. *dubia* Jeff., teste Jeffreys). Southport, dead, not rare (Chaster, Suppl.).
- Eulimella macandrei* (Forbes). Central area, living and dead (Archer).
- Eulimella laevis* (Brown). L. Birkdale, dead, very rare (Chaster). In Southport shellsand, sub. *E. commutata* (Hargreaves, 1909).
- Turbonilla elegantissima* (Mont.). L. Birkdale, dead, rare (Chaster).
- Turbonilla acuta* (Donovan). L. Southport (Marshall, *Journ. Conch.*, IX, 334, sub. *Odostomia pusilla* Phil. non Jeff.) thus confirming the queried record of C. H. Brown (Archer).
- Turbonilla crenata* (Brown). L. Southport, 2 or 3 good specimens (Brown).
- Turbonilla fulvocincta* (Thompson). L. ~~Southport~~ shells, and sub. *Pyrgostelis interrupta* (Hargreaves, 1909).
- Capulus ungaricus* (L.). L. Southport, very rare. First recorded by Glazebrook in 1809. Birkdale, three dead shells (Chaster).
- Crepidula fornicate* (Lam.). "Liverpool Docks, 20.3.72"—four shells so labelled are in Liverpool Museum. This is the earliest British record yet known for this North American alien. See *Proc. Malacological Soc.*, XXIII, 236, 1939.
- Aporrhais pespelicanus quadrifidus* da Costa. L. Morecambe Bay, frequent, alive (Hopwood). Blackpool-Fleetwood, dead, rare (Darbishire). Southport, occasionally alive (Chaster).
- Natica catena* (da Costa). L. Morecambe Bay, alive (Hopwood). Blackpool, living, common (S. W. Brooks, *in litt.*). Birkdale, fairly common, alive (Chaster). C. Trawled alive off N. Wirral (Byerley).
- Natica poliana alderi* (Forbes). L. Birkdale, living, rare; dead, common (Chaster). Freshfield, cast up alive, 1935 (N.F. McM.). C. Dredged alive between Dee and the Lightship (Byerley).
- Natica montagui* Forbes. L. Morecambe Bay, dredged (Hopwood). Southport (McNicoll, ed. 1).
- Velutina velutina* (Muller). L. Southport (McNicoll, ed. 1, and Chaster).
- [*Trivia* spp. As the two British species of *Trivia* were not distinguished until recently and in the old records both were lumped under *Cypraea europaea*, all have been omitted pending further investigation. Dead shells occur rarely at Liverpool and Southport (Darbishire).]

One dead shell of *T. arctica* picked up at Hilbre
by F. Woodward 12/2/65.

Trophon truncatus (Strom). L. Blackpool-Fleetwood, dead, rare (Darbishire). Birkdale, dead, very rare (Chaster). Central area, many dead (Archer).

Trophon barvicensis (Johnston). L. Southport, very rare (Brown).

Trophon muricatus (Mont.). L. Southport, very rare, one good specimen (Brown: McNicoll, ed. 3).

Nucella lapillus (L.). L. On mussel "scars" near Duddon and Morecambe (Scott, 1896). Piel, Morecambe Bay, common, alive (Hopwood). Knott End, Fleetwood, a colony of the imbricated form; not the true var. *imbricata* Lamarck. (Marshall, *Journ. Conch.*, XIII, 195). Southport, alive on Pier once; dead, frequent (Chaster). C. Hilbre, large and abundant, living (McMillan). Caldy Blacks (Byerley). There are old records from the Mersey (Byerley), but the species is now apparently extinct there (Fraser; McMillan). A worn shell found on the shore between Rock Ferry and New Ferry, 1936 (N.F.McM.), but repeated searches in the neighbourhood failed to produce any more shells or a living specimen. As a Holocene fossil, Shore Pool, New Ferry (McMillan, 1944).

[*Urosalpinx cinerea* (Say). The statement that this North American sp. occurs in the Mersey Estuary (Dr. Lebour, *J. Mar. Biol. Ass. U.K.*, XXII, p. 153, 1937) is surely a printer's error for Mersea (Essex), where the sp. is abundant? Cole (*J. Mar. Bid. Assoc. U.K.*, XXV, p. 478, 1942) says "there are no authenticated records of *Urosalpinx* outside of Essex and Kent".]

Ocenebra erinacea (L.). L. Blackpool-Fleetwood, dead, rare (Darbishire). Birkdale, dead, frequent (Chaster). Liverpool, dead, rare, dredged (Byerley). C. Hilbre, (Leigh) a record repeated by later authors.

[*Colus islandicus* Gm. The shell recorded as this species "picked up at New Brighton (C.C.)" (Collingwood and Walker, 1862) is no doubt *C. gracilis* (da Costa). Also recorded from Crosby by Reade.]

Colus gracilis (da Costa). L. Blackpool-Fleetwood, dead, rare (Darbishire). Southport, dead, rare (Alcock; Chaster). Two "live" shells, Southport (J. W. Jackson Coll., Liverpool Museum).

Colus howsei (Marshall). L. Birkdale, dead, rare (Chaster; also Marshall, *Journ. Conch.*, XIII, 224).

Neptunea antiqua (L.). L. Blackpool-Fleetwood, alive, common (Darbishire). Birkdale, alive, once; common dead (Chaster). Trawled inside Liverpool Bar, 6 fms. (Herdman and Dawson). Very large from Lune Deeps; a shell in the J. W. Jackson Coll. in Liverpool Museum is 160 mm. long. C. Dredged alive N. of Dove Bank, 1851 (Byerley).

Var. *striata*. Morecambe Light-ship, one dredged alive (Hopwood).

Buccinum undatum L. L. First recorded from Lancashire by Lister (p. 157) in 1678. Morecambe Bay, plentiful, alive (Hopwood). Blackpool, alive (Alcock). Birkdale, alive, frequent (Chaster). C. Hilbre, Caldy Blacks, N. of Wirral opposite Leasowe Castle (Byerley).

- Var. littoralis* King. Probably widespread, but the only record I know of is Southport (Standen, *Journ. Conch.*, VIII, 52).
- Nassarius reticulatus* (L.). L. Blackpool-Fleetwood, dead, rare (Darbishire). Birkdale, dead, very rare (Chaster). C. Hilbre Swash, dead (Byerley). Near Hilbre, alive (N.F. McM.).
- Nassarius incrassatus* (Ström). L. Blackpool (Thornber). Birkdale, very rare (Chaster).
- Lora turricula* (Mont.). L. Blackpool (Thornber). Birkdale, dead rare (Chaster). Freshfield, a worn shell, 1935 (N.F. McM.). C. Dredged, moderately abundant, rocky ground between Red Noses and Dove Bank (Byerley). Central area, dredged alive (Archer).
- Lora rufa* (Mont.). C. Dredged with *L. turricula* (q.v.).
- Mangelia brachystoma* (Phil.). L. Southport (Marshall, *Journ. Conch.*, XIII, 303).
- Mangelia nebula* (Mont.). L. Birkdale, one, dead (Chaster).
- Philbertia gracilis* (Mont.). L. Birkdale, dead, very rare (Chaster).

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Lancs.