

Morelet's contributions to malacology: additions and corrections

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ABSTRACT

Additions and corrections are presented to update the book on Pierre Marie Arthur Morelet, which was published in 2018. The main corrections are related to the new molluscan taxa introduced by him, with consequences for the indices. Recent literature that provoked these corrections is listed.

Key words: Bivalvia, current systematic position, Gastropoda, indices, recent literature, update

INTRODUCTION

In 2018 we published a monograph on the contributions of Arthur Morelet (1809–1892) to malacology (Breure et al., 2018). As was to be expected, soon after publication, some necessary corrections were noticed and some additional data can now be included. In addition, recent literature have listed some new systematic positions for several of Morelet's taxa. We follow the same structure as in our book, referring to the pages where the additions and corrections may be placed, and use the same reference system for Morelet's publications. Literature quoted is listed in the references, unless it formed part of the corrections itself.

ABBREVIATIONS

AMNH American Museum of Natural History, New York, U.S.A.
MHNG Muséum d'histoire naturelle, Geneva, Switzerland
NHMUK Natural History Museum, London, U.K.

ADDITIONS

♂ *ventrosior*, *Physa cisternia* (var. β) Morelet, 1851

[Physidae]

Morelet, 1851: 15.

Type locality: “in suburbibus civitatis Meridanæ Yucatanensis”.

Type material: Not located.

Remarks: Considered as a junior, subjective synonym of *Mayabina spiculata* (Morelet, 1849) according to Thompson (2011).

[Page 270] *Achatinella deshayesii*: The figures of one of the types and of the label are included as Figures 1–2.

CORRECTIONS

[Page 23] Obituaries were published by Drouët in the *Bulletino della Società Malacologica Italiana* (Drouët, 1892a), *Procès-Verbaux des Séances de la Société malacolgique de Belgique* (Drouët, 1892b), the *Nachrichtsblatt des Deutschen malakozoologischen Gesellschaft* (Drouët, 1892c),

[Page 183] Morelet A. 1851b: date should be 30 June. Issues of the *Revue et magasin de zoologie pure et appliquée* were published in the month following the month mentioned in the header.

[Page 183] Morelet A. 1851f: date should be 30 June. Cf. page 6 and *Journal de conchyliologie* 2 (2): 229, indicating that it was published between 15 and 30 June.

[Page 184] Morelet A. 1860e: date should be 11 August (*Bibliographie de France* (2ème série) 4 (1): 375, item 7202).

[Page 184] Morelet A. 1862: the December issue of the *Revue et magasin de zoologie pure et appliquée* was published in the next month; date should be 31 January 1863.

[Page 190] *Unio abnormis*: publication year is 1863. Also to be corrected on p. 513.

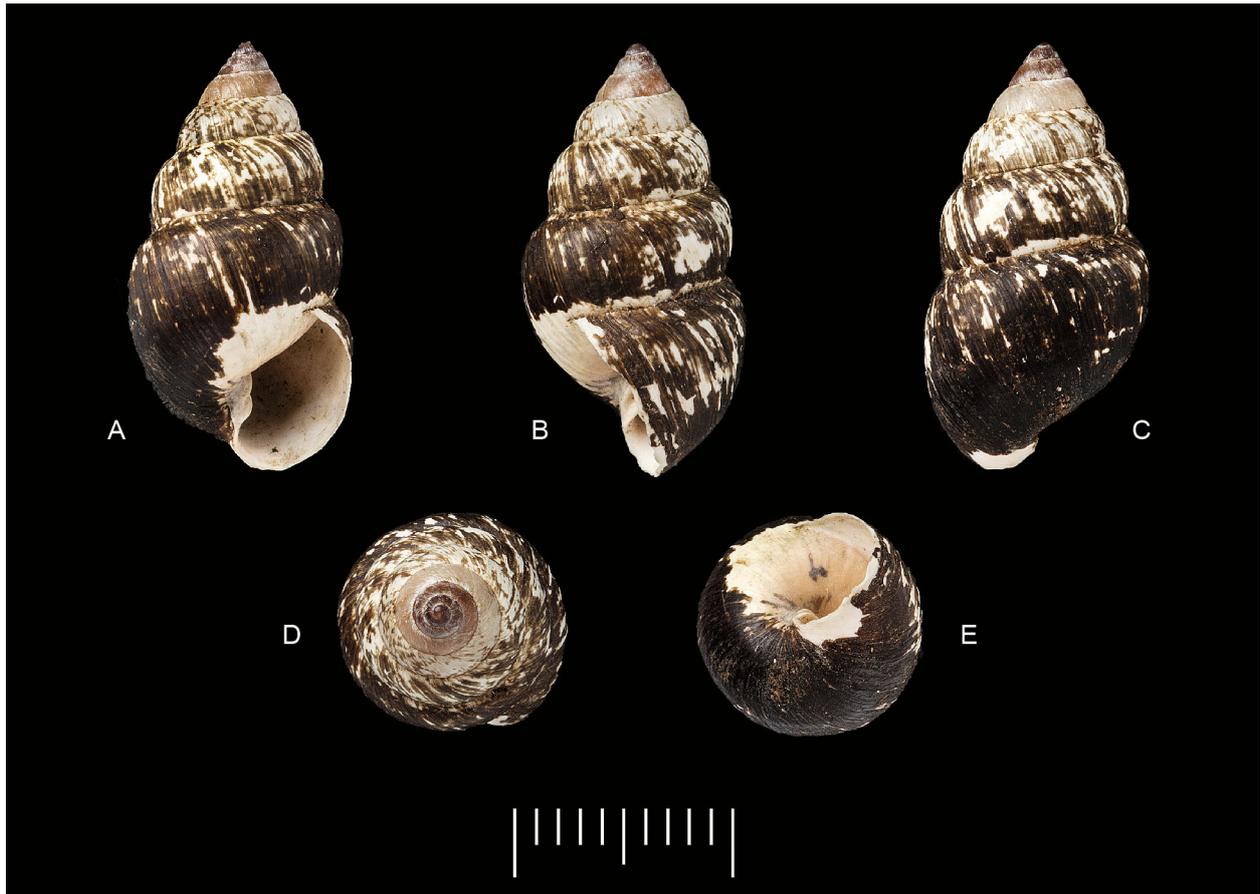


Figure 1. *Amastra (Amastra) assimilis* (Newcomb, 1854), syntype of *Achatinella deshaysii* Morelet, 1857. NHMUK 1893.2.4.1532, scale 1 cm.

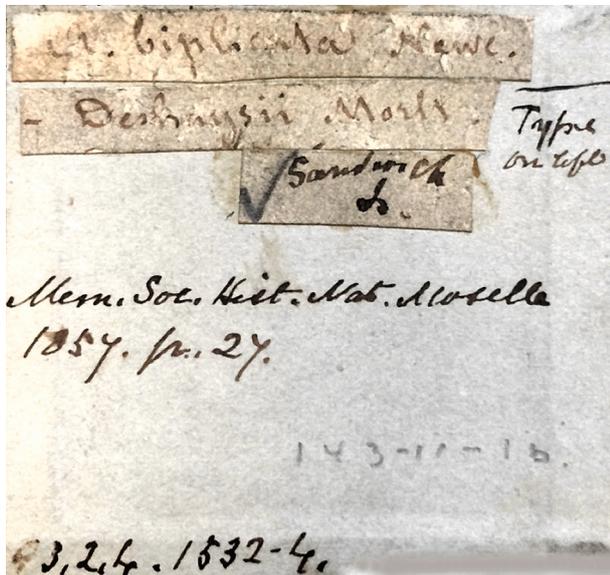


Figure 2. Label of *Achatinella deshaysii* Morelet, 1857. NHMUK 1893.2.4.1532.

[Page 195] *Cylindrella aequatoria*: the current classification of this taxon is with the genus *Arangia* Pilsbry & Vanatta, 1898. Tomlin (1912) recognised it as a Cuban species. On the label a later hand has noted “= sowerbyana, Pfr.”; we found both

taxa (*sowerbyana* L. Pfeiffer, 1850 and *aequatoria* Morelet, 1873) listed as *Arangia* species in Espinosa & Ortea (2009: 180). The type material for Pfeiffer’s taxon, though described from the Cuming collection, could not be located. Hence we refrain from giving an opinion on the possibility that both taxa are identical.

[Page 217] The NHMUK material of *Anodonta bellula* is incorrectly mentioned as “syntype”; the label (fig. 114) mentioned “paralectotype”. Johnson (1971: 80) already mentioned this. The lectotype was selected in Johnson (1956: 107): MCZ 175610.

[Page 225] *Melanopsis brevis*: current systematic position has to be updated as *Melanopsis frustulum* is now *Caledomelanella frustulum* (Morelet, 1857); see Neiber & Glaubrecht (2019: 417).

[Page 226] *Ennea bulbulus*: publication year is 1863. Also to be corrected in Figures 153–154 on p. 227, and pp. 521, 529, 536.

[Page 240] *Helix chrysosticta*: change “Remarks” in: The current systematic position was revised by Holyoak et al. (2020: 286), who consider this taxon as a junior subjective synonym of *Apothapsia thomensis* (Dohrn, 1866).

Figure legend: *Apothapsia thomensis* (Dohrn, 1866), syntype of *Helix crysosticta* Morelet, 1867, NHMUK 1893.2.4.1081. Scale line 1 cm.

[Page 242] *Physa circumlineata*: although the source of Morelet's specimens remains unknown, and the locality is very imprecise, this taxon is “almost certainly a synonym of the most widespread species *Glyptophysa* (*Glyptophysa*) *novaehollandica* (Bowdich, 1822)” (W. Ponder, in litt., 20 April 2020).

[Page 242] *Planorbis circumspissus*: publication year is 1863. Also to be corrected on p. 518.

[Page 261] *Pupa crystallum*: change “Remarks”: Current classification is *Gulella crystallum* (Morelet, 1848) according to Holyoak et al. (2020: 266).

[Page 278] *Bulimus eminulus*: add to “Remarks”: Current classification *Gittenedouardia eminula* (Morelet, 1848) according to Holyoak et al. (2020: 277).

[Page 282] *Vitrina exilis*: in the original publication (Morelet 1858b: 8) the type locality is given as “Pétropolowski”. Unfortunately Morelet did not remark upon the provenance of his material, which he did not collect himself.

Remarks: Gratacap (1901: 353) mentioned one specimen of this species in the AMNH collection, with provenance from the “Binney and Bland collection”, where the same locality was spelled as Petropolavski. We have been unable to locate this place with modern gazetteers, however, we assume that Petropavlovsk in Kamchatka was meant. Lily Berniker (in litt., 23 September 2018) informed “I found the specimen of *Vitrina exilis* mentioned in Gratacap's 1901 publication. The label with the specimen says “Petropauluski Dall”, so I believe that the collector is Dall, and according to our catalog record, this is Bland's label. I don't know if he received it from Dall directly, or if it went through another person before it was part of Bland's collection. In addition to the AMNH label, which indicates that this specimen came from the Binney and Bland Collection (B & B Coll. in the top right of the label), there is an original label, and a handwritten copy of the original label (which says “copied from Bland label”)” (Fig. 3). We have no evidence of direct contact between Morelet, Bland or Dall (Breure et al., 2018: 29). The only possibility would have been Crosse acting as middleman since he was in contact with all three persons. However, his first contact with Bland for which we have evidence dated from 1863 (Breure & Hovestadt, 2019) and was thus too late to explain a possible connection. As the material is from the type locality, it is a candidate for neotype selection if needed. The specimen is catalogued as AMNH 56514.

[Page 283] *Hydrocena fasciolata*: publication year is 1863. Also to be corrected on p. 517.

[Page 284] *Bulimus fastigiatus*: change reference in last line to: Holyoak et al. (2020: 271).



Figure 3. Labels of *Vitrina exilis* Morelet, 1858. AMNH 56514 (courtesy L. Berniker).

[Page 287] *Helix folini*: add: Currently classified as *Principitrochoidea* D. Holyoak & G. Holyoak, 2020 [Helicarionidae] (Holyoak et al., 2020: 299).

[Page 289] *Melanopsis frustulum*: current systematic position has to be updated as *Caledomelanella frustulum* (Morelet, 1857); see Neiber & Glaubrecht (2019: 417).

[Page 290] *Achatina fuscidula*: classified as *Ischnoglessula fuscidula* (Morelet, 1858) by Holyoak et al. (2020: 249).

[Page 309] *Unio imperialis*: publication year is 1863. Also to be corrected on p. 513.

[Page 321] *Cyclostoma leferi*: considered as valid species by Bui & Páll-Gergely (2020: 451 [as *Coptocheilus leferi*]). Also to be corrected on p. 515.

[Page 326] *Hydrocena lirata*: publication year is 1863. Also to be corrected on pp. 517, 528, 534.

[Page 330] *Anodon lucasii*: although published as a new species, this appears to be a description of the species figured as *Anodonta lucasii* by Deshayes (1848: pl. 108 figs 1–3). Cf. Johnson (1971: 87, pl. 1 fig. 2).

[Page 332] *Paludina lurida*: publication year is 1863. Also to be corrected on pp. 515, 532, 534.

[Page 334] *Cyrena* (*Corbicula*) *lutea*: publication year is 1863. Also to be corrected on pp. 514, 530, 534.

[Page 334] *Cyclostoma lychnus*: publication year is 1863. Also to be corrected on p. 515. Sutcharit et al. (2019: 36) selected a lectotype: NHMUK 1893.2.4.501.

[Page 352] *Unio misellus*: current systematic position to be updated to *Contradens misellus* (Morelet, 1865); see Konopleva et al. (2019: 7).

[Page 358] *Achatina monticola*: Remarks Currently classified as *Petriola monticola* (Morelet, 1866) by Holyoak et al. (2020: 260).

[Page 361] *Achatina musaecola*: add to remarks: Considered by Holyoak et al. (2020: 273) as *Tomostele musaecola* (Morelet, 1860).

[Page 395] *Cyrena (Batissa) primei*: publication year is 1863. Also to be corrected on p. 514.

[Page 435] *Pupa sorghum*: update “Remarks” to: Current classification is *Gulella sorghum* (Morelet, 1848) according to Holyoak et al. (2020: 267).

[Page 437] *Limnea spadicea*: publication year is 1863. Also to be corrected on p. 517.

[Page 439] *Cyclostoma spiniferum*: the correct name of the current systematic position is *Opisthoporus biciliatus* (Mousson, 1849).

[Page 447] *Helix superlita*: publication year is 1863. Also to be corrected on pp. 525, 534, 539.

[Page 460] *Bulimus tubulatus*: the type material is MHNG-MOLL-60329.

[Page 461] *Monocondylus tumidus*: current systematic position is *Sundadontina tumidus* (Morelet, 1866) according to Bolotov et al. (2020: 10).

[Page 463] *Paludina turbinata*: publication year is 1863. Also to be corrected on p. 527.

[Page 467] *Melanopsis variegata*: current systematic position has to be updated as *Melanopsis frustulum* is now *Caledomelanella frustulum* (Morelet, 1857); see Neiber & Glaubrecht (2019: 417).

[Page 472] *Pupina vescoi*: publication year is 1863. Also to be corrected on p. 515.

[Page 489] *Plutonia*: the International Commission on Zoological Nomenclature has ruled that the authorship for this genus should be Morelet *in* Stabile, 1864 and placed it as such on the Official List of genera in Zoology (ICZN, 1997). See also Breure et al., 2018: 9, 525, and 537.

[Page 491] Insert: *Trochonanina (Trochozonites) moreleti* Germain, 1915: 287. Gastropoda, Achatinidae.

[Page 493] Insert:

Bolotov I.N., Konopleva E.S., Vikhrev I.V., Gofarov M.Y., Lopes-Lima M., Bogan A.E., Lunn Z., Chan N., Win T., Aksenova O.V., Tomilova A.A., Tanmuangpak K., Tumpeesuwan S. & Kondakov A.V. 2020. — New freshwater mussel taxa discoveries clarify biogeographic division of Southeast Asia. *Scientific Reports* 10(6616): 1–22.

[Page 497] Insert:

Drouët, H. 1892a. — Arthur Morelet. *Bulletino della Società Malacologica Italiana* 16: 261–262.

Drouët H. 1892b. — Notice biographique. *Procès-Verbaux des Séances de la Société malacologique de Belgique* 21: lxxvi–lxxvii.

Change the existing reference in Drouët, H., 1892c.

[Page 498] Insert:

Germain L. 1915. — Contributions à la faune malacologique de l'Afrique équatoriale. XLI. Mollusques nouveaux des îles du Golfe de Guinée. *Bulletin du Muséum national d'Histoire naturelle* 21(7): 283–290.

[Page 499] Insert:

Holyoak D.T., Holyoak G.A., de Lima R.F., Panisi M. & Sinclair, F. 2020. — A checklist of the land Mollusca (Gastropoda) of the islands of Sao Tome and Principe, with new records and descriptions of new taxa. *Iberus* 38(2): 219–319.

[Page 507] under “C” insert: *Caledomelanella frustulum* (Morelet, 1857) [Melanopsidae] 225, 289, 467

[Page 508] *Helix crysosticta*: change from bold to normal type.

[Page 508] *Helix folini*: change family to Helicarionidae.

[Page 510] *Melanopsis frustulum*: in regular type.

[Page 513] *Monocondylus tumidus* Morelet, 1866 [= *Sundadontina tumidus* (Morelet, 1866)]

[Page 513] *Unio misellus* Morelet, 1865 [= *Contradens misellus* (Morelet, 1865)]

[Page 515] *Melanopsis brevis* Morelet, 1857 [= *Caledomelanella frustulum* (Morelet, 1857)]

[Page 515] *Melanopsis frustulum* Morelet, 1857 [= *Caledomelanella frustulum* (Morelet, 1857)]

[Page 516] *Melanopsis variegata* Morelet, 1857 [= *Caledomelanella frustulum* (Morelet, 1857)]

[Page 518] *Physa circumlineata* Morelet, 1857 [= *Glyptophysa (Glyptophysa) novaehollandica* (Bowdich, 1822)]

[Page 519] *Achatina monticola* Morelet, 1866 [= *Petriola monticola* (Morelet, 1866)]

[Page 519] *Achatina musaecola* Morelet, 1860 [= *Tomostele musaecola* (Morelet, 1860)]

[Page 523] *Bulimuseminulus* Morelet, 1848 [= *Gittenedouardia eminula* (Morelet, 1848)]

[Page 526] *Helix crysosticta* Morelet, 1867 [= *Apothapsis thomensis* (Dohrn, 1866)]

[Page 527] *Helix folini* Morelet, 1848 [= *Principitrochoidea folini* (Morelet, 1848)]

[Page 528] delete *anostoma* (Benson, 1852), *Schistoloma* 321

[Page 528] insert after *Comoropeas apiculum*: *Apothapsis thomensis* (Dohrn, 1866) 240

[Page 529] delete *Bocageia monticola* (Morelet, 1866) 358

[Page 529] insert after *Caldwellia philyrina*: *Caledomelanella frustulum* (Morelet, 1857) 225, 289, 467

[Page 530] delete *chrysosticta* (Morelet, 1867), *Thapsia* 240

[Page 530] insert after *constellata*: *Contradens misellus* (Morelet, 1865) 352

[Page 530] insert after *Conulinus vesconis*: *Coptocheilus leferi* (Morelet, 1861) 321

[Page 531] *eminula* (Morelet, 1848), *Gittenedouardia* 278

[Page 531] delete *exolescens* (Gould, 1843), *Trapezoideus* 352

[Page 532] *frustulum* (Morelet, 1857), *Caledomelanella frustulum* 225, 289, 467

[Page 532] insert after *Gittenbergia turriplata*: *Gittenedouardia eminula* (Morelet, 1848), 278

[Page 534] insert after *Leiostyla vermiculosa*: *leferi* (Morelet, 1861), *Coptocheilus* 321

[Page 535] insert after *minutalis*: *misellus* (Morelet, 1865), *Contradens* 352

[Page 535] *monticola* (Morelet, 1866), *Petriola* 358

[Page 537] insert after *Petriola anjunanensis*: *Petriola monticola* (Morelet, 1866) 358

[Page 538] delete *Rachis eminulus* (Morelet, 1848) 278

[Page 539] delete *Thapsia chrysosticta* (Morelet, 1867), 240

[Page 539] insert after *Thiara macrospira*: *thomensis* (Dohrn, 1866), *Apothapsis* 240

[Page 539] insert after *Tomocyclus simulacrum*: *Tomosteles musaecola* (Morelet, 1860) 361

[Page 539] delete *Trapezoideus exolescens* (Gould, 1843) 352

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