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Notes on taxonomy and nomenclature of Pectinidae (Mollusca: Bivalvia)
1. *Anguipecten picturatus* nom. nov.

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Taxonomic and nomenclatural notes of several species group names with the epithets *aurantia(us)* and *aurantiaca(us)* are given. *Anguipecten picturatus* nom. nov. is introduced for *Pecten aurantiacus* Adams & Reeve, 1850, nec Röding, 1798. A lectotype of *Ostrea senatoria* Gmelin, 1791 is designated.

Key words: Bivalvia, Pectinidae, *Anguipecten*, taxonomy, nomenclature.

During comparative studies of Recent Pectinidae taxa, it was noted that several actually used species names are preoccupied and in need of rectification. In this series new names of taxa are proposed in accordance with the third edition of the International Code of Zoological Nomenclature (ICZN, 1985), and their current classification is treated.

This first part deals with the epithets *aurantia(us)* and *aurantiaca(us)*. One new species name (*Anguipecten picturatus* nom. nov. for *Pecten aurantiacus* Adams & Reeve, 1850, nec Röding, 1798) is introduced and a lectotype is designated for *Ostrea senatoria* Gmelin, 1791.

Abbreviations. — BMNH = The Natural History Museum, London, Great Britain; MNHN = Muséum National d'Histoire Naturelle, Paris, France; NNM = Nationaal Natuurhistorisch Museum, Leiden; ZMA = Zoölogisch Museum, Amsterdam; ZMUC = Zoological Museum, University of Copenhagen.

aurantia(us)

Ostrea aurantia Gmelin, 1791: 3321, sp. 37.

Holotype. — Regenfuss, 1758: pl. 11 fig. 56.

Remarks. — Gmelin (1791) only referred to Regenfuss (1758: pl. 11 fig. 56) without mentioning the text page of Kratzenstein (in Regenfuss, 1758: 75). The data given by Gmelin (1791: 3321) and Kratzenstein (in Regenfuss, 1758: 75) together with Regenfuss' figures imply that *Ostrea aurantia* is a junior synonym of *O. glabra* Linnaeus, 1758. Recent authors (Waller, 1986; Wagner, 1991) assign this species to the genus *Flexopecten* Sacco, 1897, which is placed by Waller (1986) in the tribe Decatopectinini.

Current combination. — *Flexopecten glaber* (Linnaeus, 1758).

Distribution. — Mediterranean Sea.

Pecten aurantius Bosc, 1802: 261.

Remarks. — Bosc (1802) only referred to Regenfuss' figure (1758: pl. 11 fig. 56). Most probably, he did not have the intention to create a new species name. This name is a

secondary junior homonym of *Ostrea aurantia* Gmelin, 1791. The two nominal taxa are objective synonyms as well; both are based on the same holotype.

Pecten aurantius Lamarck, 1819: 175, sp. 45.

Lectotype. — MNHN (designation by Dijkstra, 1994: 488, pl. 25 figs. 106-110).

Remarks. — Lamarck (1819) referred to "*Ostrea citrina?* Gmelin, 1791: 3327, sp. 62" and "Chemnitz, 1784: pl. 65 fig. 618?", and used the same species name as Gmelin (1791: 3321, sp. 37) did, without referring to that author. Therefore, this is a secondary junior homonym of *Ostrea aurantia* Gmelin, 1791, and a primary junior homonym of *Pecten aurantius* Bosc, 1802. According to the lectotype, this is a subjective junior synonym of *Ostrea senatoria* Gmelin, 1791. The following specimen is here designated lectotype of *Ostrea senatoria* Gmelin, 1791: ZMUC BIV-45 (H 69 mm, L 66 mm, D 26 mm), with the data "Oceano indico" [Moluccas, Indonesia (see Chemnitz, 1784: 320)], Moltke collection.

Waller (1991, 1993) assigned this species to the genus *Mimachlamys* Iredale, 1929, which is placed by Waller (1991) in the tribe Mimachlamydini.

Current combination. — *Mimachlamys senatoria* (Gmelin, 1791).

Distribution. — Throughout the Indo-Pacific region.

aurantiaca(us)

Chlamys aurantiaca Röding, 1798: 164.

Remarks. — Röding (1798) only referred to Gmelin (1791: 3321, sp. 37), and placed Gmelin's species in the genus *Chlamys* Röding, 1798. Röding's unnecessary replacement name is an objective junior synonym of *Ostrea aurantia* Gmelin, 1791.

Pecten aurantiacus J. Sowerby, 1820: pl. 116 fig. 5.

Remarks. — Sowerby's figure makes clear, that this is *Ostrea glabra* Linnaeus, 1758. As a consequence, Sowerby's *P. aurantiacus* is a subjective junior synonym of *Flexopecten glaber* (Linnaeus, 1758).

Pecten aurantiacus DeFrance, 1825: 248.

Remark. — DeFrance (1825) only referred to Regenfuss (1758: pl. 11 fig. 56). Therefore, this nominal taxon is an objective junior synonym of *Ostrea aurantia* Gmelin, 1791. It is also a secondary junior homonym of *Chlamys aurantiaca* Röding, 1798.

Pecten aurantiacus A. Adams & Reeve, in A. Adams, 1850: 74, pl. 21 fig. 12. Holotype (BMNH 1950.11.14.8). Type locality: China Sea.

Pecten aurantiacus Adams & Reeve; Reeve, 1853: sp. 105, pl. 26 fig. 105; Küster & Kobelt, 1888: 171, pl. 47 fig. 7.

Anguipecten aurantiacus (Adams & Reeve); Dijkstra, 1984: 9, figs.; 1991: 41.

Decadopecten (Anguipecten) aurantiacus (Adams & Reeve); Rombouts, 1991: 38, pl. 13 fig. 12.

Remarks. — Adams & Reeve (1850) overlooked the earlier use of the same epithet in Pectinidae by Röding (1798), J. Sowerby (1820) and DeFrance (1825). Their nominal taxon is a primary junior homonym of both *P. aurantiacus* J. Sowerby, 1820, and *P.*

aurantiacus DeFrance, 1825. No synonyms are known. Therefore, a new name is introduced here:

***Anguipecten picturatus* nom. nov.**

According to modern views (Dijkstra, 1984, 1991; Waller, 1986), this taxon should be assigned to the genus *Anguipecten* Dall, Bartsch & Rehder, 1938, which is placed in the tribe Decatopectinini by Waller (1986).

Etymology. — Lat., *picturatus* = gay-coloured.

Distribution. — Western and southwestern Pacific.

Pecten varius var. *aurantiaca* (sic) Clément, 1875: 26.

Remarks. — Clément (1875) might have overlooked that this name was preoccupied. According to the ICZN (1985: art. 45g) a variety name published before 1961 is dealt with as a subspecific name. Therefore, this is a secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Because this is only a yellow colour form of *Mimachlamys varia* (Linnaeus, 1758), a new name is not necessary.

Pecten felipes var. *aurantiaca* (sic) Locard, 1888: 29.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Manupecten pesfelis* (Linnaeus, 1758).

Pecten niveus var. *aurantiaca* (sic) Locard, 1888: 37.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Mimachlamys varia nivea* (Macgillivray, 1825).

Pecten multistriatus var. *aurantiaca* (sic) Locard, 1888: 41.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. This species has formerly been assigned to the genus *Chlamys*. Current combination (Waller, 1993): *Crassadoma multistriata* (Poli, 1795).

Pecten distans var. *aurantiaca* (sic) Locard, 1888: 64.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Flexopecten glaber* (Linnaeus, 1758).

Pecten griseus var. *aurantiaca* (sic) Locard, 1888: 68.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Flexopecten glaber* (Linnaeus, 1758).

Pecten unicolor var. *aurantiaca* (sic) Locard, 1888: 75.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Flexopecten glaber* (Linnaeus, 1758).

Pecten proteus var. *aurantiaca* (sic) Locard, 1888: 85-86.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Flexopecten glaber* (Linnaeus, 1758).

Pecten clavatus var. *aurantiaca* (sic) Locard, 1888: 104.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Pseudamussium clavatum* (Poli, 1795).

Pecten incomparabilis var. *aurantiaca* (sic) Locard, 1888: 134.

Remarks. — A secondary junior homonym of *Chlamys aurantiaca* Röding, 1798. Current combination: *Palliolium incomparabile* (Risso, 1826).

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