

**Erratum\* and updates for Chapter 9 (Mollusca: Gastropoda) of An identification guide to the larval marine invertebrates of the Pacific Northwest edited by AL Shanks**

Jeffrey H. R. Goddard, April 2005 (updated February 2011)

Note on geographic coverage. This chapter covers Oregon waters and was not intended to cover the entire Pacific Northwest. The change from Oregon to Pacific Northwest in the 1<sup>st</sup> paragraph (p. 86), means that the 400 species mentioned in that paragraph should actually be about 525 species, the 255 species mentioned in the 3<sup>rd</sup> paragraph about 350, and some 25 genera and 8 families added to Table 2. As it now stands, these additional taxa are not considered in either the key or Appendix A, both of which still refer only to Oregon.

p. 89, end of 2<sup>nd</sup> paragraph. Appendix A is on pp. 116-120, not 118-122.

Figure 1 (p. 90). Feet should read foot.

Figure 2 (p. 90). Anteric-right lateral view should read antero-right lateral view.

p. 92, end of 3<sup>rd</sup> paragraph. Appendix B is on p. 121, not 123.

p. 94, lower right. Doridacean multibranch should read doridacean nudibranch, and *Pleurobranchae* should read *Pleurobranchaea*.

p. 94, bottom. Patellogastropoda should read Patellogastropoda.

p. 95, middle right. 2-4.1 to 4-2 should read 2-4-1 to 2-4-2.

p. 95, legend for Figure 6. Shell-, should simply read shell.

P. 102, middle right. Notaspidean heterobranchs should be omitted here because they lack an operculum and key out on p. 94. However, if Notaspidean heterobranchs is replaced here by umbraculoidean heterobranchs (see taxonomic update below for Notaspidea), then this result would apply to *Anidolyta spongotheras*, the one umbraculoidean known from the Pacific Northwest. In contrast to the Pleurobranchoidea, larvae of the Umbraculoidea possess an operculum.

p. 103, lower left. Figure needs label: 2-2-2.

p. 106, lower right. Figure 2-4-1 needs the caption: **Net-like sculpture** on shell.

p.108, middle right. Ctmatiidae should read Cymatiidae.

p.114, upper right. *Cuverina* should read *Cuvierina*.

p.115, bottom. *Thyonicola* should be italicized.

p.120, near top. 46, Goddard (in press) should read 46, Goddard (2001).

p. 121, 5<sup>th</sup> entry. 2a (personal) should read (2A) (personal).

p. 123. Correct pages for Goddard (2001) are 398-400.

### Updates:

The value given in Appendix A for shell-size at metamorphosis for *Dendronotus frondosus* should be approximately 300 µm. Sisson (2005, *Hydrobiologia* 541:205-213) determined that the type 2 shells of this species from the Atlantic Ocean are incompletely developed at hatching and grow significantly during the larval period. This is in contrast to the shells of most other species with type 2 shells, which are fully formed at hatching.

Additional information on mode of development of species from the northeast Pacific Ocean can be found in:

Goddard JHR (2004) Developmental mode in opisthobranch molluscs from the northeast Pacific Ocean: feeding in a sea of plenty. *Canadian Journal of Zoology* 82: 1954-1968, and

Goddard JHR (2005) Ametamorphic direct development in *Dendrodoris behrensi* (Nudibranchia: Dendrodorididae), with a review of developmental mode in the family. *Proceedings of the California Academy of Sciences* 56: 201-211.

Taxonomic updates, following Behrens & Hermosillo (2005) and more recent authors included below:

The Notaspidea are polyphyletic, consisting of two unrelated superfamilies, the Umbraculoidea and the Pleurobrancoidea. All uses of Notaspidea in Chapter 9 apply to two species (*Berthella californica* and *Pleurobranchaea californica*) in the latter superfamily. Therefore Notaspidea should be replaced with Pleurobrancoidea on p. 94, lower right; p. 96, middle right; and in the Appendix. Also see correction above for p. 102.

*Adalaria* sp. = *Adalaria evincta* Millen, 2006

*Anisodoris lentiginosa* = *Peltodoris lentiginosa*

*Anisodoris nobilis* = *Peltodoris nobilis*

*Archidoris montereyensis* = *Doris montereyensis*

*Archidoris odhneri* = *Doris odhneri*

*Hopkinsia rosacea* = *Okenia rosacea*

According to Stout et al. (2010, J. Moll. Stud. 76:367-375) *Dendronotus frondosus* =  
*Dendronotus venustus* MacFarland, 1966

*Doto* form B = *Doto columbiana* O'Donoghue, 1921

*Dirona aurantia* = *Dirona pellucida* Volodchenko, 1941

*Flabellina fusca* = *Flabellina trophina* (Bergh, 1894)

\* Most of the errors corrected here crept into the manuscript after the author completed it, and the author was not given an opportunity to examine and correct proofs prior to publication.