

Alia carinata (Hinds, 1844)

| Nomenclature | | |
|--|---|--|
| Phylum | Mollusca | |
| Class | Gastropoda | |
| Order | Neogastropoda | |
| Family | Columbellidae | |
| Common Synonyms (S) Previous Names (PN) | Columbella californiana, Columbella carinata, Mitrella carinata, Nitidella carinata | |

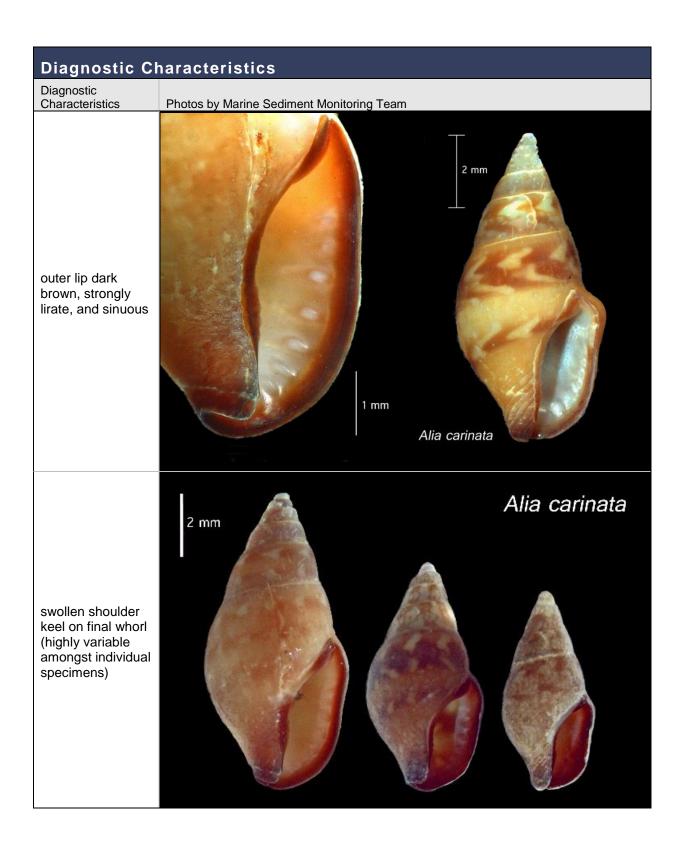
| Distribution | |
|----------------------------|--|
| Type Locality | |
| Geographic Distribution | Southern Alaska to Baja California. Depths for Ecology records: 1 – 22 m. |



Description

Length to 10mm; **protoconch** multispiral- usually eroded; **shape** oval-fusiform; shell thick; **periostracum** fine and glossy; **whorls** slightly convex; **shoulder** of the body whorl varying from smooth to strongly carinate (keeled); **sculpture** smooth; **color** highly variable, usually yellow- brown to dark brown, sometimes with white and darker brown mottling; **carina/keel** usually lighter in color than the rest of shell; **aperture** elongated with pinkish —white interior; **outer lip** is dark brown and sinuous with strong elongated teeth within; **canal** with incised spiral lines

| Related Species and Characteristic Differences | | |
|--|--|--|
| Species Name | Diagnostic Characteristics | |
| Astyris gausapata | Lacking swollen shoulder keel on final whorl; outer lip weakly lirate; sculpture has weak/microscopic axial striations; paucispiral protoconchusually eroded | |



Literature

- Harbo, R.M. 1997. Shells & Shellfish of the Pacific Northwest A Field Guide. Madeira Park, BC: Harbor Publishing. pp. 97, 216.
- Hinds, R.B. 1844-45. The zoology of the voyage of H.M.S. *Sulphur*, under the command of Capt. Sir Edward Belcher...during 1836-1842. London, Mollusca, 1-48 [1844], 49-72 [1845], pls. 1-25. p. 39.
- McLean, J.H. 2007. Gastropoda In: Carlton, J. T., Eds. *The Light and Smith Manual. Intertidal Invertebrates from Central California to Oregon.* 4th ed. Los Angeles, CA: University of California Press. pp. 743-745.
- McLean, J.H. 1996. The Prosobranchia. In: Scott, P.H., Blake, J.A., Lissner, A.L. Eds. *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel.* Volume 9. ISBN 0-93649-14-X. Santa Barbara: Santa Barbara Museum of Natural History. The Mollusca Part 2 The Gastropoda. pp. 109, 155.
- McLean, J.H. 1969. Marine Shells of Southern California. Los Angeles County Museum of Natural History. Science Series 24, Zoology No. 11. p. 48.

More Information

More information about Puget Sound benthic invertebrates is available at:

http://www.ecy.wa.gov/programs/eap/psamp/index.htm

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