

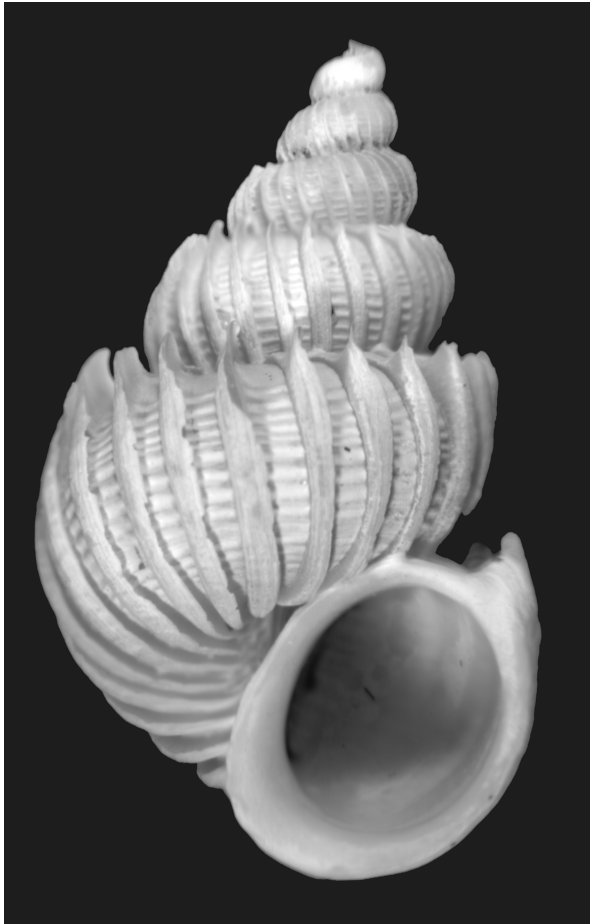
Epitonium Group (21 subgenera worldwide)  
axial costae thin, basal disk absent, spiral sculpture not punctate

Species	Length (mm)	Width (mm)	Spiral Sculpture	Whorls*	Number of Costae/Whorl	Axial Costae Reflected	Shoulder	Umbilicus	Depth (m)
<i>bellastriatum</i> **	3 - 20	2.33 - 11	present: 20 - 25 / whorl	3 + 6 - 7	15 - 17 (20)	yes	strong	yes	18 - 103
<i>lowei</i> **	3 - 30	1.5 - 9	present: fine	4 + 5 - 9	25 - 32	yes	slight to strong spine	yes	25 - 171
<i>minuticosta</i> **	3 - 35	1.5 - 17	present: 20	3 + 7 - 8	13 - 21	yes	short, sharp	yes	18 - 137
<i>berryi</i>	3 - 22	0.75 - 8	absent	3 + 9 - 10	19 - 30	no	no	yes	20 - 360
<i>californicum</i>	4 - 11	2 - 4.5	absent	3 + 6 - 7	9 - 12	yes	small, sharp	no	0 - 36
<i>hindsii</i> **	3 - 26	1.5 - 10	absent	3 + 7 - 11	8 - 14	yes	slight to strong spine	no	0 - 195
<i>indianorum</i>	7.4 - 38	3.3 - 12	absent	8 - 10	10 - 17	slight	no(rare)	no	0 - 120
<i>politum</i> **	9 - 22	3.5 - 5	present or absent: fine	3 - 5 + 7 - 12	9 - 5 (low)	no	slight	no	11 - 393
<i>sawinae</i> **	3.5 - 24	1 - 8	absent	2 - 3 + 7 - 12	14 - 21	yes	pronounced	no	18 - 360
<i>tinctum</i>	4 - 15	1 - 5	absent	3 + 4 - 8	11 - 14	slight	no	no	0 - 40

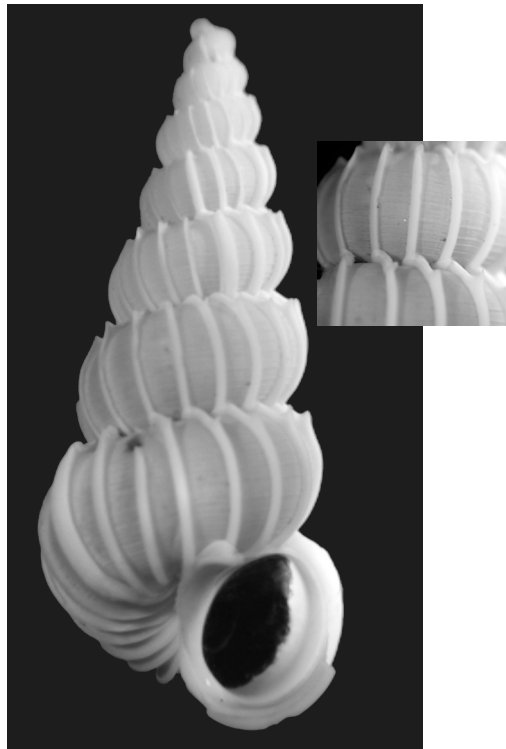
\* formula = number of nuclear whorls + Range of the number of post nuclear whorls

\*\* species examined at SCAMIT meeting

Epitoniidae  
September, 2002  
Images by K. Barwick



*Epitonium bellastriatum* (Carpenter, 1864)  
Station: CSD I22(2), 1/4/02, 91 ft.  
Length: 7.6 mm  
Width: 4.4 mm

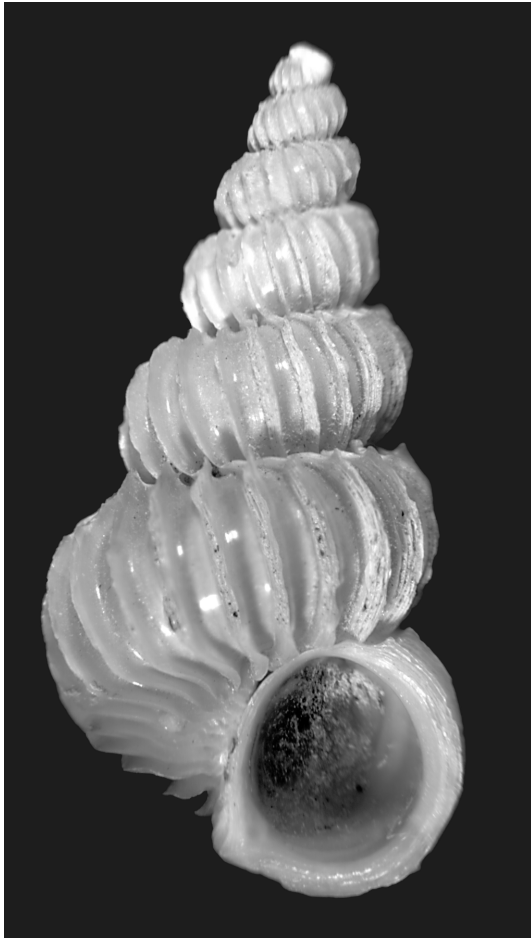


*Epitonium minuticosta* (DeBoury, 1912)  
inset: shell detail  
Station: CSD I28(1), 1/3/01, 185 ft.  
Length: 16.3 mm  
Width: 6.8 mm

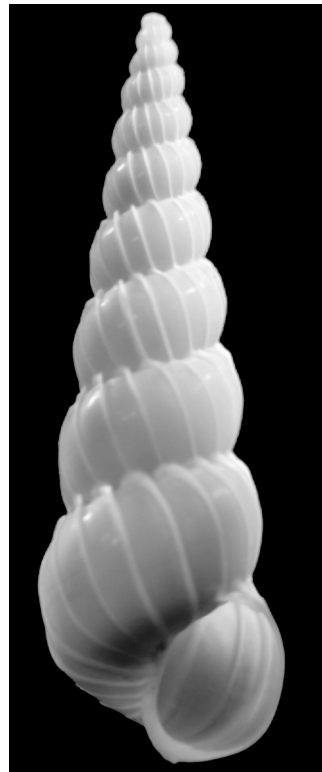


*Epitonium lowei* (Dall, 1906)  
Station: CSD B10(2), 10/12/93, 387 ft.  
Length: 15.5 mm  
Width: 7.9 mm

Epitoniidae  
September, 2002  
Images by K. Barwick



*Epitonium sawinae* (Dall, 1903)  
Station: CSD B13(1), 2/7/92, 380 ft.  
Length: 8.2 mm  
Width: 4.2 mm



*Epitonium politum*  
(G.B. Sowerby II, 1844)  
LACSD



*Epitonium hindsii* (Carpenter, 1856)  
Station: B'98 2252, 7/29/98, 10.9 m  
Length: 19.1 mm  
Width: 6.9 mm

Opalia Group (4 subgenera)

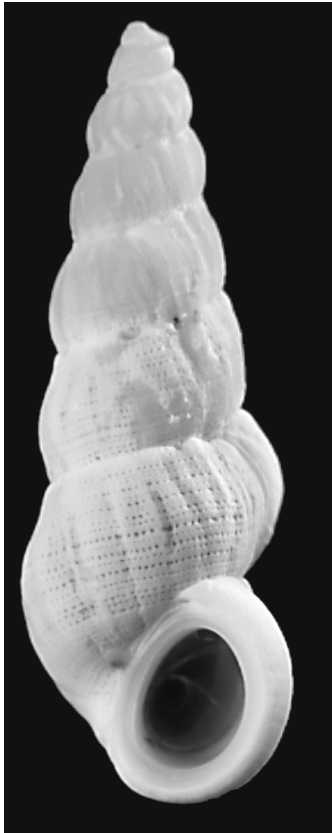
axial costae thick, basal disk usually present, punctate spiral sculpture

<b>Species</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Whorls*</b>	<b>Ribs/Whorl</b>	<b>Basal Disk</b>	<b>Depth (m)</b>
<i>borealis</i>	6.5 - 43	3 - 13	1.5 + 8 - 11	7	present	0 - 180
<i>funiculata</i> **	5 - 17	3 - 8	3 - 4 + 5 - 7	12 - 16	present	0 - 30
<i>infrequens</i>	7 - 12	2 - 4	2 + 8	15 - 20	present	0 - 36
<i>montereyensis</i>	2.5 - 16	1.5 - 5	1.5 + 7 (6 - 9)	8 - 10	present	0 - 90
<i>spongiosa</i> **	7 - 13	2.5 - 5.5	2.5 + 7 (8 - 9)	10 - 15	weak	18 - 72

\* formula = number of nuclear whorls + Range of the number of post nuclear whorls

\*\* species examined at SCAMIT meeting

Epitoniidae  
September, 2002  
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*Nodiscala spongiosa* (Carpenter, 1864)  
Station: CSD I3(1), 7/5/00, 86 ft.  
Length: 10.1 mm  
Width: 3.7 mm



*Opalia funiculata* (Carpenter, 1857)  
Station: SCBPP 1739, 7/28/94, 21 m  
Length: 4.3 mm  
Width: 2.5 mm