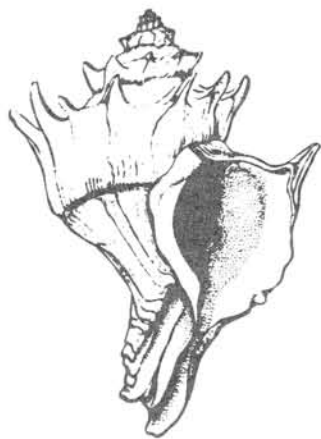


# Marine Molluscan Genera of Western North America



AN ILLUSTRATED KEY

S 2986

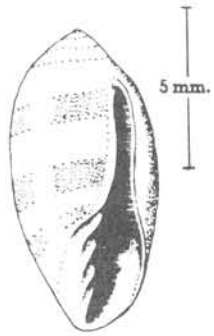


A. Myra Keen

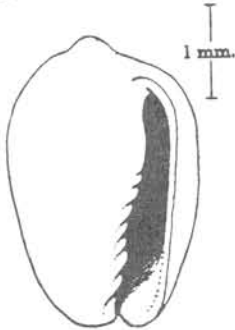
*With the assistance of* EUGENE COAN

STANFORD UNIVERSITY PRESS • STANFORD, CALIFORNIA • 1963

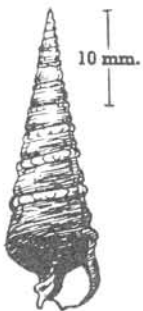
KEYS TO THE GENERA



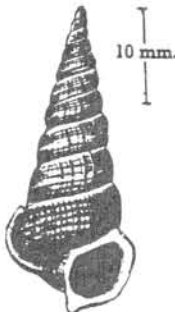
Marginella



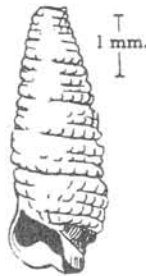
Cystiscus



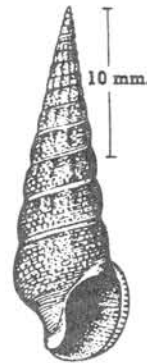
Terebra



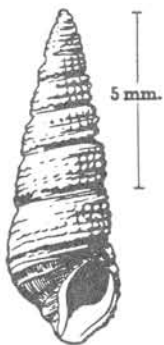
Cerithidea



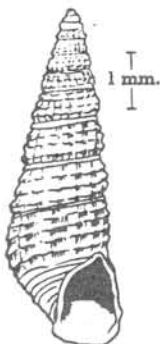
Triphora



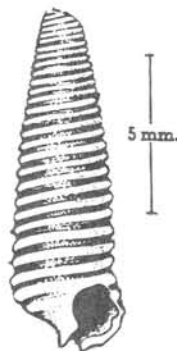
Batillaria



Bittium



"Diastoma"



Seila



Boreomelon

- 151(149) Spire evident ..... *Marginella*  
 Spire low, suture indistinct. .... *Cystiscus*
- 152(147) Turriform, spire with numerous whorls... 153  
 Not turriform, spire whorls not especially  
 numerous ..... 161
- 153(152) With columellar folds ..... *Terebra*  
 Without columellar folds ..... 154
- 154(153) With varices in the form of irregularly  
 spaced axial swellings ..... *Cerithidea*  
 Without axial swellings or varices ..... 155
- 155(154) Canal short, poorly differentiated ..... 156  
 Canal well developed, moderate to long.. 157
- 156(155) Aperture narrowed anteriorly ..... *Bittium*  
 Aperture flared anteriorly ..... "*Diastoma*"
- 157(155) Coiling sinistral ..... *Triphora*  
 Coiling dextral ..... 158
- 158(157) Whorls somewhat inflated, sculpture both  
 axial and spiral. .... 159  
 Whorls flattened, sculpture entirely spiral. *Seila*
- 159(158) Sculpture cancellate throughout ..... 160  
 Spire with axial ribs that fade out on lower  
 whorls ..... *Batillaria*

- 160(159) Sut  
 s  
 Sut  
 i  
 1
- 161(152) An  
 a  
 An
- 162(161) Co  
 Co  
 c
- 163(162) Co  
 t  
 Co
- 164(163) She  
 She
- 165(164) Ap  
 Ap
- 166(163) Ou  
 i  
 Ou
- 167(166) Ca:  
 c  
 Ca:
- 168(167) Sur  
 Sur

SYSTEMATIC LISTS

- Nassarina* Dall, 1889  
 (*Cigclirina*) Woodring, 1928  
 [= *Anachis*, auctt., in part]  
 Family 50. NASSARIIDAE  
*Ilyanassa* Stimpson, 1865  
 [Introduced from Atlantic]  
*Nassarius* Duméril, 1805  
 Family 51. FUSINIDAE  
*Fusinus* Rafinesque, 1815  
*Metzgeria* Norman, 1879  
*Ptychatractus* Stimpson, 1865  
 Family 52. VOLUTIDAE  
*Boreomelon* Dall, 1918  
*Phenacoptygma* Dall, 1918  
 Family 53. MITRIDAE  
*Mitra* Röding, 1798  
*Volutomitra* H. and A. Adams, 1853  
 Family 54. MARGINELLIDAE  
*Cypraeolina* Cerulli-Irelli, 1911  
 [= ?*Gibberulina* Monterosato,  
 1884; = *Merovia* Dall, 1921]  
*Cystiscus* Stimpson, 1865  
*Marginella* Lamarck, 1799  
 Family 55. OLIVIDAE  
*Olivella* Swainson, 1831  
**Suborder Toxoglossa** ["Bow tongue"]  
 Family 56. CANCELLARIIDAE  
*Admete* Möller, 1842  
*Cancellaria* Lamarck, 1799  
*Massyla* H. and A. Adams, 1854  
 Family 57. CONIDAE  
*Conus* Linnaeus, 1758  
 Family 58. TEREBRIDAE  
*Terebra* Bruguière, 1789  
 Family 59. TURRIDAE  
 Subfamily Turritinae  
*Carinoturris* Bartsch, 1944  
*Cryptogemma* Dall, 1918  
*Taranis* Jeffreys, 1870  
 Subfamily Borsoniinae  
*Borsonella* Dall, 1908  
*Mitromorpha* Carpenter, 1865,  
 ex Adams MS  
 ?*Oenopota* Mörch, 1852  
 [= *Lora*, *Bela*, auctt.]  
 (*Granotoma*) Bartsch, 1941  
 (*Nodotoma*) Bartsch, 1941  
 (*Propebela*) Iredale, 1918  
 ?*Ophiodermella* Bartsch, 1944  
 [= *Moniliopsis*, auctt.]  
*Rhodopetoma* Bartsch, 1944  
 Subfamily Clavinae  
*Burchia* Bartsch, 1944  
*Crassispira* Swainson, 1840  
*Elaeocyma* Dall, 1918  
 Subfamily Cochlespirinae  
*Antiplanes* Dall, 1902  
 (*Antiplanes*), s.s.  
 (*Rectiplanes*) Bartsch, 1944  
 [= *Spirotropis*, auctt.]

- Leucosyrinx* Dall, 1889  
 (*Aforia*) Dall, 1889  
 (*Irenosyrinx*) Dall, 1889  
 (*Suavodrillia*) Dall, 1918  
 Subfamily Conorbiinae  
*Megasurcula* Casey, 1904  
 Subfamily Daphnellinae  
*Daphnella* Hinds, 1844  
 [= *Eudaphnella* Bartsch, 1933]  
 Subfamily Mangeliinae  
*Clathurella* Carpenter, 1857  
 [ICZN, pending]  
 [= *Philbertia*, auctt.]  
 (*Glyphostoma*) Gabb, 1872  
 (*Lioglyphostoma*) Woodring,  
 1928  
*Mangelia* Risso, 1826  
 (*Agathotoma*) Cossmann, 1889  
 [= *Cytharella*, auctt.]  
 (*Kurtzia*) Bartsch, 1944  
 (*Kurtzina*) Bartsch, 1944  
*Pleurotomella* Verrill, 1873  
 [= *Pleurotomoides* Bronn, 1831]  
 Subfamily Turriculinae  
*Pseudomelatoma* Dall, 1918

SUBCLASS OPISTHOBRANCHIATA

["Backward gills"]

(= *Euthyneura* ["Straight nerves"])

Order Tectibranchiata ["Covered gills"]

Suborder Cephalaspidea ["Head shield"]

SUPERFAMILY BULLACEA

Family 60. BULLIDAE

*Bulla* Linnaeus, 1758

Family 61. ATYIDAE

*Atys* Montfort, 1810

*Haminoea* Turton and Kingston in  
 Carrington, 1830

Family 62. RETUSIDAE

*Retusa* Brown, 1827

[= *Coleophysis* Fischer, 1883]

(*Sulcoretusa*) Burch, 1945

[= *Sulcularia* Dall, 1921, pre-  
 occupied]

*Volvulella* Newton, 1891

[= *Rhizorus* Montfort, 1810]

SUPERFAMILY PHILINACEA

Family 63. PHILINIDAE

*Philine* Ascanius, 1772

Family 64. AGLAJIDAE

*Aglaja* "Renier, 1807," auctt.

*Chelidonura* A. Adams, 1850

*Navanax* Pilsbry, 1895

Family 65. DIAPHANIDAE

*Diaphana* Brown, 1827

Family 66. GASTROPTERIDAE

*Gastropteron* Kosse, 1813, ex

Meckel MS

SUPERFAMIL

Family 67

*Iselic*

*Odos*

*Perist*

*Pyrar*

*Turb.*

SUPERFAMIL

Family 68

*Actec*

*Cylic*

(*B*)

*Scapi*

Family 69

*Actec*

*Micri*

Suborder Anasp

Family 70

*Aply.*

[=

*Petal*

[=

Suborder Notas

Family 71

*Pleur*

Family 72

*Tyloc*

Suborder Pterop

Family 73

*Cavo*

*Clio*]

*Cresc*

*Diac*

*Stylic*