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**Tubules.** Small tubes originating at the inner shell surface and extending outwards.  
They are produced by the mantle surface.

**Undifferentiated combined layer.** Combined layer in which the component layers are indistinguishable.

### Species examined<sup>1</sup>

#### Family Nuculidae

*Acila castrensis* (Hinds); *Acila packardi* (Clark), Oligocene, Oregon.

#### Family Solemyidae

*Solemya velum* (Say), Connecticut; *Solemya* sp., no locality.

#### Family Pinnidae

*Atrina* sp., no locality; *Pinna mutica* (Reeve), no locality.

#### Family Pteriidae

*Meleagrina margaritifera* (Linnaeus), no locality.

#### Family Mytilidae

*Mytilus edulis* (Linnaeus); *M. californianus* (Conrad); *Hormomya seearnsi* (Pilsbry and Raymond); *Septifer bifurcatus* (Conrad); *Volsella capax* (Conrad); *Brachidontes demissus* (Dillwyn); *Botula falcata* (Gould); *Lithophaga plumula* (Hanley).

#### Family Unionidae

*Unio* sp., no locality; *Anodonta* sp., no locality.

#### Family Trigoniidae

*Trigonia* (*Neotrigonia*) *pectinata* Lamarck, Australia.

#### Family Periplomatidae

*Periploma planiusculum* Sowerby.

#### Family Pandoridae

*Pandora glacialis* Leach, Northern Seas.

<sup>1</sup> Unless otherwise indicated, the species listed are represented by Recent specimens from the West Coast of North America. The species listed here have generally been sectioned or otherwise closely examined. Other species not listed here have been examined superficially.

### Family Lyonsiidae

*Entodesma saxicola* Baird; *Lyonsia californica* Conrad; *Mytilimeria nuttallii* Conrad.

### Family Pectinidae

*Chlamys hericius* (Gould); *C. hindsii* (Carpenter); *Patinopecten caurinus* (Gould), Pliocene, California; *P. coosensis* (Shumard), Pliocene, Oregon; *P. healeyi* (Arnold), Pliocene, California; *P. lohri* (Hertein), Pliocene, California; *P. yessoensis* (Jay), Japan; *Vertipecten perrini* (Arnold), Miocene, California; *Pecten bellus* (Conrad), Pliocene, California; *P. carizzoensis* Arnold, Pliocene, California; *P. coalingensis* Arnold, Pliocene, California; *P. maximus* (Linnaeus), France; *P. vogdesi* Arnold; *Euvola keepi* (Arnold), Pliocene, California; *E. zigzag* (Linnaeus), Colombia; *Lyropecten crassicardo* (Conrad), Miocene, California; *L. estrellanus* (Conrad), Miocene, California; *L. magnolia* (Conrad), Miocene, California; *L. miguelensis* (Arnold), Miocene, California; *L. subnodosus* (Sowerby), Pleistocene, Gulf of California; *L. terminus* (Arnold), Miocene, California; *Aequipecten circularis* (Sowerby); *A. gibbus* (Linnaeus), no locality; *A. latiauratus* (Conrad); *A. monotimeris* (Conrad); *A. raymondi* (Clark), Miocene, California; *Amussium japonicum* (Gmelin), China.

### Family Spondylidae

*Spondylus pictorum* Chemnitz; *S. cf. crassisquama* Lamarck, no locality; *S. sp.*, Okinawa; *Plicatula gibbosa* Lamarck, Florida.

### Family Limidae

*Lima cf. scabra* (Born), no locality; *L. sp.*, no locality.

### Family Anomiidae

*Pododesmus macroschismus* (Deshayes); *Anomia peruviana* d'Orbigny; *Placenta papryacea* (Lamarck), China.

### Family Ostreidae

*Ostrea lurida* Carpenter; *O. titan* Conrad, Miocene, California; *O. cf. vespertina* Conrad, Pliocene, Gulf of California; *O. virginica* Gmelin, Delaware; *Exogyra* sp., Upper Cretaceous, Alabama.

### Family Arcidae

*Anadara grandis* Broderip and Sowerby, Honduras; *Anadara incongrua* (Jay), no locality; *A. montereyana* (Osmont), Miocene, California; *A. multicostata* Sowerby; *A. trilineata*, Pliocene, California; *Arca pacifica* Sowerby, Central America; *Barbatia reeviana* (d'Orbigny), no locality; *Noetia ponderosa* (Jay), Florida; *Glycimeris coalingensis* Arnold, Pliocene, California; *Glycimeris inaequalis* (Sowerby), Panama; *G. major* Stanton, Paleocene, California; *G. pilosus* (Linnaeus), Mediterranean Sea. *G. septentrionalis* (Middendorff); *Cucullaea matthewsonii* (Gabb), Cretaceous, California.

### Family Lucinidae

*Lucina (Loripinus) edentula* (Chemnitz), Florida; *Codakia orbicularis* (Linnaeus), Florida; *Divaricella eburnea* (Reeve); *Lucina californica* Conrad; *L. nuttallii* Conrad.

### Family Erycinidae

*Kellia laperousii* (Deshayes); *Lasea rubra* (Montagu), Europe.

### Family Tellinidae

*Macoma nasuta* (Conrad); *Macoma secta* (Conrad); *Tellina bodegensis* Hinds.

### Family Semelidae

*Semele decisa* (Conrad); *S. rupicola* Dall; *Cumingia lamellosa* Sowerby.

### Family Donacidae

*Donax asper* Hanley, no locality; *Iphigenia altior* (Sowerby), Panama.

### Family Sanguinolariidae

*Heterodonax bimaculata* (Linnaeus); *Sanguinolaria nuttallii* Conrad; *Tagelus californianus* (Conrad).

### Family Mactridae

*Mactra californica* Conrad; *Pseudocardium densatum* (Conrad), Pliocene, California; *Rangia* sp., Pliocene, California; *Schizothaerus nuttallii* (Conrad); *Spisula alaskana* Dall.

### Family Cardiidae

*Trachycardium (Trachycardium) consors* (Sowerby); *T. (T.) isocardia* (Linnaeus), Florida; *T. (T.) muricatum* (Linnaeus), Florida; *T. (T.) senticosum* (Sowerby); *T. (Dallocardia) quadrigenarium* (Conrad); *Mexicardia procerum* (Sowerby); *Papyriidea aspersa* (Sowerby), Panama; *Americardium biangulatum* (Broderip and Sowerby); *Nemocardium linteum* (Conrad), Eocene, California; *Laevicardium elatum* (Sowerby); *L. substriatum* (Conrad); *Cerastoderma edulis* (Linnaeus), Mediterranean Sea; *Clinocardium blandum* (Gould); *C. californiense* (Deshayes); *C. coosensis* (Dall), Pliocene, Oregon; *C. meekianum* (Gabb), Pliocene, California; *C. nuttallii* (Conrad); *Serripes groenlandicus* (Brugière), Arctic Ocean; *Dinocardium robustum* (Solander), Texas; *Cardium costatum* Linnaeus, West Africa.

### Family Adaenidae

*Didacna trigonoides* (Pallas), Iran.

### Family Tridaenidae

*Hippopus* sp., Solomon Islands; *Tridacna* sp., no locality.

### Family Carditidae

*Cardita ventricosa* Gould; *Cardita* sp., Sumatra; *Glans affinis* (Sowerby); *Venericardia laticostata* (Sowerby); *Venericardia cf. aragonia*, Eocene, Oregon; *Venericardia cf. hornii* (Gabb), Eocene, California.

### Veneridae

*Venus verrucosa* Linnaeus, Algeria; *Circe gibba* (Lamarck), Pacific Ocean; *Gafrarium divaricatum* (Chemnitz), Philippine Islands; *Sunetta scripta* (Linnaeus), China; *Grateloupia cytheriopsis* (Conrad), Eocene, Alabama; *Meretrix meretrix* (Linnaeus), Japan; *Tivela stultorum* (Mawe); *Amiantis callosa* (Conrad); *Macrocallista aequore* (Gabb), Eocene, Alabama; *M. conradiana* (Gabb), Eocene, California; *Pitar californianus stewartvillensis* Clark and Woodford, Paleocene, California; *P. lupanaria* (Lesson); *P. vulneratus* (Broderip), no locality. *Dosinia discus* Reeve, Florida; *D. ponderosa* (Gray); *Gemma gemma* Totten, Connecticut; *Compsomyax subdiaphana* (Carpenter); *Paphia papilionacea* (Lamarck), China; *Psephidia lordi* (Baird); *Tapes malabarica* (Chemnitz), China; *Ruditapes decussata* (Linnaeus), France; *Anomalocardia subrugosa* (Sowerby); *Chione (Chione) cancellata* (Linnaeus), Florida; *C. (C.) succincta* (Valenciennes); *C. (Gnidiella) gnidia* (Broderip and Sowerby); *Humilaria kennerlyi* (Carpenter in Reeve); *Mercenaria campechiensis* (Gmelin), Texas; *Protithaca laciniata* (Carpenter); *P. semidecussata* (Deshayes); *P. staminea* (Conrad); *P. tenerrima* (Carpenter); *P. fluctifraga* (Sowerby); *P. grata* (Say); *Securella securis* (Schumard), Pliocene, California; *Irus lamellifer* (Conrad); *Saxidomus giganteus* (Deshayes); *S. nuttallii* (Conrad); *Irus irus* (Linnaeus), France.

### Family Petricolidae

*Petricola carditoides* (Conrad).

### Family Astartidae

*Astarte borealis* (Schumacher), Northern Seas.

### Family Crassatellidae

*Crassatellites digueti* Lamy; *C. grandis* (Gabb), Eocene, California.

### Family Panopeidae

*Panope generosa* Gould, no locality.

### Family Chamidae

*Chama florida* Lamarck, no locality; *Chama pellucida* Broderip; *Chama* sp., no locality.

### Family Dreissenidae

*Dreissenia polymorpha* (Pallas), Europe.