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**MALACOFAUNA DELLO STRATOTIPO PIACENZIANO
(PLIOCENE DI CASTELL'ARQUATO)**

Sommario

Si ripresentano le tavole malacofauna fossile dello stratotipo del Piacenziano pubblicate negli anni 1961-1974 sulle riviste del Museo Civico di Storia Naturale di Milano. La divisione sistematica è stata aggiornata secondo le revisioni tassonomiche intervenute in questi ultimi anni.

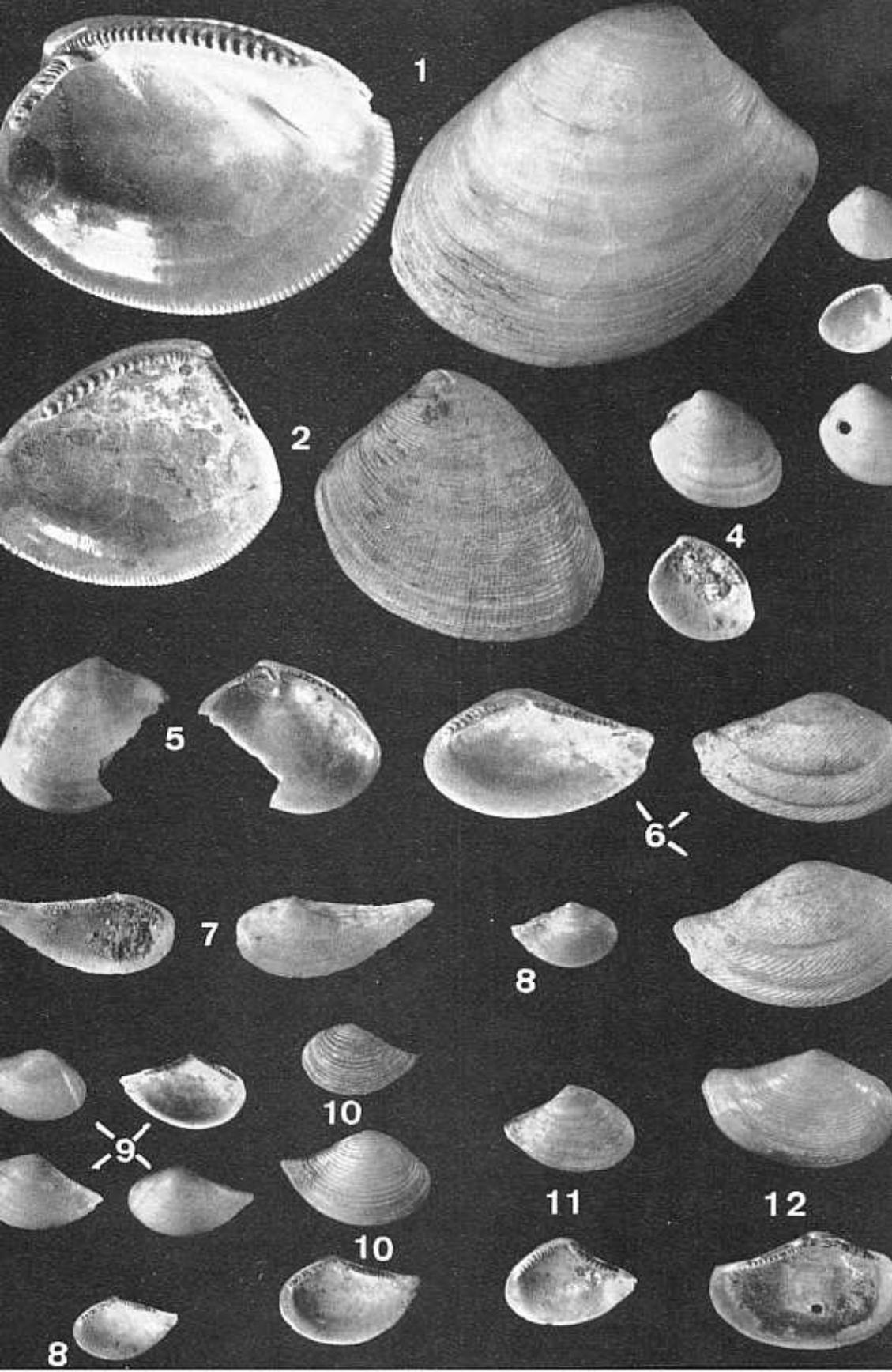
Summary

The tables representing the fossil shells of the Plaisancien level have been issued from 1961 to 1974 by the papers of the Museo Civico di Storia Naturale di Milano; they are here presented again, all together, with revised systematic in account of the taxonomic changes which have taken place during the past years.

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TAVOLA

Fig. 1	- <i>Nucula placentina</i> LK.	x 3
Fig. 2	- <i>Nucula culcata</i> (BRONN)	x 3
Fig. 3	- <i>Nucula umbonata</i> SEGUENZA	x 3
Fig. 4	- <i>Nucula nucleus</i> (L.)	x 3
Fig. 5	- <i>Nuculoma</i> cfr. <i>laevigata</i> (J. Sow.)	x 3
Fig. 6	- <i>Nuculana pella</i> (L.)	x 3
Fig. 7	- <i>Nuculana clavata</i> (CALCARA)	x 3
Fig. 8	- <i>Nuculana bonellii</i> (BELLARDI)	
Fig. 9	- <i>Nuculana consanguinea</i> (BELLARDI)	x 3
Fig. 10	- <i>Nuculana fragilis</i> (CHEMNITZ)	x
Fig. 11	- <i>Nuculana concava</i> (BRONN)	x 3
Fig. 12	- <i>Yoldia nitida</i> (BROCCHI)	x 3



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TAVOLA 2

Fig. 1	- <i>Barbatia candida</i> (CHEMNITZ)	x
Fig. 2	- <i>Arca noae</i> L.	x 1
Fig. 3	- <i>Arca tetragona</i> POLI	x 2,5
Fig. 4	- <i>Barbatia clathrata</i> (DEFRANCE)	x 3,7
Fig. 5	- <i>Bathyarca philippiana</i> (NYST)	x 4
Fig. 6	- <i>Bathyarca philippiana</i> (NYST)	x 7
Fig. 7	- <i>Bathyarca philippiana</i> (NYST)	x 2,5
Fig. 8	- <i>Striarca lactea</i> (L.)	x 4
Fig. 9	- <i>Striarca lactea</i> (L.)	x 3
Fig. 10	- <i>Anadara pectinata</i> (BROCCHI)	x 5

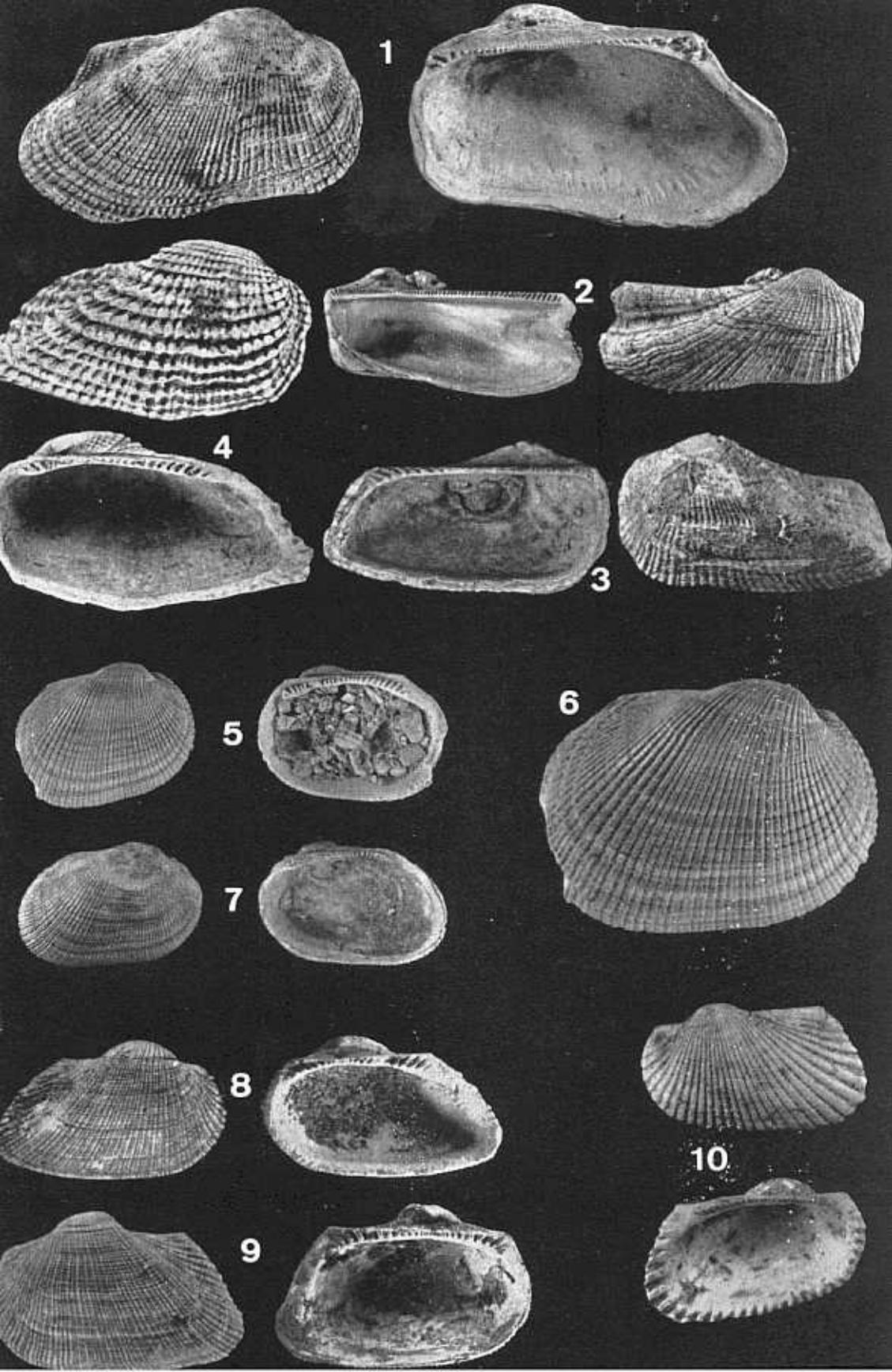


TAVOLA 3

Fig.	-4	<i>Anadara diluvii</i> (Lk.)	x
Fig.	5-6	<i>Limopsis aurita</i> (BROCCHI)	x 2,8
Fig.	8-9	<i>Limopsis anomala minuta</i> PH.	x 9

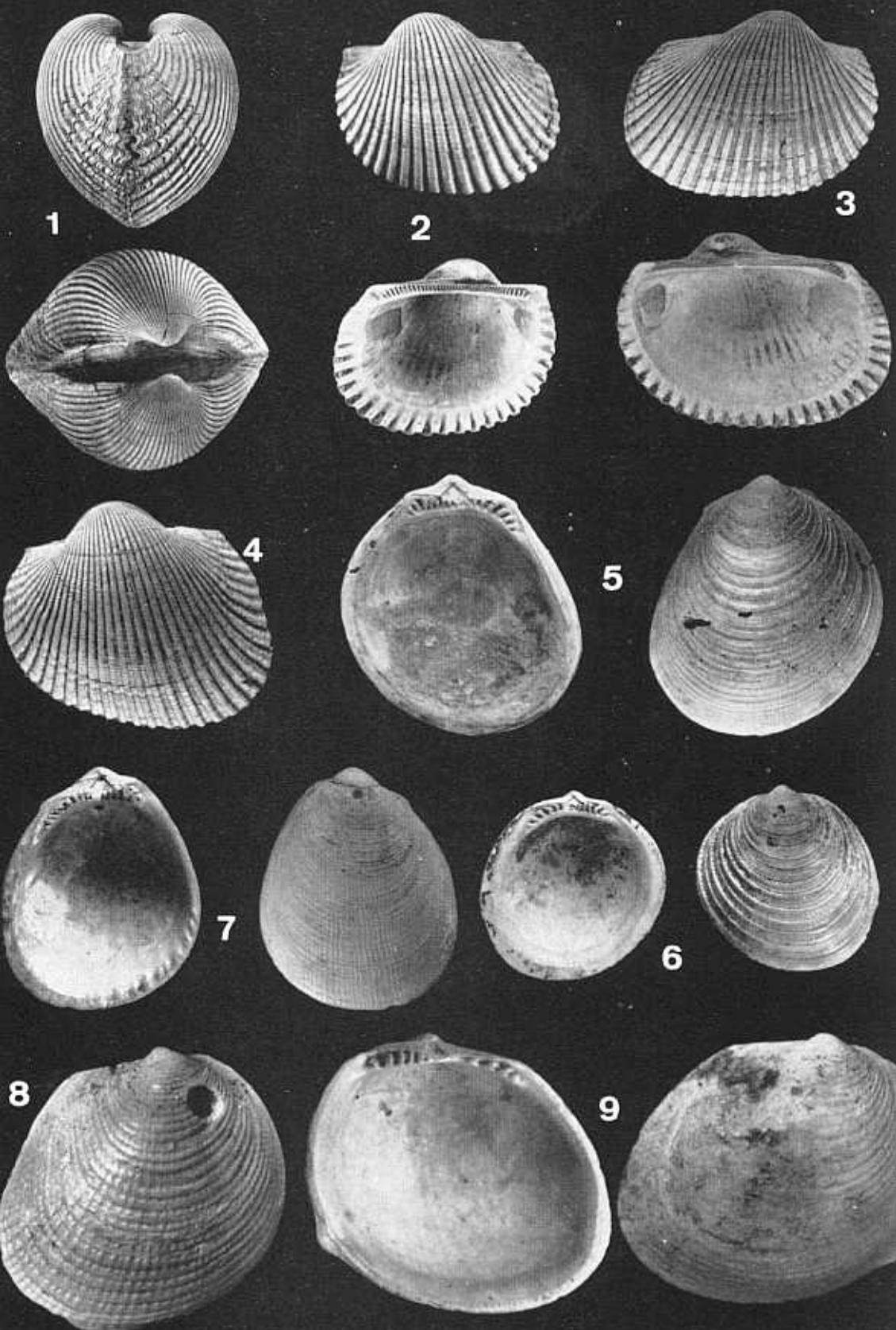


TAVOLA 4

Fig.	- <i>Pecten jacobaeus</i> (L.)	x 0,5
Fig. 2	- <i>Pecten flabelliformis</i> (BR.)	x 0,8
Fig. 3	- <i>Chlamys seniensis</i> (LK.)	x 1
Fig. 4	- <i>Chlamys pusio</i> (L.)	x
Fig. 5	- <i>Chlamys opercularis</i> (L.)	x
Fig. 6	- <i>Chlamys varia</i> (L.)	x 0,8
Fig. 7	- <i>Propcaumussium cristatum</i> (BRONN)	x
Fig. 8	- <i>Propeaumussium inflexum</i> (POLI)	x
Fig. 9	- <i>Chlamys pesfelis</i> (L.)	x
Fig. 10	- <i>Hinnites ercoliana</i> (COCCONI)	x
Fig. 11	- <i>Chlamys flexuosa</i> (POLI)	x
Fig. 12	- <i>Spondylus crassicosta</i> (LK.)	x 0,5

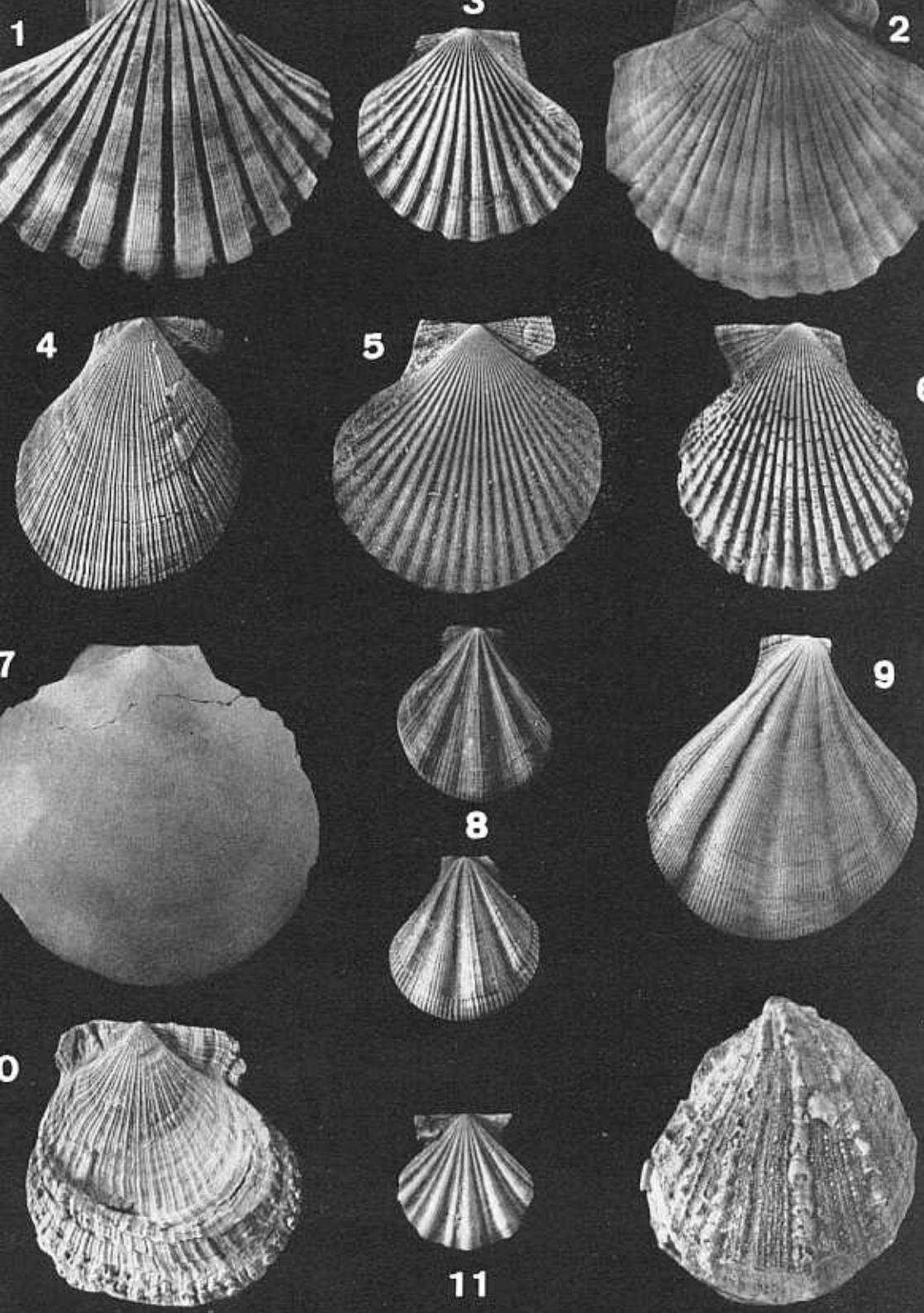


TAVOLA 5

Fig. 1	<i>Anomia ephippium rugulosostriata</i> (BR.)	
Fig. 2	<i>Anomia costata</i> (BROCCHI)	
Fig. 3	<i>Ostrea lamellosa</i> (BROCCHI)	x 0.5
Fig. 4	<i>Glossus humanus</i> (L.)	x
Fig. 5	<i>Corbula gibba</i> (OLIVI)	x 4
Fig. 6	<i>Corbula revoluta</i> (BROCCHI)	x 3
Fig. 7	<i>Corbula cocconii</i> (FONTANNES)	x 3
Fig. 8	<i>Pycnodonte cochlear navicularis</i> (BR.)	x 1
Fig. 9	<i>Pseudochama gryphina</i> (LK.)	x
Fig. 10-11	<i>Chama gryphoides</i> L.	x
Fig. 12	<i>Chama placentina</i> DEFRENCE	x
Fig. 13-14	<i>Venus multilamella</i> LK.	
Fig. 15	<i>Pelecyora islandicoides</i> (LK.)	
Fig. 16	<i>Clausinella scalaris</i> (BRONN)	.5
Fig. 17	<i>Loripes lacteus</i> (L.)	x
Fig. 18	<i>Trapezium conglobatum</i> (BROCCHI)	
Fig. 19	<i>Timoclea ovata</i> (PENNANT)	x 4

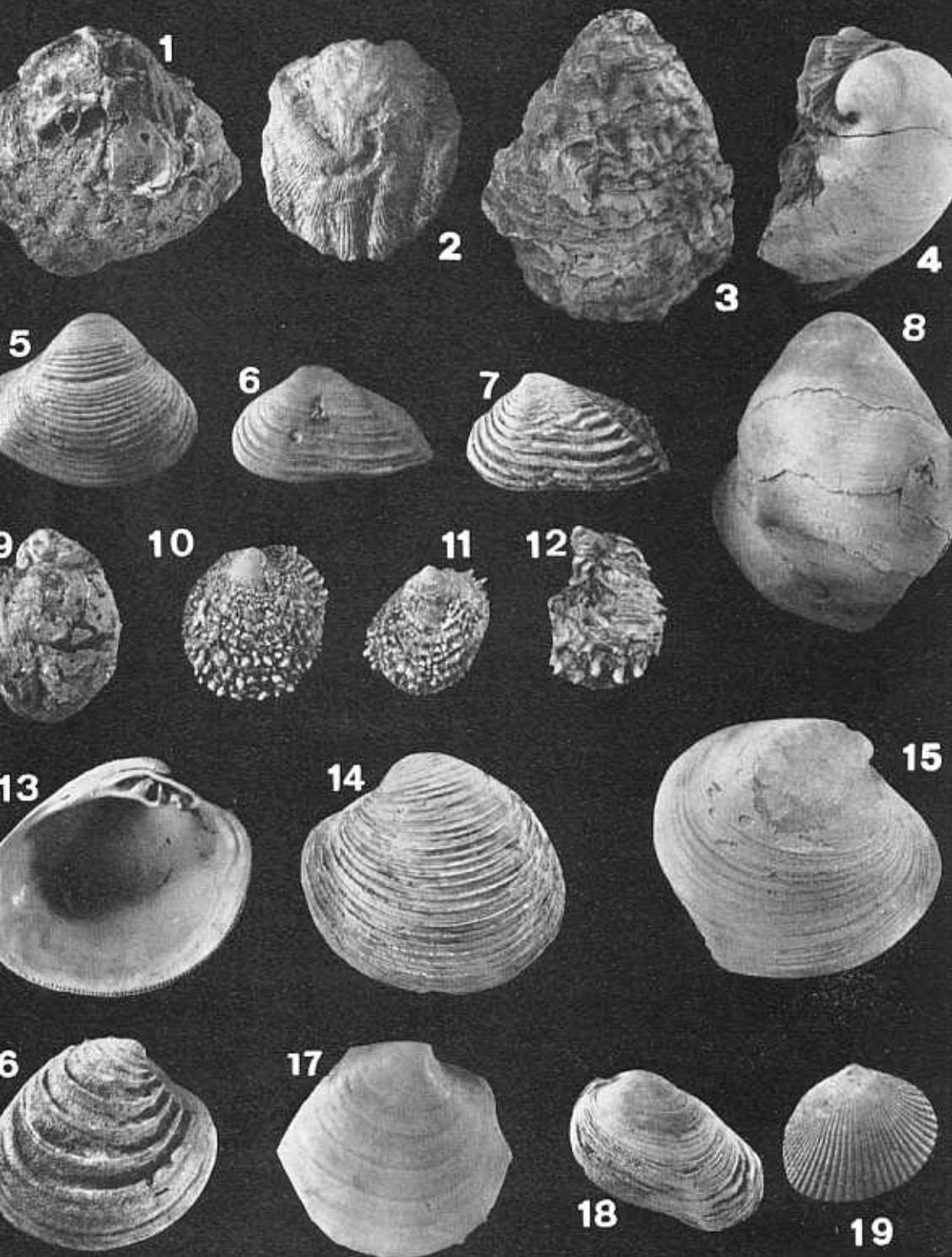


TAVOLA 6

Fig. 1	- <i>Laevicardium homofragile</i> ROSSI RONCHETTI	x
Fig. 2	- <i>Trachycardium multicostatum</i> (BROCCHI)	x 1
Fig. 3	- <i>Gomimyrttea meneghinii</i> (DE STEF. & PANT.)	x 3
Fig. 4	- <i>Myrtea spinifera</i> (MONTAGU)	x 3
Fig. 5	- <i>Crassatina concentrica murchisoni</i> (MICHEL.)	x 4
Fig. 6	- <i>Cerastoderma glaucum umbonatum</i> (WOOD)	x
Fig. 7	- <i>Glans intermedia</i> (BROCCHI)	x
Fig. 8	- <i>Plagiocardium papillosum</i> (POLI)	x 4
Fig. 9	- <i>Acanthocardia echinata gibba</i> (DEFRANCE)	x ,2
Fig. 10	- <i>Glans rudista</i> (Lk.)	x
Fig. 11	- <i>Glans rhomboidea inermis</i> (MICHELOTTI)	x
Fig. 12	- <i>Cyclocardia aff. chamaeformis</i> (SOW.)	x 4
Fig. 13	- <i>Tellina donacina</i> (L.)	x 3
Fig. 14	- <i>Gari uniradiata</i> (BROCCHI)	x 2,5
Fig. 15	- <i>Solecurtus scopulus</i> (TURTON)	x
Fig. 16	- <i>Cuspidaria cuspidata</i> (OLIVI)	x 3
Fig. 17	- <i>Spisula subtruncata</i> (DA COSTA)	x 3
Fig. 18	- <i>Astarte fusca incrassata</i> (BROCCHI)	x ,5
Fig. 19	- <i>Glycymeris inflata</i> (BROCCHI)	x
Fig. 20	- <i>Glycymeris glycymeris pilosa</i> (L.)	x

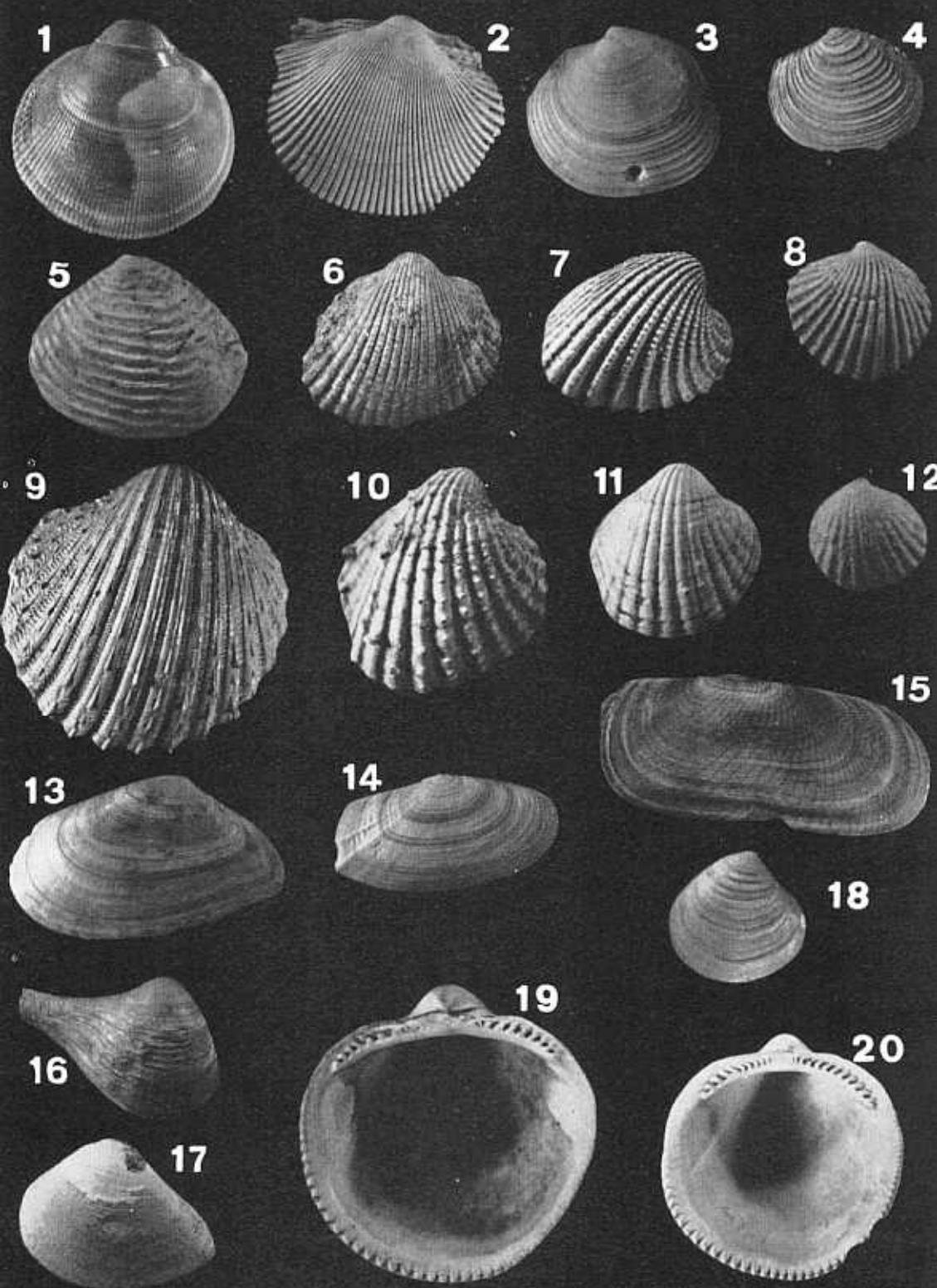


TAVOLA 7

Fig. 1	<i>Astraea rugosa</i> (L.)	x
Fig. 2	<i>Astraea fimbriata</i> (BORSON)	x
Fig. 3-5	<i>Gibbula magus</i> (L.)	x 2
Fig. 4	<i>Calliostoma miliaris</i> (BROCCHI)	x 2
Fig. 6	<i>Diodora italica</i> (DEFRANCE)	x 2
Fig. 7	<i>Calliostoma</i> sp.	x 10
Fig. 8	<i>Gibbula guttadauroi</i> (PHILIPPI)	x 20
Fig. 9	<i>Diodora graeca</i> (L.)	
Fig. 10	<i>Jujubinus montagui</i> (WOOD)	x 10

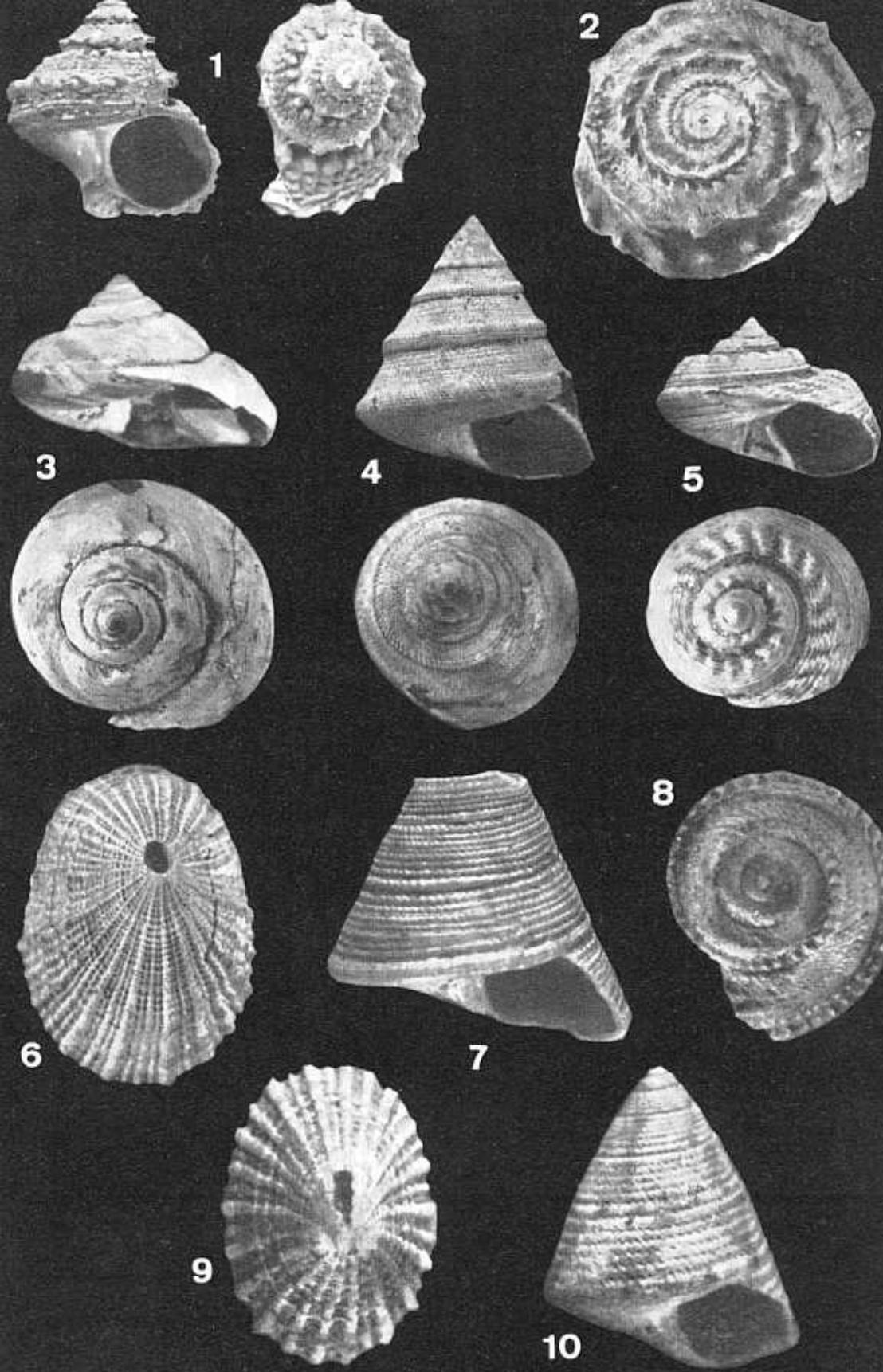


TAVOLA 8

Fig. 1	- <i>Turritella tornata</i> (BROCCHI)	x 0,9
Fig. 2	- <i>Turritella spirata</i> (BROCCHI)	x 0,9
Fig. 3	- <i>Turritella tricarinata</i> (BROCCHI)	x 1,8
Fig. 4	- <i>Turritella aspera</i> SISMONDA	x 1,8
Fig. 5	- <i>Mathilda quadricarinata</i> (BROCCHI)	x 1,3
Fig. 6-7	- <i>Petaloconchus intortus</i> (Lk.)	x 1,8
Fig. 8	- <i>Lemintina arenaria</i> (L.)	x 0,9
Fig. 9	- <i>Architectonica monilifera</i> (BRONN)	x 2,2
Fig. 10	- <i>Architectonica pseudoperspectiva</i> BROCCHI	x 1,8
Fig. 11	- <i>Architectonica simplex</i> (BRONN)	x 1,8
Fig. 12	- <i>Architectonica millegranum</i> (Lk.)	x 1,8



TAVOLA 9

Fig.	- <i>Cerithium crenatum</i> (BROCCHI)	
Fig. 2	- <i>Cerithium varicosum</i> (BROCCHI)	x
Fig. 3	- <i>Turriscala torulosa</i> (BROCCHI)	x 2
Fig. 4-5	- <i>Bittium reticulatum</i> (DA COSTA)	x 6
Fig.	- <i>Melanella polita</i> (L.)	x 6
Fig. 7	- <i>Epitonium frondiculoides</i> (BOURY)	x 4
Fig. 8	- <i>Cirsotrema lamellosum</i> (BROCCHI)	
Fig. 9	- <i>Epitonium pseudoscalare</i> (BROCCHI)	
Fig. 10	- <i>Epitonium tenuicosta</i> (MICHAUD)	3
Fig. 11	- <i>Triphora perversa</i> (L.)	x 35

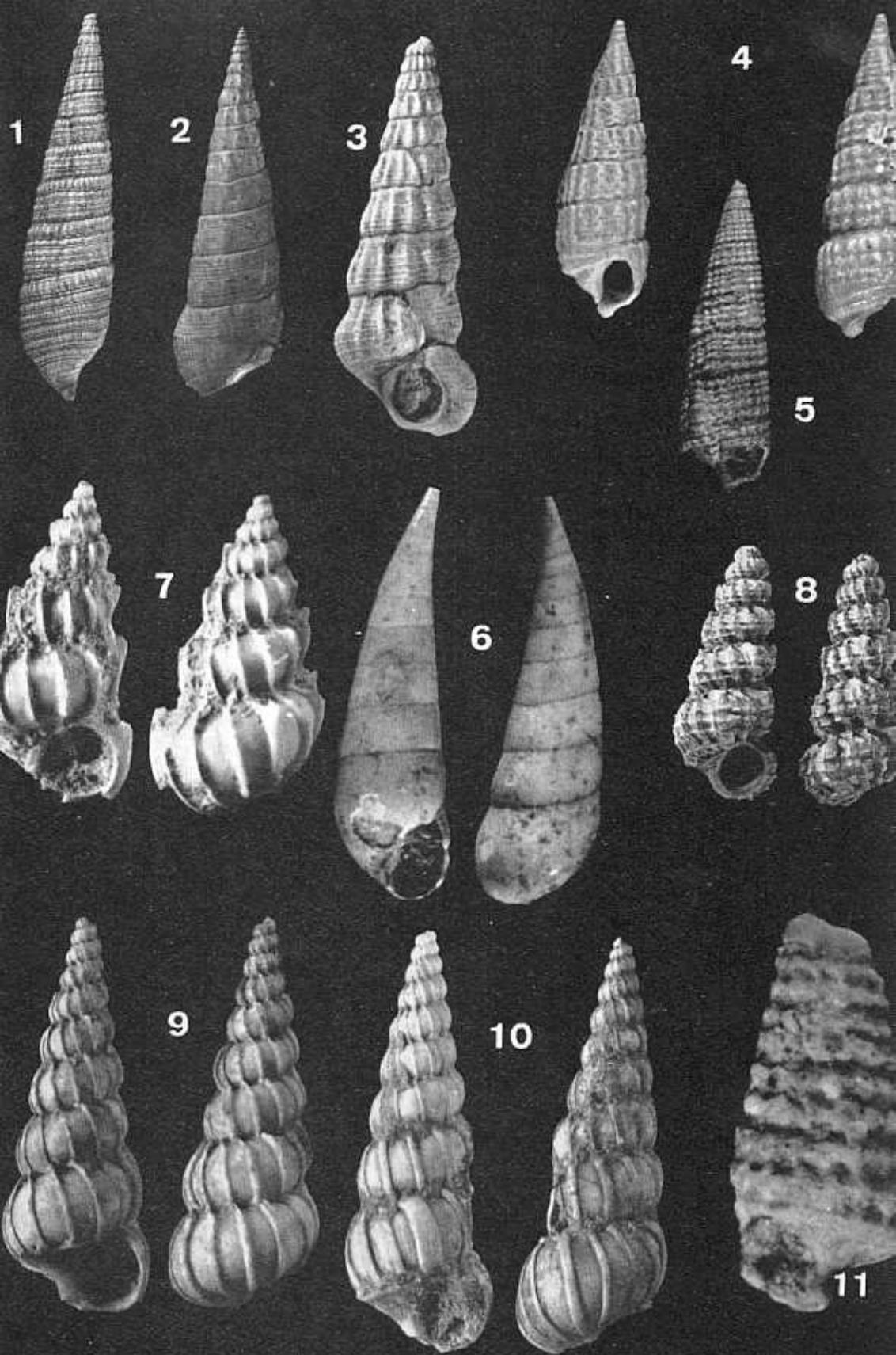
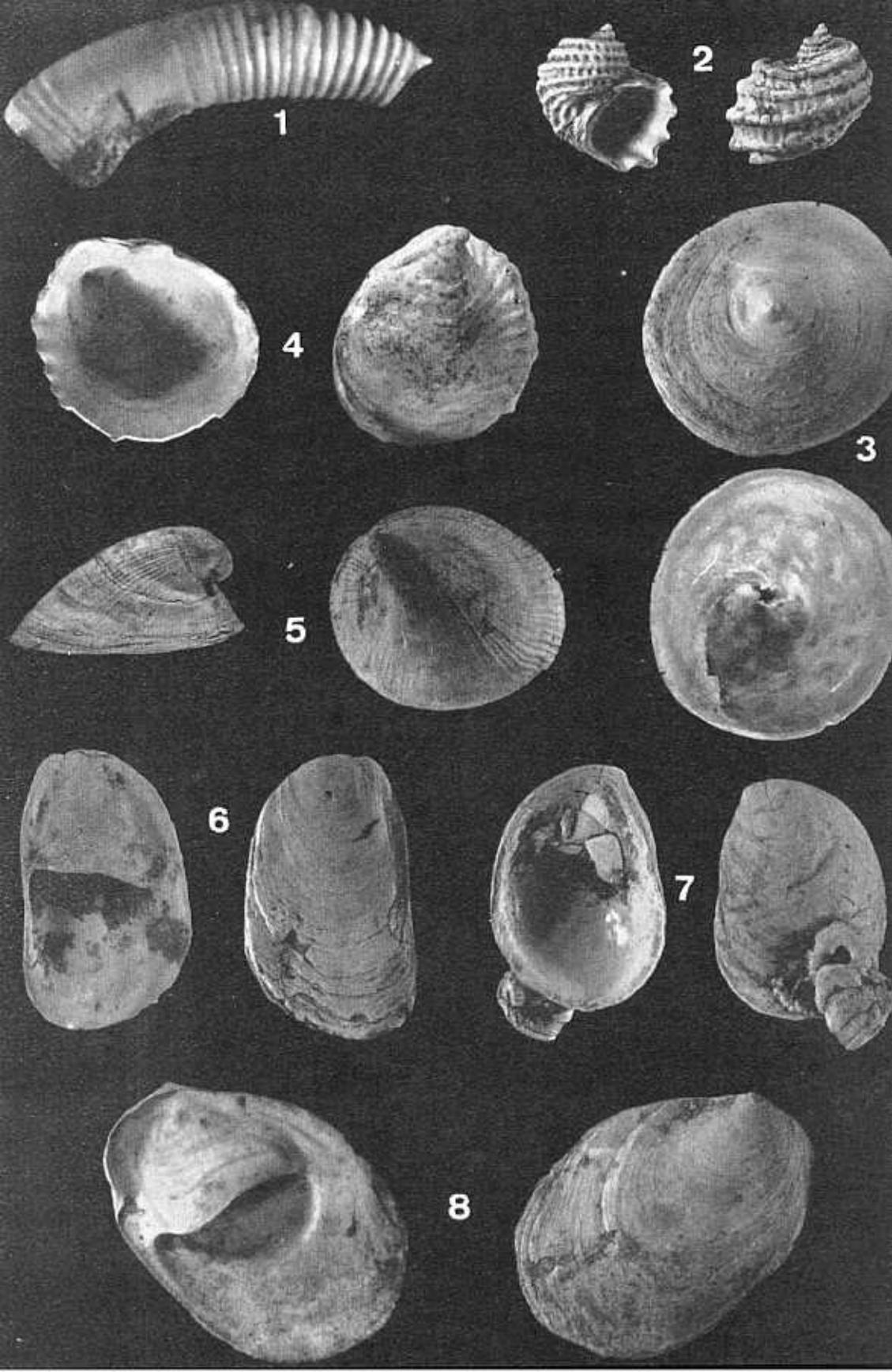


TAVOLA 10

Fig.	- <i>Caecum trachea</i> (MONTAGU)	x 25
Fig. 2	- <i>Fossarus costatus</i> (BROCCHI)	x 2
Fig. 3	- <i>Calyptraea chinensis</i> (L.)	x 2
Fig. 4	- <i>Capulus sinuosus</i> (BROCCHI)	x 2
Fig. 5	- <i>Capulus hungaricus</i> (L.)	x 1,3
Fig. 6	- <i>Crepidula unguiformis</i> (Lk.)	x 1,3
Fig. 7	- <i>Crepidula gibbosa</i> DEFRENCE	x 1,3
Fig. 8	- <i>Crepidula unguiformis</i> (Lk.)	x 3,5



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TAVOLA 11

Fig.	2	<i>Trivia sphaericulata</i> (LK.)	x 2
Fig.	3	<i>Trivia dimidiata</i> (BRONN)	x ?
Fig.	4	<i>Erato laevis cypraeola</i> (BROCCHI)	x 10
Fig.	5	<i>Cypraeovula labrosa</i> (BONELLI)	x
Fig.	6	<i>Zonaria porcellus</i> (BROCCHI)	
Fig.	7	<i>Monetaria cfr. brocchii</i> (DESH.)	x
Fig.	8	<i>Schilderia flavigula</i> (LK.)	x
Fig.	9	<i>Schilderia utriculata</i> (LK.)	x

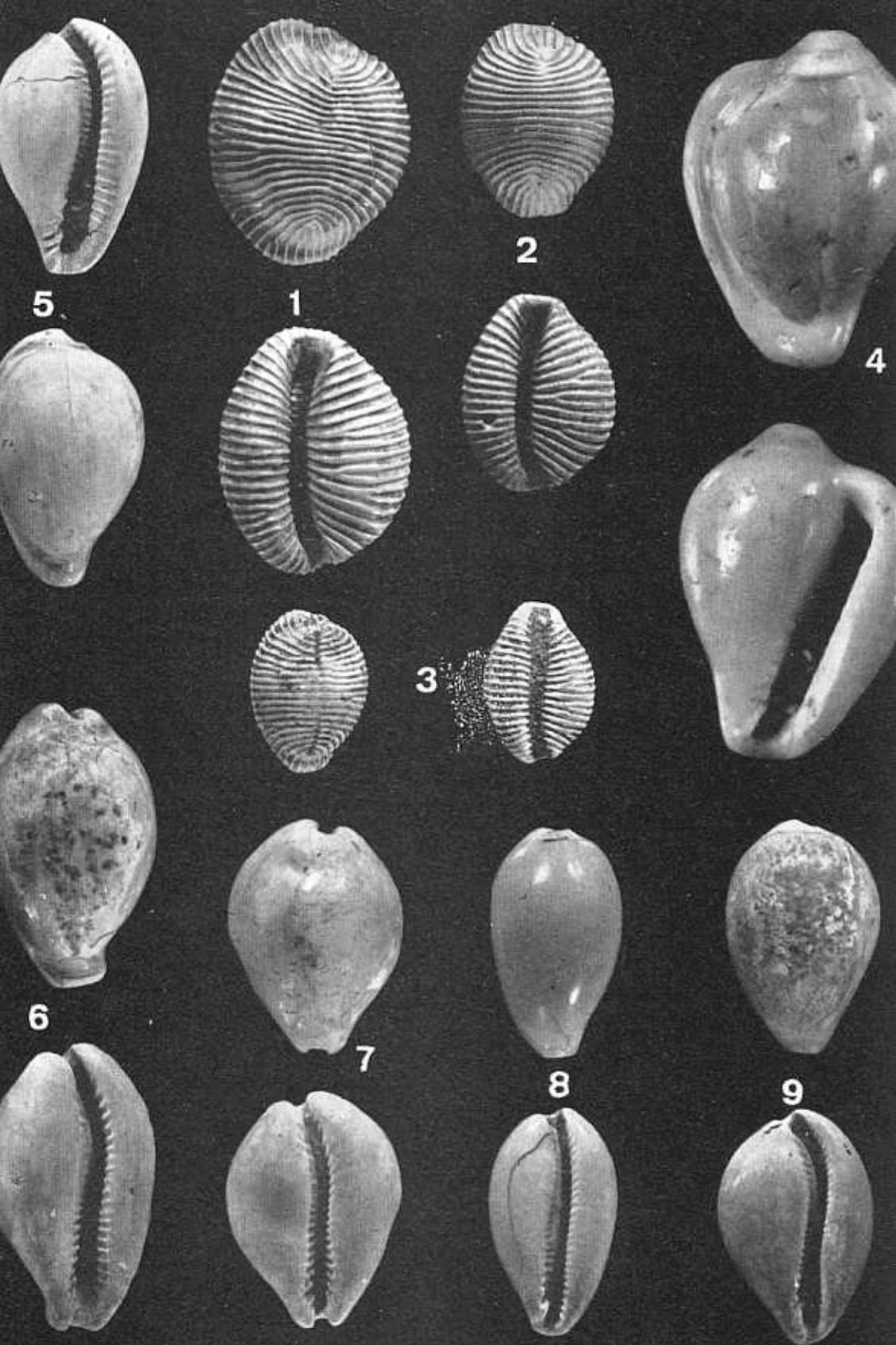
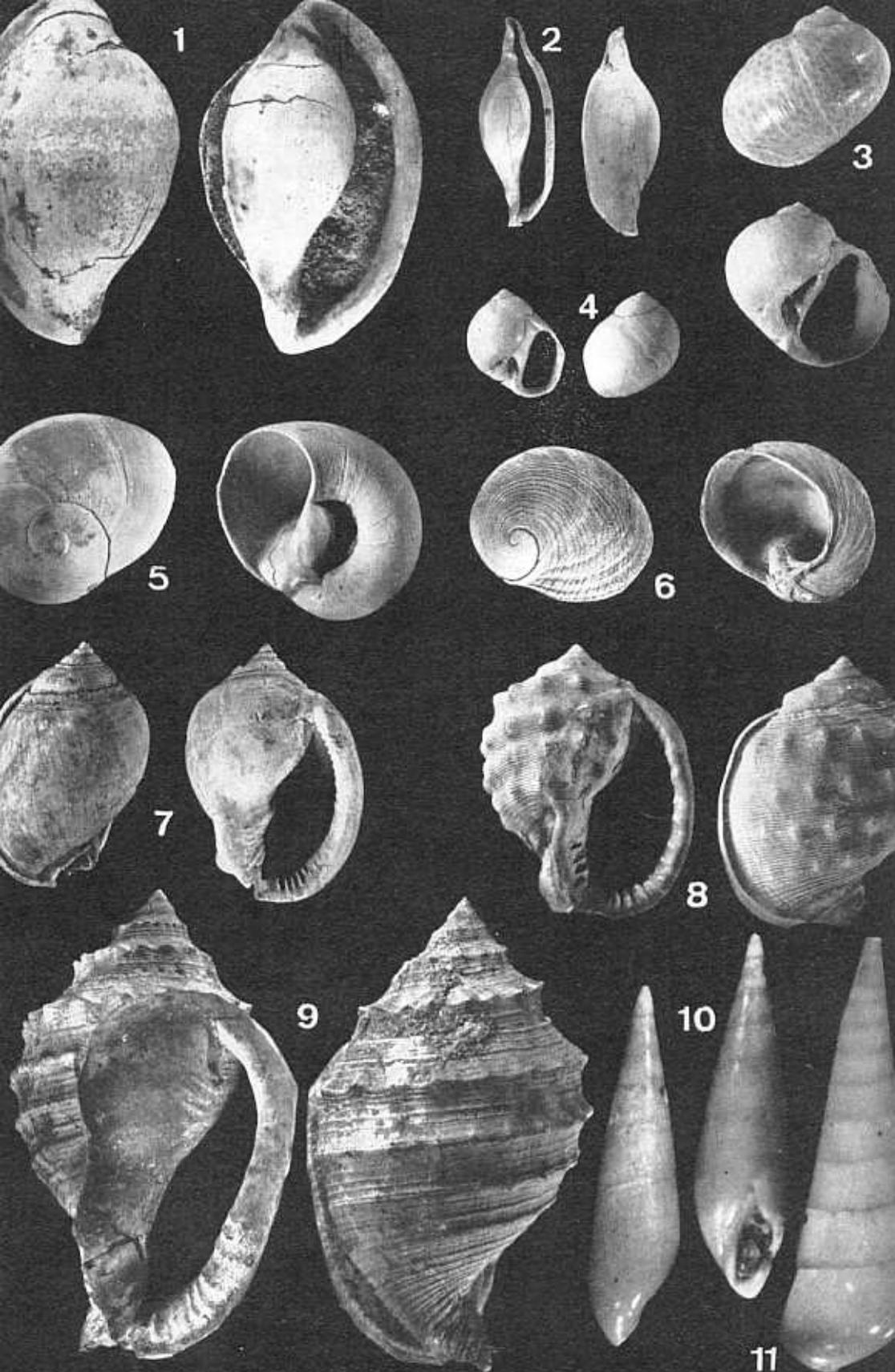


TAVOLA 12

Fig. 1	- <i>Pseudosimnia passerinalis</i> (Lk.)	x 2,6
Fig. 2	- <i>Simnia spelta birostris</i> (Lk.)	x 1
Fig. 3	- <i>Natica tigrina</i> DEFRENCE	x
Fig. 4	- <i>Lunatia catena helicina</i> (BROCCHI)	
Fig. 5	- <i>Neverita josephinia</i> RISSO	x
Fig. 6	- <i>Sinum striatum</i> DE SERRES	
Fig. 7	- <i>Semicassis laevigata</i> DEFRENCE	x
Fig. 8	- <i>Semicassis intermedia</i> (BROCCHI)	
Fig. 9	- <i>Galeodea echinophora placentina</i> (DEFRENCE)	x
Fig. 10	- <i>Leiostraca glabra</i> (DA COSTA)	x 10
Fig. 11	- <i>Melanella lactea</i> (GRATELOUP)	x 6



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TAVOLA

Fig. 1	- <i>Cymatium doderleini</i> (D'ANCONA)	x
Fig. 2	- <i>Cymatium parthenopaeum</i> (VON SALIS)	
Fig. 3	- <i>Bursa scrobicularia nodosa</i> (BORSON)	
Fig. 4	- <i>Cymatium distortum</i> (BROCCHI)	x
Fig. 5	- <i>Argobuccinum giganteum</i> (Lk.)	x
Fig. 6	- <i>Charonia apenninica</i> (SASSI)	x
Fig. 7	- <i>Malea orbiculata</i> (BROCCHI), adulto	x
Fig. 8	- <i>Gyrineum marginatum</i> (MARTINI)	x 1
Fig. 9	- <i>Eudolium stephaniophorum pliotransiens</i> SACCO	x 3
Fig. 10	- <i>Malea orbiculata</i> (BROCCHI), juv.	x
Fig. 11	- <i>Eudolium fasciatum</i> (BORSON)	x

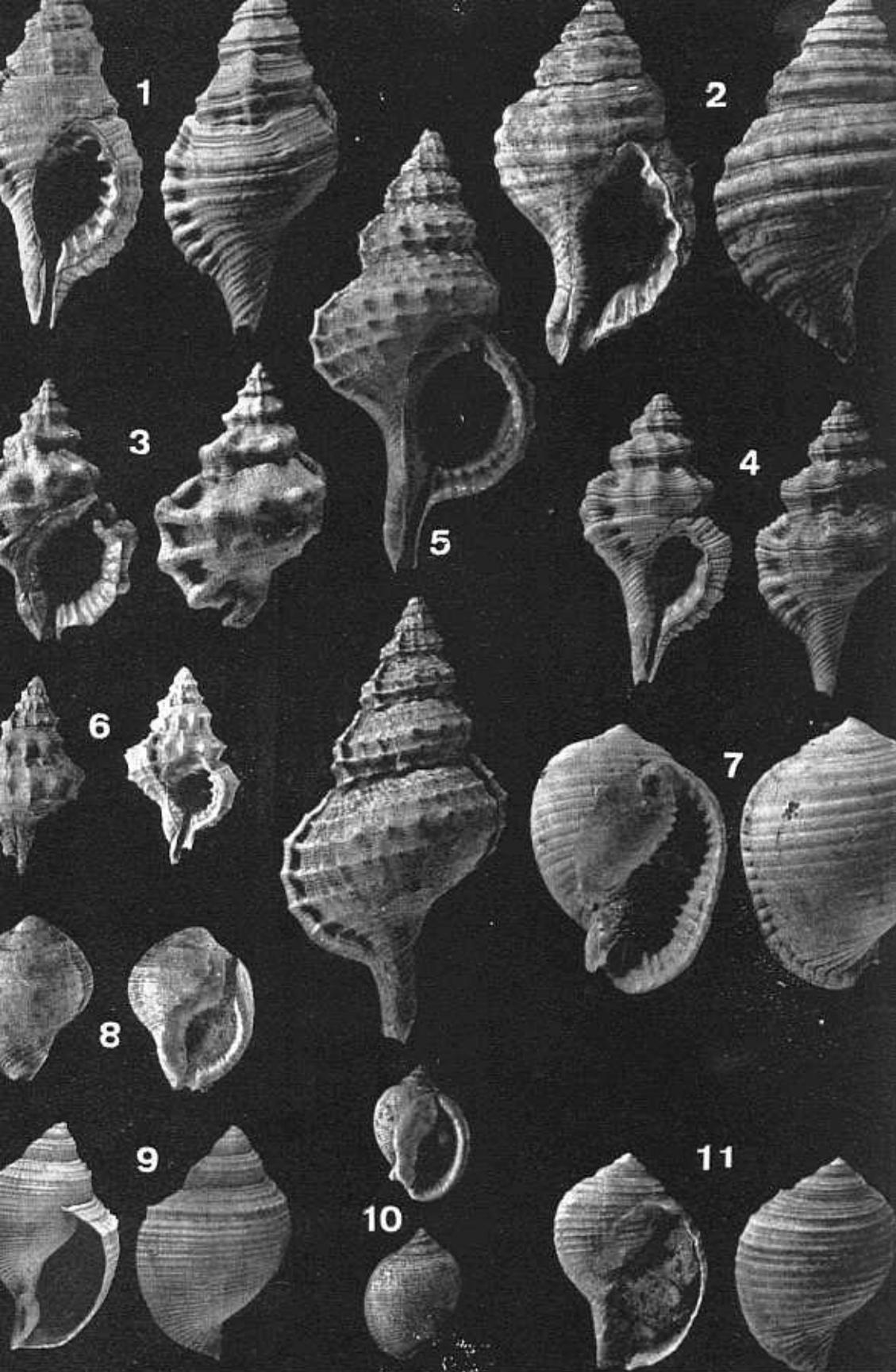


TAVOLA 14

Fig.	- <i>Xenophora crispa</i> (KÖNIG)	x 2
Fig. 2-8	- <i>Aporrhais uttingeriana</i> (RISSO)	x 1,5
Fig. 3	- <i>Xenophora testigera</i> (BRONN)	x 2
Fig. 4	- <i>Niso acarinatoconica</i> COSS. & PEYR.	x 2
Fig. 5	- <i>Xenophora infundibulum</i> (BROCCHI)	x 1,2
Fig. 6	- <i>Ficus geometra</i> (BORSON)	x 1,5
Fig. 7	- <i>Strombus coronatus</i> DEFRENCE	x 1

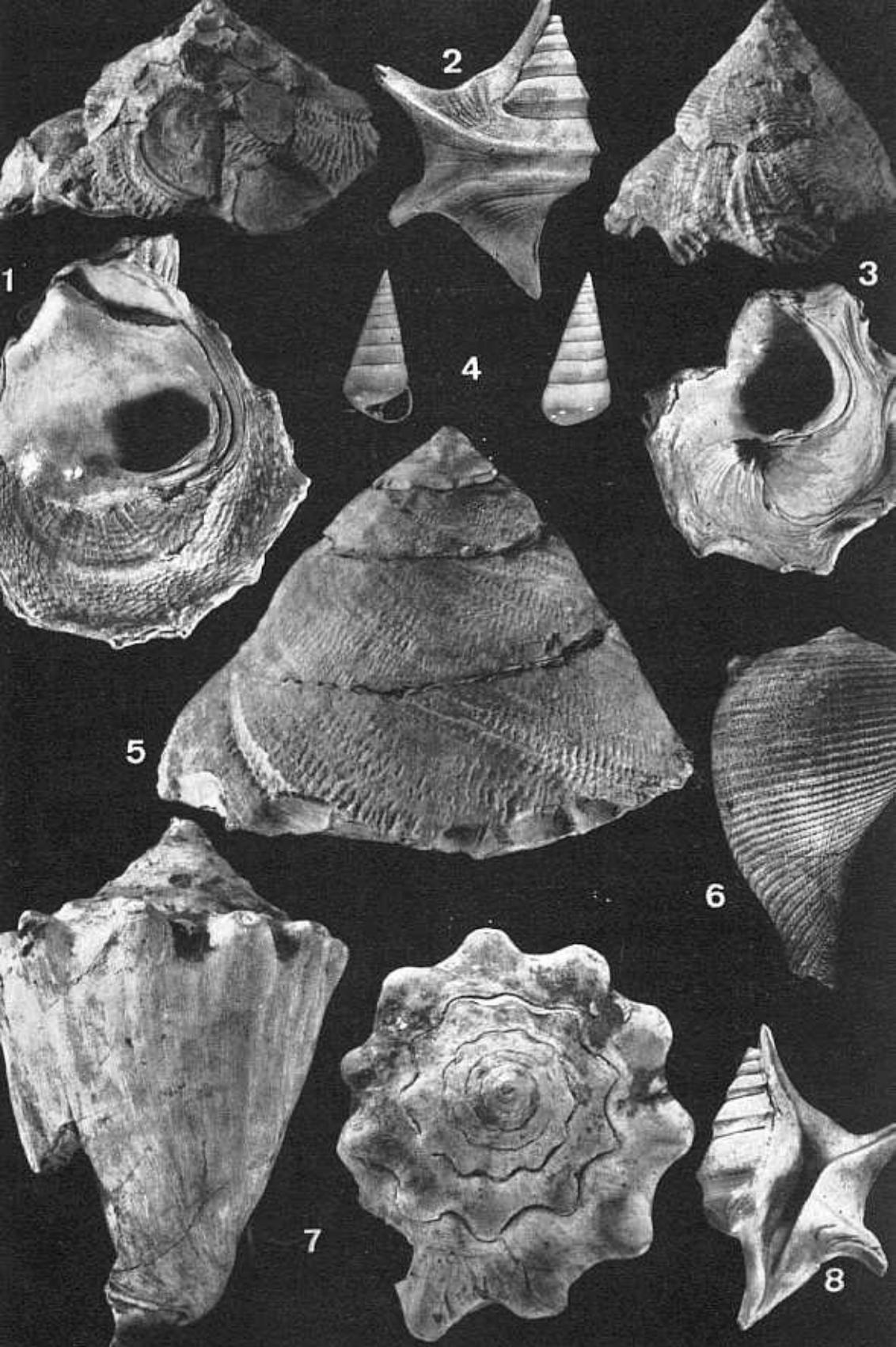
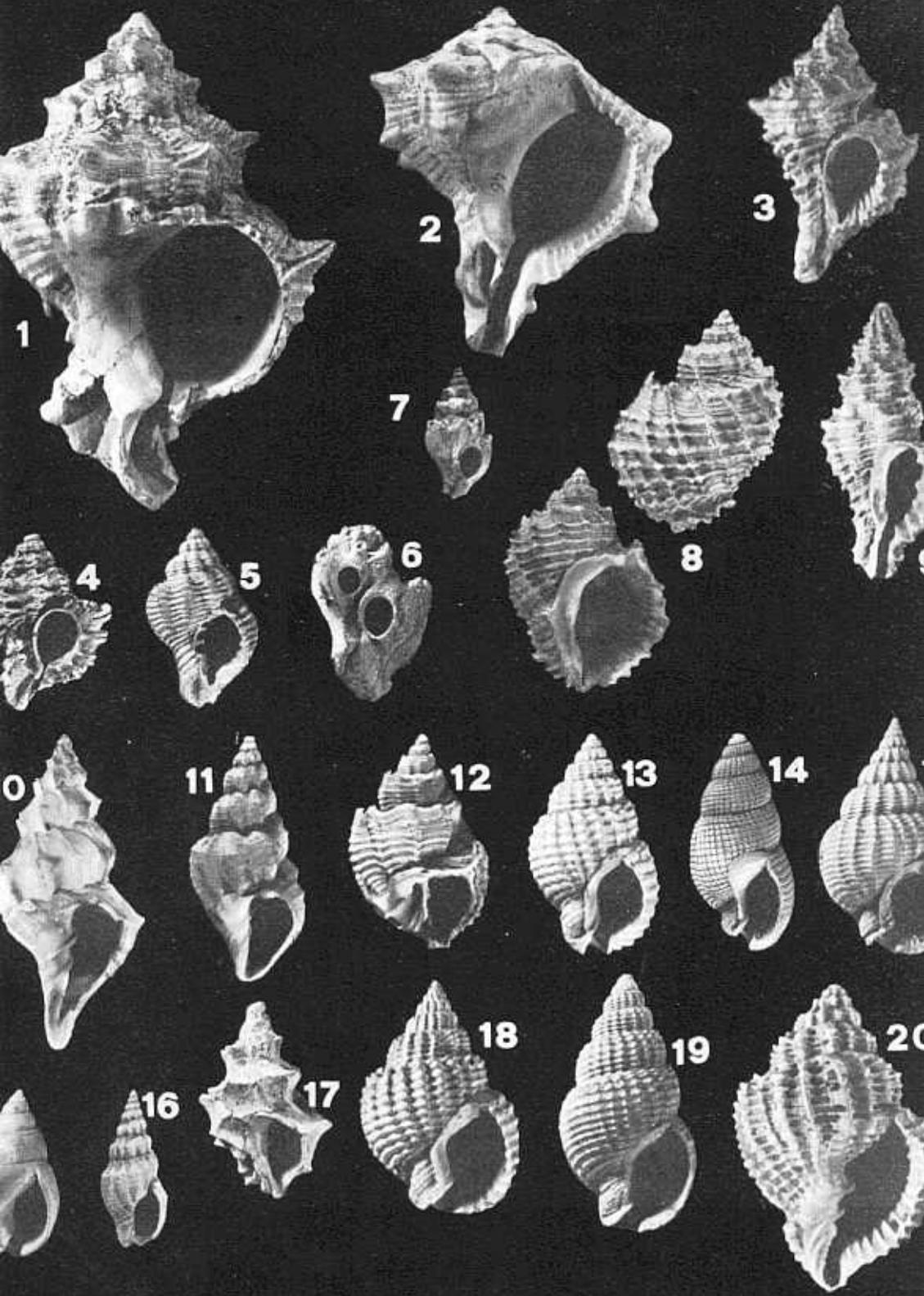


TAVOLA 15

Fig. 1	- <i>Trunculariopsis trunculus conglobatus</i> (MICH. T.)	x
Fig. 2	- <i>Murex brandaris torularius</i> LK.	x 1
Fig. 3	- <i>Purpura polymorpha</i> (BROCCHI)	x ,5
Fig. 4	- <i>Aspella absona</i> (DE CR. & JAN)	x 2
Fig. 5	- <i>Ocinebrina scalaris</i> (BROCCHI)	x 2
Fig. 6	- <i>Typhis sowerbyi</i> BRODERIP	x 2
Fig. 7	- <i>Typhis fistulosus</i> (BROCCHI)	x 1,5
Fig. 8	- <i>Narona hirta</i> (BROCCHI)	x
Fig. 9	- <i>Muricopsis cristata</i> (BROCCHI)	x 1,5
Fig. 10	- <i>Narona lyrata</i> (BROCCHI)	x 1,5
Fig. 11	- <i>Narona varricosa</i> (BROCCHI)	x 1,7
Fig. 12	- <i>Trigonostoma bellardii</i> (DE STEF. & PANT.)	1,6
Fig. 13	- <i>Hinia serrata</i> (BROCCHI)	x 1,7
Fig. 14	- <i>Hinia musiva</i> (BROCCHI)	x 1,7
Fig. 15	- <i>Hinia prysmatica</i> (BROCCHI)	x ?
Fig. 16	- <i>Phos polygonus</i> (BROCCHI)	x 1
Fig. 17	- <i>Narona calcarata</i> (BROCCHI)	x 1,7
Fig. 18	- <i>Niotha clathrata</i> (BORN)	x 1,5
Fig. 19	- <i>Hinia bisotensis</i> (DE PONTAILLER)	x 1,6
Fig. 20	- <i>Cancellaria cancellata pluricosticillata</i> SACCO	1,5
Fig. 21	- <i>Amyclina semistriata</i> (BROCCHI)	x ,5



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TAVOLA 16

Fig.	- <i>Coralliophila bracteata</i> (BROCCHI)	
Fig. 2	- <i>Mitrella nassoides</i> (GRAT.)	,5
Fig. 3	- <i>Mitrella subulata</i> (BROCCHI)	,5
Fig. 4	- <i>Mitrella thiara</i> (BROCCHI)	,5
Fig. 5	- <i>Hexaplex rufus</i> (BORSON)	
Fig. 6	- <i>Acamptochetus mitraeformis</i> (BROCCHI)	x
Fig. 7	- <i>Buccinulum corneum</i> (L.)	x
Fig. 8	- <i>Trophon fusulus</i> (BROCCHI)	x .5
Fig. 9	- ? <i>Pisanianura inflata</i> (BROCCHI)	x
Fig. 10-11	- <i>Fusinus rostratus</i> (OLIVI)	x
Fig. 12	- <i>Fusinus lamellosus</i> (BORSON)	,5
Fig. 13	- <i>Fusinus longiroster</i> (BROCCHI)	
Fig. 14	- <i>Fasciolaria fimbriata</i> (BROCCHI)	x
Fig. 15	- <i>Janiopsis angulosa</i> (BROCCHI)	x
Fig. 16	- <i>Mitra scrobiculata</i> (BROCCHI)	x
Fig. 17	- <i>Mitra sismondae</i> MICHELOTTI	x
Fig. 18	- <i>Pusia pyramidella</i> (BROCCHI)	x
Fig. 19	- <i>Mitrella nassoides</i> (GRAT.)	x
Fig. 20	- <i>Clavus obtusangulus</i> (BROCCHI)	x 3,5
Fig. 21	- <i>Turridula allionii</i> (BELLARDI)	x 1
Fig. 22	- <i>Turridula brugnonei</i> (SEGUENZA)	x
Fig. 23-24	- <i>Clavus sigmoideus</i> (BRONN)	x 3,5
Fig. 25	- <i>Amyclina italica</i> (MAYER)	x 3
Fig. 26	- <i>Mitra fusiformis</i> (BROCCHI)	x 2
Fig. 27	- <i>Halia priamus helicoides</i> (BROCCHI)	x

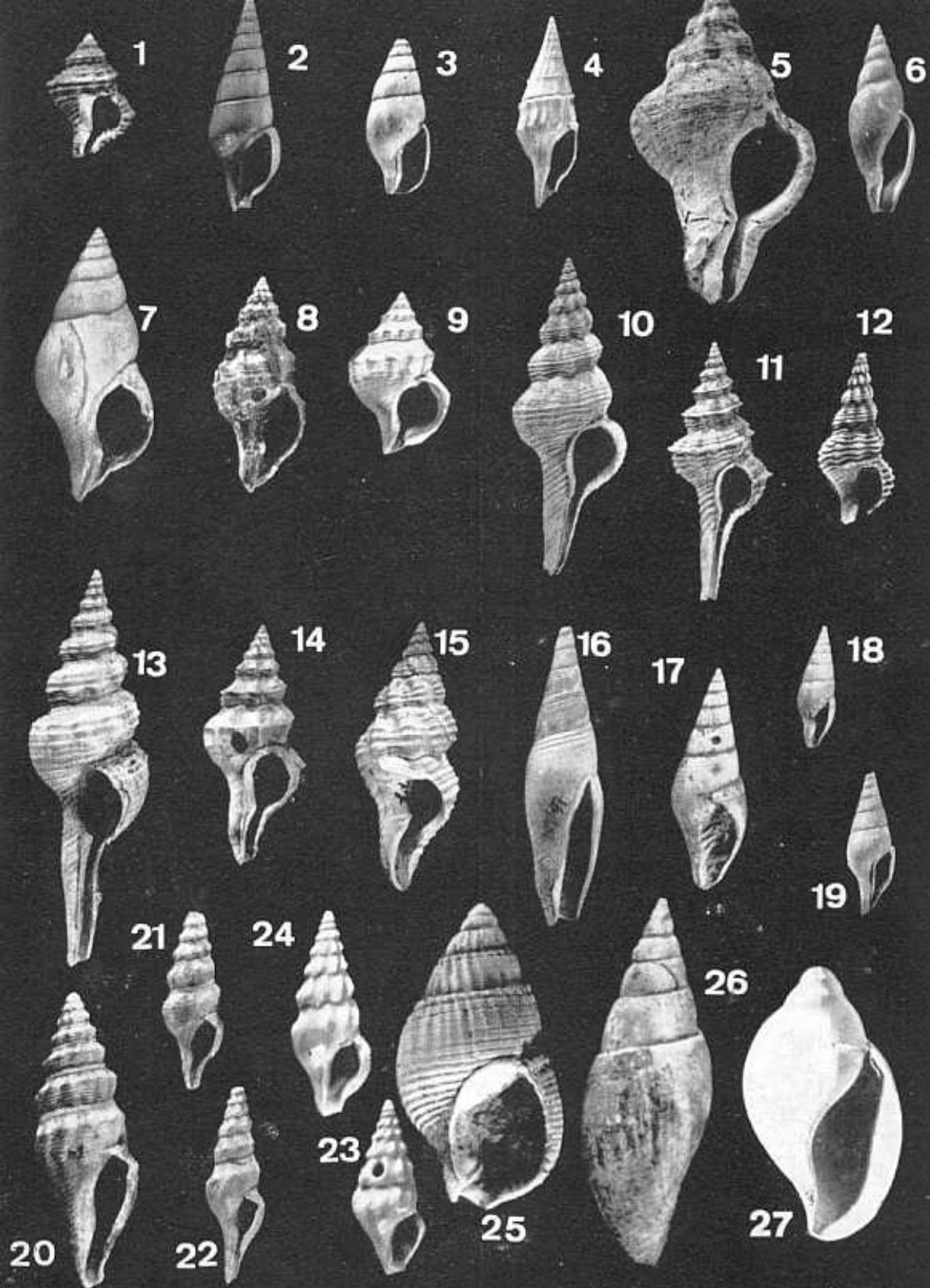


TAVOLA 17

Fig.	- <i>Subula fuscata</i> (BROCCHI)	x
Fig. 2	- <i>Terebra acuminata</i> BORSON	x
Fig. 3	- <i>Terebra postneglecta</i> (SACCO)	x
Fig. 4	- <i>Strioterebrum reticulare</i> (PECCH.)	x
Fig. 5	- <i>Strioterebrum pliocenicum</i> (FONT.)	
Fig. 6	- <i>Conus striatulus</i> BROCCHI	
Fig. 7	- <i>Conus brocchii</i> BRONN	
Fig. 8	- <i>Conus virginalis</i> BROCCHI	x
Fig. 9	- <i>Conus ponderosus</i> BROCCHI	x
Fig. 10	- <i>Conus antidiluvianus</i> BRUGUIÈRE	x
Fig. 11	- <i>Clavatula interrupta</i> (BROCCHI)	x
Fig. 12	- <i>Turricula dimidiata</i> (BROCCHI)	x
Fig. 13	- <i>Gemmula rotata</i> (BROCCHI)	
Fig. 14	- <i>Gemmula turrifera</i> (NYST)	x
Fig. 15	- <i>Microdrillia crispata</i> (DE CRIST. & JAN)	.5
Fig. 16	- <i>Ringicula ventricosa</i> (SOW.)	x 10
Fig. 17	- <i>Pyramidella plicosa</i> BRONN	x 4
Fig. 18	- <i>Genota intorta</i> (BROCCHI)	
Fig. 19	- <i>Epalxis cataphracta</i> (BROCCHI)	
Fig. 20	- <i>Raphitoma reticulata</i> (REN.)	x 4
Fig. 21	- <i>Ringicula buccinea</i> (BROCCHI)	x 11
Fig. 22	- <i>Comarmondia gracilis</i> (MONTAGU)	x 4

