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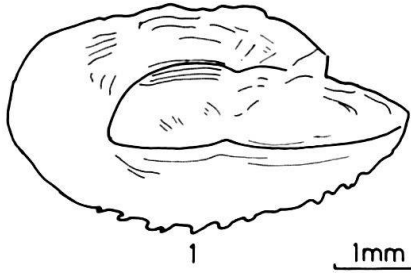
## **Explication des planches**

Abréviations utilisées: G = Otolithe gauche  
D = Otolithe droite  
I = Face interne  
E = Face externe

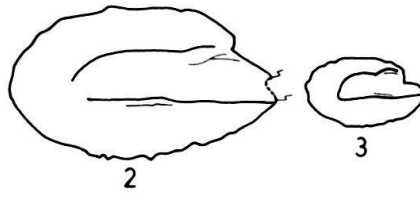
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## Planche I

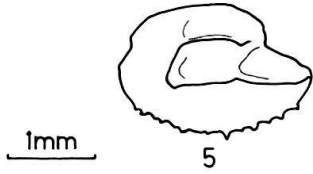
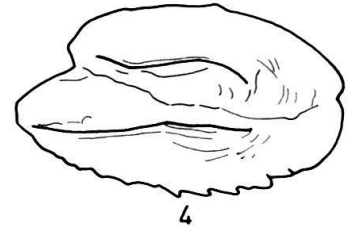
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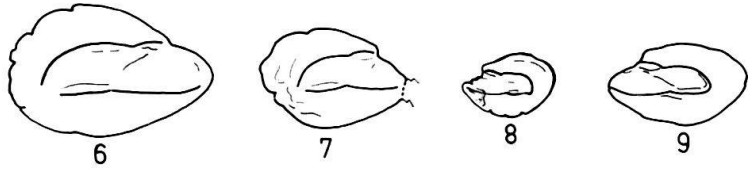
*Anchoa hepseta* (LINNAEUS,C.,1758)



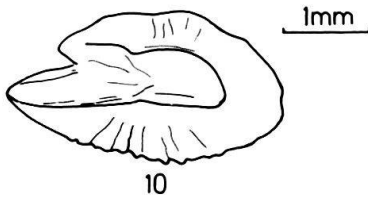
*Anchoa* sp.II



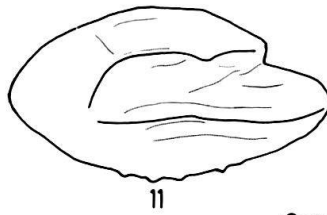
*Anchoa mitchilli*  
(VALENCIENNES,A.,1848)



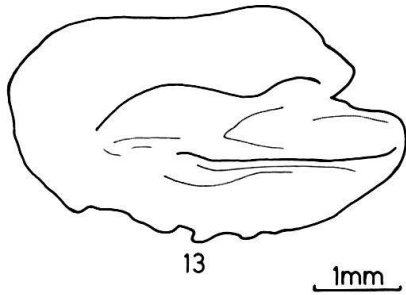
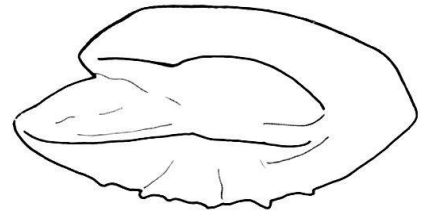
*Anchoa* sp.I



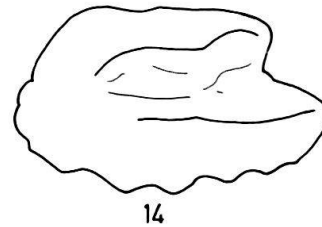
*Cetengraulis edentulus*  
(CUVIER,G.,1829)



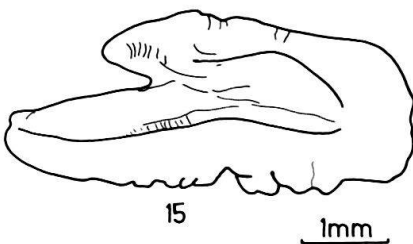
*Cetengraulis* sp.



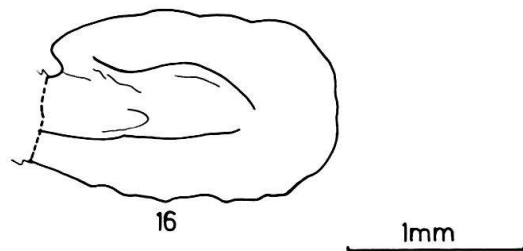
*Ilisha africana* (BLOCH,M.E.,1795)



*Ilisha* sp.



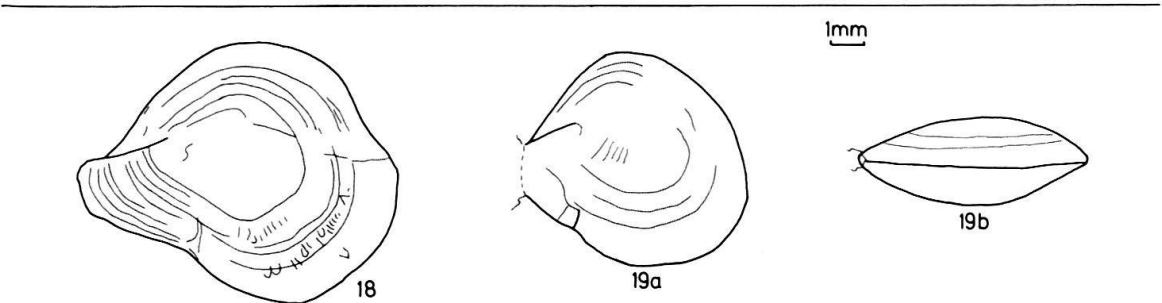
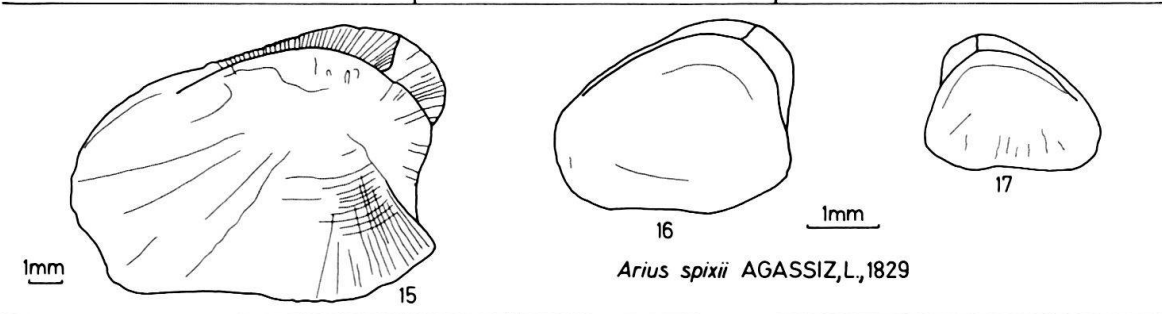
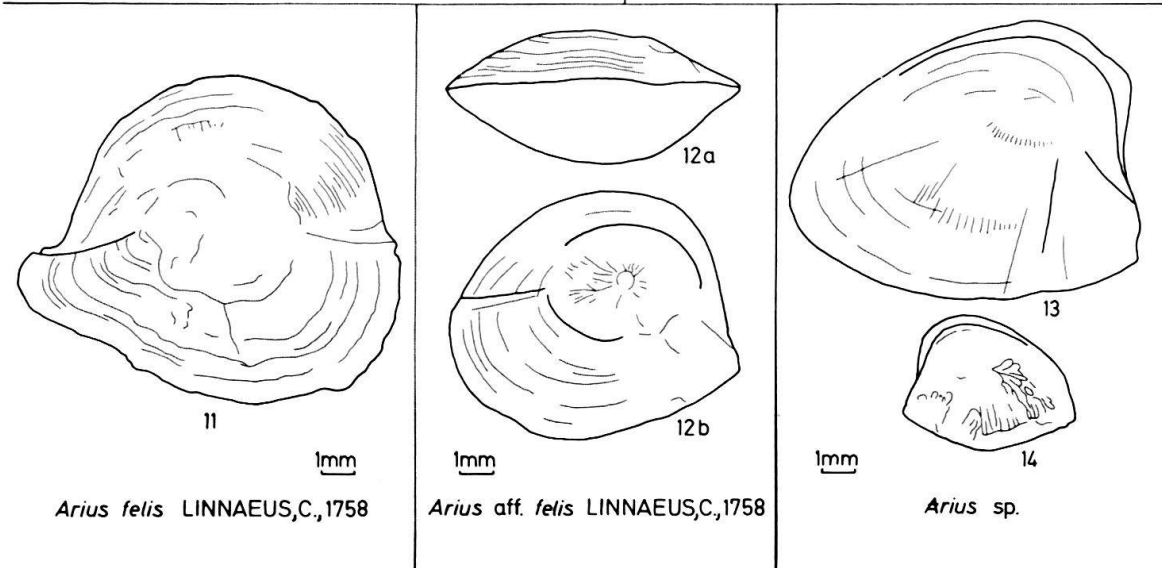
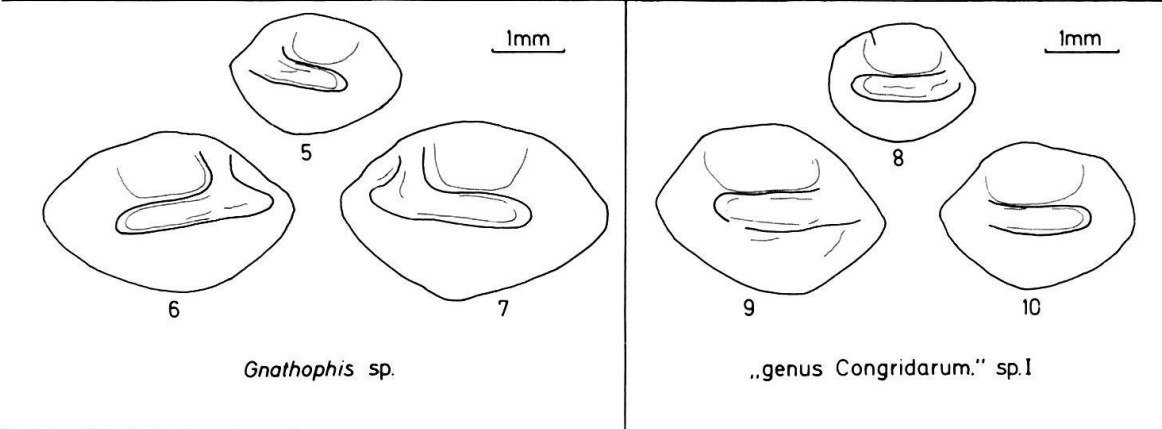
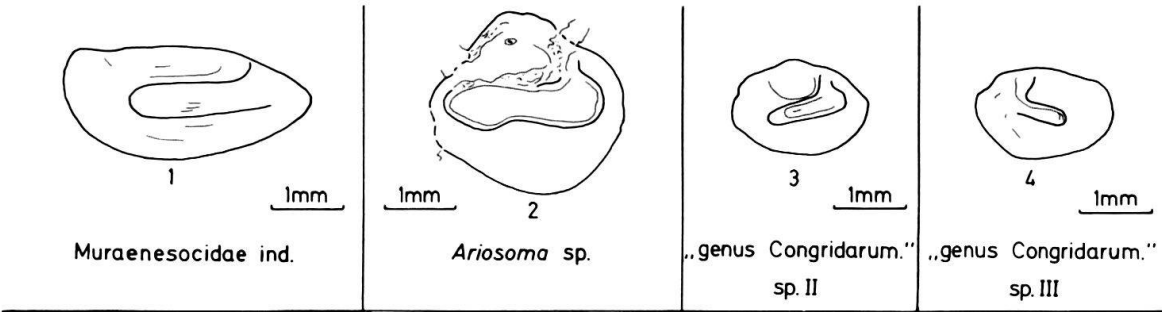
*Ophistonema oglinum*  
(LE SUEUR,C.A.,1817)



*Ophistonema* aff. *oglinum* (LE SUEUR,C.A.,1817)

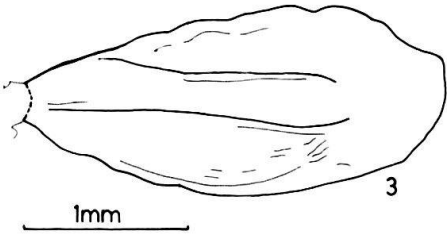
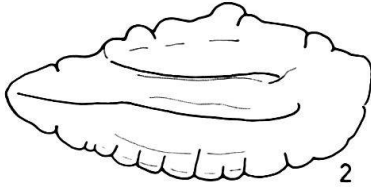
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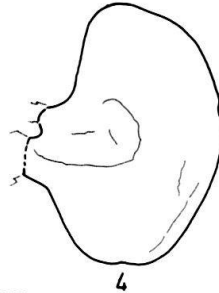


### Planche III

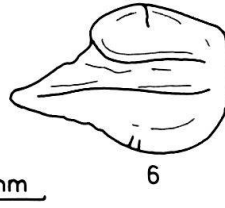
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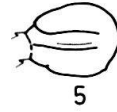
*Saurida aff. caribbaea* BREDER, C.M., 1927



*Polyipnus* sp.

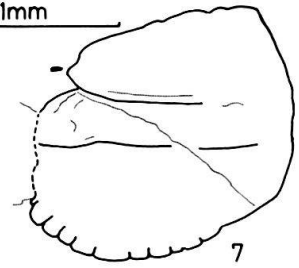


*Yarella blackfordi*  
GOODE, G.B., et BEAN, T.H., 1885



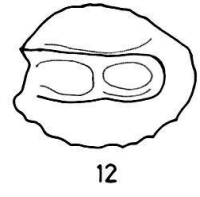
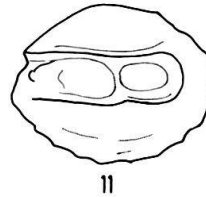
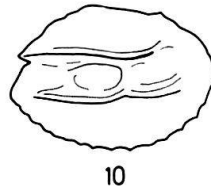
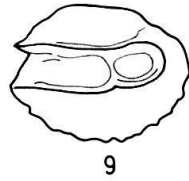
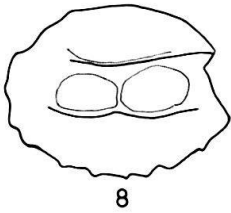
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*Polymetme cf. corythaeola*  
(ALCOCK, A.W., 1898)

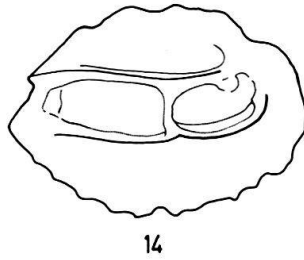
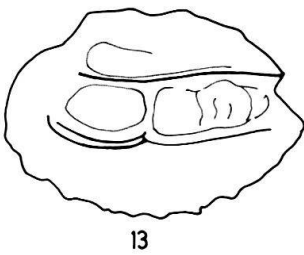


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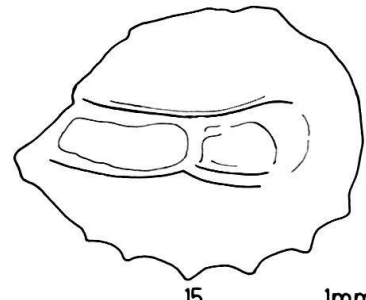
Photichyidae ind.



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*Diaphus dumerili* (BLEEKER, P., 1856)



1mm

*Diaphus termophilus* TAANING, A.V., 1928



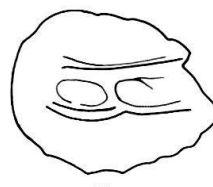
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*Diaphus taaningi*  
NORMAN, J.R., 1930



1mm

*Diaphus* sp. I



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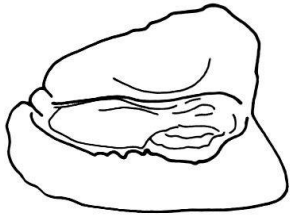
*Diaphus* sp. II



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## Planche IV

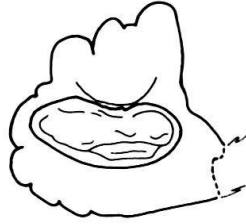
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1

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*Porichthys notatus*  
GIRARD, C.F., 1859



2

*Porichthys* sp.



3



4

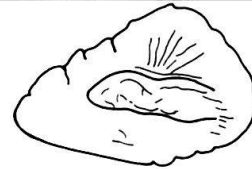
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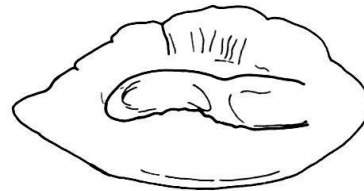
*Perulibatrachus rossignoli*  
(ROUX, C., 1957)



6

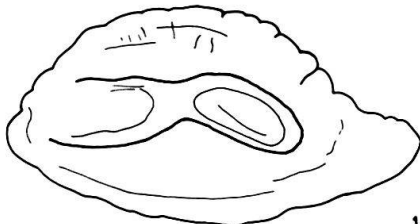
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„genus aff. *Perulibatrachus*.” sp.



8

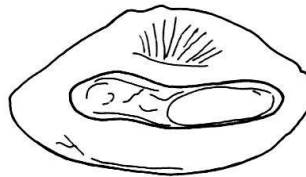
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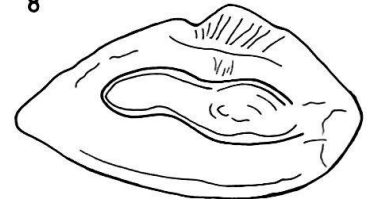
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*Thalassophryne natterei*  
STEINDACHNER, F., 1876

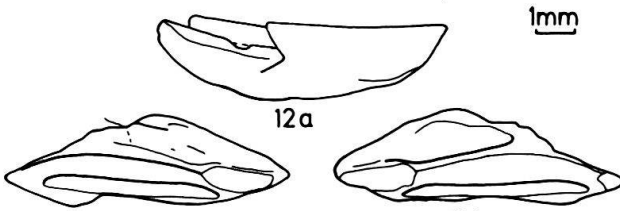


9

*Thalassophryne* sp.



10



11

12a

12b

1mm

*Gadella maraldi* (RISSO, A., 1810)



13a



13b

1mm

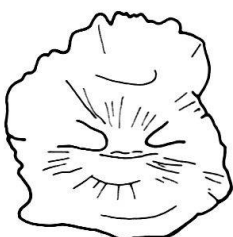
*Gadella* sp.



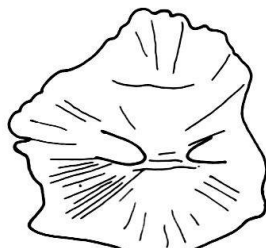
14

1mm

Antennariidae ind.



15



16

1mm



17

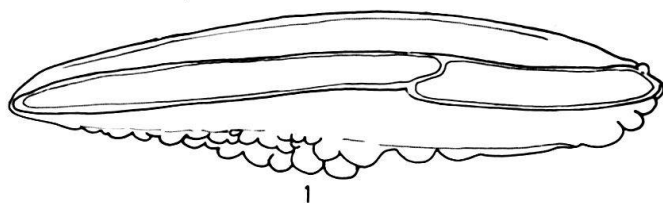
*Breamaceros* sp.



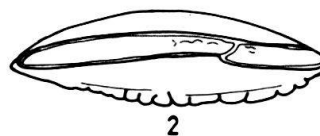
18

## Planche V

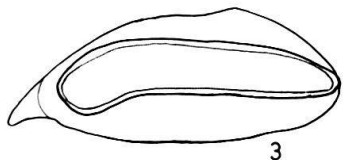
Fig. 1-2	<i>Brotula barbata</i> (SCHNEIDER, 1801) ..... 1 G. I., actuel, au large du Zaïre. (coll. D. Nolf). 2 G. I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1480)	723
Fig. 3	<i>Lepophidium prorates</i> (JORDAN & BOLLMAN, 1889) ..... G. I., actuel, Pacifique, au large de Panama. (coll. D. Nolf).	724
Fig. 4	<i>Lepophidium microlepis</i> GILBERT, 1890 ..... D. I., actuel, au large de la Californie. (coll. F. C. Stinton).	724
Fig. 5-7	<i>Lepophidium</i> sp. .... 5a G., profil vu du côté ventral. Formation de Tamana, point 5, éch. K. 12163. (SA 1481) 5b ibidem, G. I. 6 G. I., Formation de Manzanilla, point 16, éch. K. 10842. (SA 1482) 7 D. I., Formation de Brasso, point 23, éch. K. 1875. (SA 1483)	723
Fig. 8	<i>Neobythites malayanus</i> WEBER, 1913 ..... G. I., actuel, au large de l'Indonésie. (coll. D. Nolf).	725
Fig. 9	<i>Lepophidium</i> sp. II ..... G. I., Formation de Manzanilla, point 22, éch. S. M. 1399. (SA 1484)	724
Fig. 10-11	<i>Neobythites</i> aff. <i>malayanus</i> WEBER, 1913 ..... 10 G. I., Formation de Brasso, point 11, éch. 1852. (SA 1485) 11a G. I., Formation de Brasso, point 11, éch. 1852. (SA 1486) 11b ibidem; profil, vu du côté ventral.	724
Fig. 12	<i>Neobythites</i> sp. .... 12a G. I., Formation de Brasso, point 20, éch. Cb. 1852. (SA 1487) 12b ibidem, profil, vu du côté ventral.	725
Fig. 13	<i>Neobythites fasciatus</i> SMITH & RADCLIFFE, 1913 ..... G. I., actuel, au large du Japon. (coll. F. C. Stinton).	725
Fig. 14	Ophidiidae ind. .... G. I., Formation de Manzanilla, point 22, éch. S. M. 1399. (SA 1488)	725



*Brotula barbata* (SCHNEIDER, J.G., 1801)



1mm



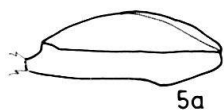
1mm

*Lepophidium prorates*  
(JORDAN, D.S., et BOLLMAN, C.H., 1889)



1mm

*Lepophidium microlepis*  
GILBERT, C.H., 1890

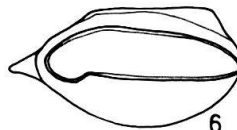


5a



5b

1mm

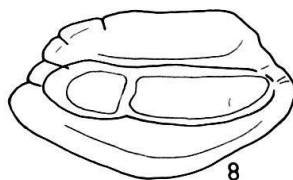


6



7

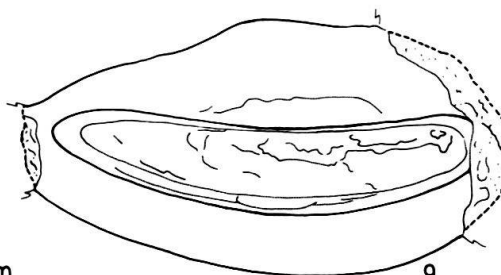
*Lepophidium* sp. I



8

1mm

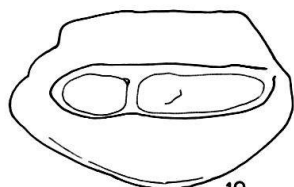
*Neobythites malayanus* WEBER, M., 1913



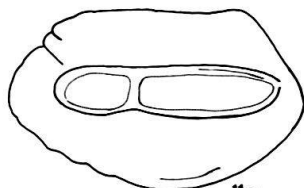
1mm

9

*Lepophidium* sp. II



10

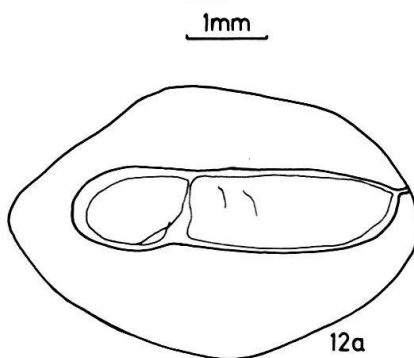


11a

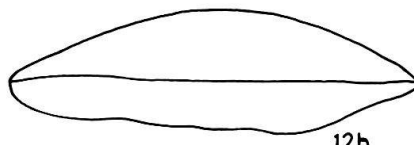


11b

*Neobythites* aff. *malayanus*

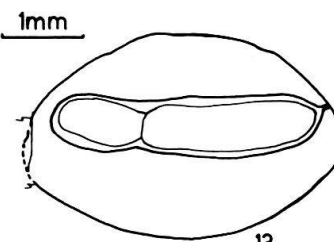


12a



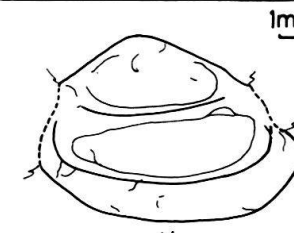
12b

*Neobythites* sp.



13

*Neobythites fasciatus*  
(SMITH, H., et RADCLIFFE, L., 1913)

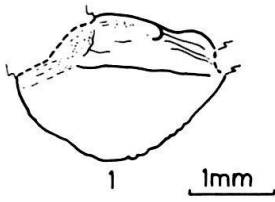


14

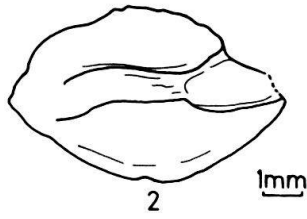
Ophiidiidae ind.

## Planche VI

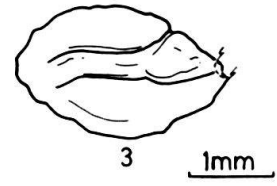
Fig. 1	? <i>Myripristis</i> sp. .... D.I., Formation de Brasso, point 28, éch. K. R. 6666. (SA 1489)	725
Fig. 2	<i>Neanthias accraensis</i> NORMAN, 1831 .... G.I., actuel, côtes du Zaïre. (coll. D. Nolf).	726
Fig. 3	<i>Neanthias</i> sp. .... G.I., Formation de Brasso, point 20, éch. Cb. 1852. (SA 1490)	726
Fig. 4-5	<i>Apogon</i> sp. I .... 4 G.I., Formation de Brasso, point 10, éch. K. R. 9247. (SA 1491) 5 D.I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1492)	726
Fig. 6-8	<i>Apogon</i> sp. II .... 6 D.I., Formation de Brasso, point 28, éch. K. R. 6666. (SA 1493) 7 D.I., Formation de Brasso, point 28, éch. K. R. 6666. (SA 1494) 8 D.I., Formation de Brasso, point 28, éch. K. R. 6666. (SA 1495)	726
Fig. 9	<i>Epigonus trewavasae</i> POLL, 1954 .... G.I., actuel, au large de Casablanca. (coll. D. Nolf).	727
Fig. 10	<i>Epigonus</i> sp. .... G.I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1496)	727
Fig. 11	Carangidae ind. .... D.I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1497)	727
Fig. 12	«genus Sparidarum» sp. I .... G.I., Formation de Brasso, point 27, éch. K. R. 6666. (SA 1498)	728
Fig. 13	«genus Sparidarum» sp. II .... G.I., Formation de Brasso, point 8, éch. K. R. 7546. (SA 1499)	728
Fig. 14	Mullidae ind. .... G.I., Formation de Brasso, point 8, éch. K. R. 7546. (SA 1500)	735
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Fig. 17-18	<i>Haemulon</i> sp. .... 17 D.I., Formation de Manzanilla, point 30, éch. 1633. (SA 1503) 18 D.I., Formation de Manzanilla, point 30, éch. 1633. (SA 1504)	727



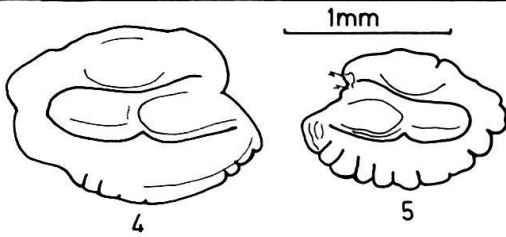
?*Myripristis* sp.



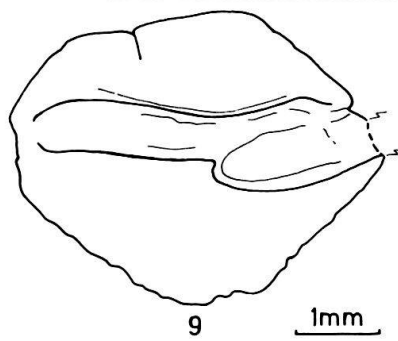
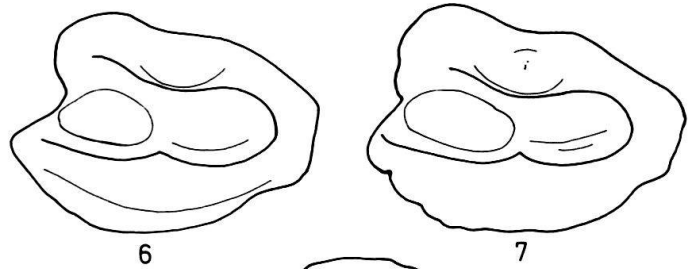
*Neanthias accraensis*  
NORMAN, J.R., 1931



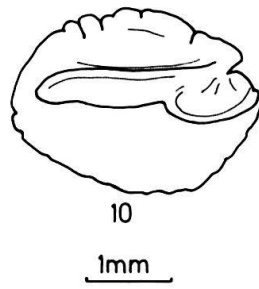
*Neanthias* sp.



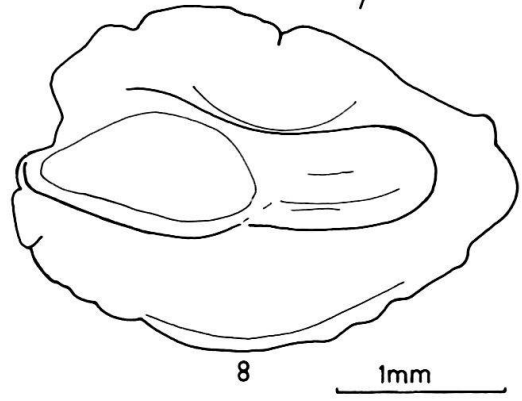
*Apogon* sp. I



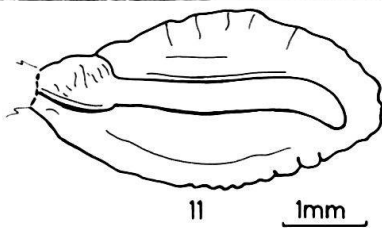
*Epigonus trewavasae*  
POLL, M., 1959



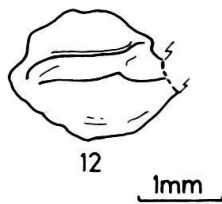
*Epigonus* sp.



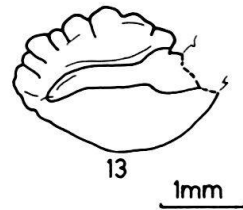
*Apogon* sp. II



Carangidae ind.



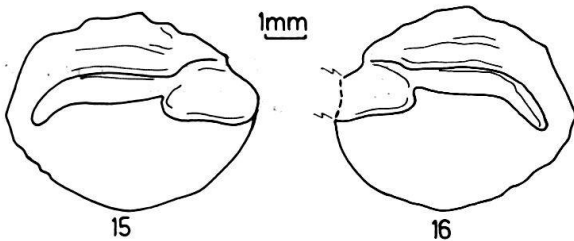
„genus Sparidarum.”  
sp. I



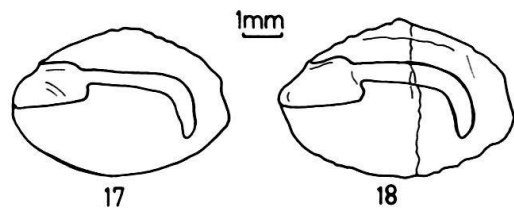
„genus Sparidarum.” sp. II



Mullidae ind.



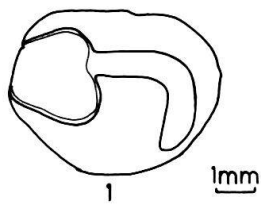
*Pomadasys* sp.



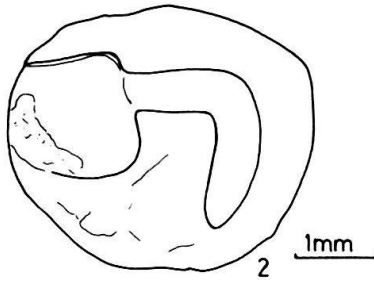
*Haemulon* sp.

## Planche VII

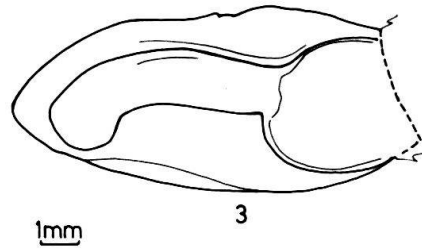
Fig. 1	<i>Ctenosciaena gracilicirrhus</i> METZELAAR, 1919 ..... D.I., actuel, côtes du Brésil. (coll. D. Nolf).	729
Fig. 2	<i>Ctenosciaena aff. gracilicirrhus</i> METZELAAR, 1919 ..... D.I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1505)	729
Fig. 3	<i>Cynoscion</i> sp. .... G.I., Formation de Manzanilla, point 25, éch. Cb. 1633. (SA 1506)	729
Fig. 4	<i>Isopisthus</i> sp. .... G.I., Equivalent de la Formation de Springvale, point 1, éch. à 603 ft. (SA 1507)	730
Fig. 5	<i>Cynoscion arenarius</i> GINSBURG, 1929 ..... G.I., actuel, Golfe du Mexique. (coll. D. Nolf).	729
Fig. 6	<i>Isopisthus parvipinnis</i> CUVIER, 1830 ..... G.I., actuel, côtes du Brésil. (coll. D. Nolf).	730
Fig. 7	<i>Larimus fasciatus</i> HOLBROOK, 1855 ..... G.I., actuel, côtes de la Floride. (coll. J. E. Fitch).	731
Fig. 8-10	<i>Larimus breviceps</i> CUVIER, 1830 ..... 8 G.I., actuel, côtes du Vénézuéla. (coll. D. Nolf). 9 G.I., Formation de Manzanilla, point 22, éch. S. M. 1399. (SA 1508) 10 D.I., Formation de Tamana, ou base de la Formation de Manzanilla, point 3, éch. Cb. 2076. (SA 1509)	730
Fig. 11	<i>Larimus</i> sp. .... D.I., Formation de Manzanilla, point 14, éch. K. 12301. (SA 1510)	731
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Fig. 13	<i>Macrodon</i> sp. .... G.I., Formation de Manzanilla, point 24, éch. K. 9833. (SA 1511)	731



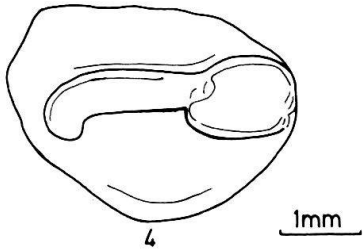
1  
*Ctenosciaena gracilicirrhus*  
METZELAAR, J., 1919



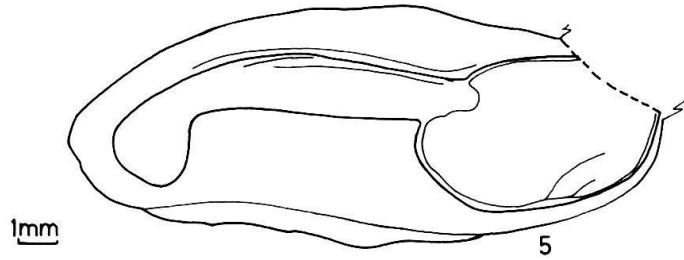
2  
*Ctenosciaena aff. gracilicirrhus*  
METZELAAR, J., 1919



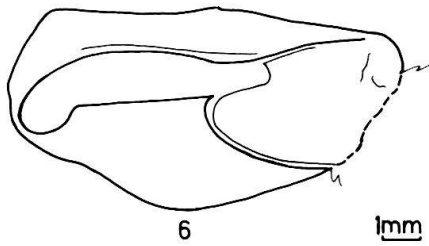
3  
*Cynoscion* sp.



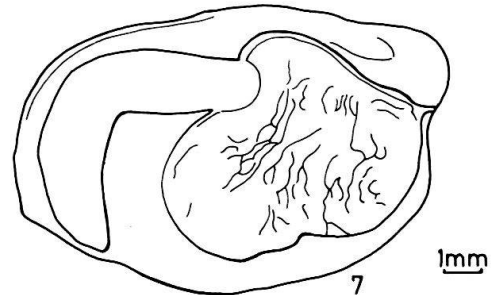
4  
*Isopisthus* sp.



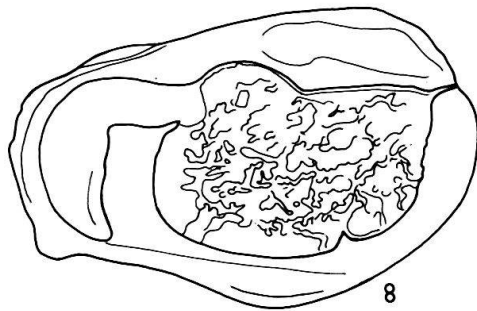
5  
*Cynoscion arenarius* GINSBURG, I., 1929



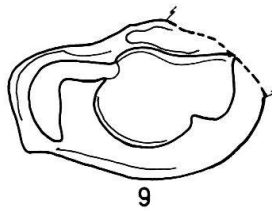
6  
*Isopisthus parvipinnis* (CUVIER, G., 1830)



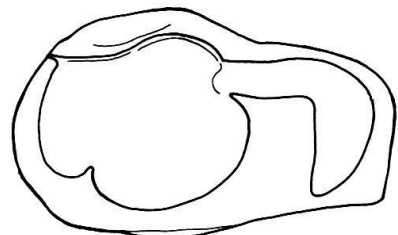
7  
*Larimus fasciatus* HOLBROOK, J. E., 1855



8  
*Larimus breviceps* CUVIER, G., 1830

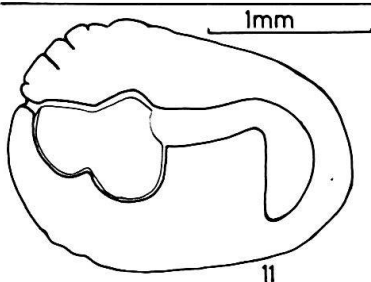


9

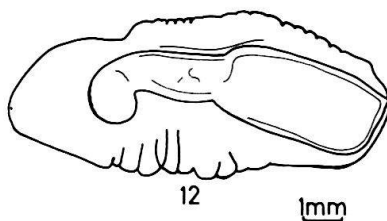


10

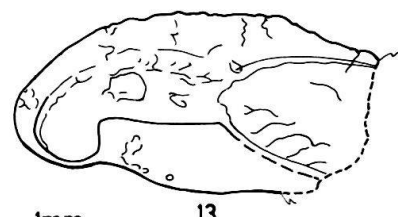
1mm



11  
*Larimus* sp.



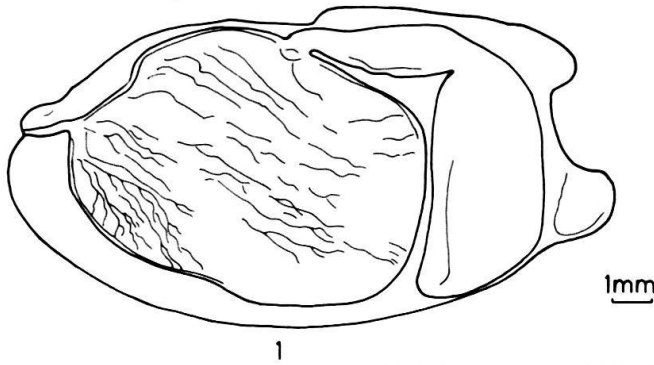
12  
*Macrodon ancylodon*  
(SCHNEIDER, J. G., 1801)



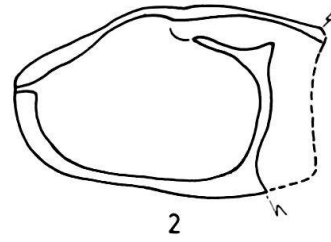
13  
*Macrodon* sp.

## Planche VIII

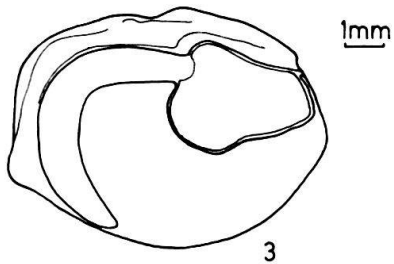
Fig. 1-2	<i>Nebris microps</i> CUVIER, 1838 ..... 1 actuel, côtes du Vénézuéla. (coll. D. Nolf). 2 Formation de Tamana, ou base de la Formation de Manzanilla, point 3, éch. Cb. 2076. (SA 1512)	732
Fig. 3	<i>Pachypops fourcroi</i> (LACEPEDE, 1802) ..... actuel, Brésil. (coll. D. Nolf).	732
Fig. 4-5	«genus aff. <i>Pachypops</i> » sp. .... 4 G.I., Formation de Manzanilla, point 22, éch. S. M. 1399. (SA 1513) 5 G.I., Formation de Manzanilla, point 25, éch. Cb. 1633. (SA 1514)	732
Fig. 6	<i>Plagioscion squamosissimus</i> HECKEL, 1840 ..... D. I., actuel, Guyana, (coll. British Museum N. H.).	733
Fig. 7	<i>Plagioscion</i> sp. .... D. I., Formation de Gros Morne, point 19, éch. K. 12059. (SA 1515)	733
Fig. 8	<i>Polyclemus brasiliensis</i> (STEINDACHNER, 1875) ..... D. I., actuel, côtes du Brésil. (coll. British Museum N. H.).	733
Fig. 9	<i>Polyclemus</i> sp. .... D. I., Formation de Manzanilla, point 25, éch. Cb. 1633. (SA 1516)	733
Fig. 10	<i>Sigmurus vermicularis</i> (GUNTHER, 1868) ..... G. I., actuel, Pacifique, au large de Panama. (coll. D. Nolf)	734
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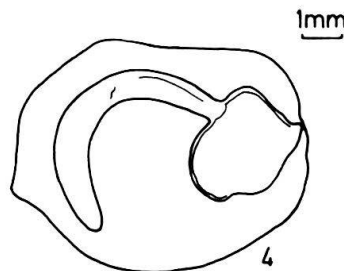
1  
*Nebris microps* CUVIER, G., 1830



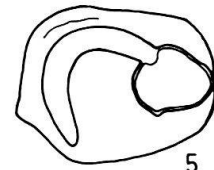
2



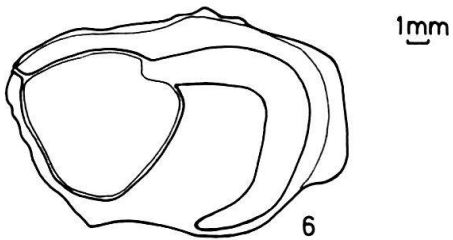
3  
*Pachypops fourcroi*  
(LACEPEDE, B., 1802)



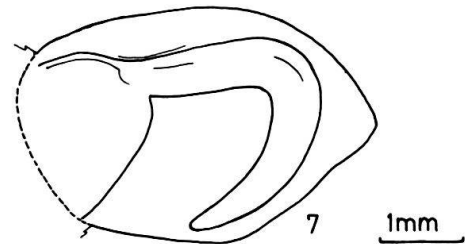
4  
„genus aff. *Pachypops*” sp.



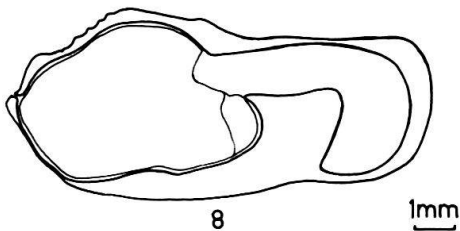
5



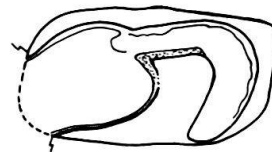
6  
*Plagioscion squamosissimus*  
HECKEL, J.J., 1840



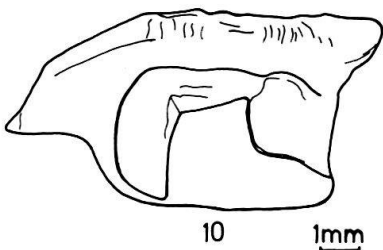
7  
*Plagioscion* sp.



8  
*Polyclemus brasiliensis*  
(STEINDACHNER, F., 1875)



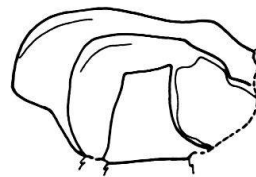
9  
*Polyclemus* sp.



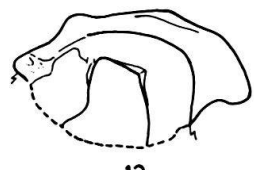
10  
*Sigmurus vermicularis*  
(GÜNTHER, A., 1868)



11



12

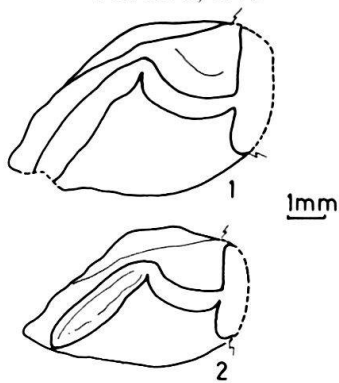


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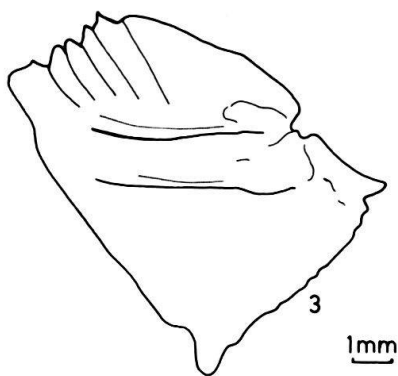
*Sigmurus* sp.

## Planche IX

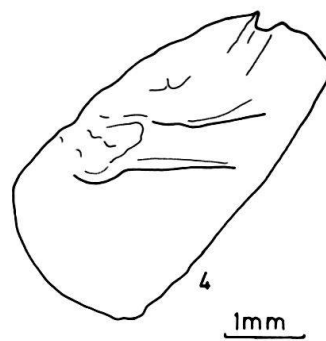
Fig. 1-2	«genus Sciaenidarum» sp. .... 1 G.I., Formation de Manzanilla, point 25, éch. Cb. 1633. (SA 1520) 2 G.I., Formation de Manzanilla, point 25, éch. Cb. 1633. (SA 1521)	734
Fig. 3	<i>Bathyclupea hoskynii</i> ALCOCK, 1891 ..... G.I., actuel, Golfe d'Aden. (coll. D. Nolf).	735
Fig. 4	<i>Bathyclupea</i> sp. .... D.I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1522)	735
Fig. 5	«genus Percoideorum» sp. .... D.I., Formation de Brasso, point 11, éch. Cb. 1855. (SA 1523)	736
Fig. 6-7	Gobiidae ..... 6 G.I., Formation de Brasso, point 8, éch. K. R. 7546. (SA 1524) 7 G.I., Formation de Nariva, point 17, éch. K. R. 25956. (SA 1525)	737
Fig. 8	<i>Opistognathus aurifrons</i> JORDAN & THOMPSON, 1905 ..... G.I., actuel, au large de Puerto Rico. (coll. J. E. Fitch).	736
Fig. 9-11	<i>Lonchistium</i> sp. .... 9 G.I., Formation de Brasso, point 18, éch. K. R. 6666. (SA 1526) 10 D.I., Formation de Brasso, point 18, éch. K. R. 6666. (SA 1527) 11 D.I., Formation de Brasso, point 23, éch. Cb. 1875. (SA 1528)	736
Fig. 12	<i>Citharichthys</i> sp. .... D.I., Formation de Morne l'Enfer, point 21, éch. K. 12013. (SA 1529)	737
Fig. 13	<i>Citharichthys stygmaeus</i> JORDAN & GILBERT, 1882 ..... D.I., actuel, côtes de la Californie. (coll. D. Nolf).	738
Fig. 14	«genus Pleuronectiformorum» sp. I ..... D.I., Formation de Nariva, point 28, éch. K. R. 6666. (SA 1530)	738
Fig. 15	«genus Pleuronectiformorum» sp. II ..... D.I., Formation de Springvale, point 18, éch. K. R. 11862. (SA 1531)	738
Fig. 16	«genus Soleidarum» sp. .... 16a G.I., Formation de Brasso, point 20, éch. Cb. 1848. (SA 1532) 16b G., ibidem, profil en vue ventrale.	738
Fig. 17	<i>Symphurus</i> sp. .... G.I., Formation de Manzanilla, point 17, éch. K. 18054. (SA 1533)	739
Fig. 18-19	<i>Symphurus nigrescens</i> RAFINESQUE, 1810 ..... 18 G.I., actuel, au large de Casablanca. (coll. D. Nolf). 19 D.I., actuel, au large de Casablanca. (coll. D. Nolf).	739



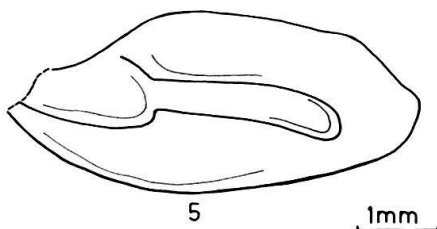
„genus Sciaenidarum.” sp.



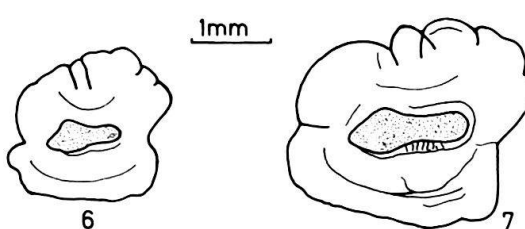
*Bathyclupea hoskynii* ALCOCK, A.W., 1891



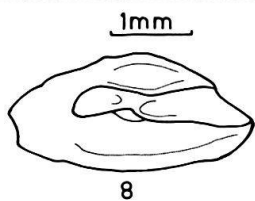
*Bathyclupea* sp.



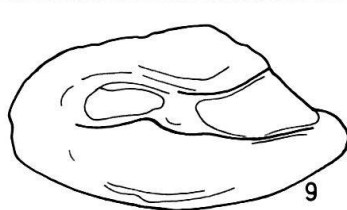
„genus Percoideorum.” sp.



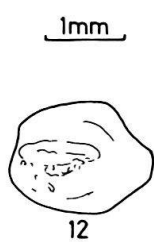
Gobiidae



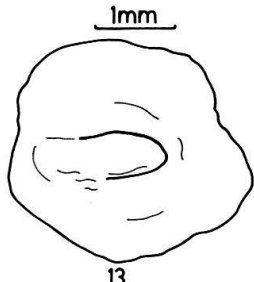
*Opistognathus aurifrons*  
JORDAN, D.S., et THOMPSON,  
J.C., 1905



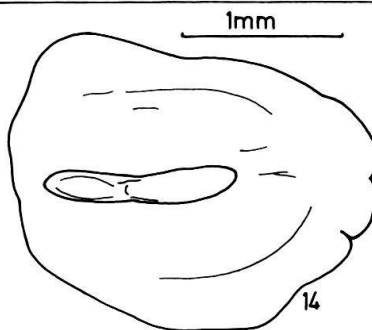
*Lonchistium* sp.



*Citharichthys* sp.



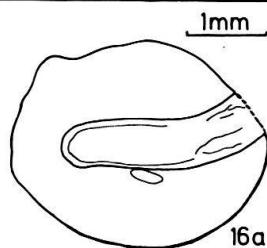
*Citharichthys stygmaeus*  
JORDAN, D.S., et GILBERT,  
C.H., 1882



„genus Pleuronectiformorum.” sp. I



„genus Pleuronecti-  
formorum.” sp. II

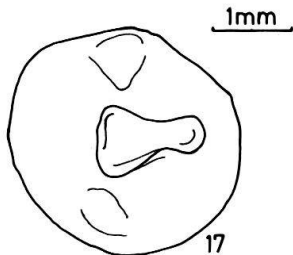


16a



16b

„genus Soleidarum.” sp.



17

*Symphurus* sp.



18

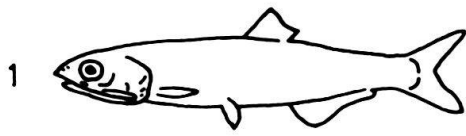


19

*Symphurus nigrescens* RAFINESQUE, C., 1810

## Planches X-XII

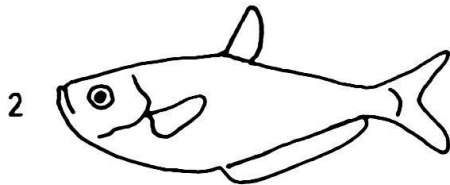
Aspect général des familles de Téléostéens (telles que déterminées d'après leurs otolithes) du Néogène de Trinidad. Dessins d'après GREENWOOD, ROSEN, WEITZMAN & MYERS (1966).



**Engraulidae**



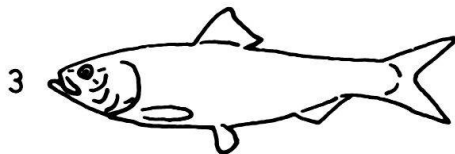
**Ariidae**



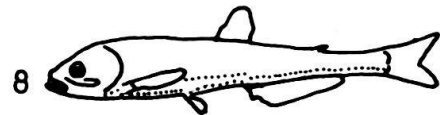
**Perigasteridae**



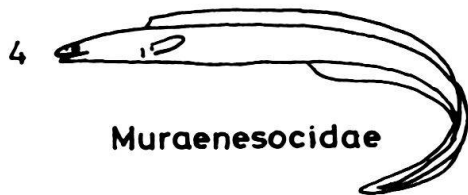
**Sternoptychidae**



**Clupeidae**



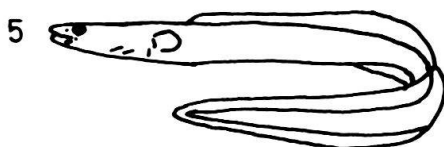
**Photichthyidae**



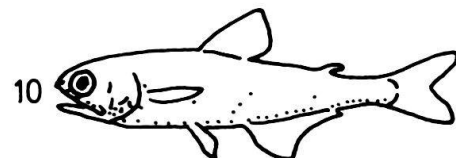
**Muraenesocidae**



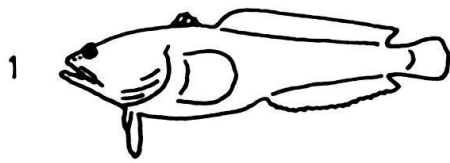
**Synodontidae**



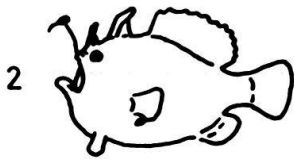
**Congridae**



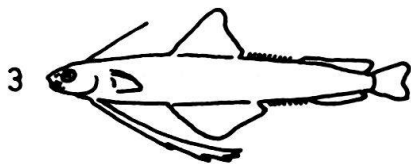
**Myctophidae**



**Batrachoididae**



**Antennariidae**



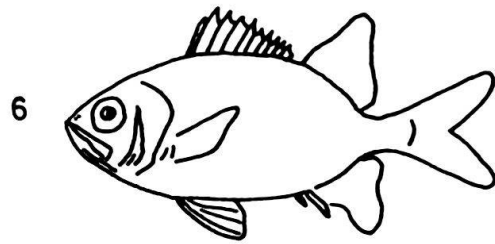
**Bregmacerotidae**



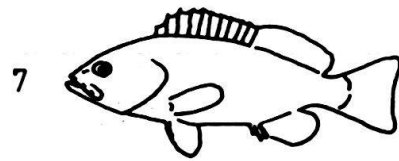
**Eretmophoridae**



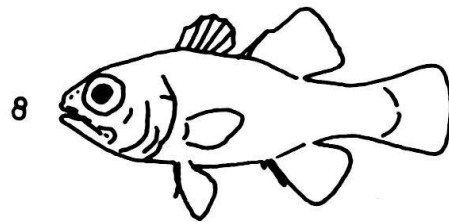
**Ophidiidae**



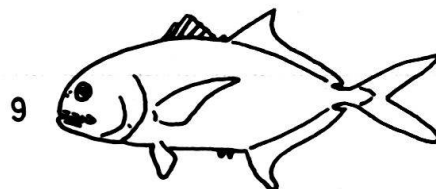
**Myripristidae**



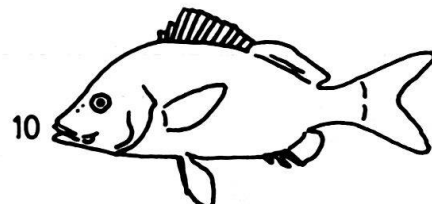
**Serranidae**



**Apogonidae**



**Carangidae**



**Pomadasyidae**

