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**Autor:** Nolf, Dirk  
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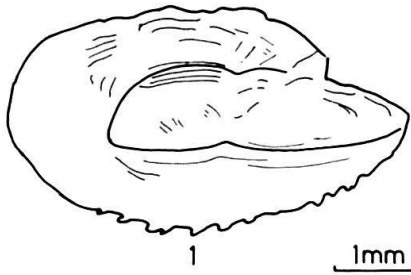
## **Explication des planches**

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

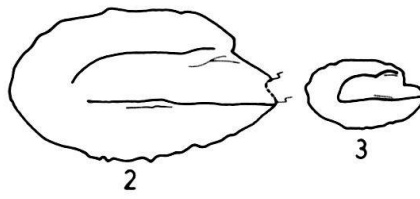
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## Planche I

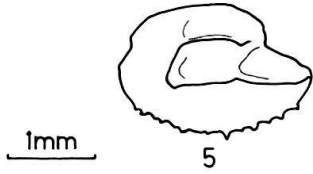
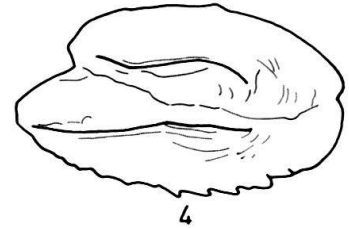
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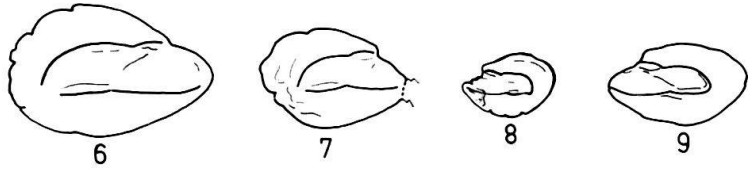
*Anchoa hepseta* (LINNAEUS,C.,1758)



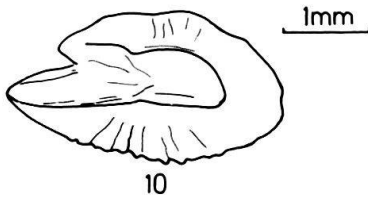
*Anchoa* sp.II



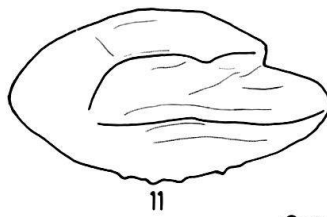
*Anchoa mitchilli*  
(VALENCIENNES,A.,1848)



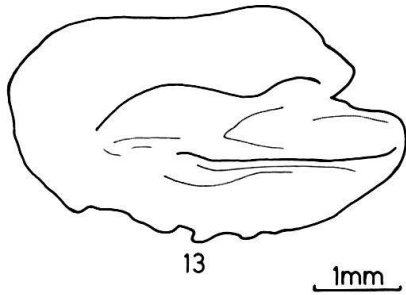
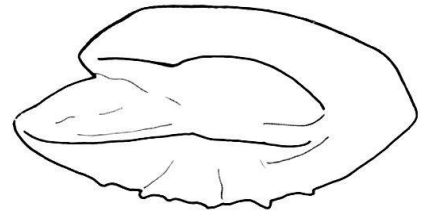
*Anchoa* sp.I



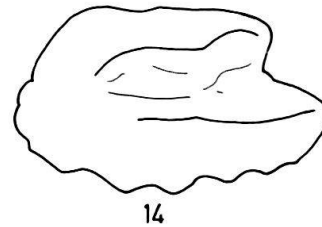
*Cetengraulis edentulus*  
(CUVIER,G.,1829)



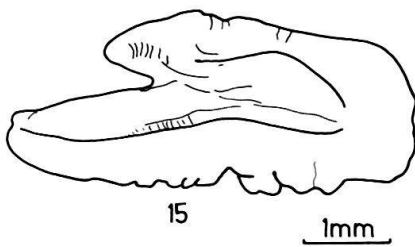
*Cetengraulis* sp.



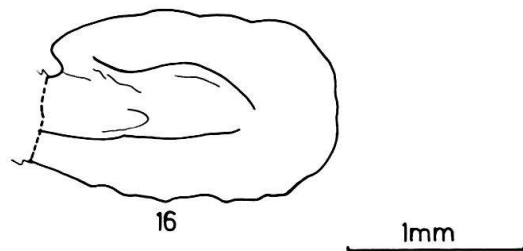
*Ilisha africana* (BLOCH,M.E.,1795)



*Ilisha* sp.



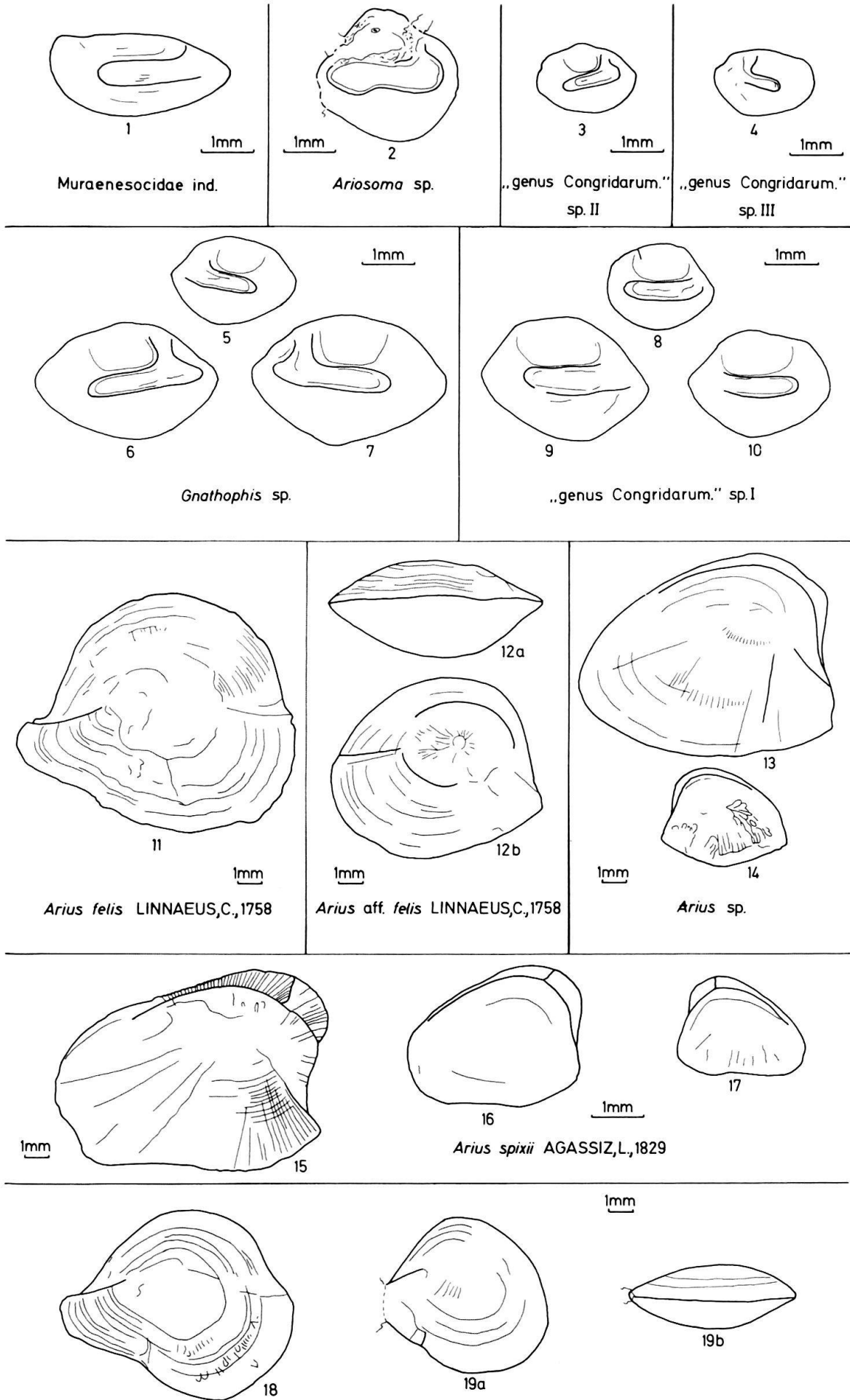
*Ophistonema oglinum*  
(LE SUEUR,C.A.,1817)



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

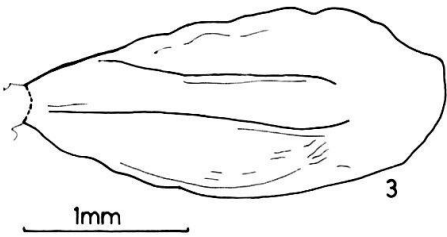
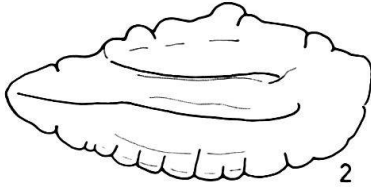
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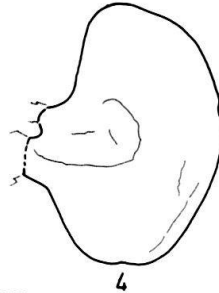


### Planche III

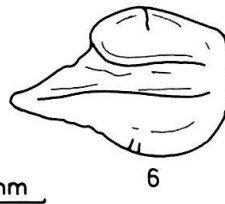
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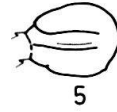
*Saurida aff. caribbaea* BREDER, C.M., 1927



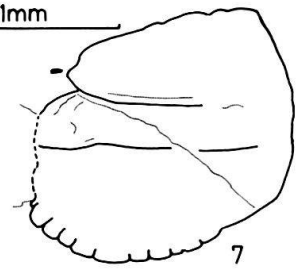
*Polyipnus* sp.



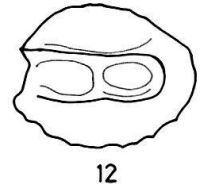
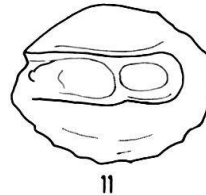
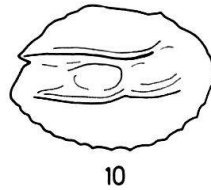
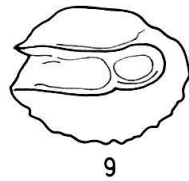
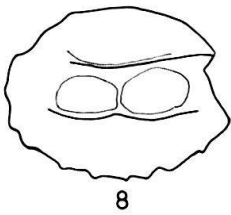
*Yarella blackfordi*  
GOODE, G.B., et BEAN, T.H., 1885



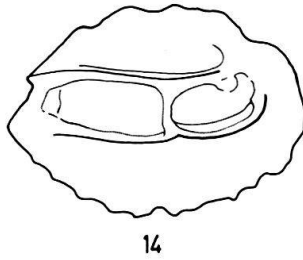
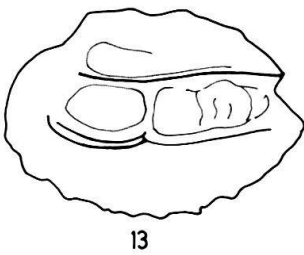
*Polymetme cf. corythaeola*  
(ALCOCK, A.W., 1898)



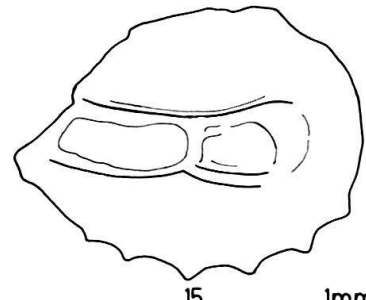
Photichyidae ind.



1mm



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



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



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



*Diaphus* sp. I

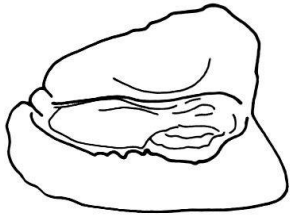


*Diaphus* sp. II



## Planche IV

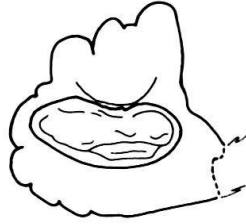
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1

1mm

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



2

*Porichthys* sp.



3



4

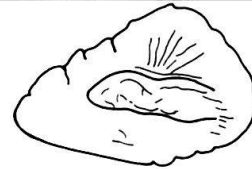
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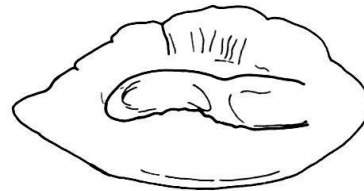
*Perulibatrachus rossignoli*  
(ROUX, C., 1957)



6

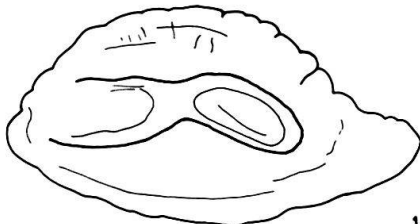
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„genus aff. *Perulibatrachus*.” sp.



8

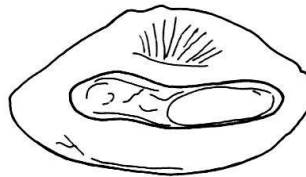
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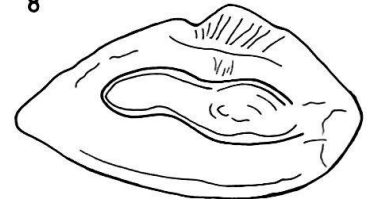
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*Thalassophryne natterei*  
STEINDACHNER, F., 1876

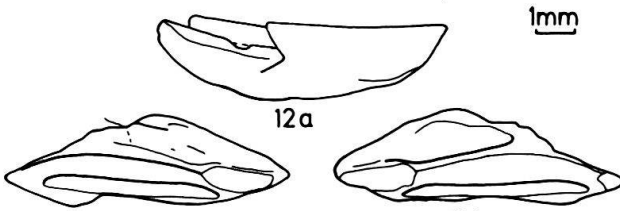


9

*Thalassophryne* sp.



10



11

12a

12b

1mm

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



13a



13b

1mm

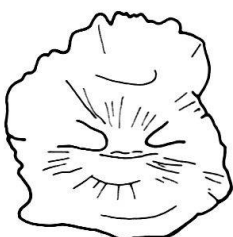
*Gadella* sp.



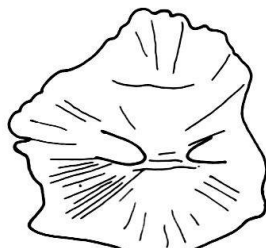
14

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Antennariidae ind.



15



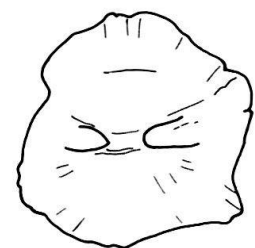
16

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17

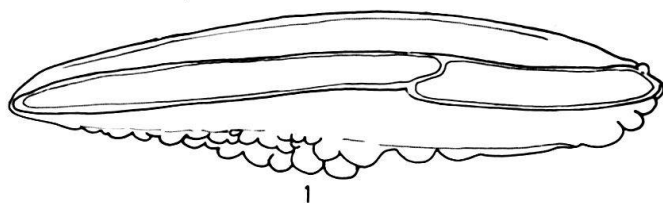
*Breamaceros* sp.



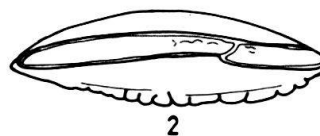
18

## Planche V

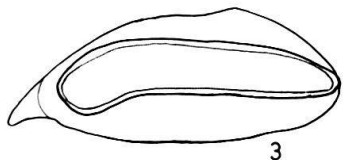
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Fig. 9	<i>Lepophidium</i> sp. II ..... G. I., Formation de Manzanilla, point 22, éch. S. M. 1399. (SA 1484)	724
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Fig. 12	<i>Neobythites</i> sp. .... 12a G. I., Formation de Brasso, point 20, éch. 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



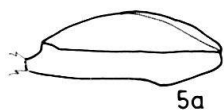
1mm

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



1mm

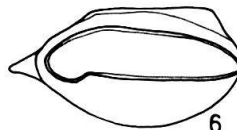
*Lepophidium microlepis*  
GILBERT, C.H., 1890



5a



5b

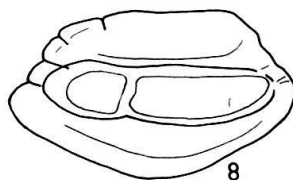


6



7

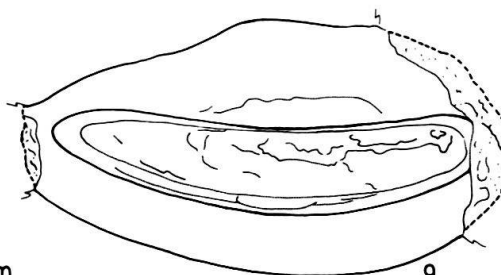
*Lepophidium* sp. I



8

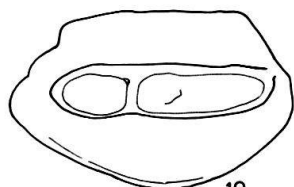
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*Neobythites malayanus* WEBER, M., 1913

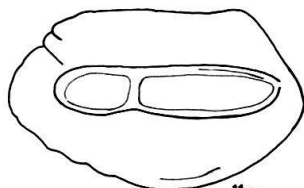


1mm

*Lepophidium* sp. II



10

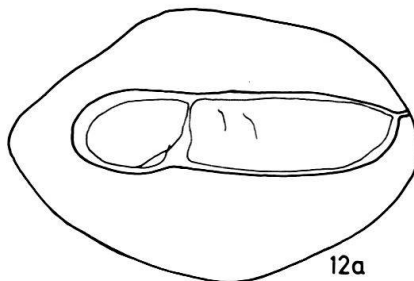


11a

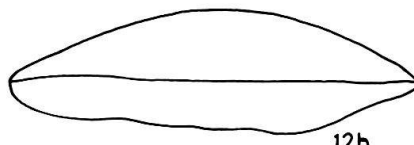


11b

*Neobythites* aff. *malayanus*

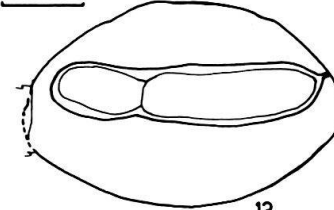


12a



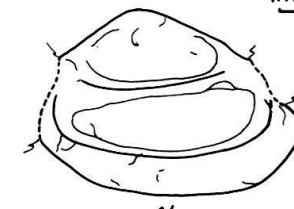
12b

*Neobythites* sp.



13

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

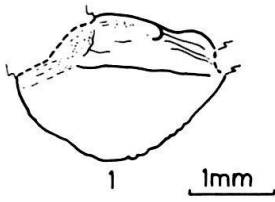


14

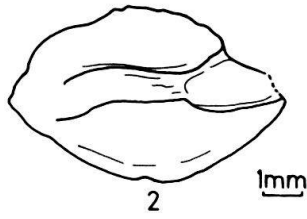
Ophiidiidae ind.

## Planche VI

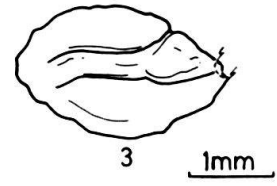
Fig. 1	? <i>Myripristis</i> sp. .... D.I., Formation de Brasso, point 28, éch. K. R. 6666. (SA 1489)	725
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Fig. 3	<i>Neanthias</i> sp. .... G.I., Formation de Brasso, point 20, éch. Cb. 1852. (SA 1490)	726
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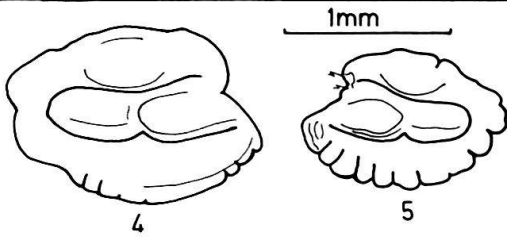
?*Myripristis* sp.



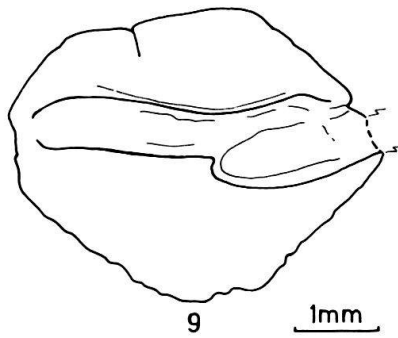
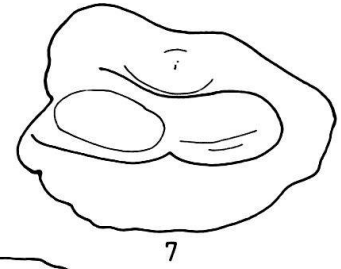
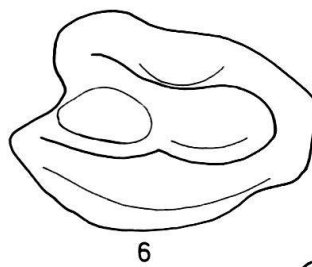
*Neanthias accraensis*  
NORMAN, J.R., 1931



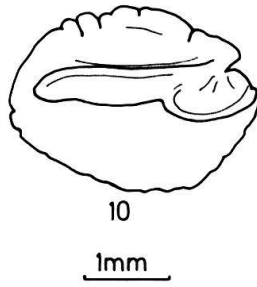
*Neanthias* sp.



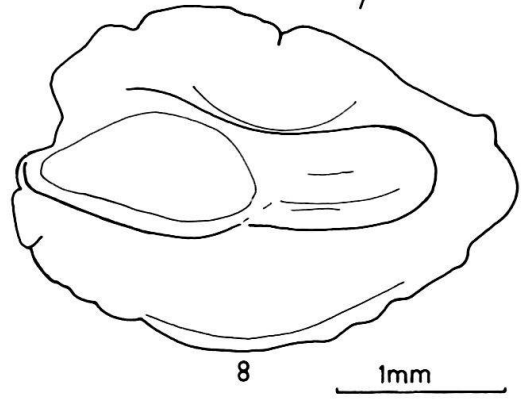
*Apogon* sp. I



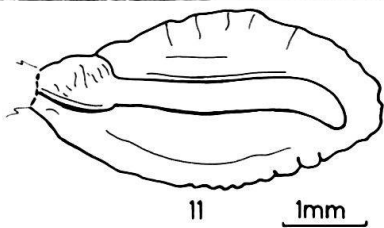
*Epigonus trewasae*  
POLL, M., 1959



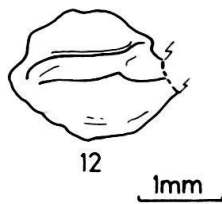
*Epigonus* sp.



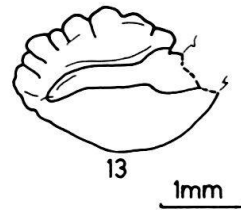
*Apogon* sp. II



Carangidae ind.



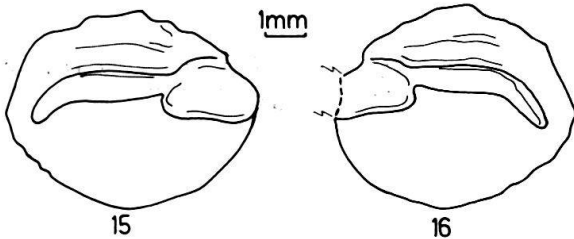
„genus Sparidarum.”  
sp. I



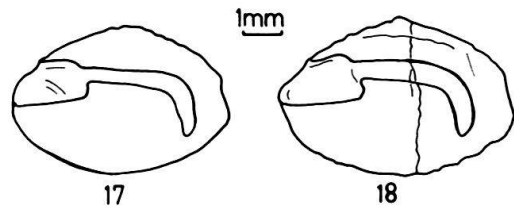
„genus Sparidarum.” sp. II



Mullidae ind.



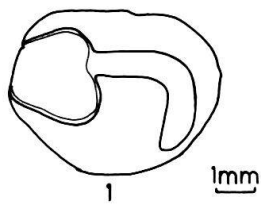
*Pomadasys* sp.



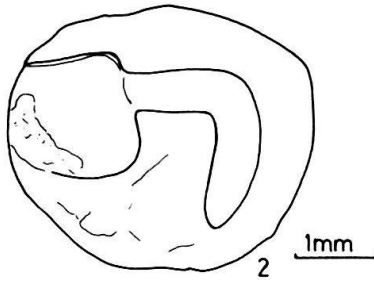
*Haemulon* sp.

## Planche VII

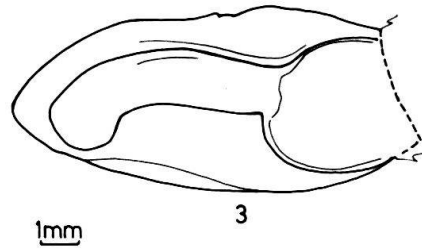
Fig. 1	<i>Ctenosciaena gracilicirrhus</i> METZELAAR, 1919 ..... D.I., actuel, côtes du Brésil. (coll. D. Nolf).	729
Fig. 2	<i>Ctenosciaena aff. gracilicirrhus</i> METZELAAR, 1919 ..... D.I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1505)	729
Fig. 3	<i>Cynoscion</i> sp. .... G.I., Formation 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
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Fig. 6	<i>Isopisthus parvipinnis</i> CUVIER, 1830 ..... G.I., actuel, côtes du Brésil. (coll. D. Nolf).	730
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Fig. 13	<i>Macrodon</i> sp. .... G.I., Formation de Manzanilla, point 24, éch. K. 9833. (SA 1511)	731



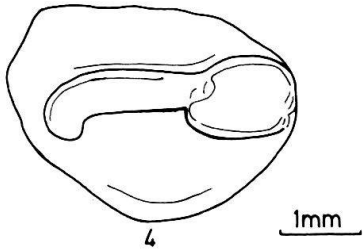
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*Ctenosciaena gracilicirrhus*  
METZELAAR, J., 1919



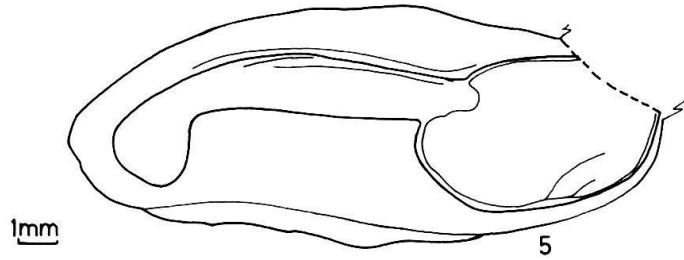
2  
*Ctenosciaena aff. gracilicirrhus*  
METZELAAR, J., 1919



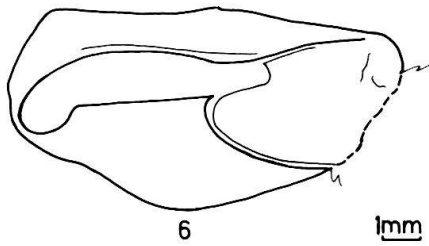
3  
*Cynoscion* sp.



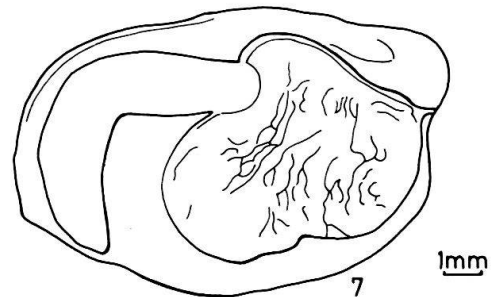
4  
*Isopisthus* sp.



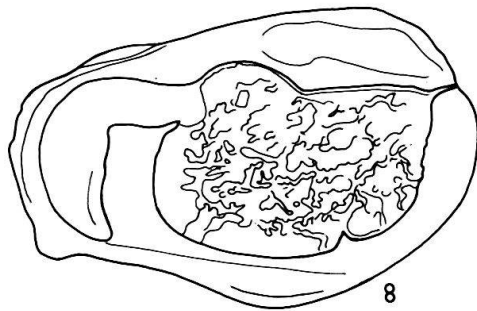
5  
*Cynoscion arenarius* GINSBURG, I., 1929



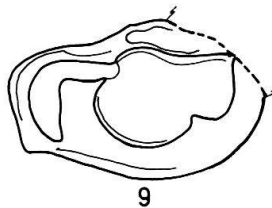
6  
*Isopisthus parvipinnis* (CUVIER, G., 1830)



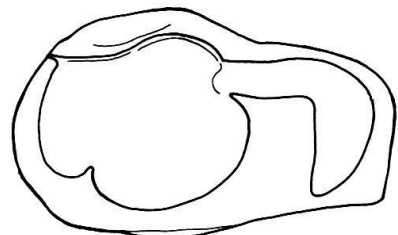
7  
*Larimus fasciatus* HOLBROOK, J.E., 1855



8  
*Larimus breviceps* CUVIER, G., 1830

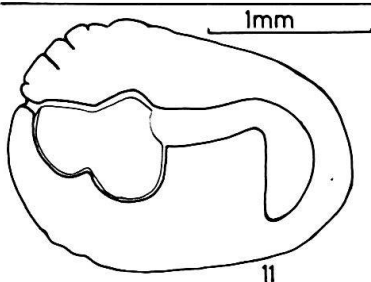


9

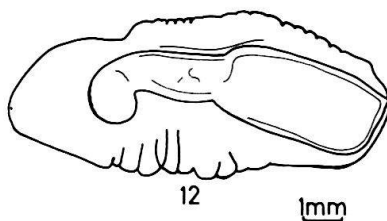


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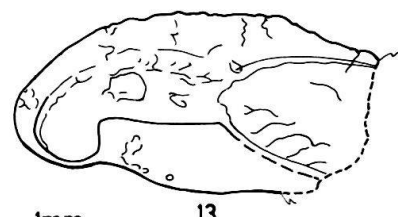
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11  
*Larimus* sp.



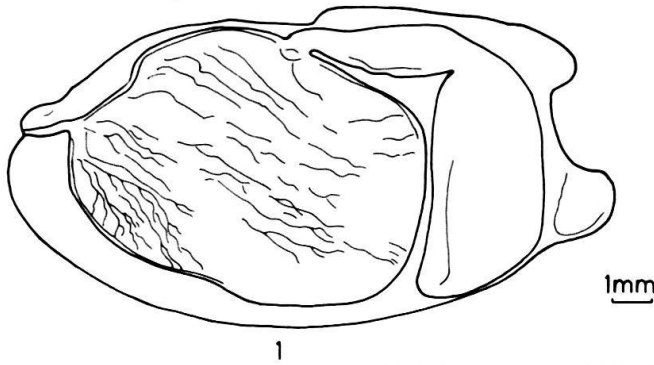
12  
*Macrodon ancylodon*  
(SCHNEIDER, J.G., 1801)



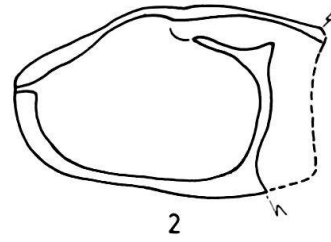
13  
*Macrodon* sp.

## Planche VIII

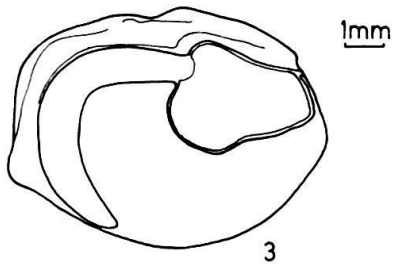
Fig. 1-2	<i>Nebris microps</i> CUVIER, 1838 ..... 1 actuel, côtes du Vénézuéla. (coll. D. Nolf). 2 Formation de Tamana, ou base de la Formation de Manzanilla, point 3, éch. Cb. 2076. (SA 1512)	732
Fig. 3	<i>Pachypops fourcroi</i> (LACEPEDE, 1802) ..... actuel, Brésil. (coll. D. Nolf).	732
Fig. 4-5	«genus 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
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Fig. 7	<i>Plagioscion</i> sp. .... D. I., Formation de Gros Morne, point 19, éch. K. 12059. (SA 1515)	733
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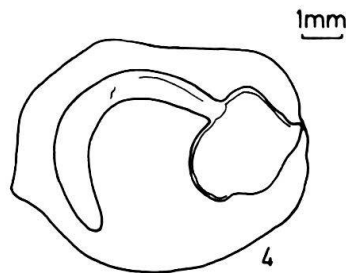
1  
*Nebris microps* CUVIER, G., 1830



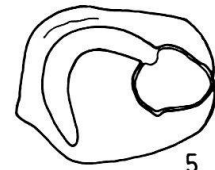
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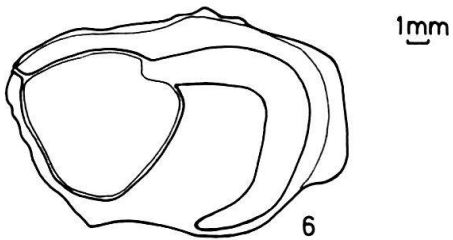
3  
*Pachypops fourcroi*  
(LACEPEDE, B., 1802)



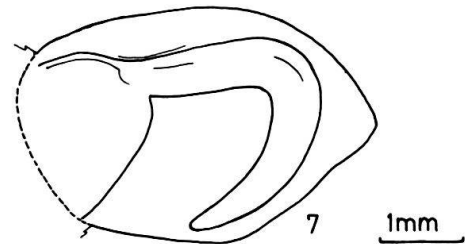
4  
„genus aff. *Pachypops*” sp.



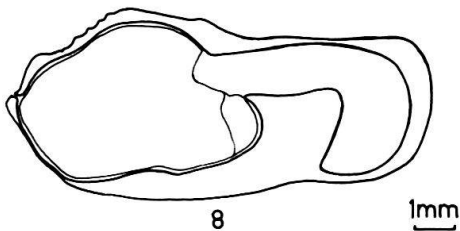
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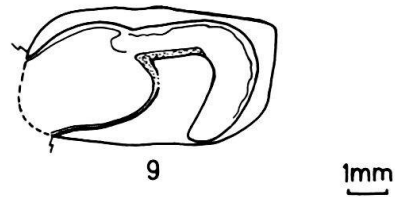
6  
*Plagioscion squamosissimus*  
HECKEL, J.J., 1840



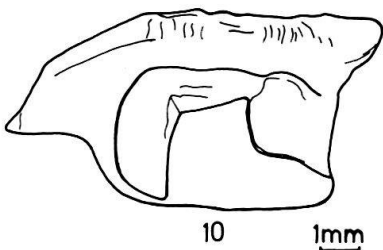
7  
*Plagioscion* sp.



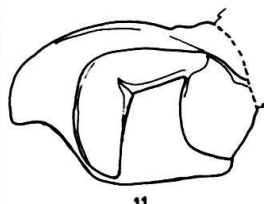
8  
*Polyclemus brasiliensis*  
(STEINDACHNER, F., 1875)



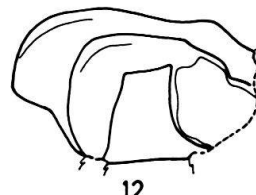
9  
*Polyclemus* sp.



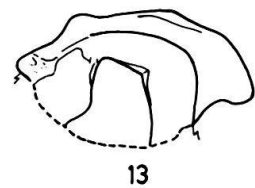
10  
*Sigmurus vermicularis*  
(GÜNTHER, A., 1868)



11



12

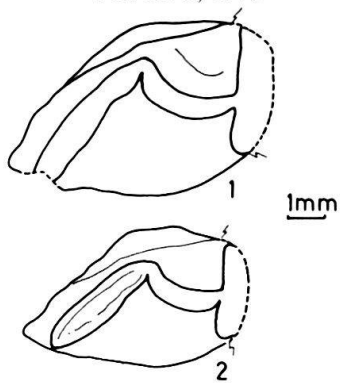


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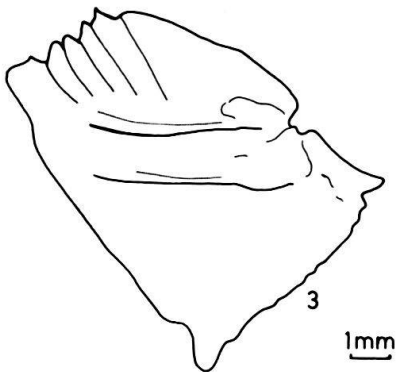
*Sigmurus* sp.

## Planche IX

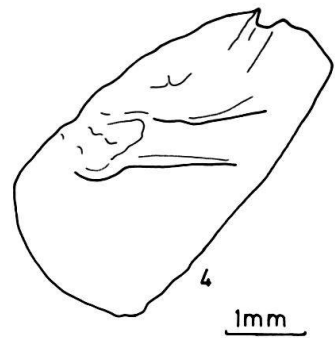
Fig. 1-2	«genus Sciaenidarum» sp. .... 1 G.I., Formation de Manzanilla, point 25, éch. Cb. 1633. (SA 1520) 2 G.I., Formation de Manzanilla, point 25, éch. Cb. 1633. (SA 1521)	734
Fig. 3	<i>Bathyclupea hoskynii</i> ALCOCK, 1891 ..... G.I., actuel, Golfe d'Aden. (coll. D. Nolf).	735
Fig. 4	<i>Bathyclupea</i> sp. .... D.I., Formation de Nariva, point 17, éch. K. R. 25953. (SA 1522)	735
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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
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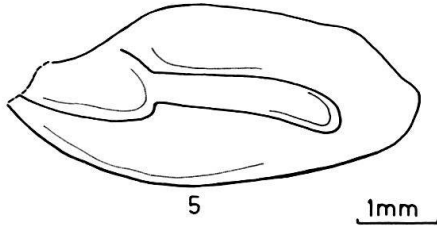
„genus Sciaenidarum.” sp.



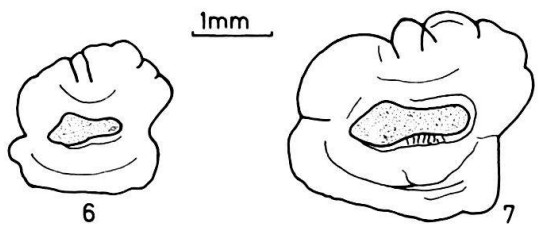
*Bathyclupea hoskynii* ALCOCK, A.W., 1891



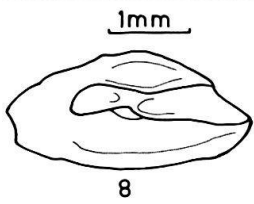
*Bathyclupea* sp.



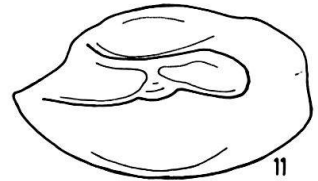
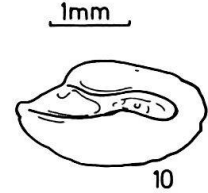
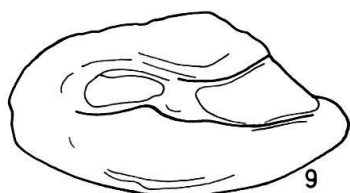
„genus Percoideorum.” sp.



Gobiidae



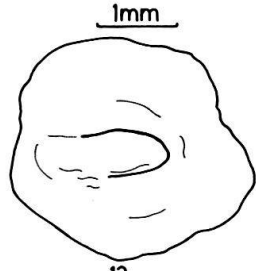
*Opistognathus aurifrons*  
JORDAN, D.S., et THOMPSON,  
J.C., 1905



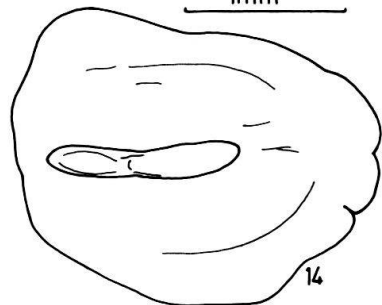
*Lonchistium* sp.



*Citharichthys* sp.



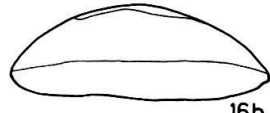
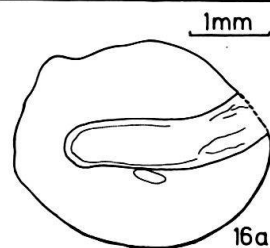
*Citharichthys stygmaeus*  
JORDAN, D.S., et GILBERT,  
C.H., 1882



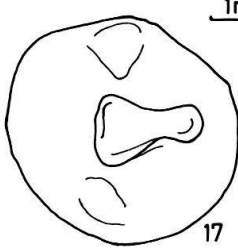
„genus Pleuronectiformorum.” sp. I



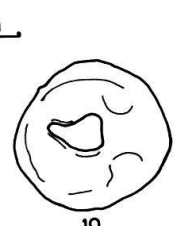
„genus Pleuronecti-  
formorum.” sp. II



„genus Soleidarum.” sp.



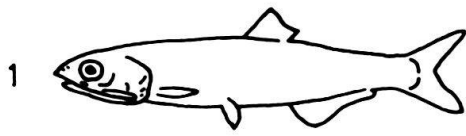
*Symphurus* sp.



*Symphurus nigrescens* RAFINESQUE, C., 1810

## Planches X-XII

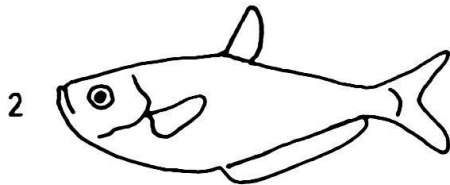
Aspect général des familles de Téléostéens (telles que déterminées d'après leurs otolithes) du Néogène de Trinidad. Dessins d'après GREENWOOD, ROSEN, WEITZMAN & MYERS (1966).



**Engraulidae**



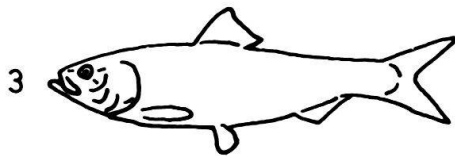
**Ariidae**



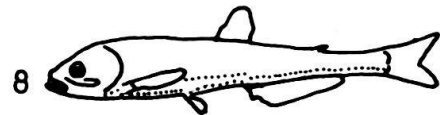
**Perigasteridae**



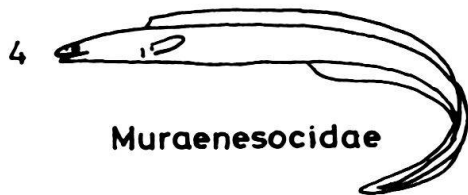
**Sternoptychidae**



**Clupeidae**



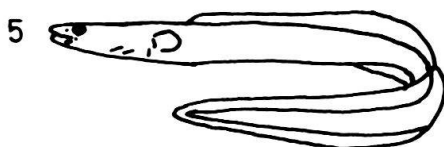
**Photichthyidae**



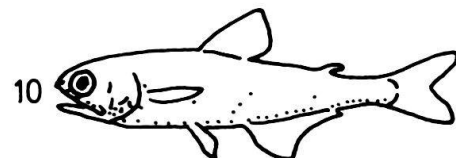
**Muraenesocidae**



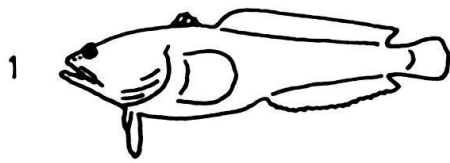
**Synodontidae**



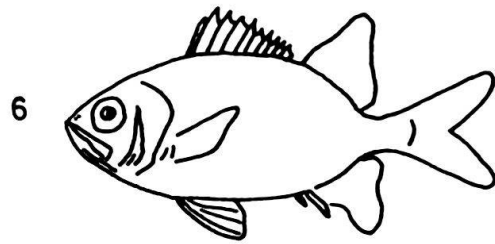
**Congridae**



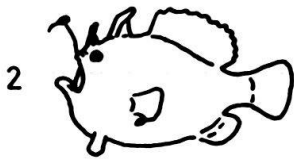
**Myctophidae**



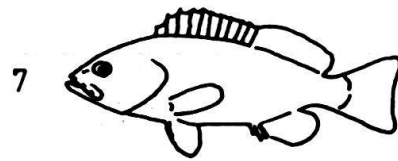
**Batrachoididae**



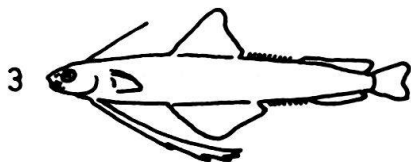
**Myripristidae**



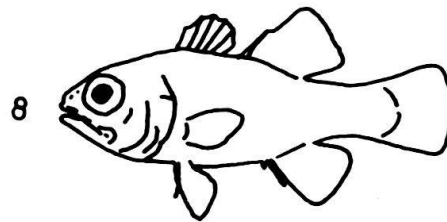
**Antennariidae**



**Serranidae**



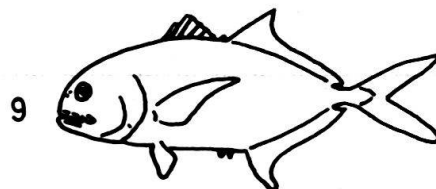
**Bregmacerotidae**



**Apogonidae**



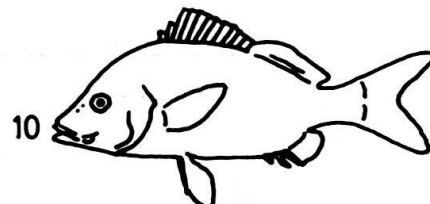
**Eretmophoridae**



**Carangidae**



**Ophidiidae**



**Pomadasyidae**

