









Garde

DIVISION OF FISHES

597.  
Saba  
Fish

HISTOIRE  
PHYSIQUE, NATURELLE ET POLITIQUE

DE

MADAGASCAR

PUBLIÉE

PAR ALFRED GRANDIDIER.

VOLUME XVI.

HISTOIRE NATURELLE DES POISSONS

PAR

M. H. SAUVAGE.

2<sup>e</sup> PARTIE. — ATLAS. — I.

17<sup>e</sup> fascicule.



PARIS.

IMPRIMÉ, PAR AUTORISATION DE M. LE GARDE DES SCEAUX,

À L'IMPRIMERIE NATIONALE.

M DCCC LXXXVII.

IMPRIMERIE NATIONALE



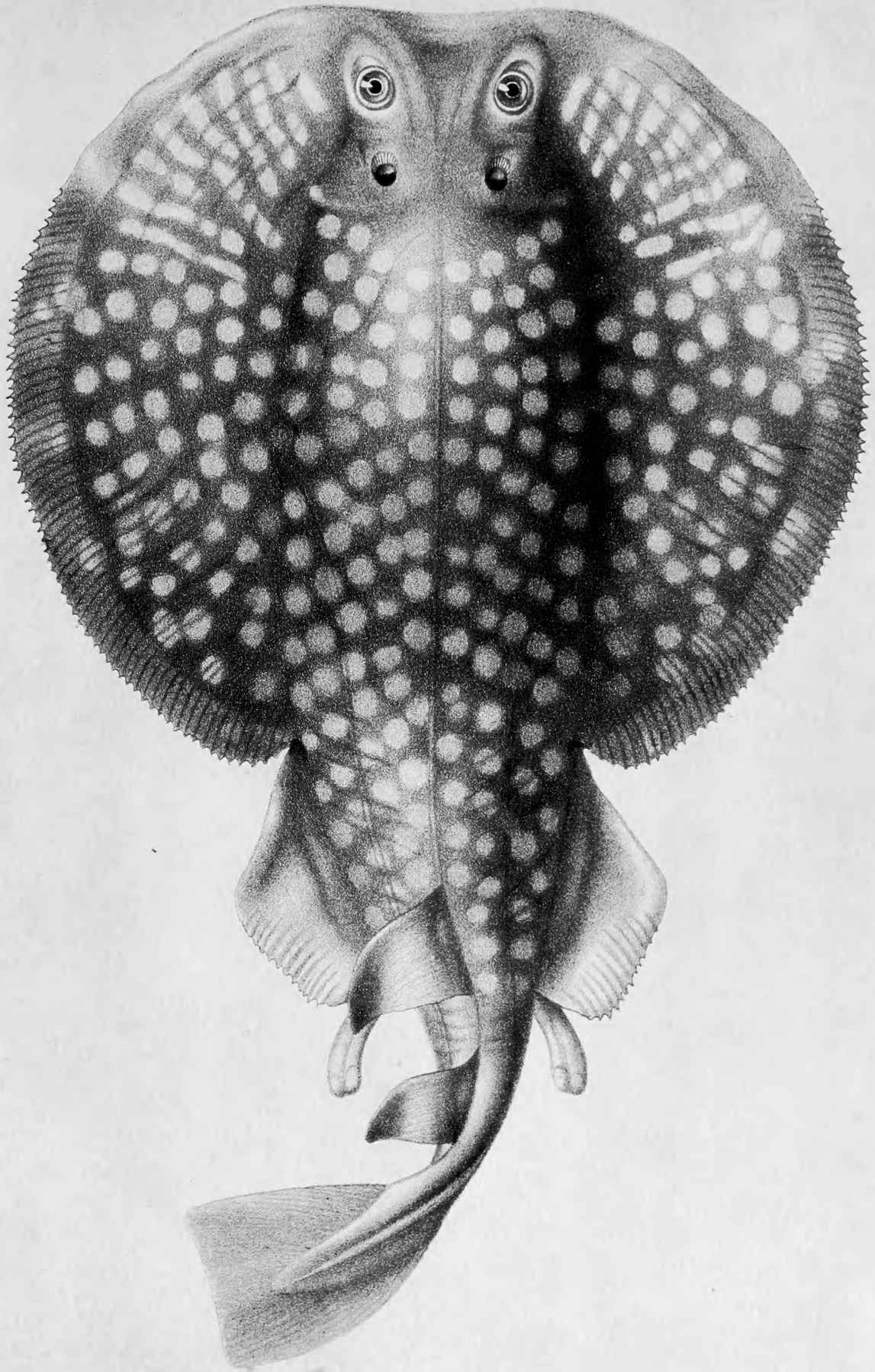


Madagascar.

2

488  
at. all

Poissons. Pl. 1.



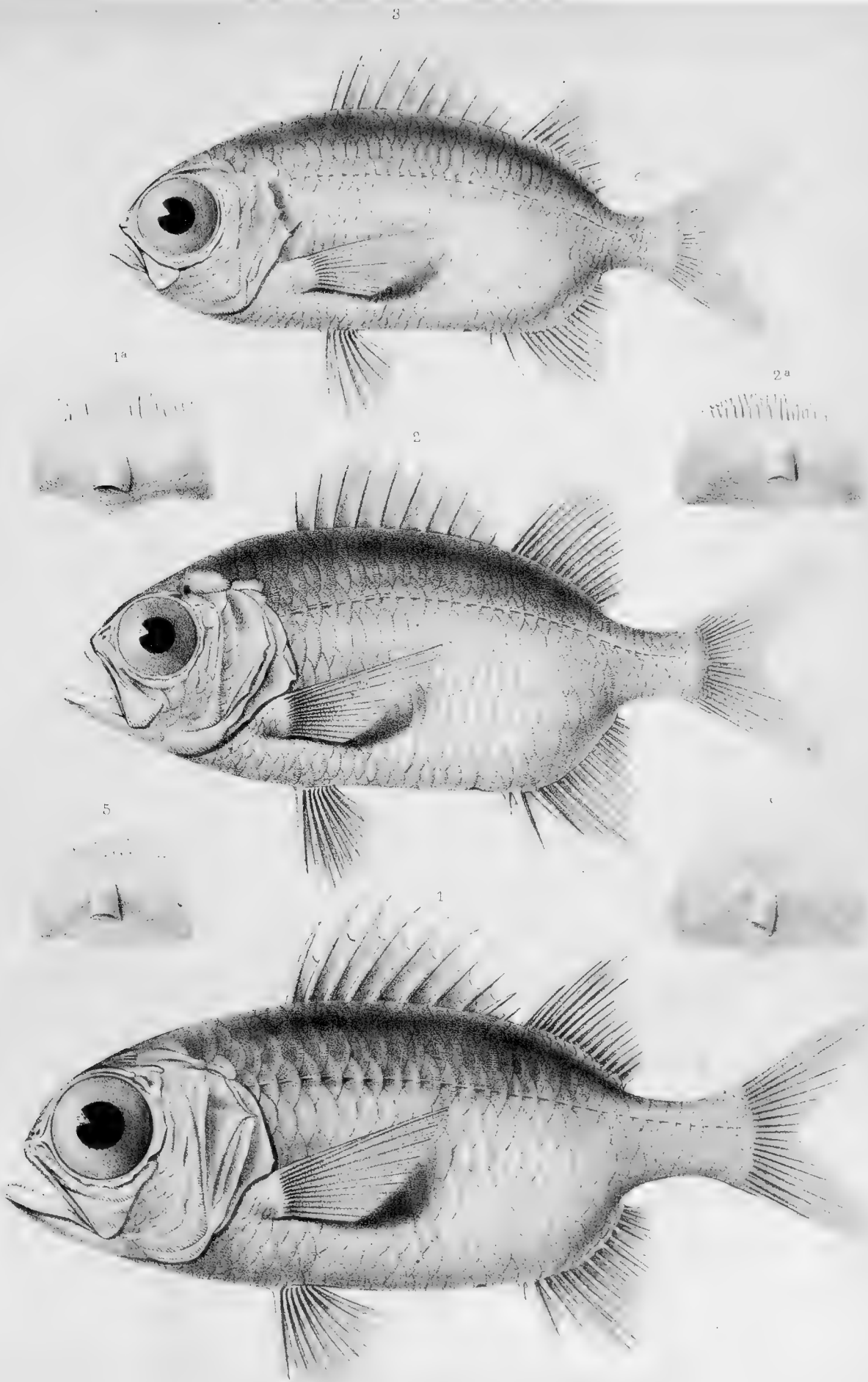
Maubert ad nat. lith.

Imp. Lecquet fr. Paris.

*Torpedo sinus-Persici.*







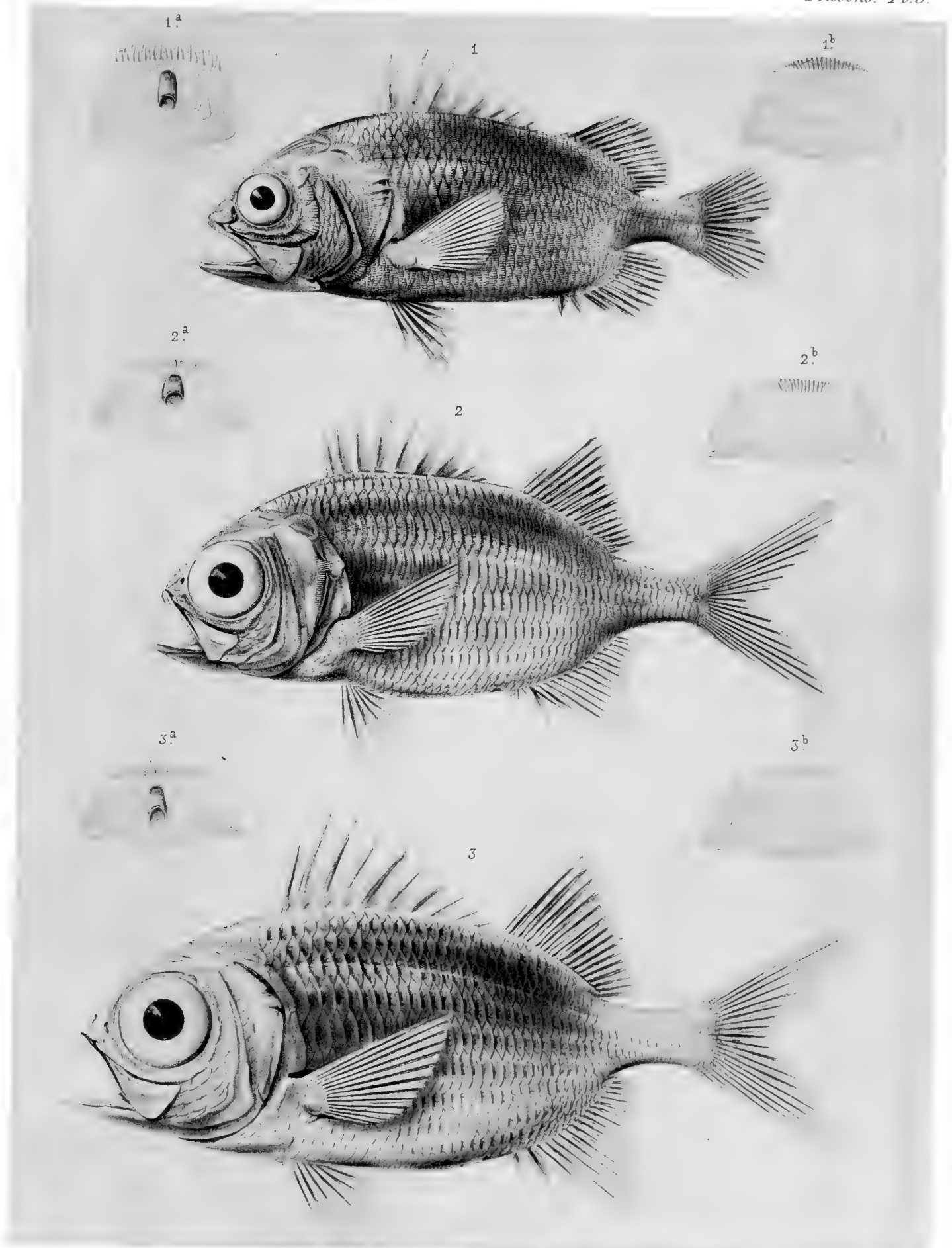
*Arnoul ad.nat lith*

*Imp. Bouché et Paris*

1. *Myripristis Seychellensis*. — 2. *M. pralinus*. — 3. *M. axillaris*. — 4. *M. murdjan*.  
 5. *Holocentrum diadema*. — 6. *H. leo*.





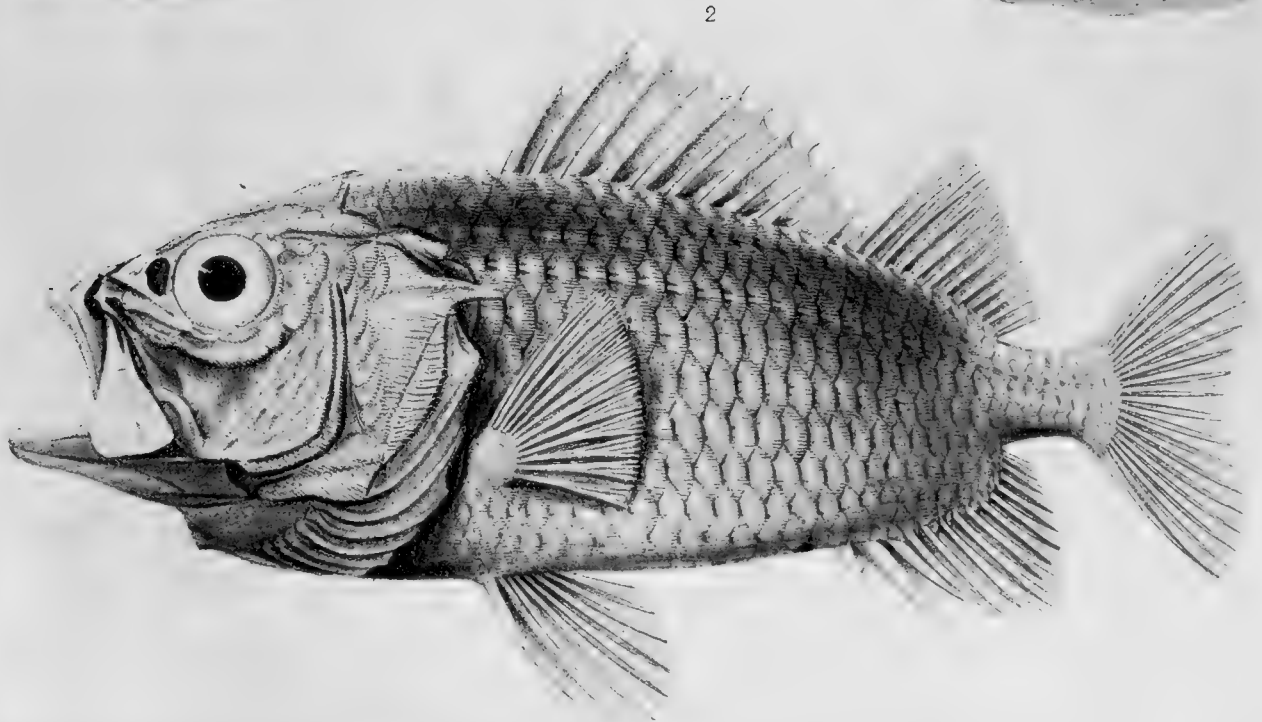
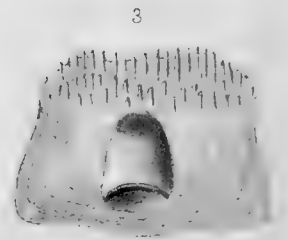
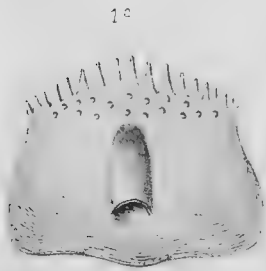
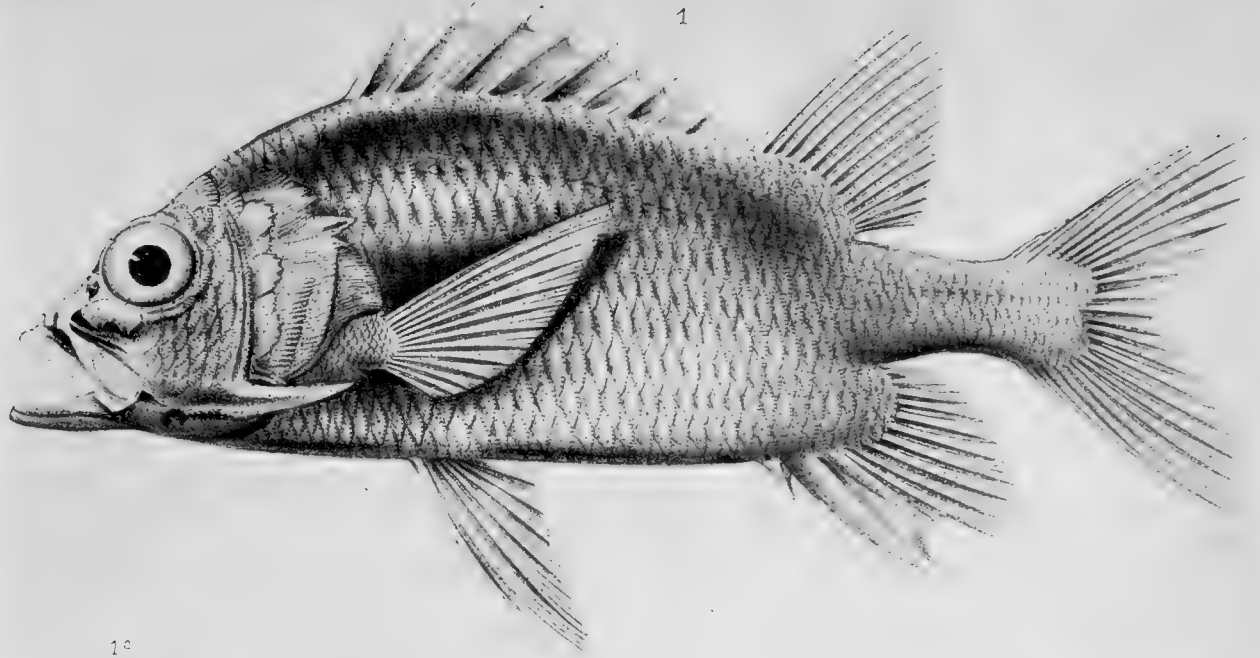


Karmanski ad nat. lith.

Imp. Lecquet fr. Paris

1. *Holotrachys lima*.—2. *Myripristis borbonicus*.—3. *M. kuntzei*.





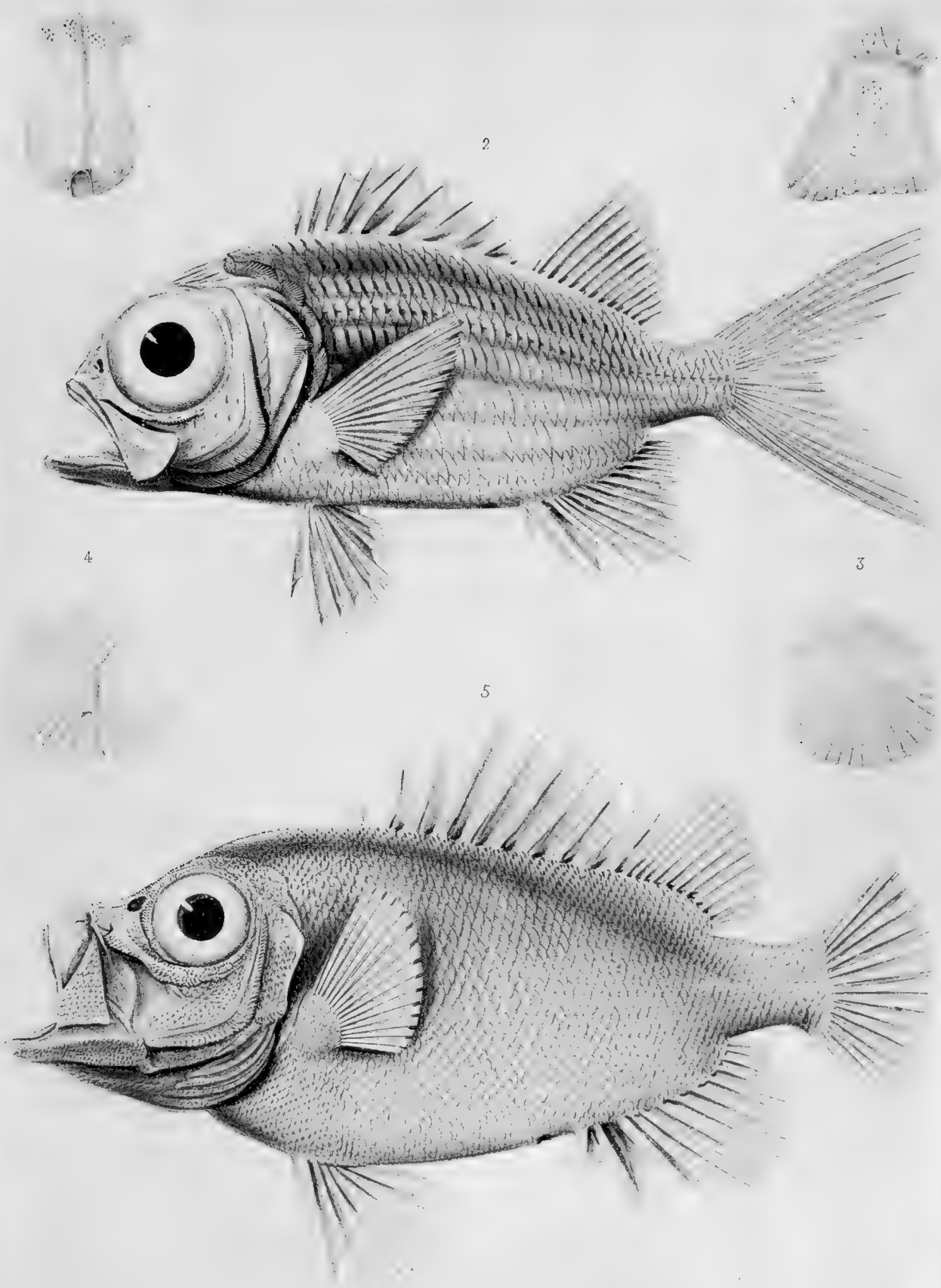
Karmanski ad nat. lith.

Imp. Buquet fr. Paris

1. *Holocentrum spiniferum*. — 2. *Holotrachys archiepiscopus*. — 3. *Beryx lineatus*.







Karmanke ad nat. lith.

Inp. Esquet fr. Paris

1. *Aulacoccephalus Schlegeli*. — 2. *Myripristis vittatus*. — 3. *Aprion cirrescens*.  
4. *Apsilus fuscus*. — 5. *Priacanthus refulgens*.

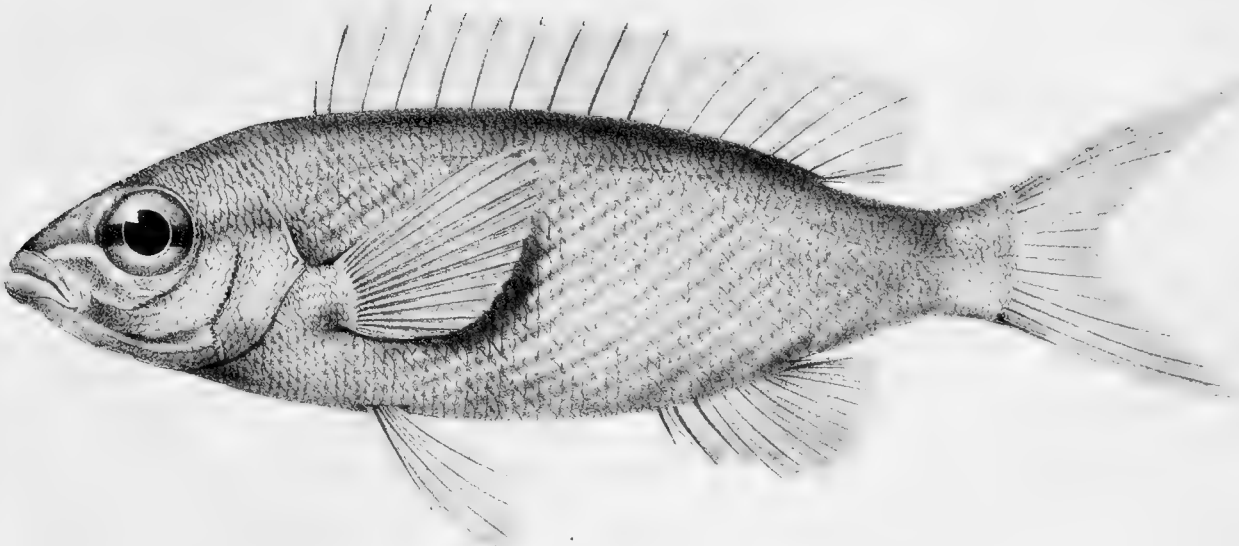




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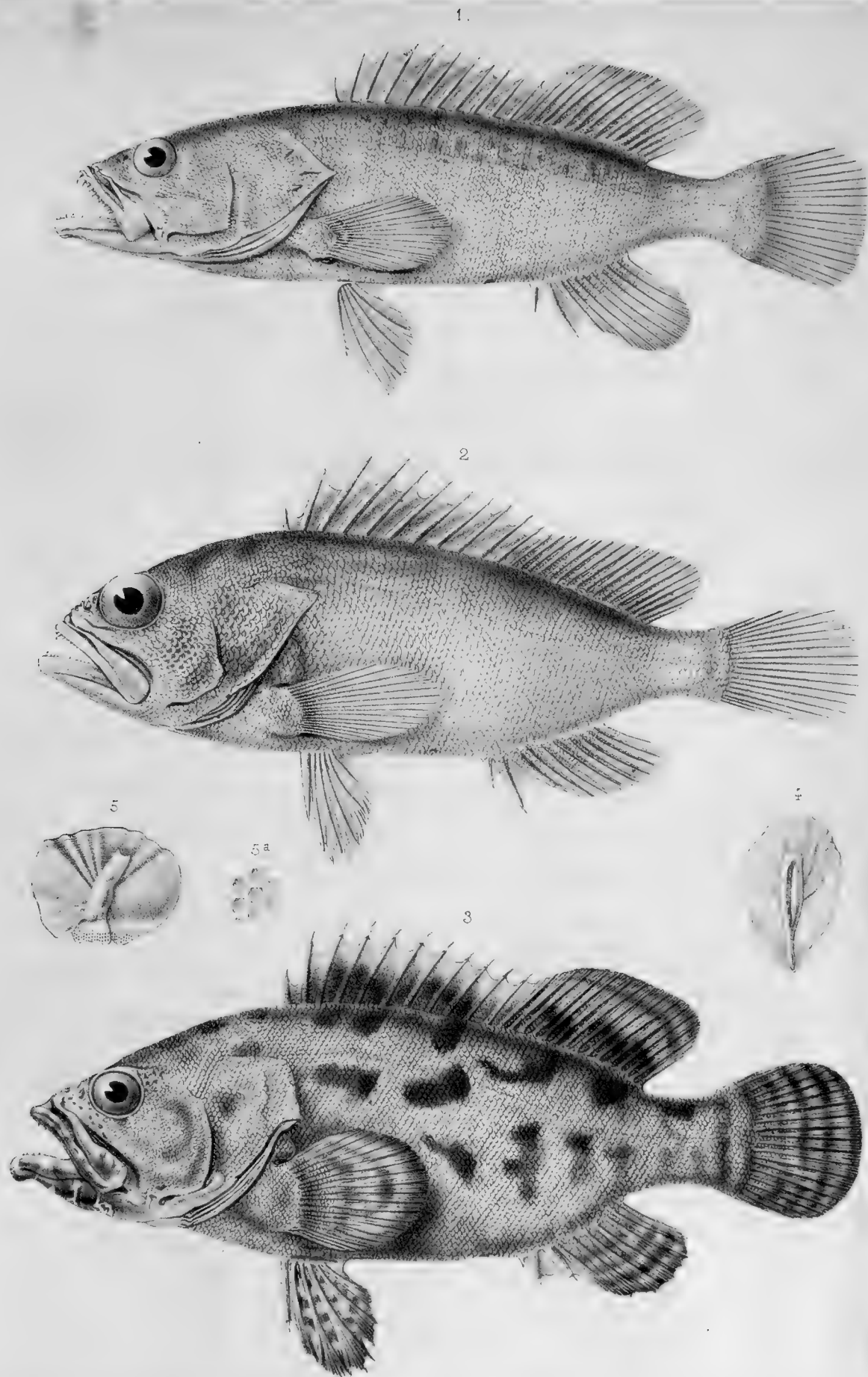
3



1. *Cæzio cylindricus*. — 2. *Scolopsis pluvops*. — 3. *Holocentrum macropus*.







Jobin, pinx<sup>t</sup>

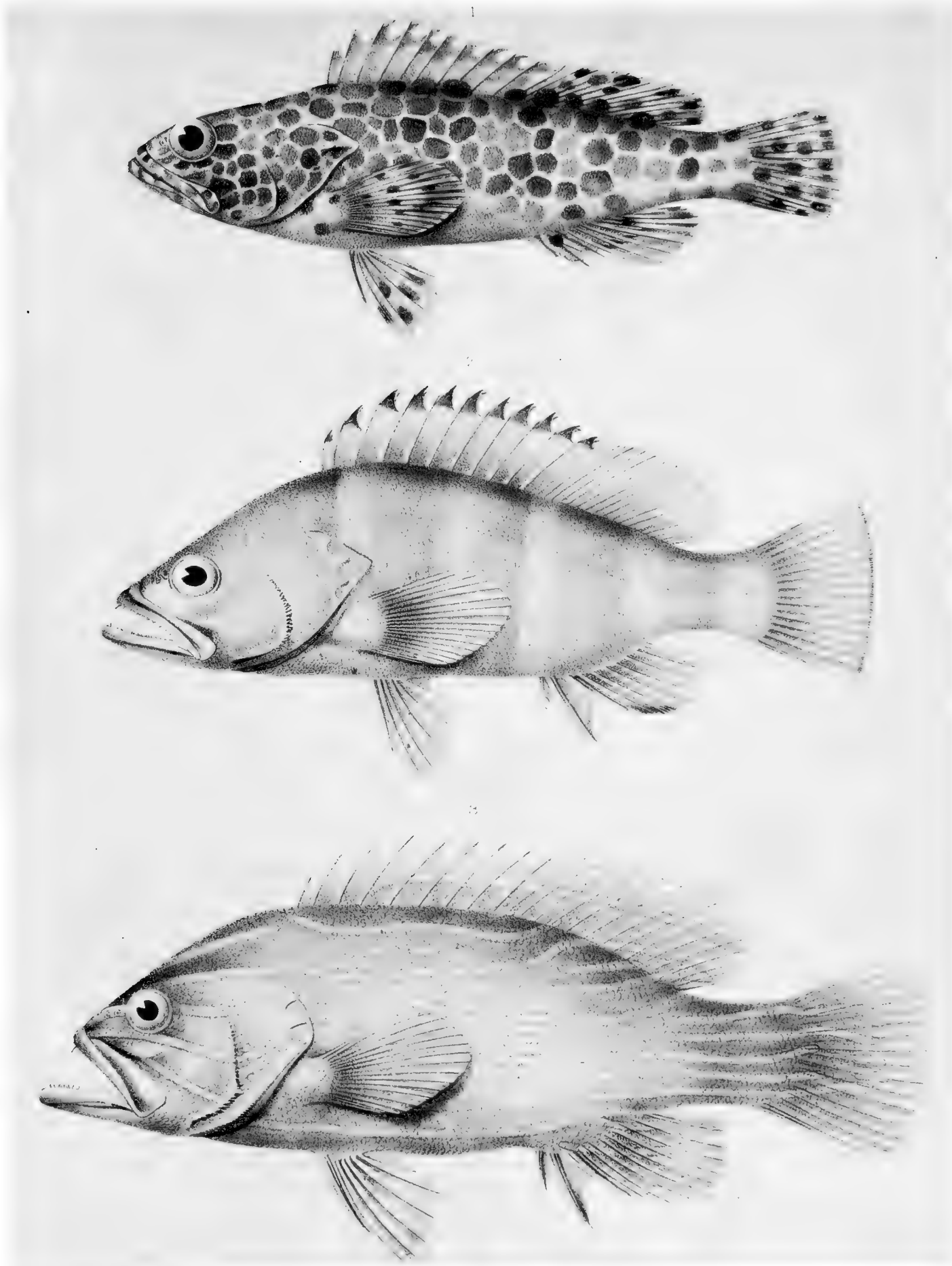
Imp. Baquet fr. Paris

Arnoul, lith.

1. *Epinephelus morrhua*. — 2. *E. riculatus*. — 3. *E. lutra*. — 4. *Anyperodon leucogrammicum*. — 5. *Synagris tolu*





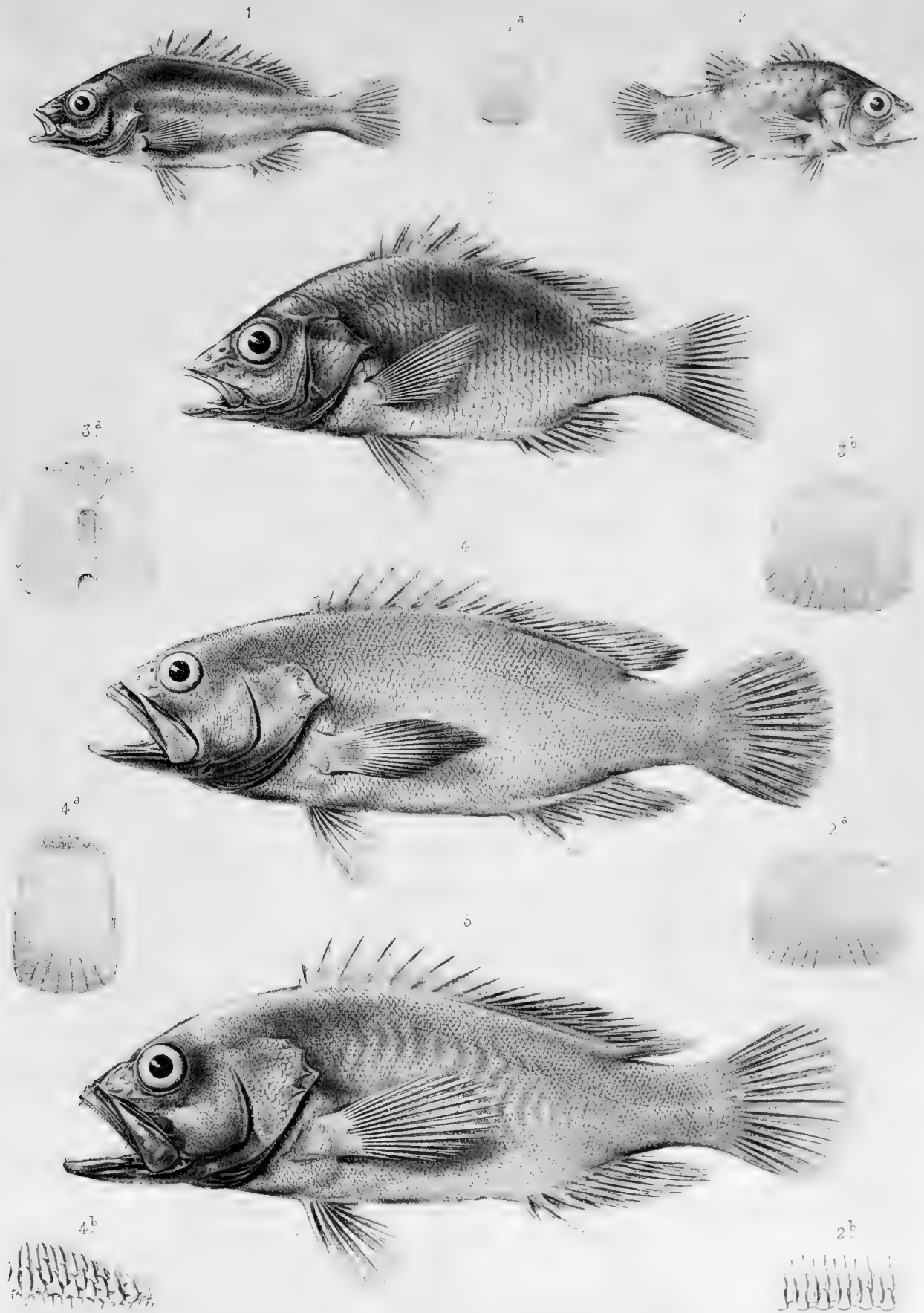


Kamanski adnat lith

Imp. Bissquet & Paris

1. *Epinephelus cylindricus*. — 2. *E. Retouti*. — 3. *E. Polleni*.





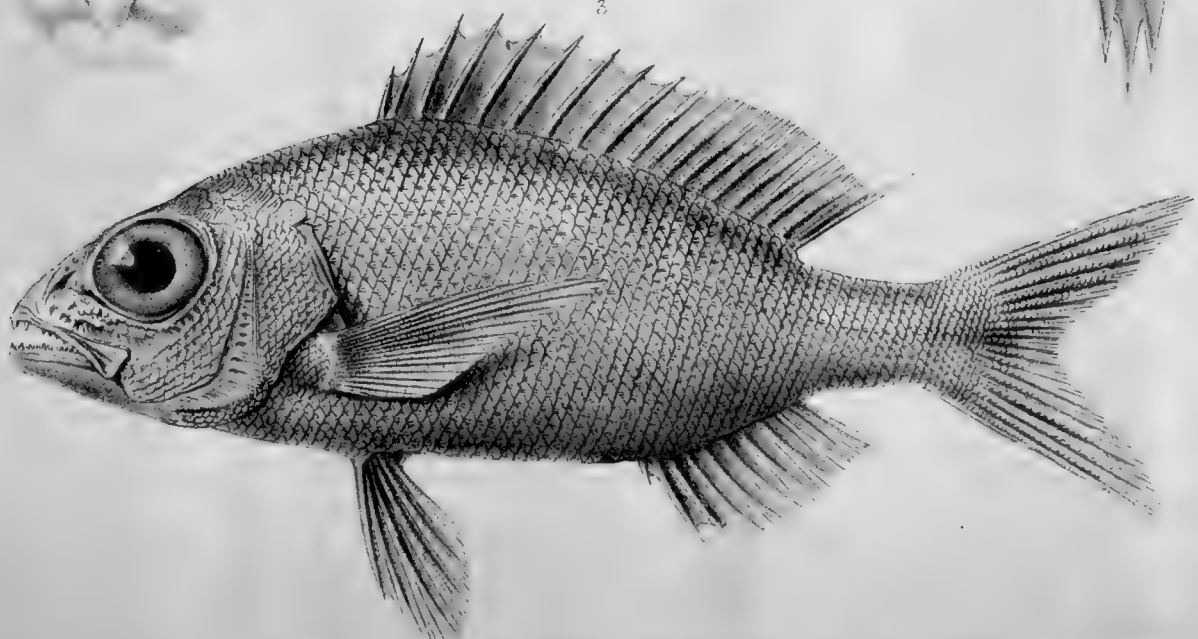
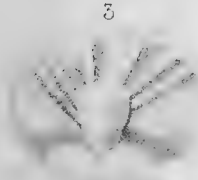
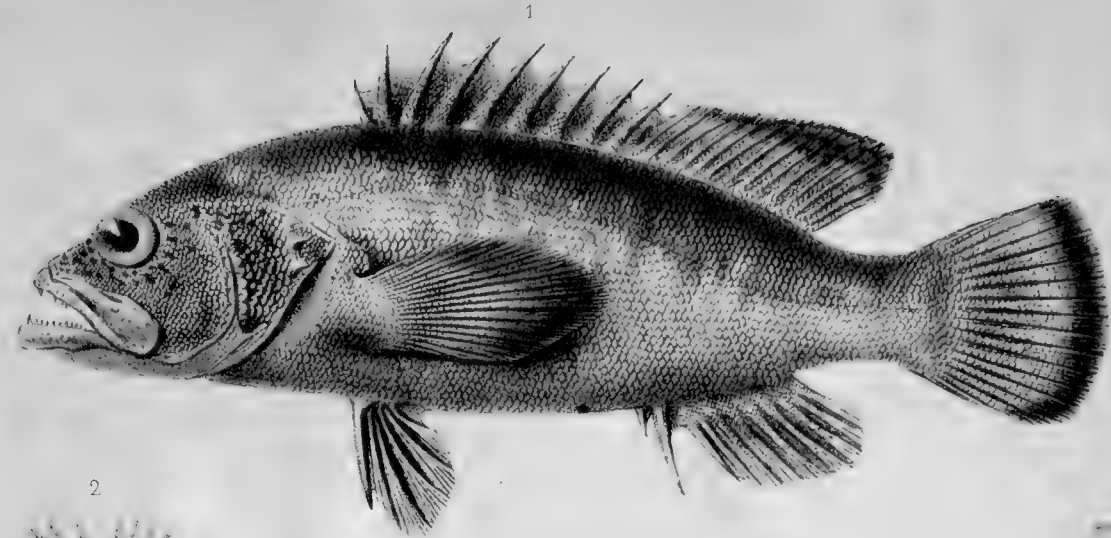
Karmanski ad nat. lith.

Imp. Euguet fr. Paris

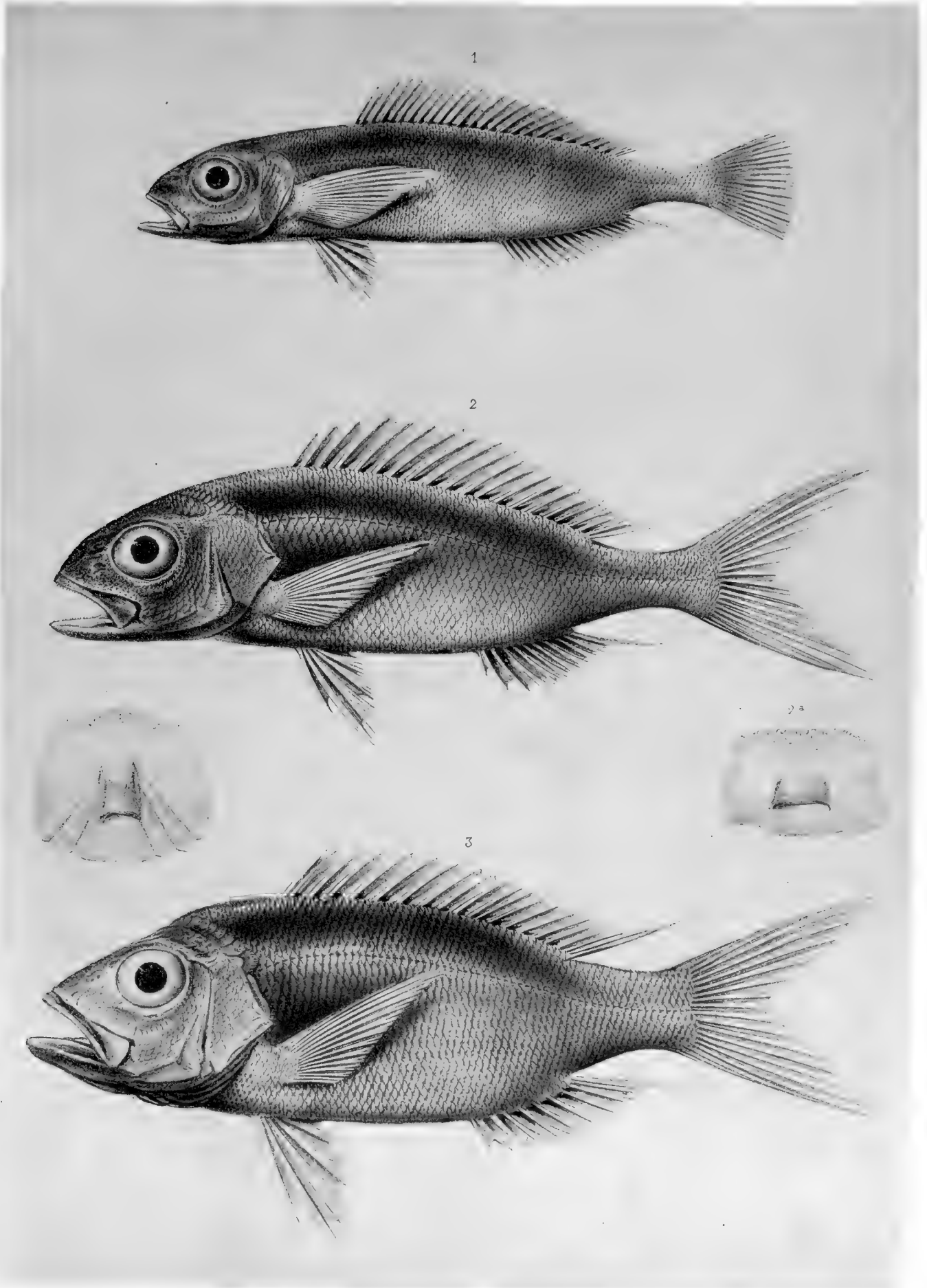
1. *Therapon elongatus*. — 2. *Apogon variegatus*. — 3. *Lutjanus griseoides*.  
 4. *Epinephelus nigripinnis*. — 5. *E. aurantius*.











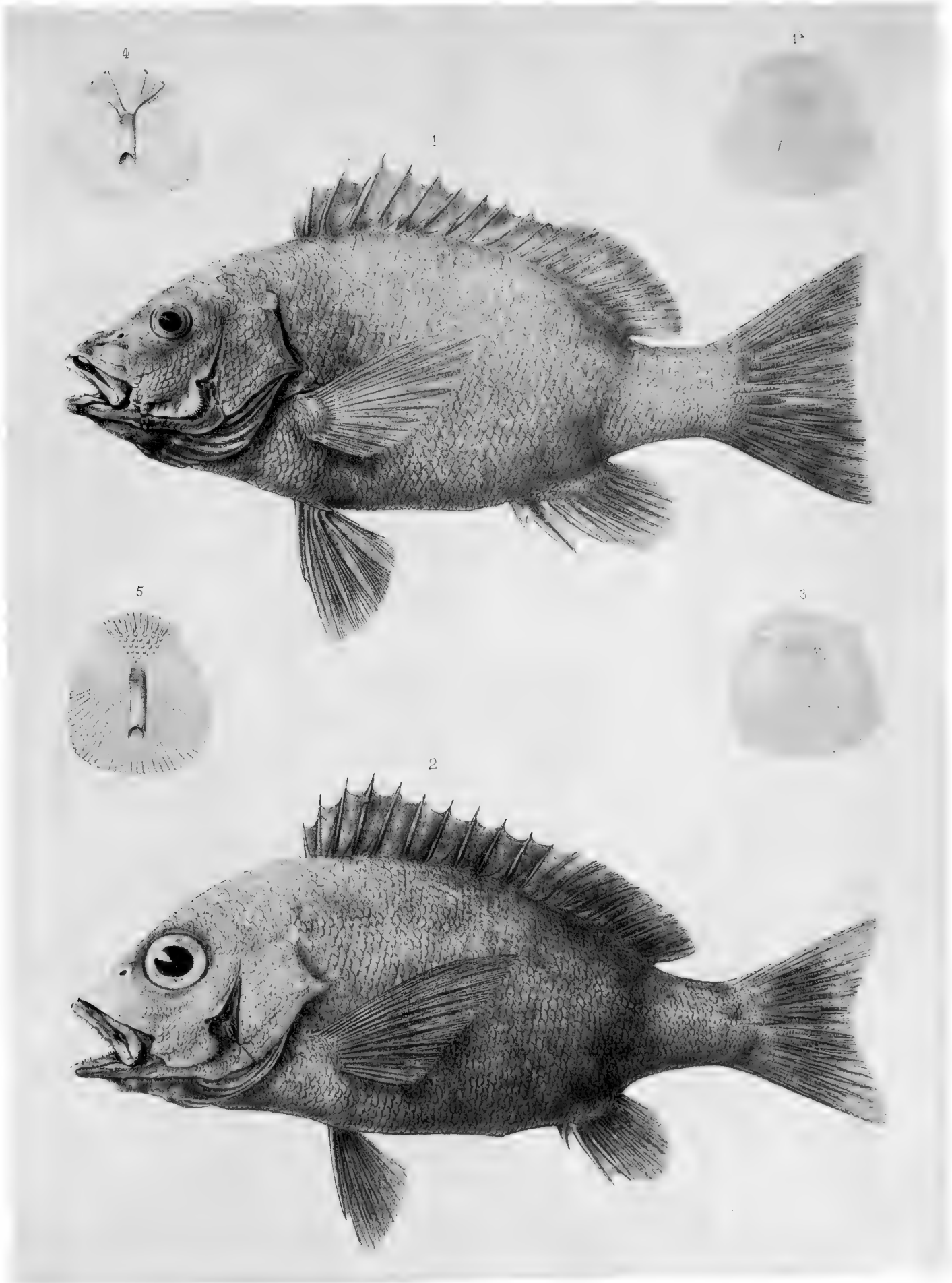
Karmanski ad nat. lith

Imo. Buzout fr Paris

1. *Glyphodes aprionoides*. — 2. *Etelis filamentosus*. — 3. *E. zonatus*.



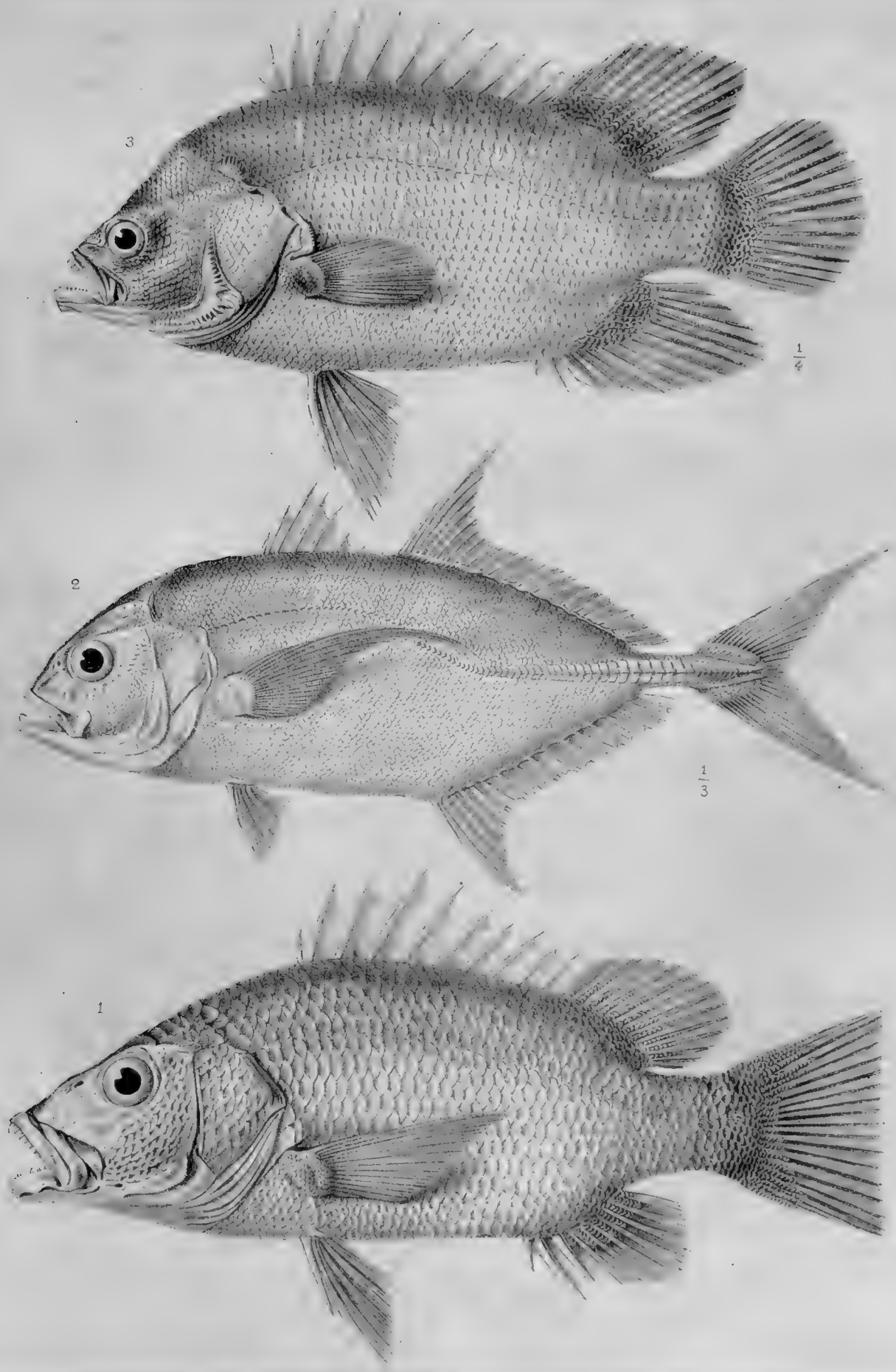




*Dupolle ad nat lth*

1. *Diacope Calcei*. — 2. *D. caruleo vittata*. — 3. *D. marginata*. — 4. *Lutjanus madras*. — 5. *L. yapilli*.





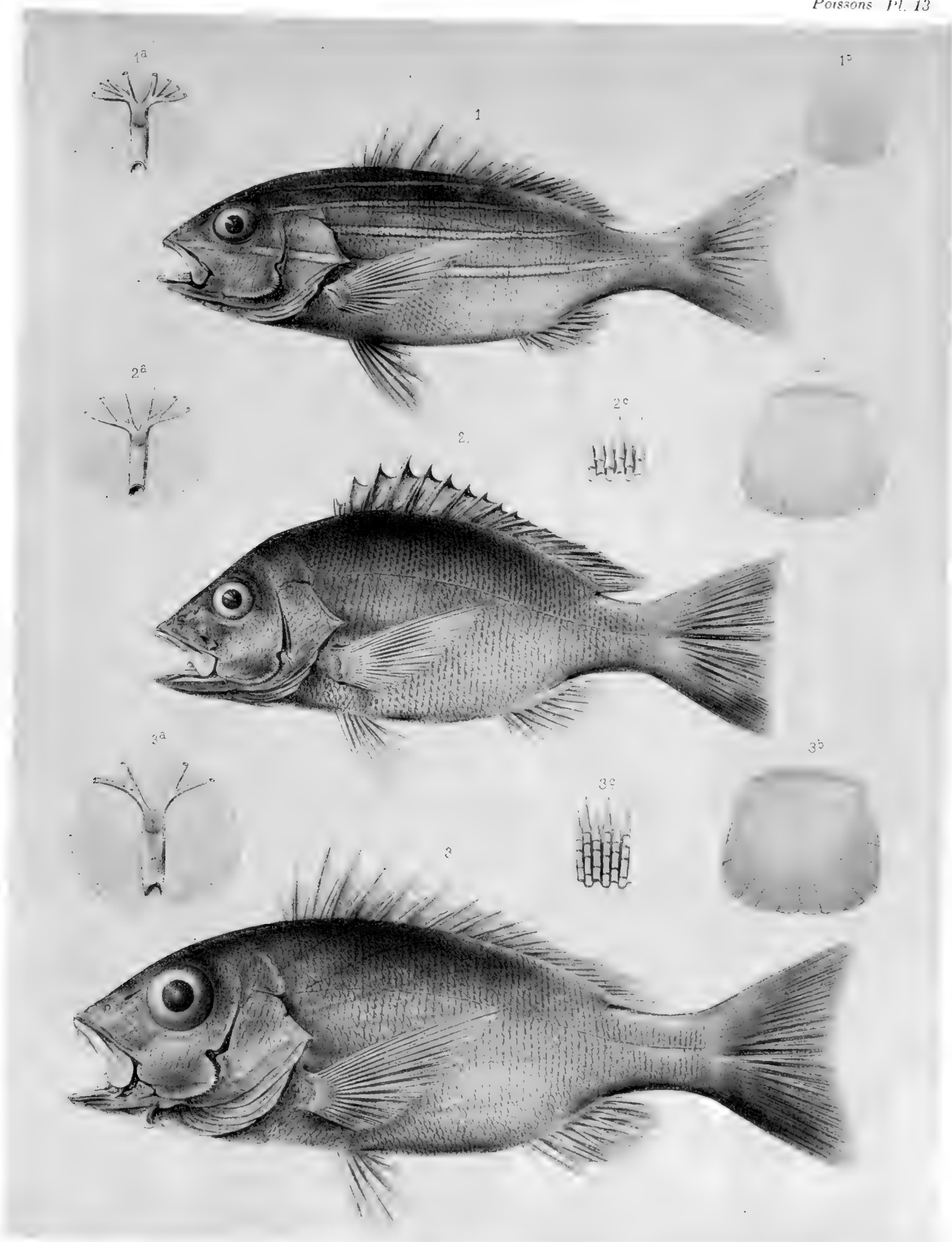
Del. Sci.

Imp. Lequet jr. Paris

Arnoul del.

1. *Lutjanus argentimaculatus*. — 2. *Caranx hippos*. — 3. *Loboletes surinamensis*.





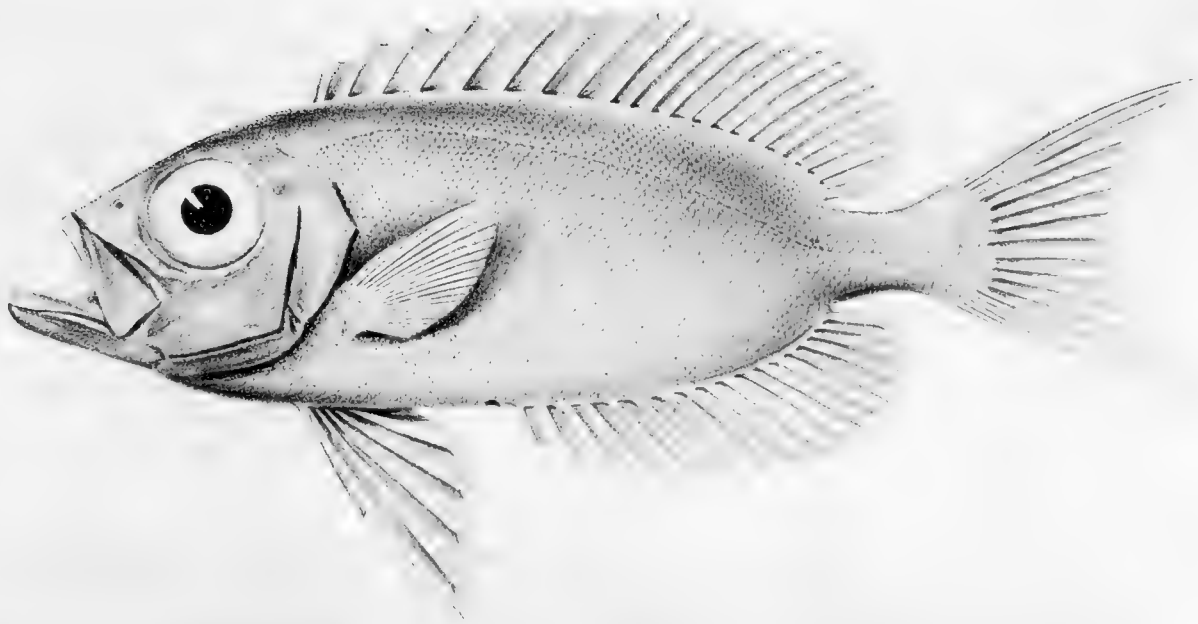
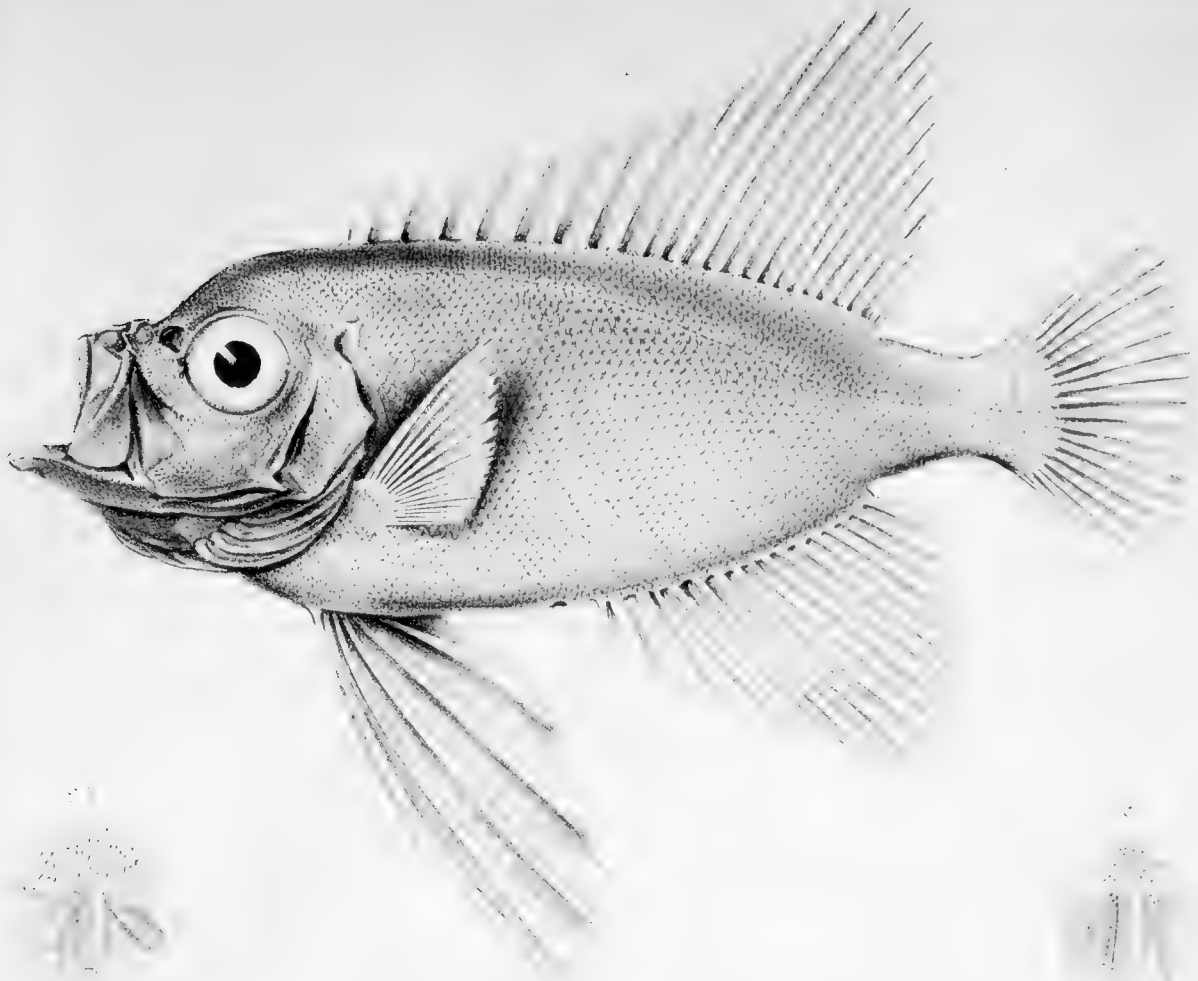
Kiemarski, cat. nat. hist.

Lacépède, atlas.

1. *Diacope bengalensis*. — 2. *D. analis*. — 3. *D. duodecimlineata*.





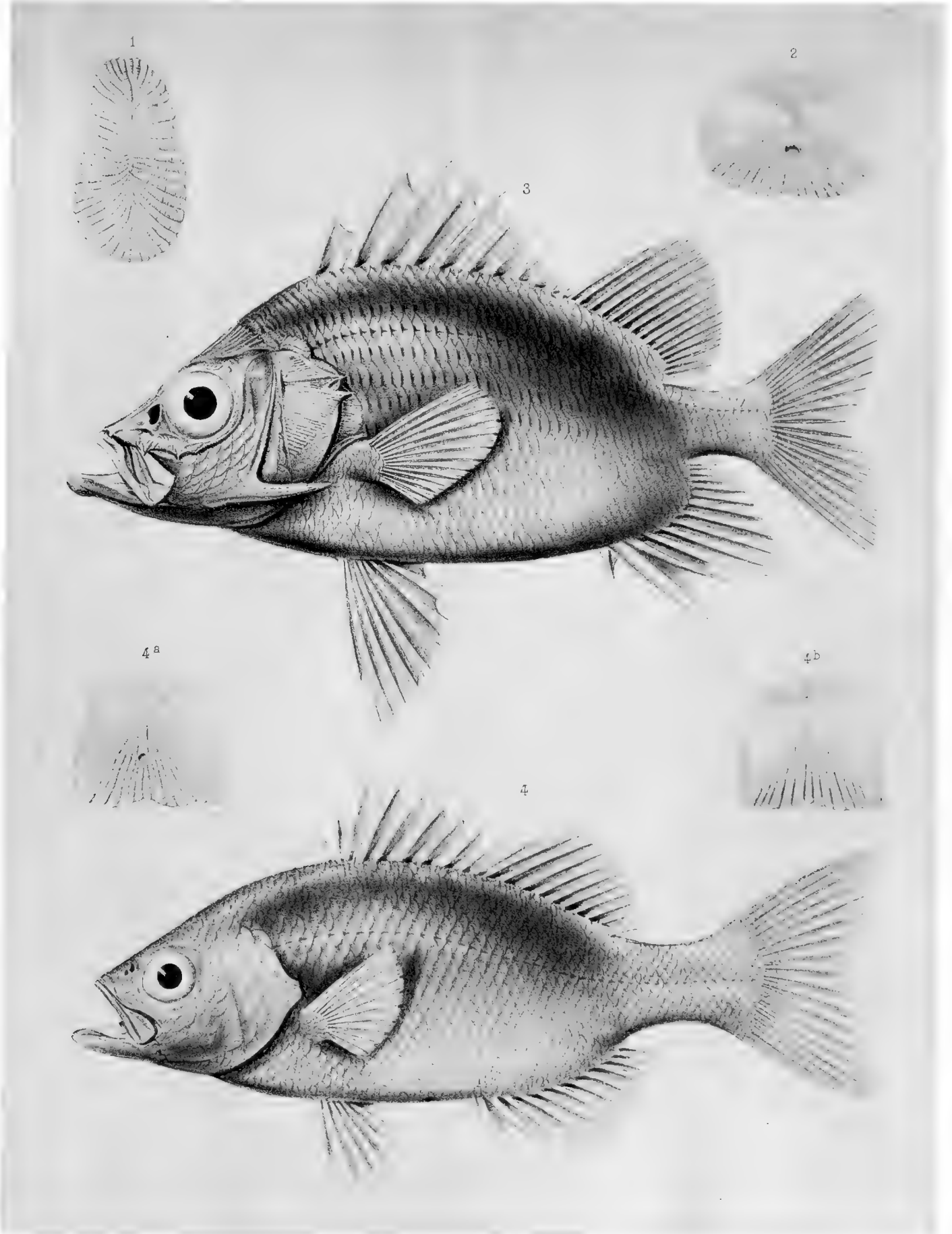


Karman'ski ad nat lili

Leuc Vaquet à Paris

1. *Priacanthus macropus*. — 2. *Pr. speculum*. — 3. *Pr. boops*.





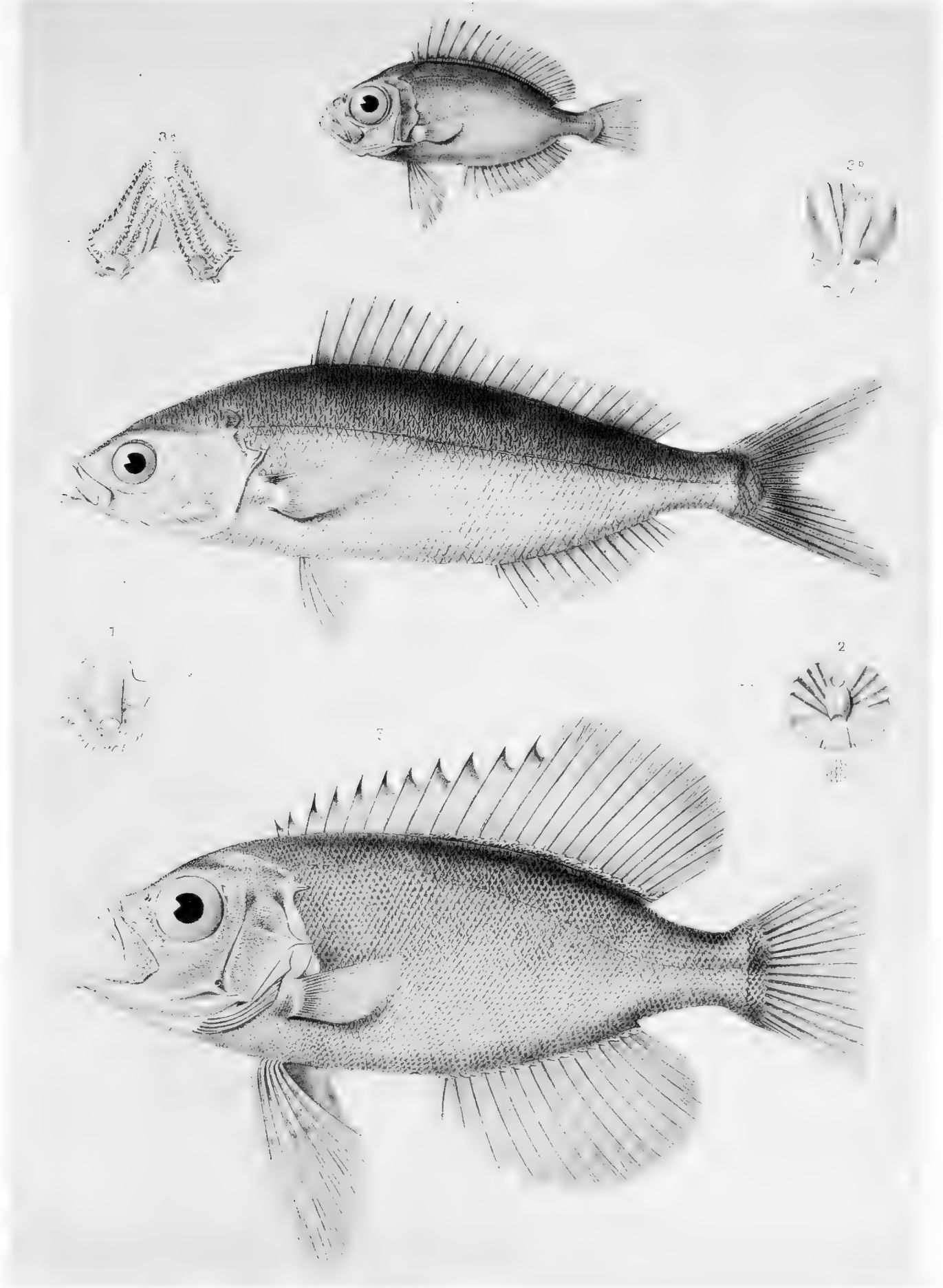
Karwinski, ad nat lith

Imp Bizeput, fr Paris

1. *Grammistes orientalis*. — 2. *Apogon hyalosoma*. — 3. *Holocentrum leo*. — 4. *Dules fuscus*





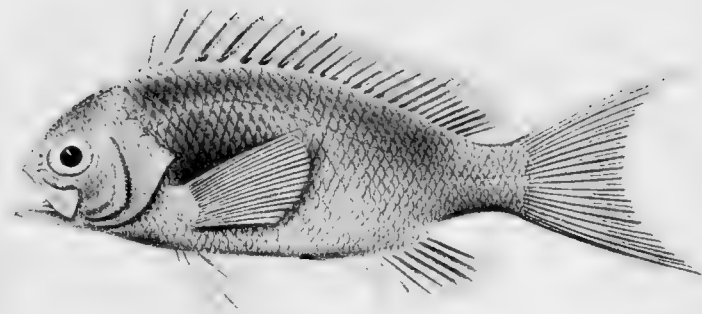


Arnoul ad. nat. lith.

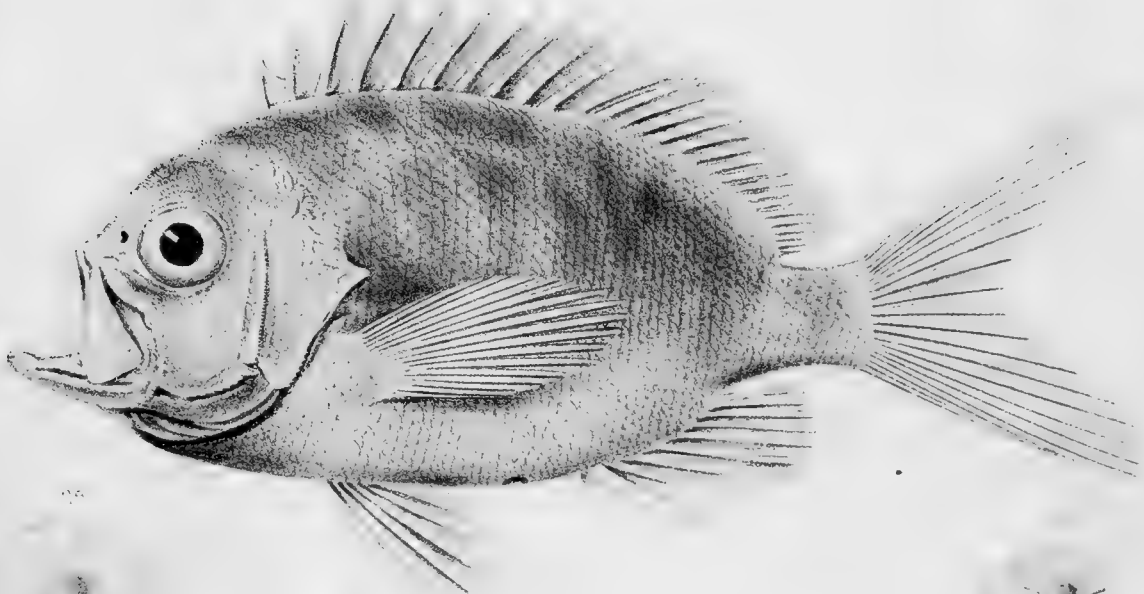
Imp. Biequet fr. Paris

1. *Priacanthus fax*. — 2. *Cosio corulaureus*, — 3. *Priacanthus alticlorens*

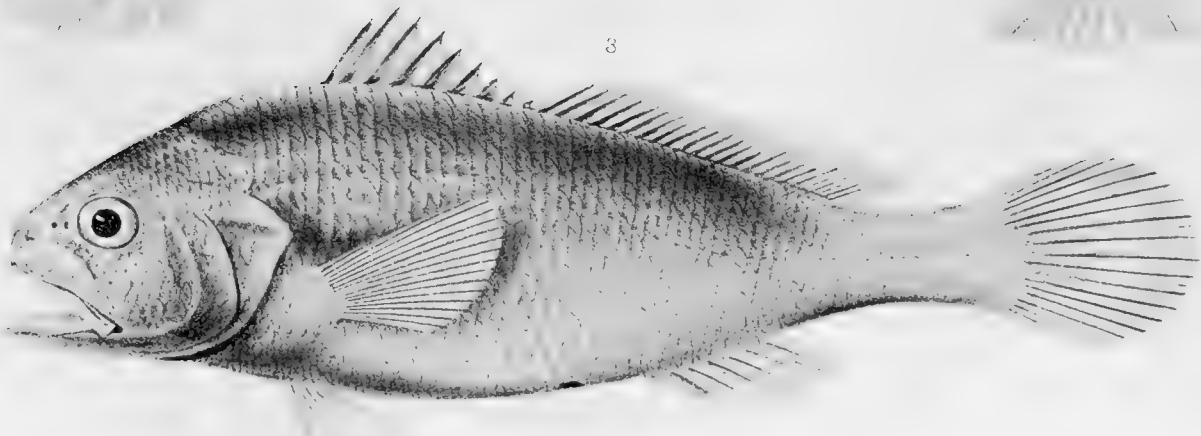




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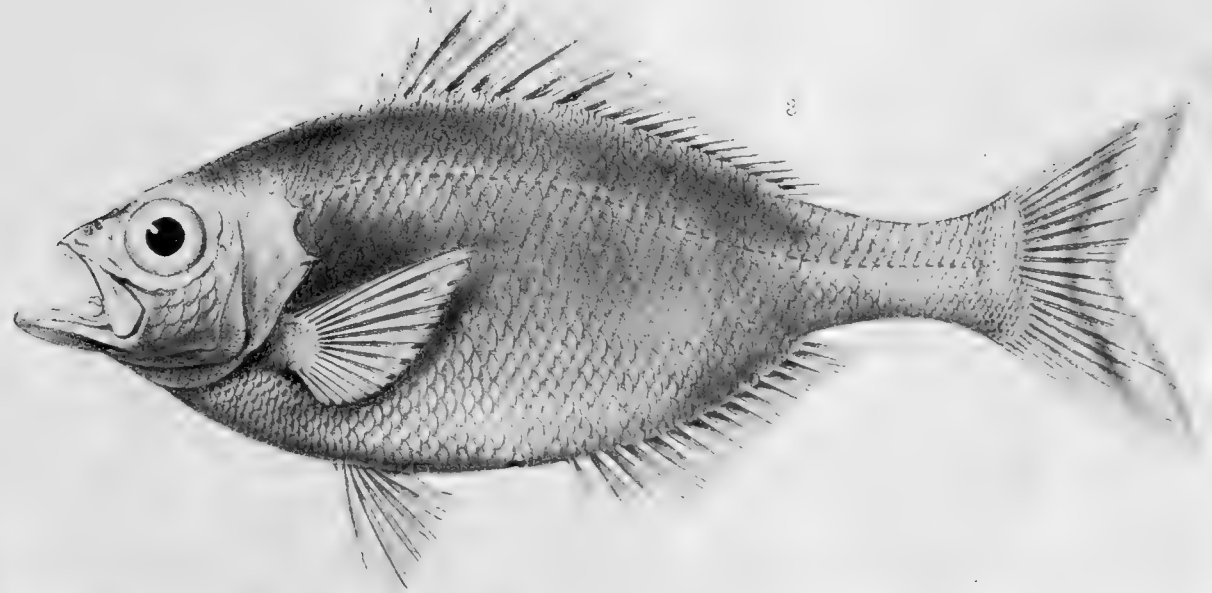
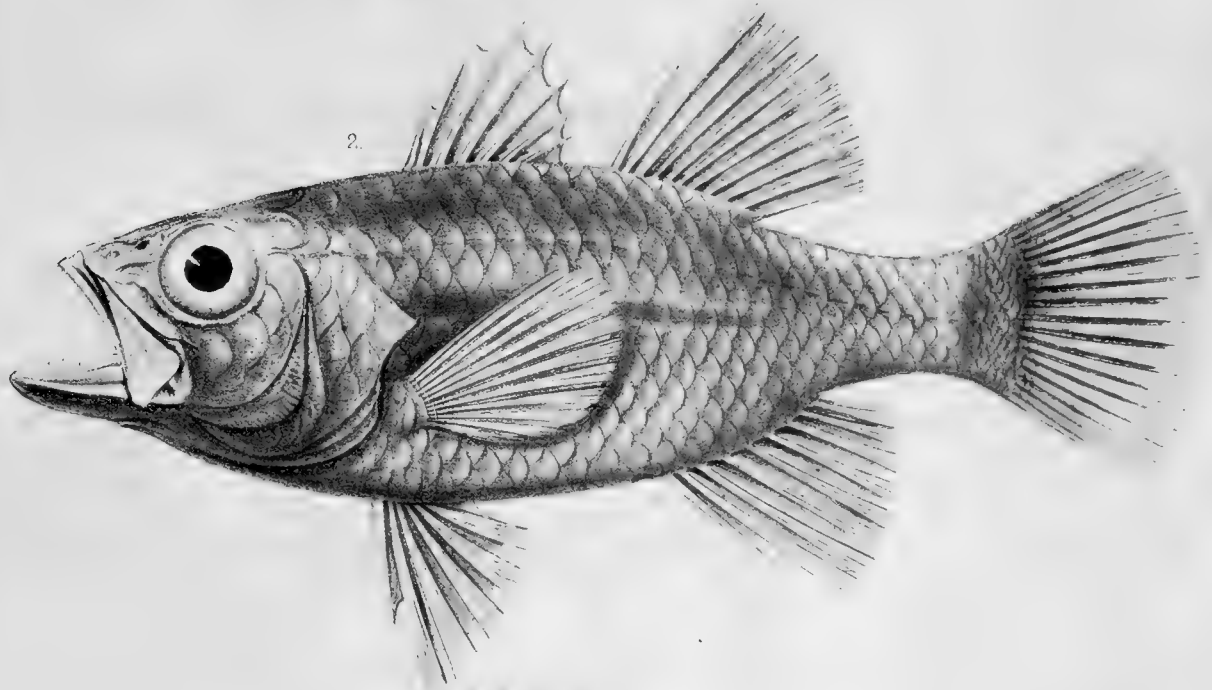


Arnoul ad nat lith

Imp. Dequet & Ponce

1. *Anthias squamipinnis*. — 2. *Anthias borbonicus*. — 3. *Corcina dorsalis*.





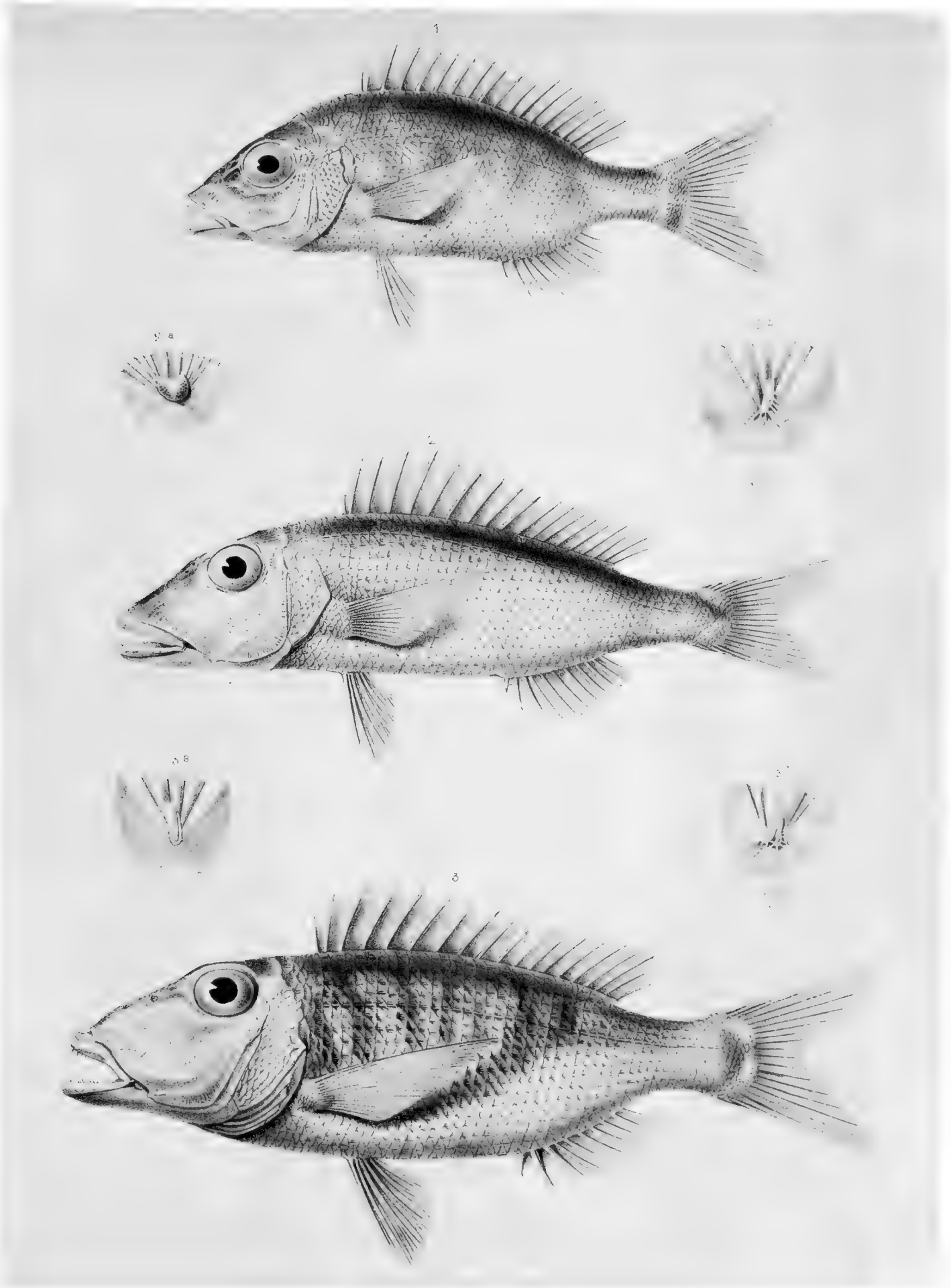
Ивммански: ад. нат. лит.

Leir. Diequet fr. Paris

1. *Eleotris Madagascariensis*, C. V. — 2. *Cheilodipterus polyacanthus*, Vaill. — 3. *Dules caudocittatus*, Lacép





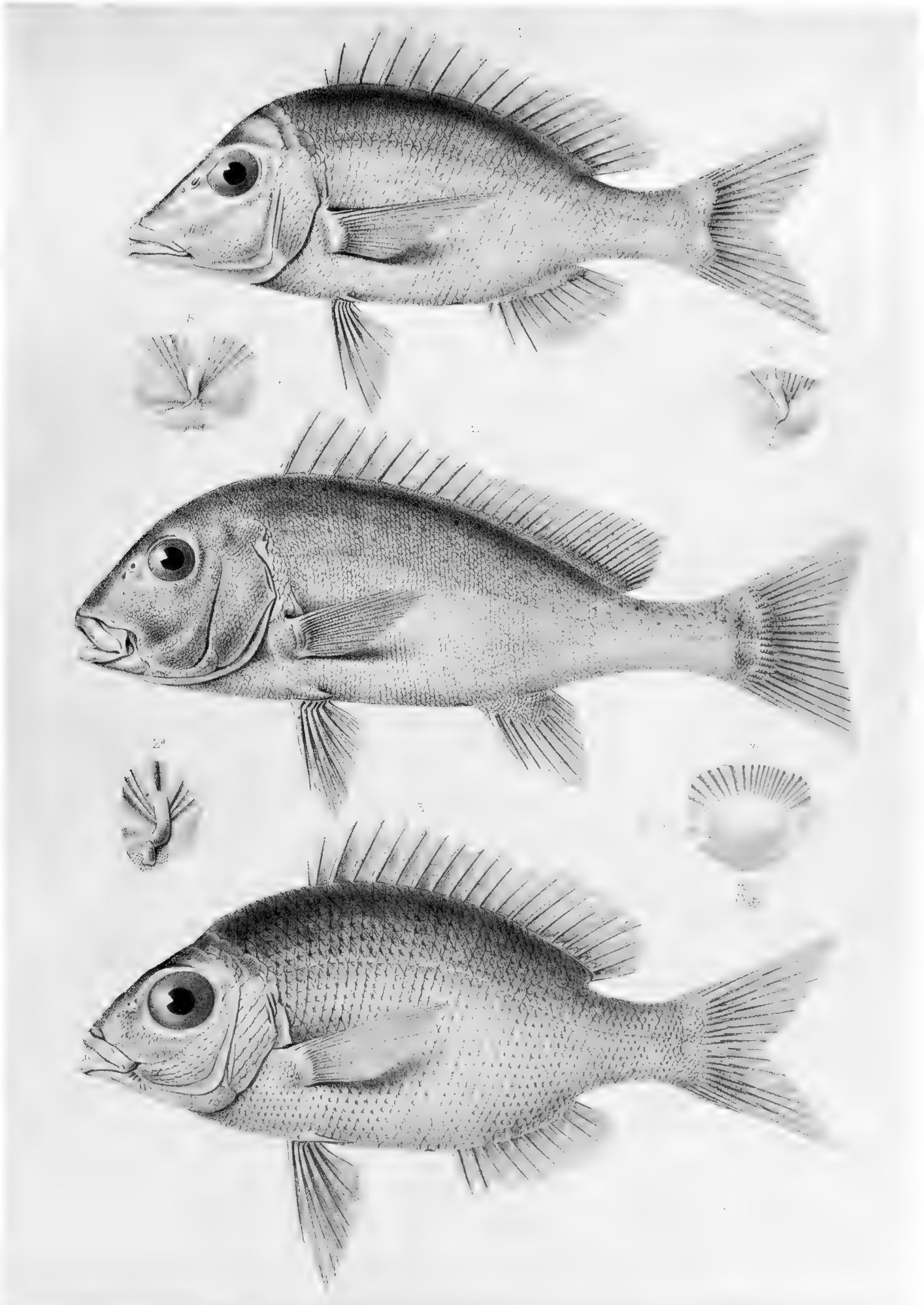


Amoult ad nat litt

Imp. Baquet & Paris

1. *Lethrinus erythrurus*. — 2. *L. variegatus*. — 3. *L. semicinctus*.





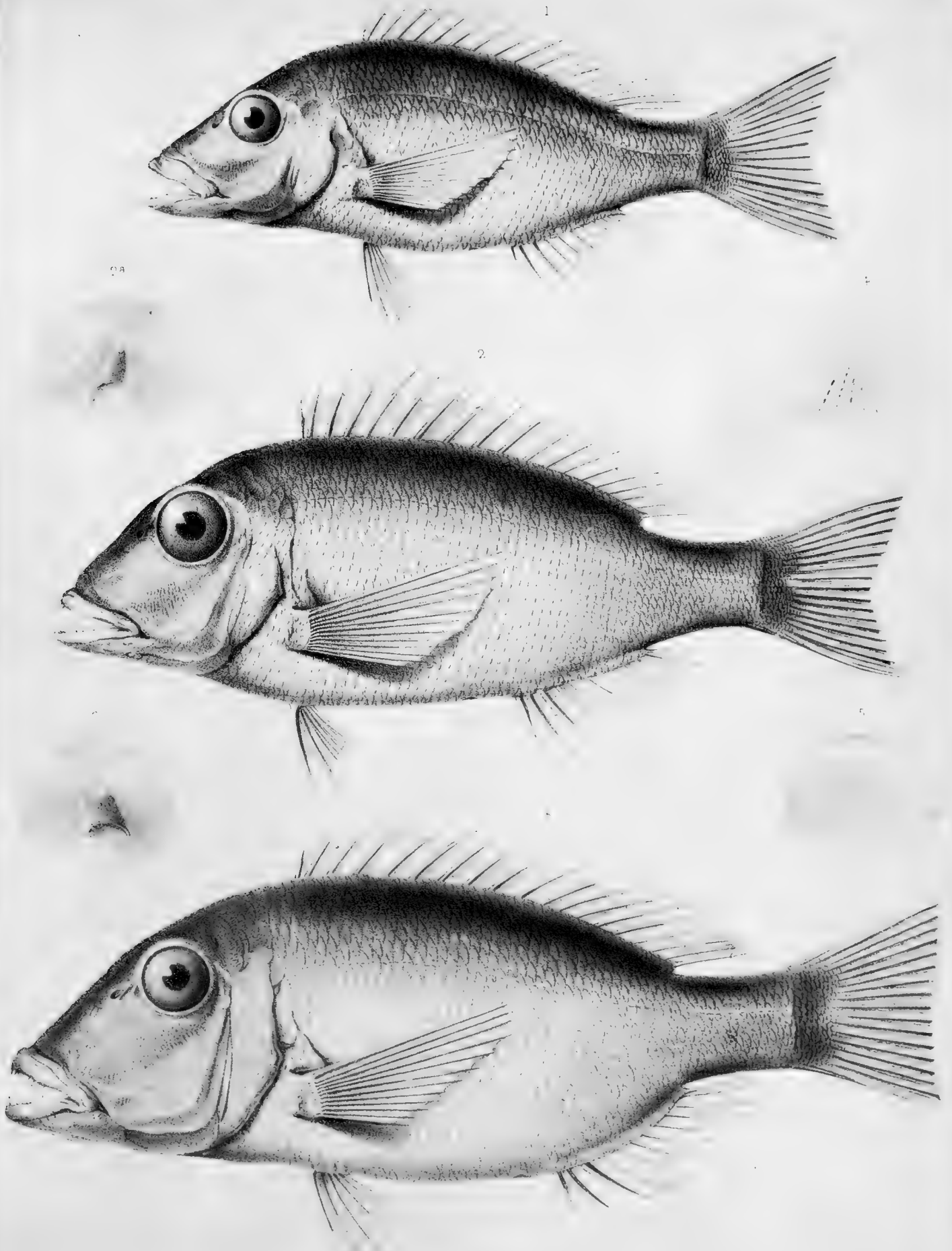
Arnoul. ad nat. hist.

Im. Deshayes del.

1. *Lethrinus centurio*. — 2. *Diagramma centurio*. — 3. *Cantharus grandoculis*.  
4. *Cirrithes arcatus*. — 5. *Chrysophris bijasiata*.

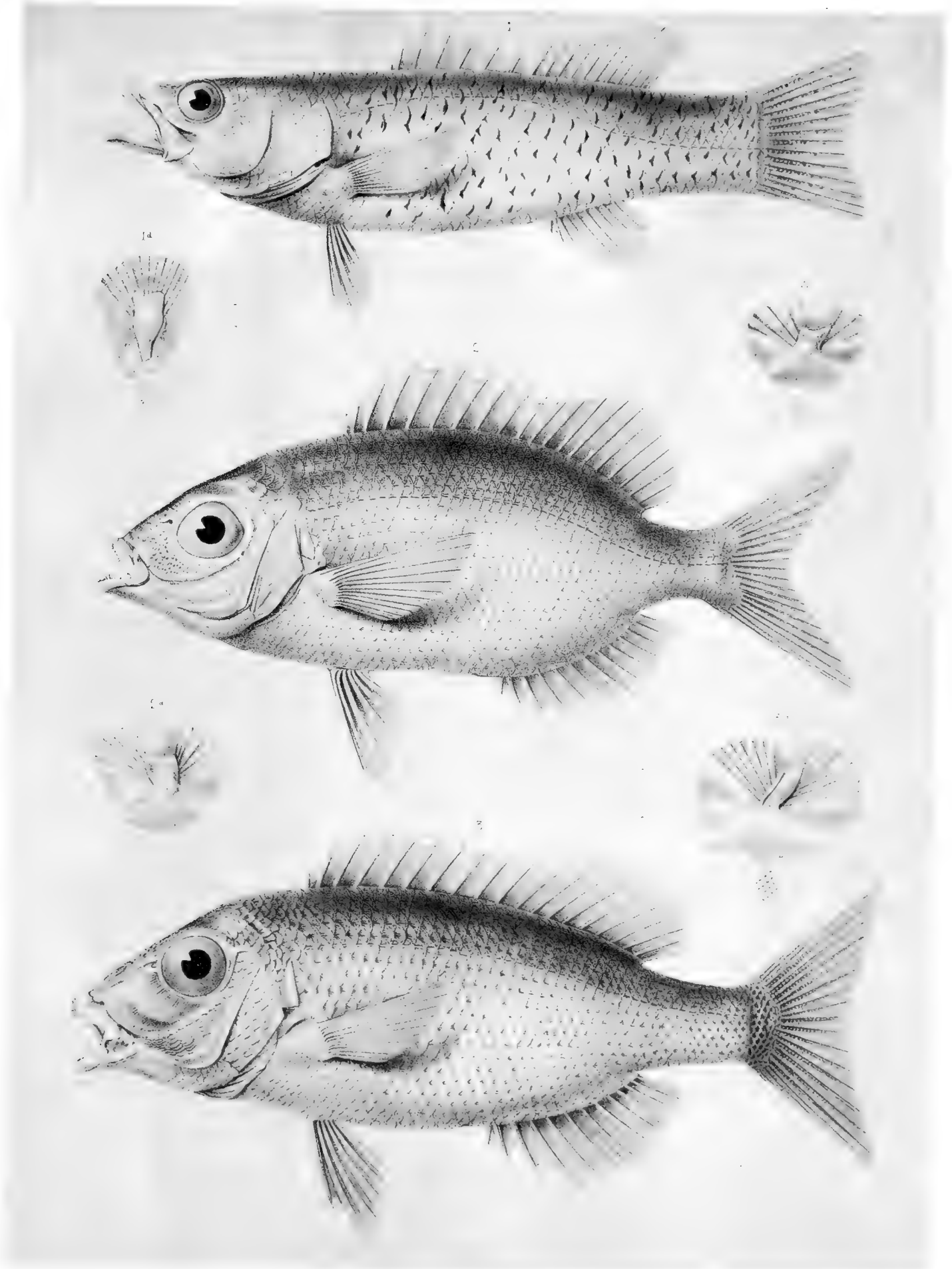






1. *Lethrinus frenatus*, C. V. — 2. *L. borbonicus*, C. V. — 3. *L. caruleus*, C. V.



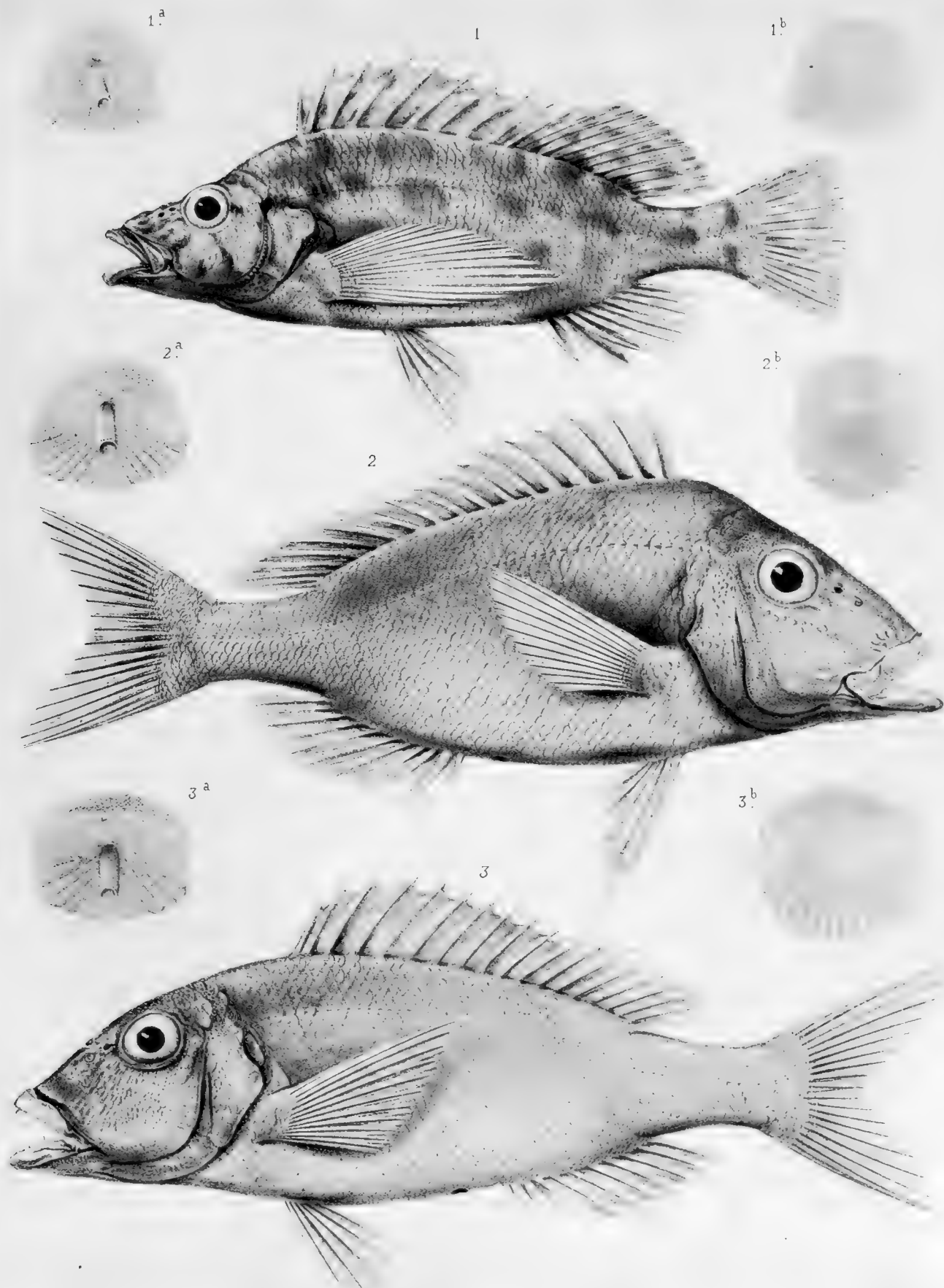


Arnskil ad. nat lith

Imp. Firmin G. Paris

1. *Pikea lunulata*. — 2. *Pentapus curtus*. — 3. *P. dux*. — 4. *P. aurco-cittatus*.





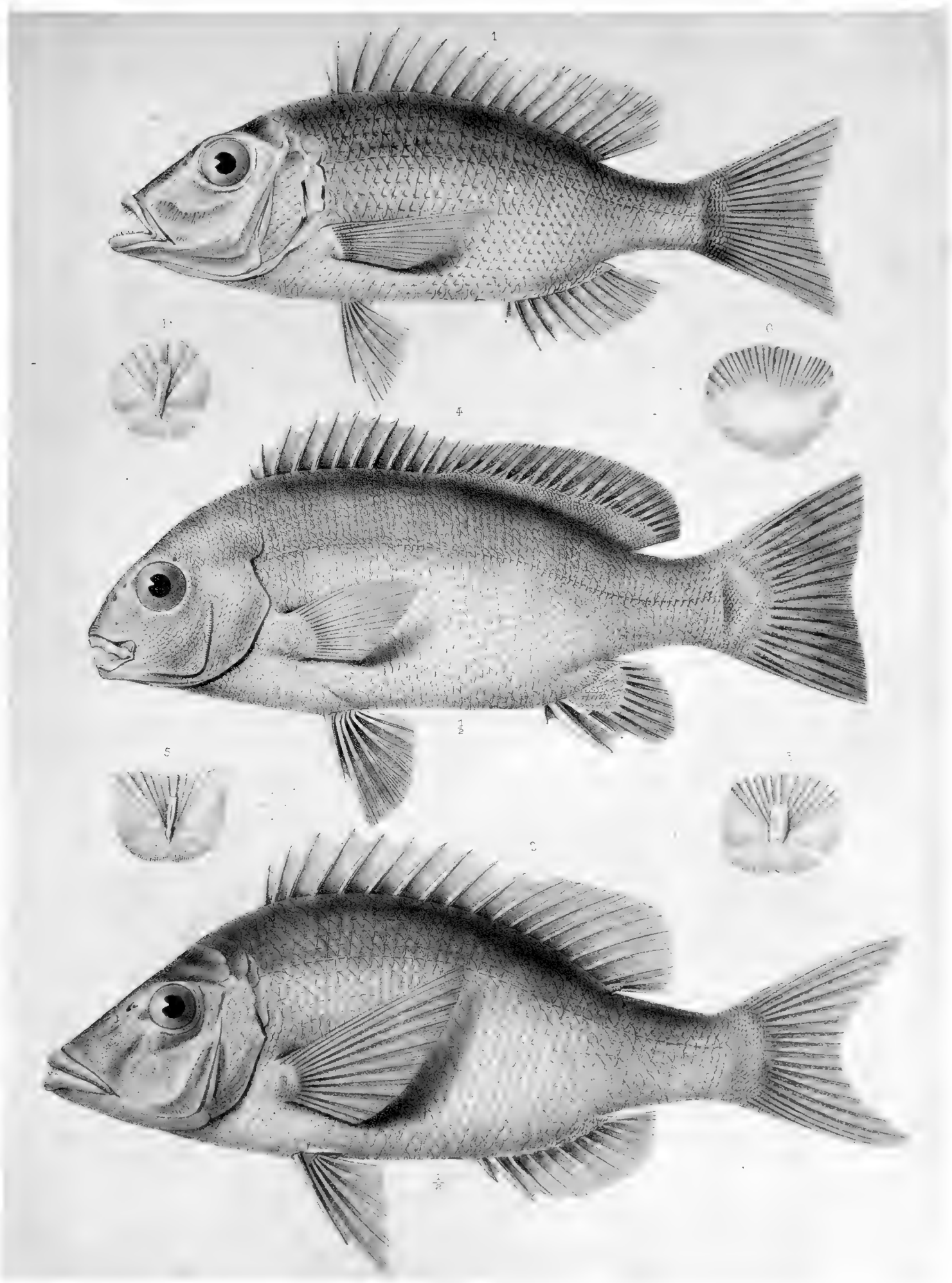
Karmanski ad. nat. lith.

Jour. Bequet à Paris

1. *Cirrhites Guichenoti*. — 2. *Lethrinus argenteus*. — 3. *Lethrinus olivaceus*.





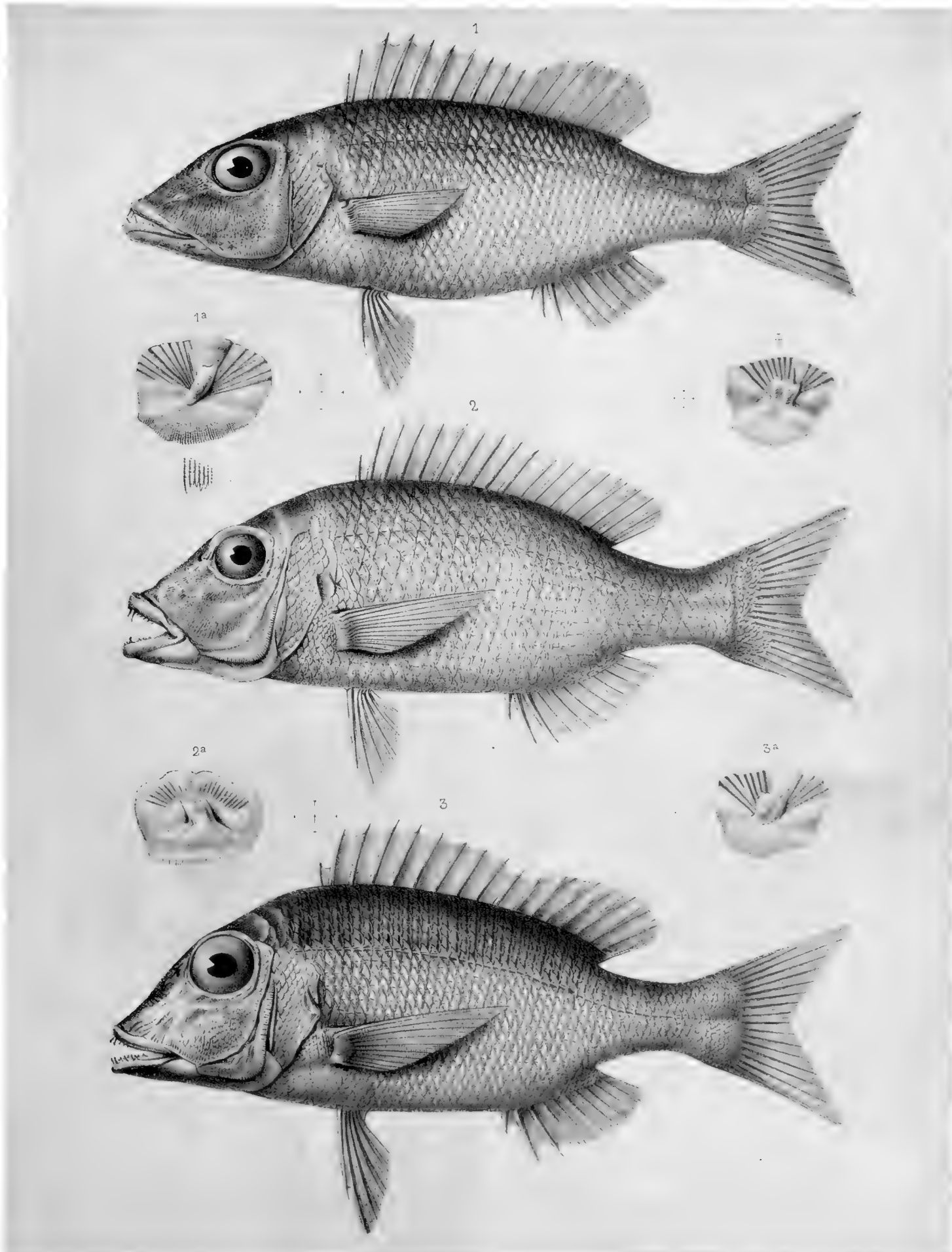


Jobin pinx<sup>t</sup>

Imp. Bicaquet th Paris

1. *Lethrinus croceopterus*. — 2. *L. striatus*. — 3. *L. centurio*. — 4. *Diagramma griseum*.  
5. *Dules caudovittatus*. — 6. *Cheilodipterus polyacanthus*.

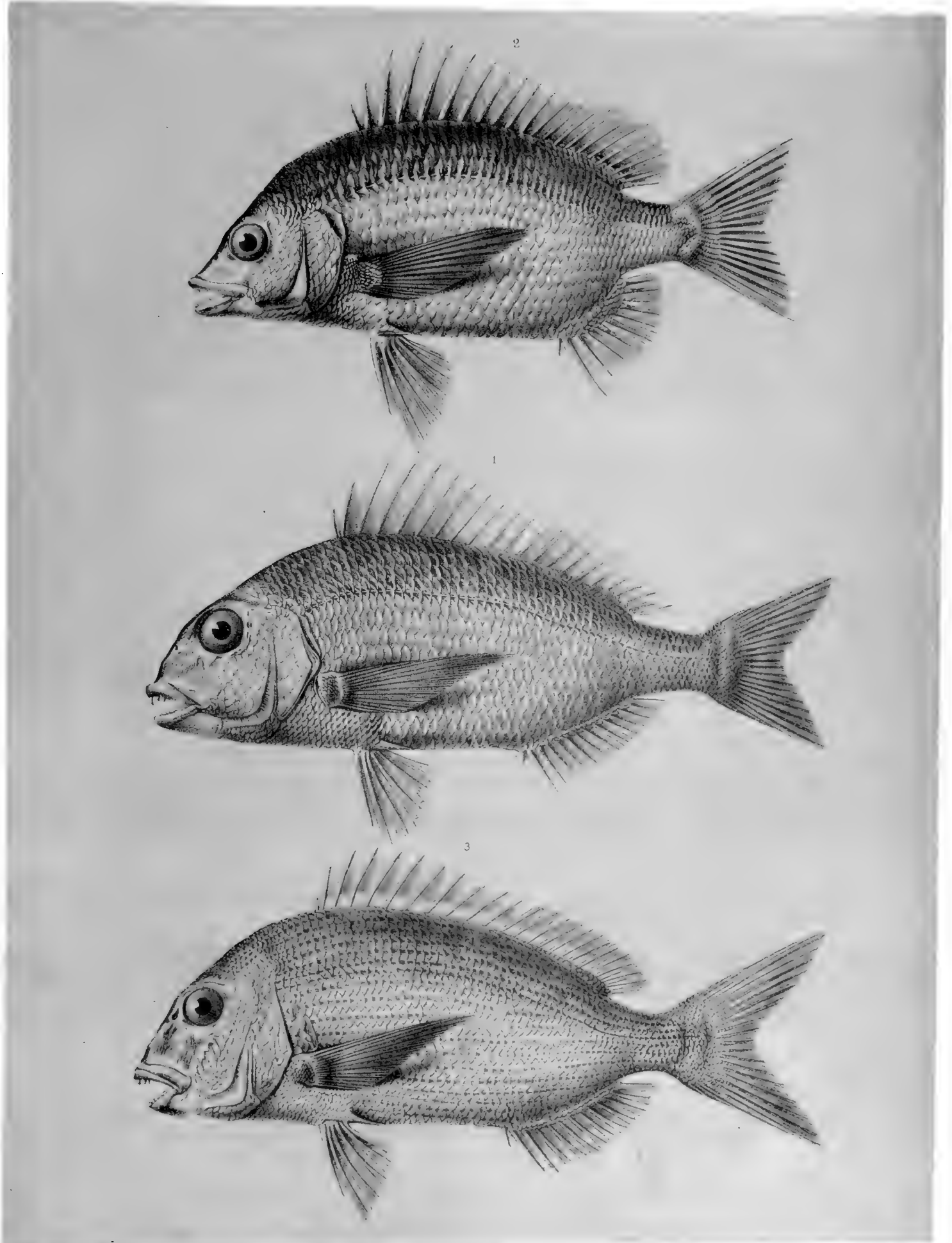




Arnoul ad. nat lith

1. *Lethrinus microdon*. — 2. *Lethrinus mashena*. — 3. *Lethrinus mahsenoides*. — 4. *Lethrinus latifrons*.



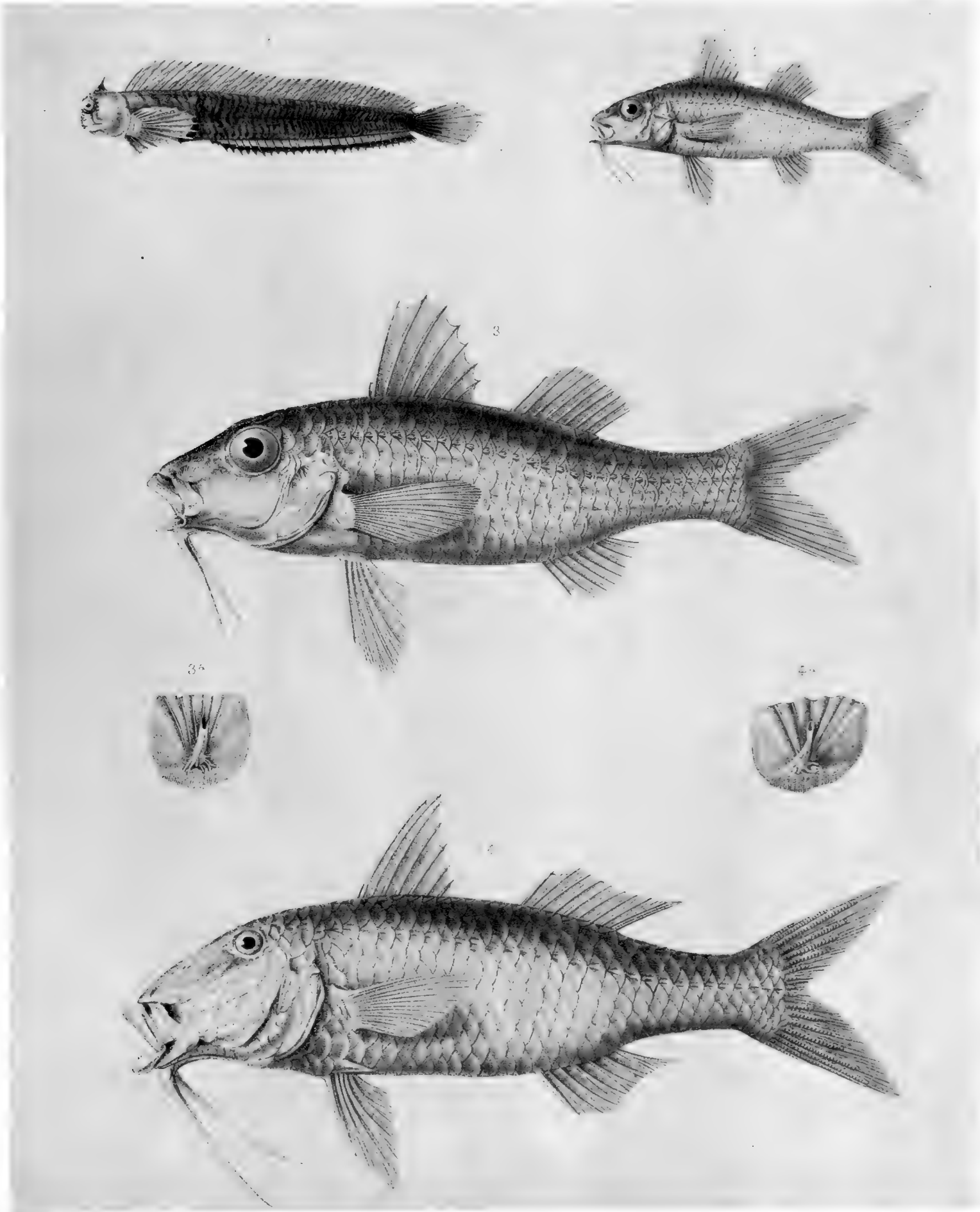


John Dal.

1. *Chrysophrys haffara*. 2. *Ch. hasta*. - 3. *Ch. sarba*.

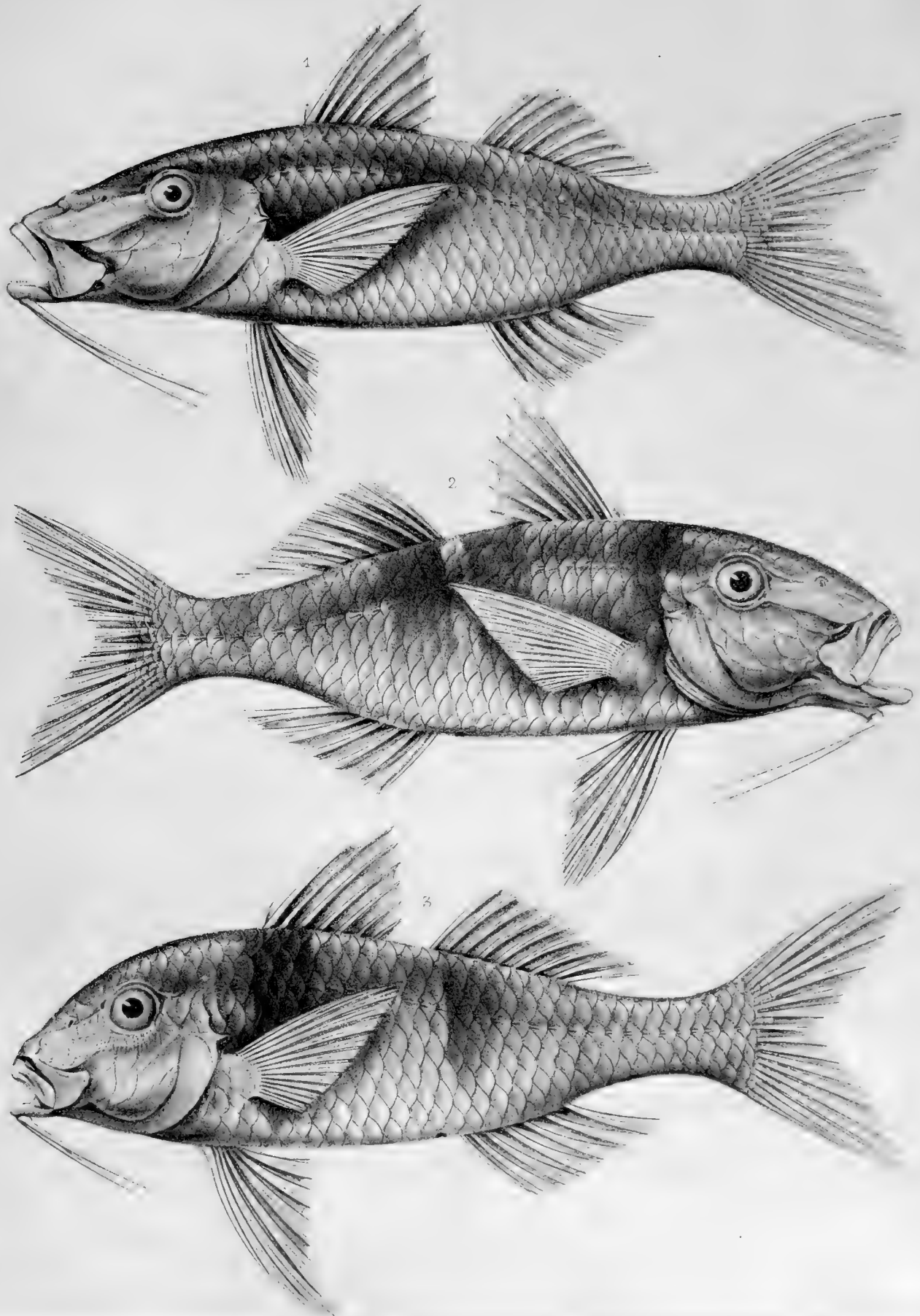






1. *Salarias Kirkii*. — 2. *Upeneus cyprinoides*. — 3. *Up. chryseridros* — 4. *Up. cyclostomus*.



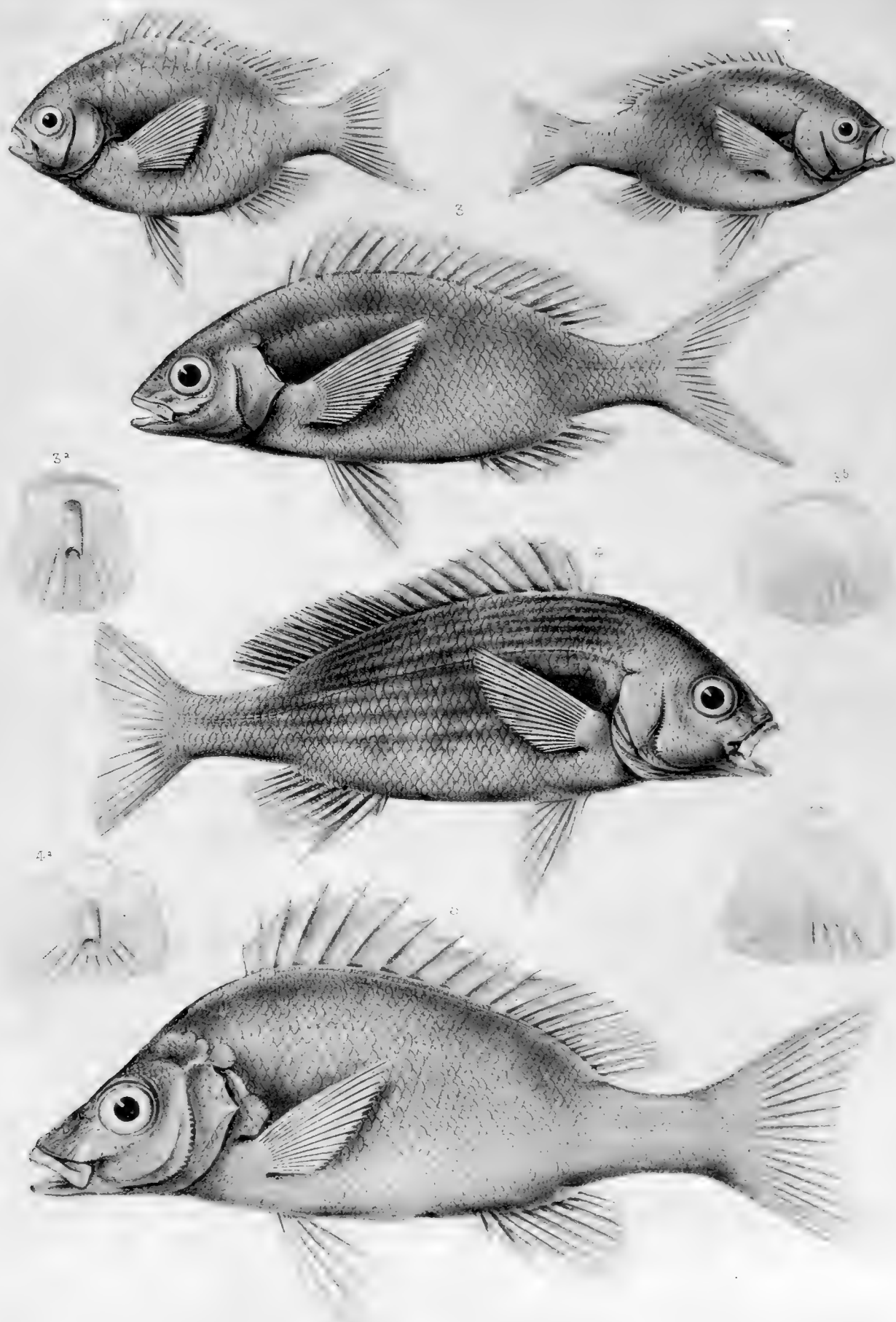


1. *Upeneoides sulphureus*. — 2. *Up. vittatus*. — 3. *Upeneus fraterculus*.

Farmanski ad. nat. lith

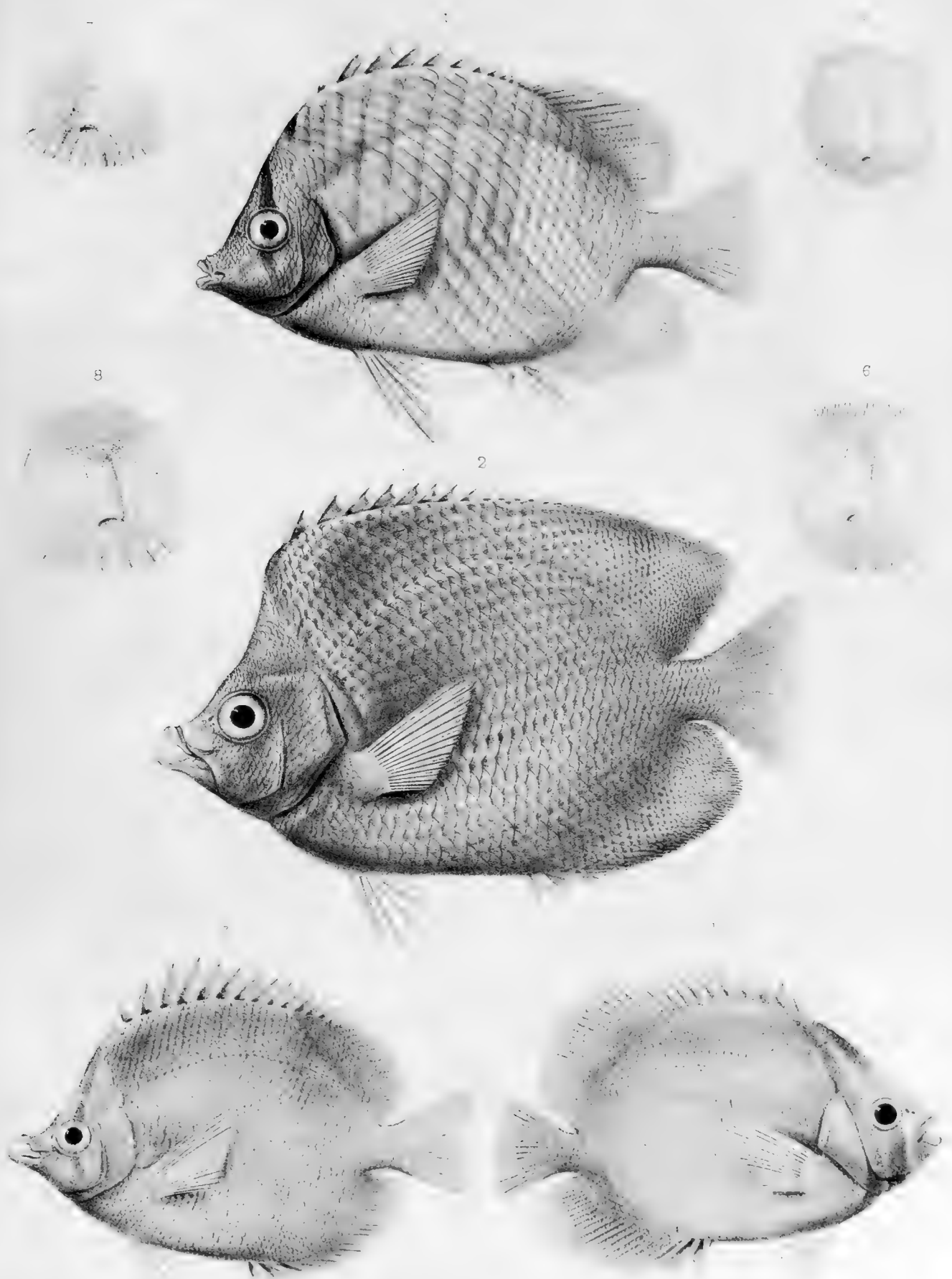
Imp. Bouché et Paris





1. *Heliastes frenatus*. — 2. *H. cinerascens*. — 3. *Scolopsis frenatus*.  
4. *Pristipoma anas*. — 5. *Therapon obtusirostris*.





8

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2

Farmanski ad nat. lith.

Jmp. Desq. et F. Paris

1. *Chaetodon xanthurus*. — 2. *Ch. nigropunctatus*. — 3. *Ch. melanopterus*. — 4. *Ch. nigripinnis*. — 5. *Ch. lineolatus*.  
 6. *Holacanthus caudibicolor*. — 7. *Pempheris otaitensis*. — 8. *Heniochus monoceros*.

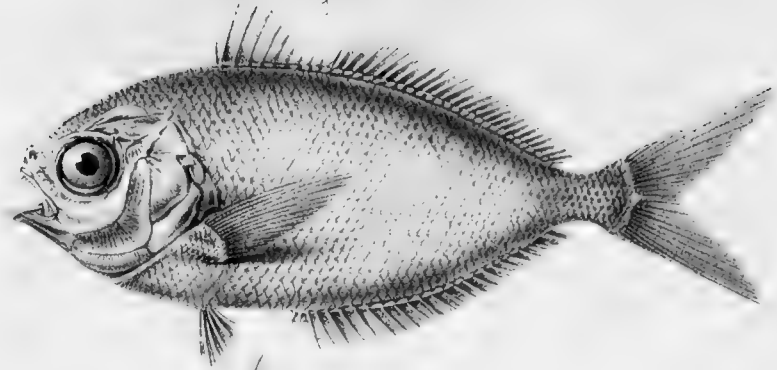




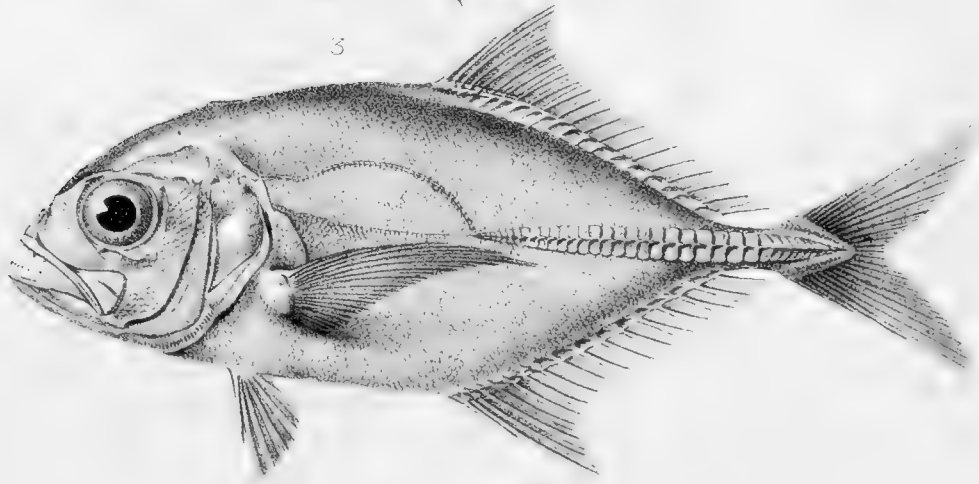


*Holacanthus ignatus*

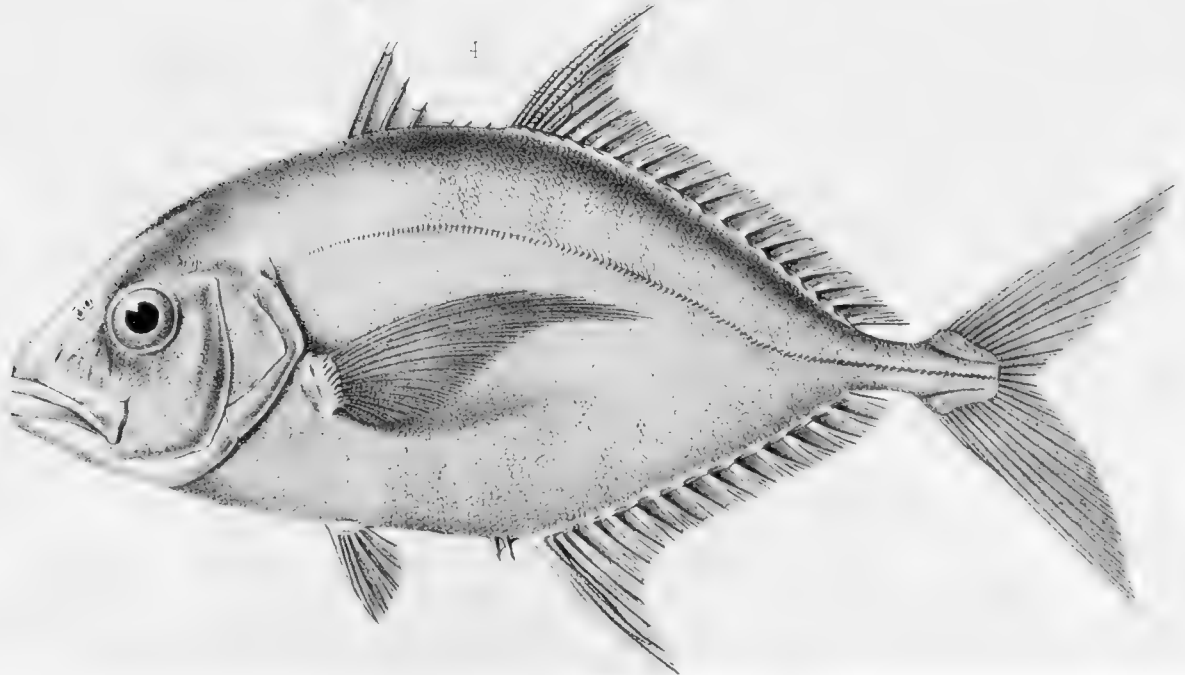




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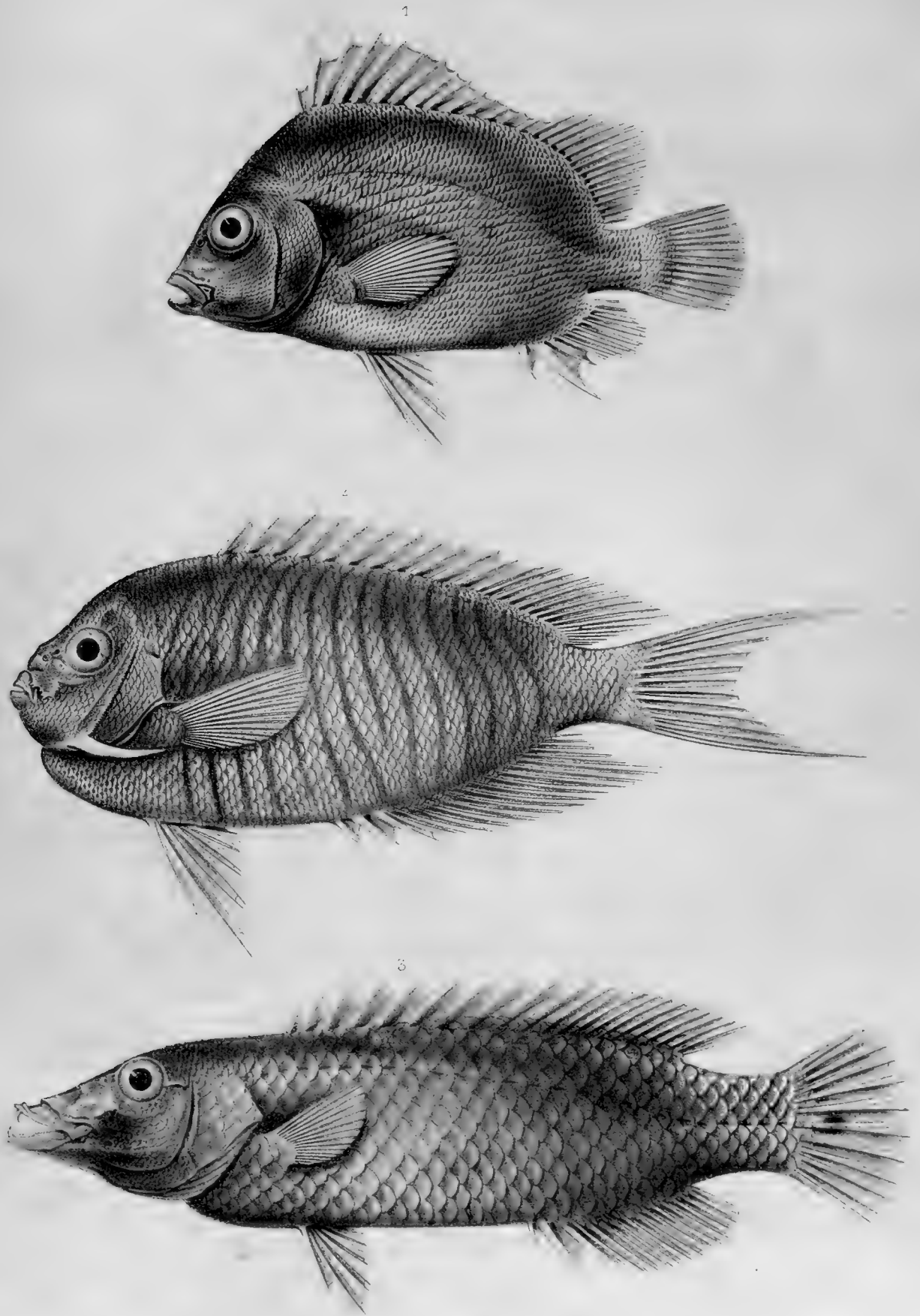
Jobin puzé

Imp Desquel f. Paris

Arnaut lith

1. *Psenes juncanicus*. — 2. *Equula parviceps*. — 3. *Caranx Forsteri*. — 4. *C. chrysophrys*.





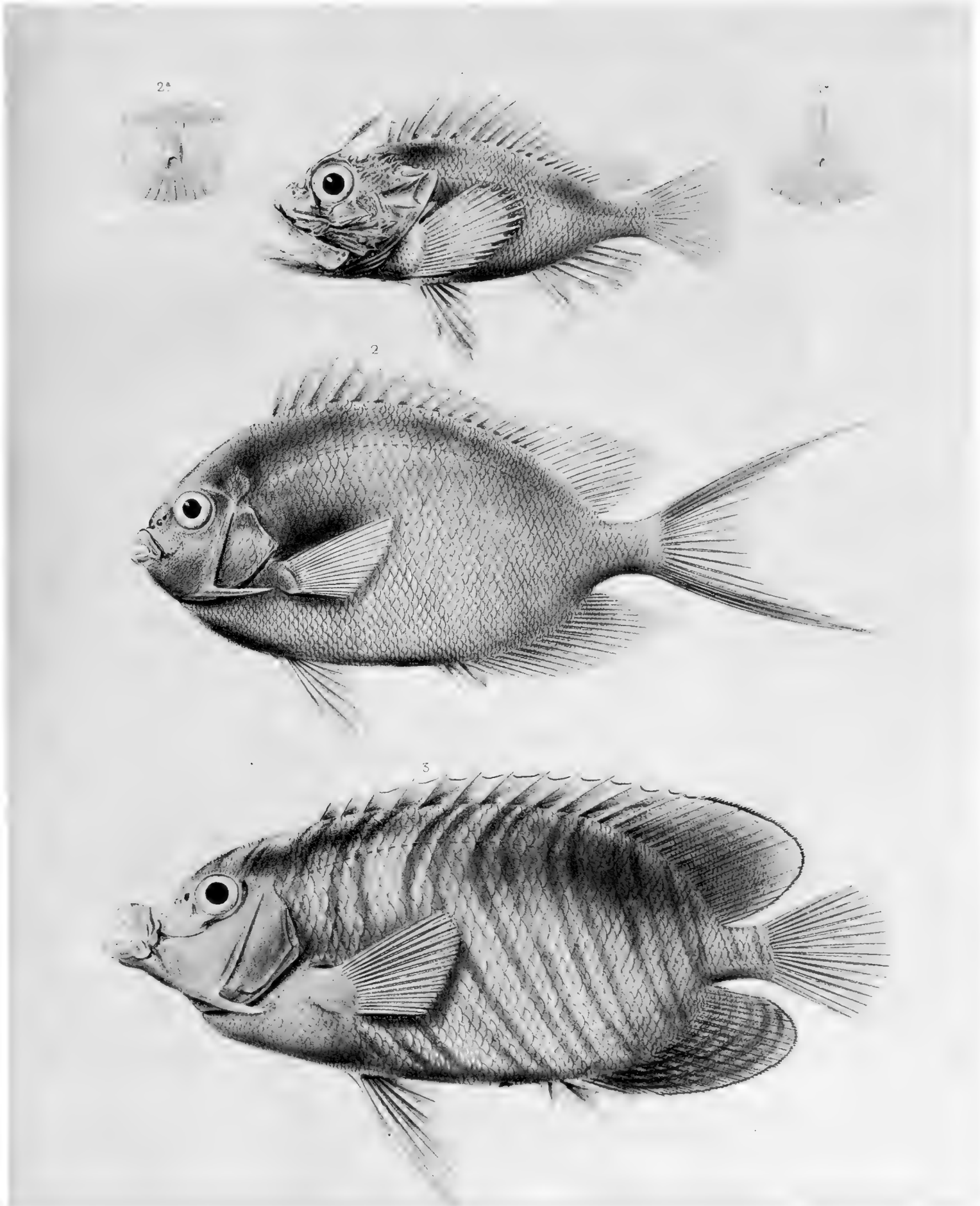
Карманский и др. и др.

From the collection of the Academy of Sciences, St. Petersburg.

1. *Pseudopristipoma leucurum*. — 2. *Holacanthus zebra*. — 3. *Cossyphus spilotes*.



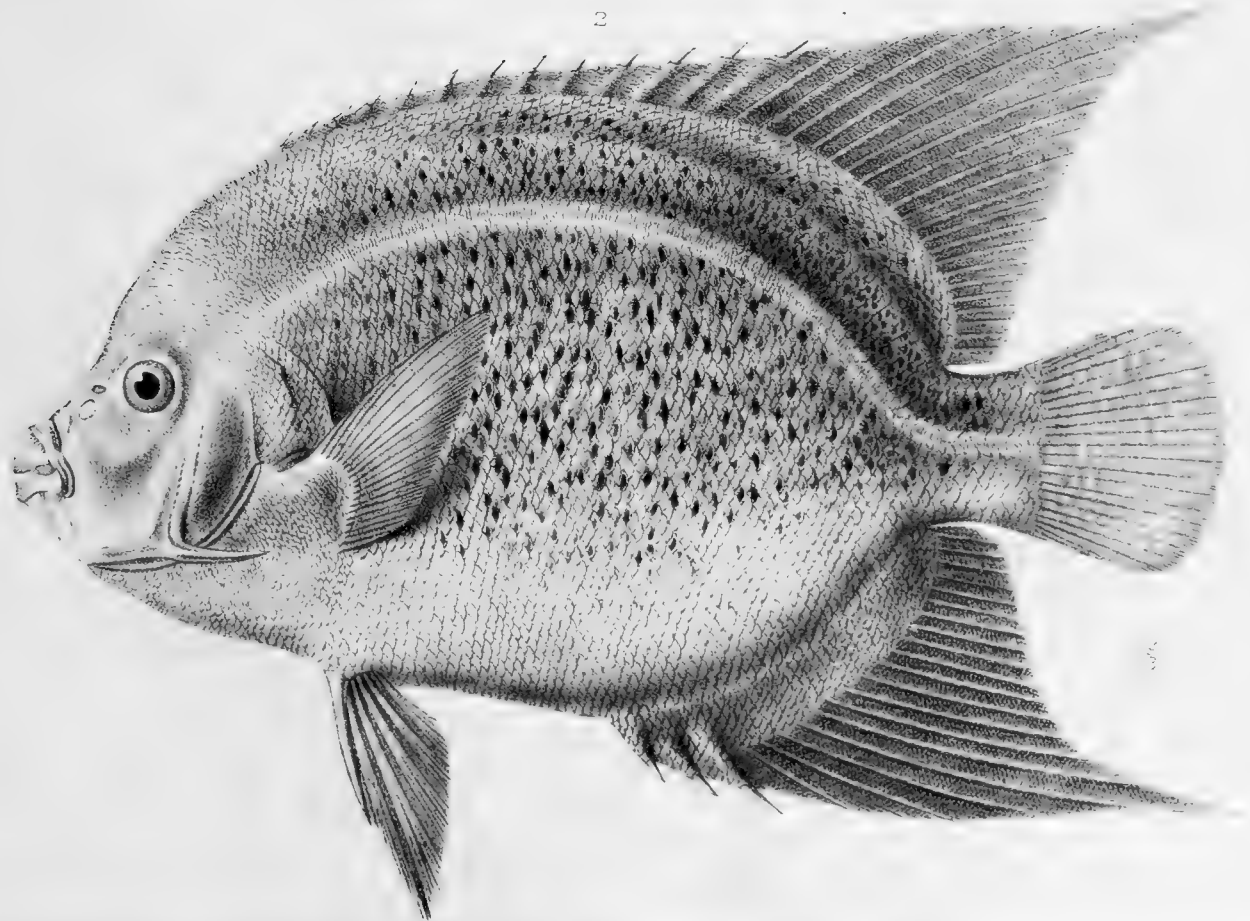
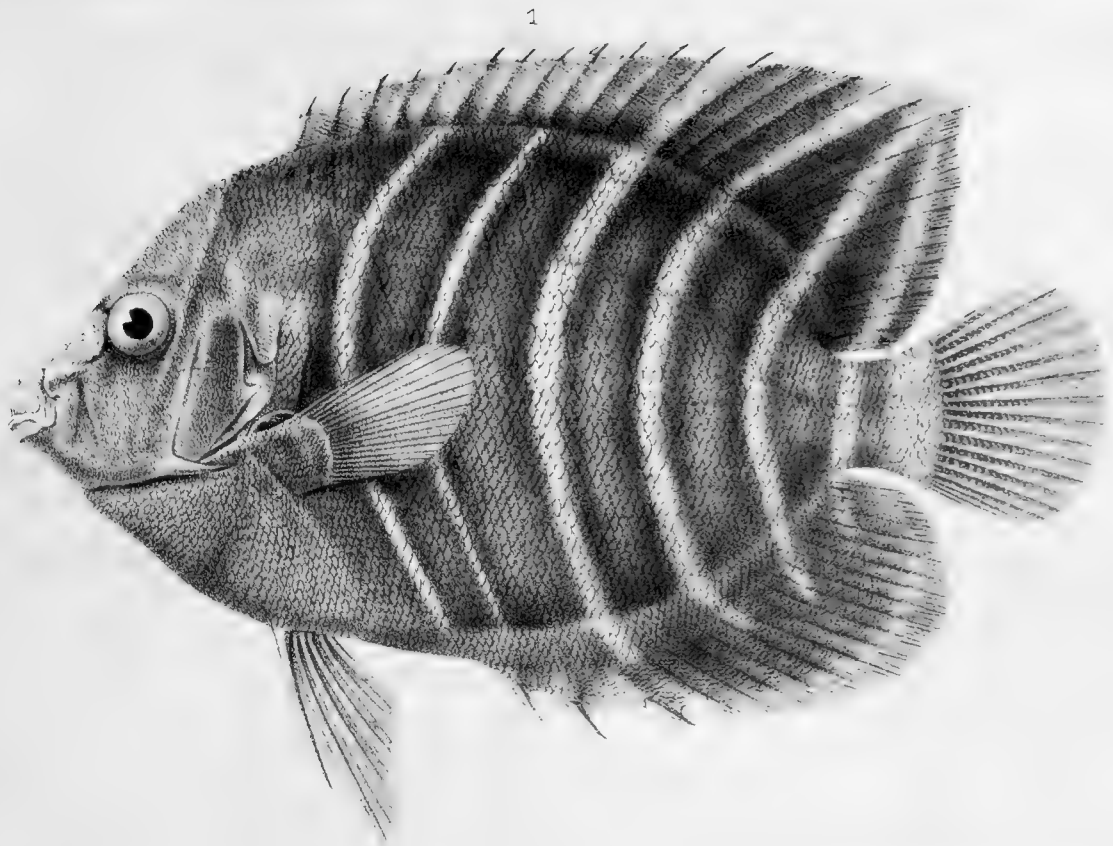




Kamarski ad nat lith.

1. *Scorpaena mossambica*. — 2. *Holacanthus caudibicolor*. — 3. *H. diacanthus*.





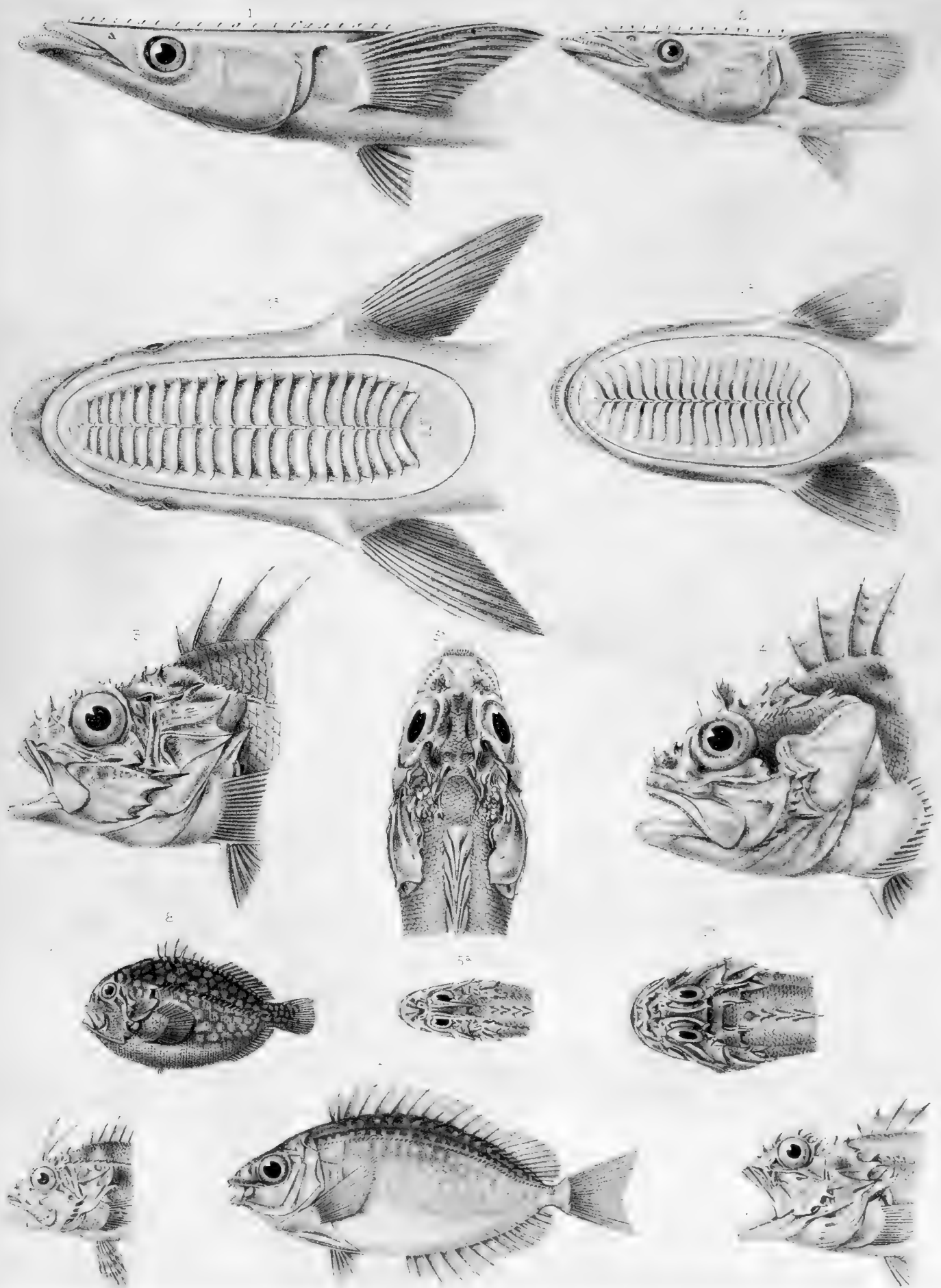
Jobin pinxt

Imp. Bequet fr. Paris

Arnoul lith.

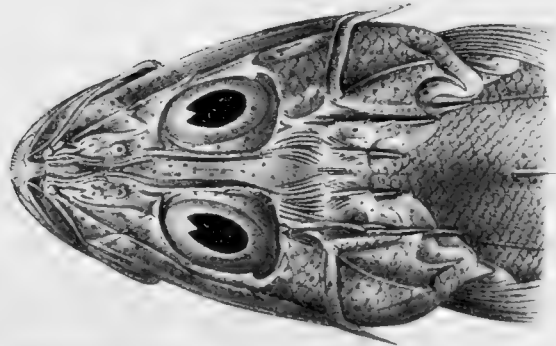
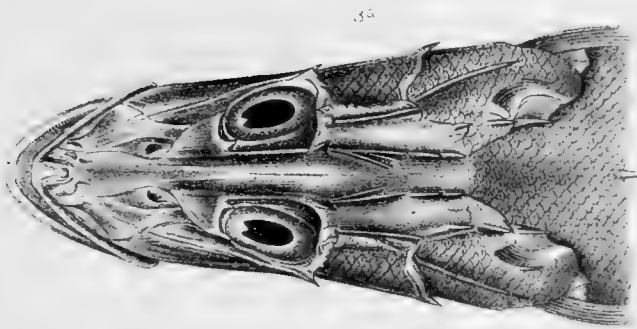
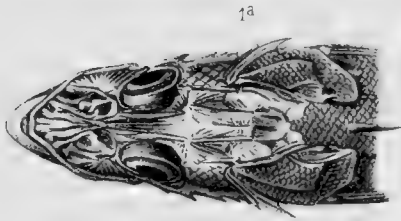
1. *Holacanthus chrysurus*. — 2. *H. reginae*.





1. *Echeneis isodonta*. — 2. *E. ranina*. — 3. *Scorpana erythroa*. — 4. *Sc. mauritiana*. — 5. *Sc. rubropunctata*.  
6. *Sc. megastoma*. — 7. *Teuthis Abhortani*. — 8. *Caracanthus madagascariensis*.

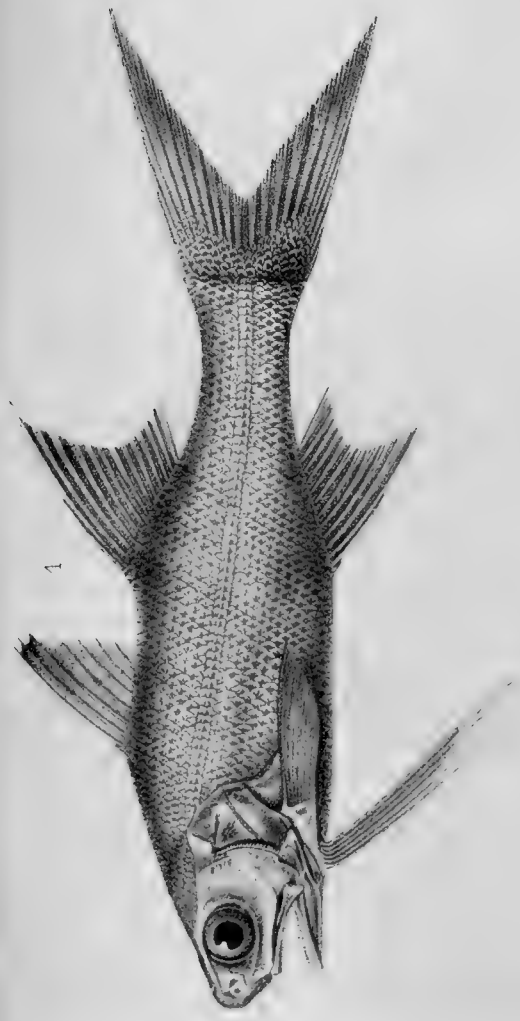




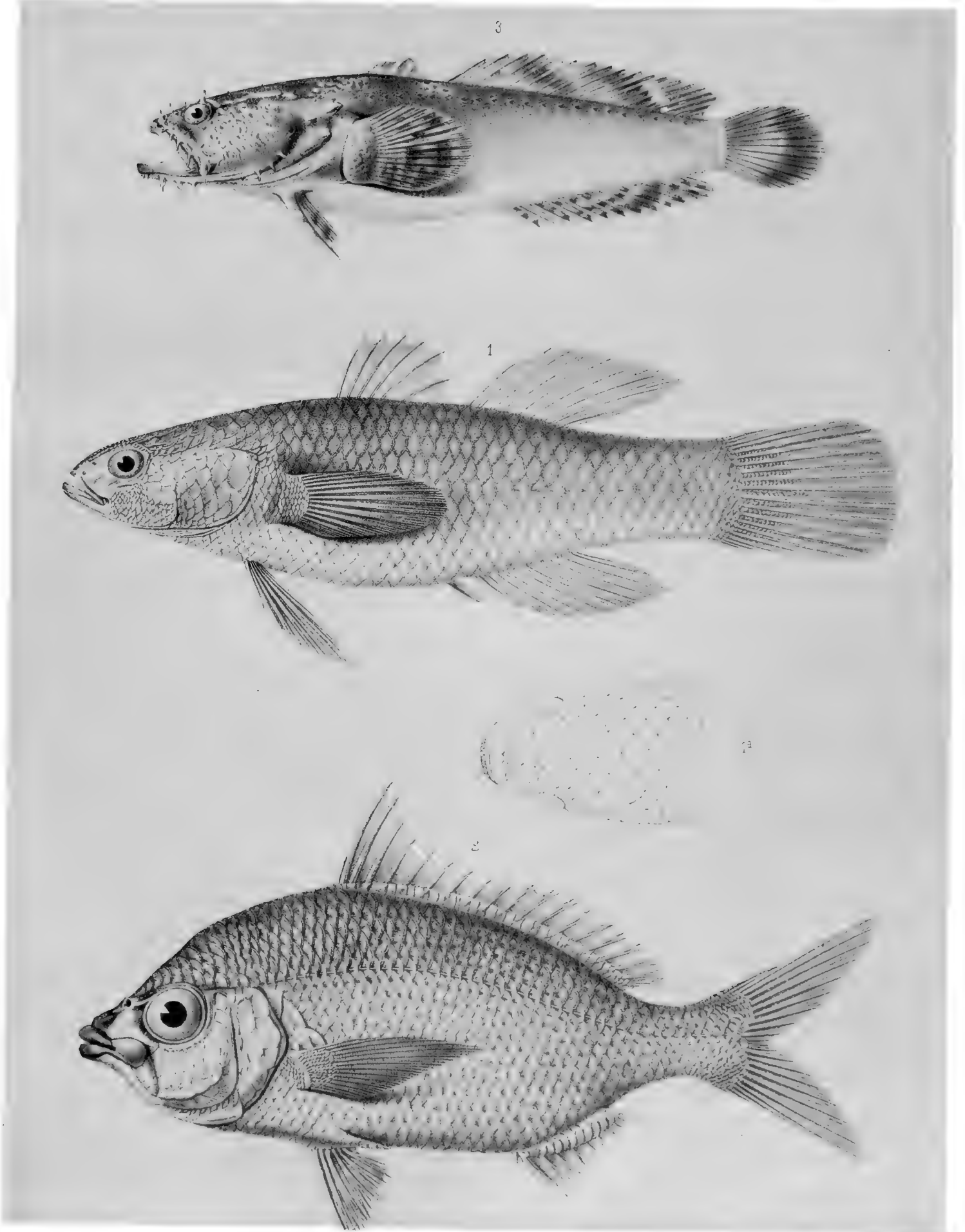
1. *Platycephalus scaber*. — 2. *Pl. rodericensis*. — 3. *Pl. Grandidieri*  
4. *Pl. borboniensis*. — 5. *Pl. punctatus*.











1. *Eleotris macrolepidotus*, var. *tumifrons*. — 2. *Gerres oyena*. — 3. *Batrachus grunniens*.

Jobin del.





1. *Gobius ancofuscus*. — 2. *G. obscurus*. — 3. *G. albopunctatus*. — 4. *G. signatus*. — 5. *G. capistratus*.  
6. *Petroscirtes barbatus*. — 7. *Salarias melcagris*. — 8. *Eleotris ophiocephalus*.



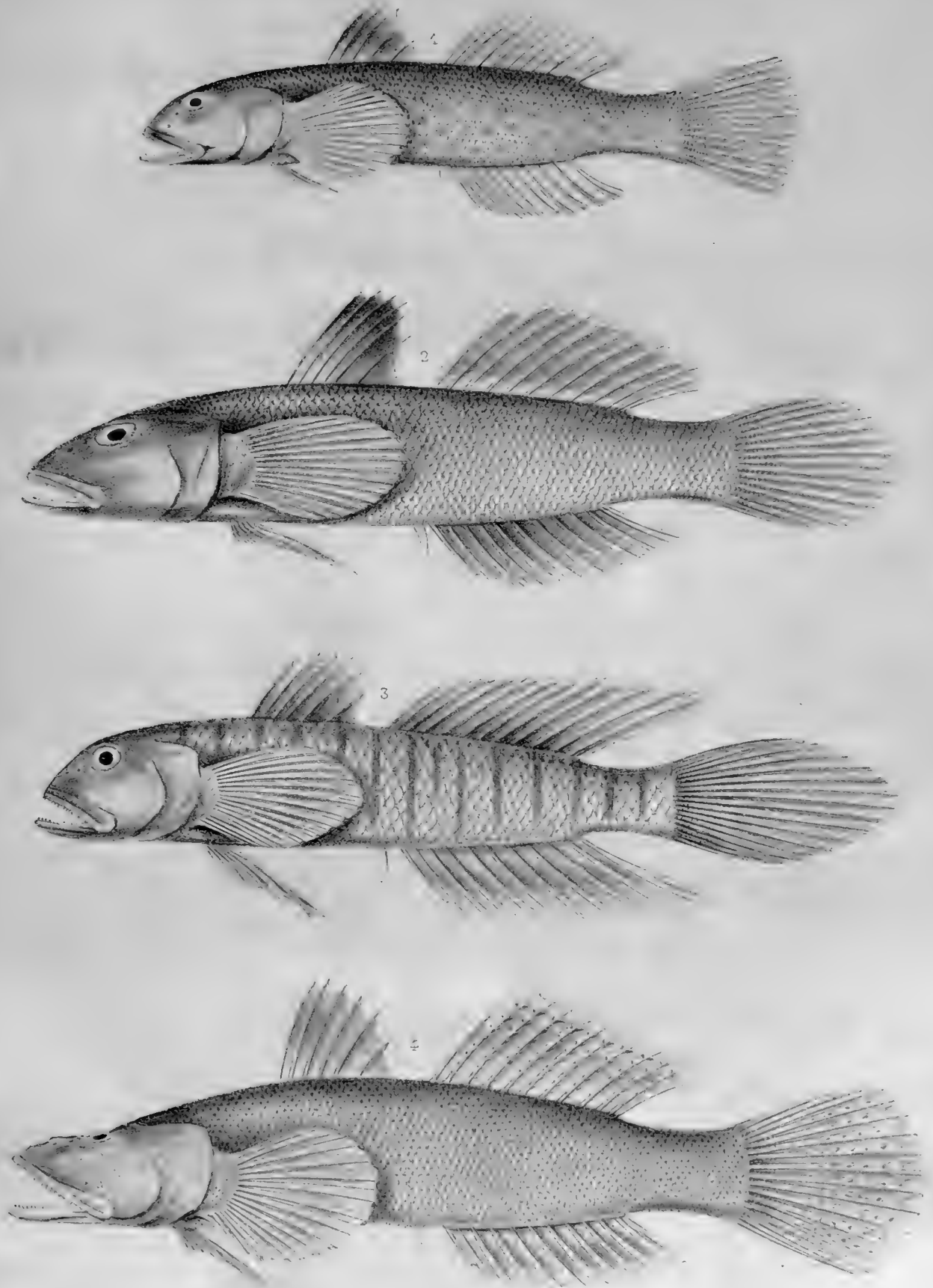




Karmanski lith.

1. *Alticus aspilus*. — 2. *A. monochrus*. — 3. *Gobius auchenotania*. — 4. *G. Vergeri*.  
5. *G. sambiranoensis*. — 6. *G. hypselosoma*. — 7. *G. macrorhynchus*.



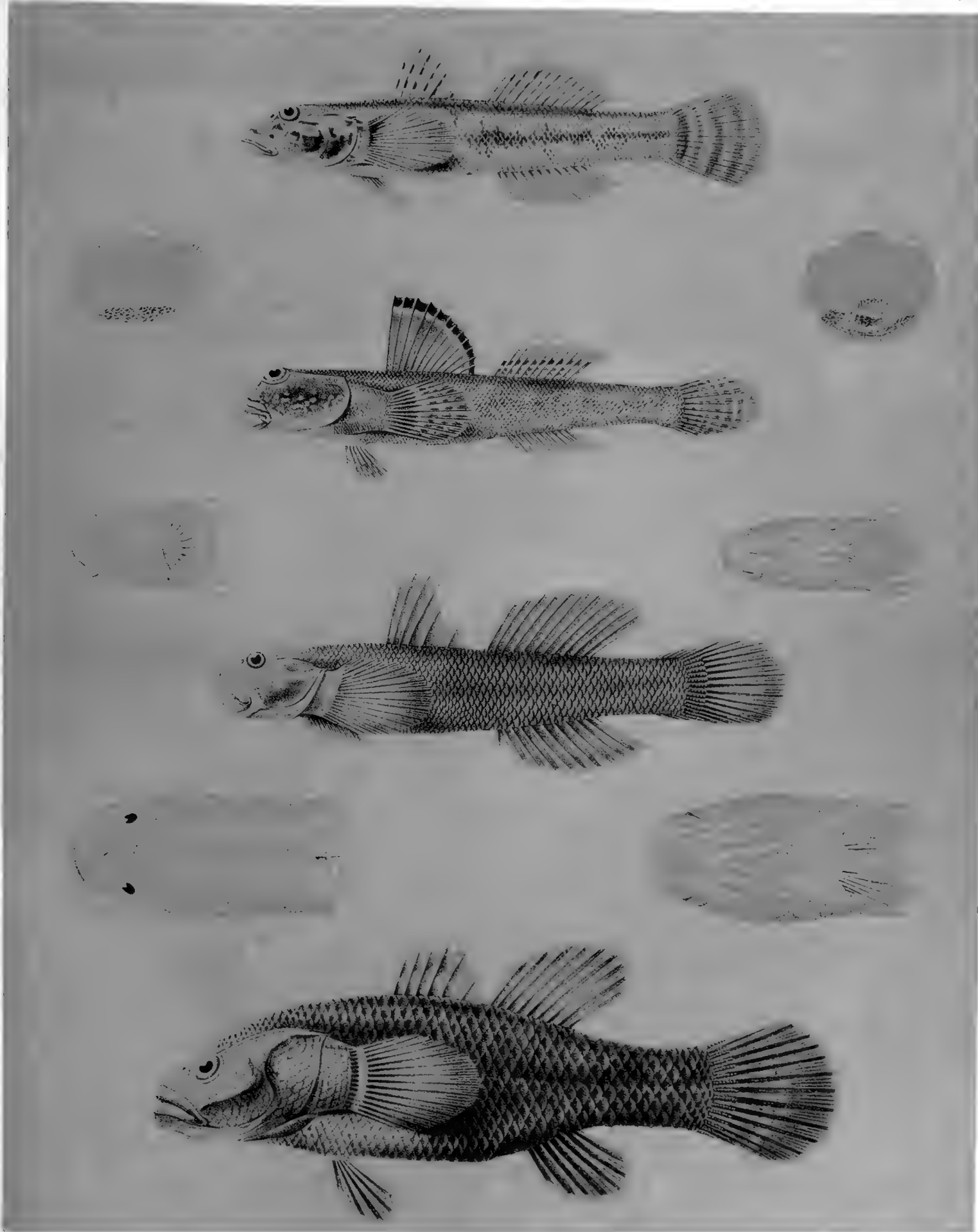


Karmanski ad. nat. del.

Imp. Desquet & Paris

1. *Gobius isognathus*. — 2. *G. melanopterus*. — 3. *G. polyzona*. — 4. *G. madagascariensis*.



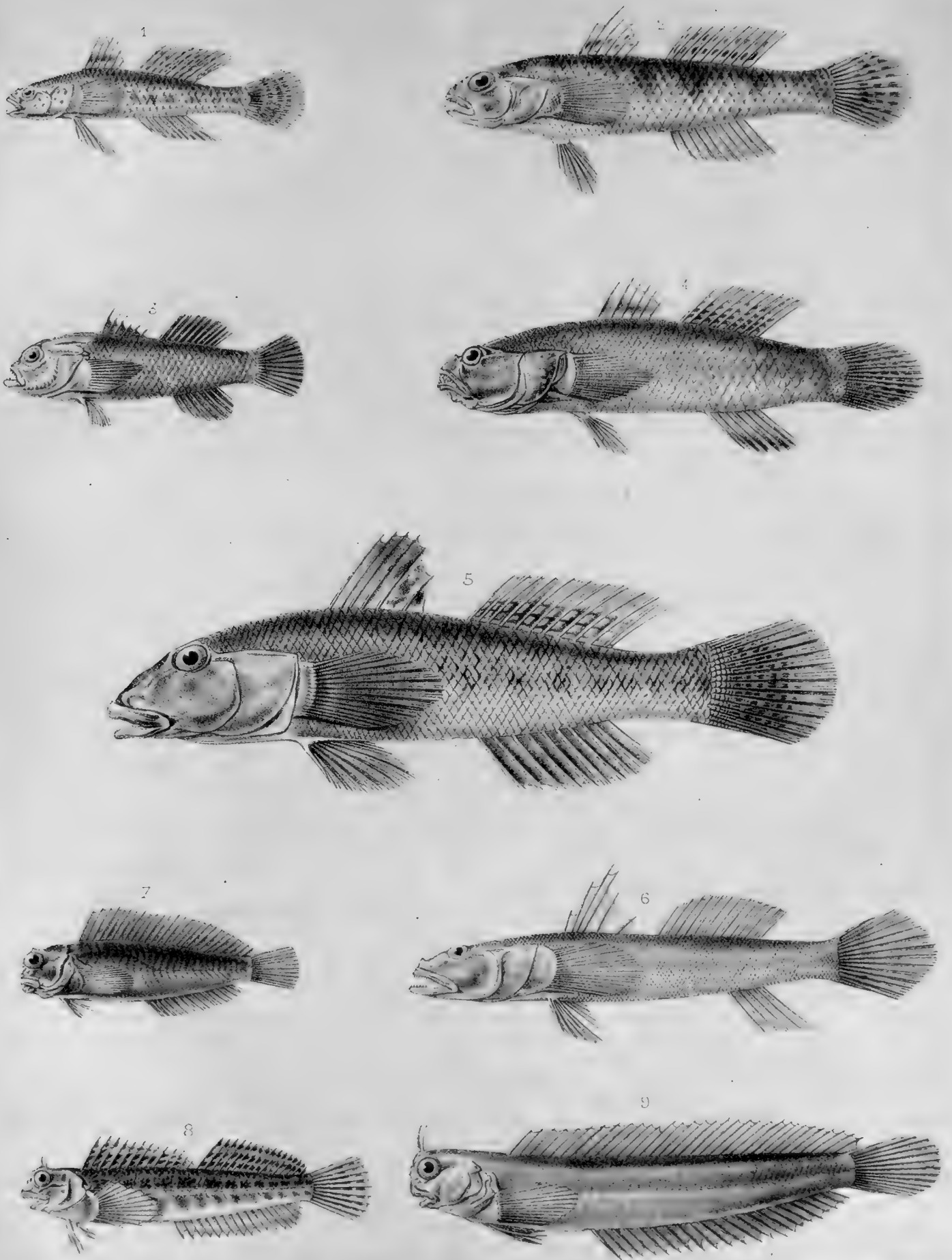


Jobin del.

Arnoul lith.

1. *Eleotris gobioides*. — 2. *Sicydium laticeps*. — 3. *Gobius isognathus*. — 4. *Periophthalmus Kœlreutheri*.





1. *Gobius zanzibarensis*. — 2. *G. brevifilis*. — 3. *G. amiciensis*. — 4. *G. simplex*. — 5. *G. ocellaris*.  
 6. *Eleotris Luntzii*. — 7. *Salaria castaneus*. — 8. *S. striatus*. — 9. *S. oryx*.

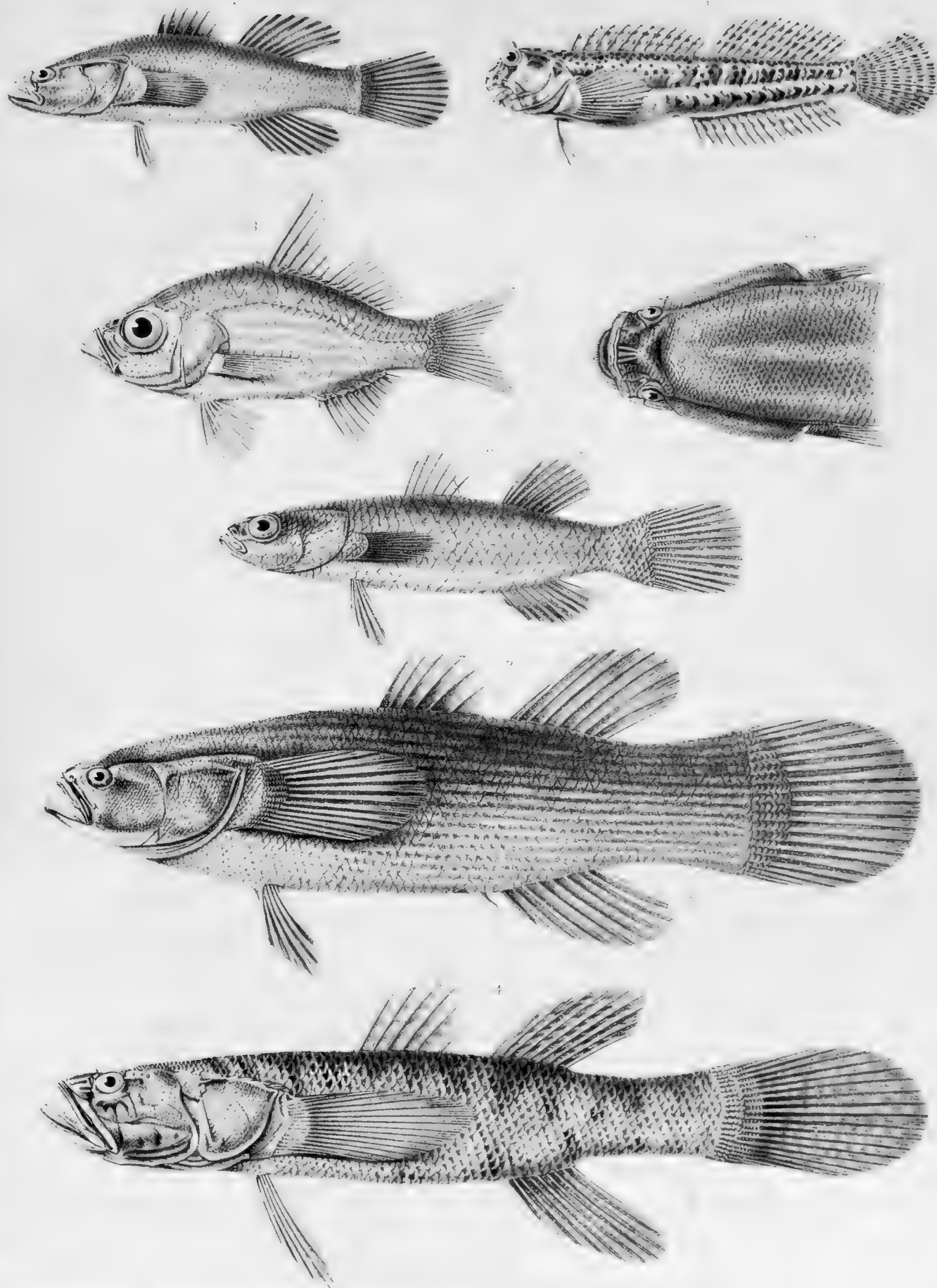
*Gobius zanzibarensis*

*Eleotris Luntzii*

*Salaria oryx*

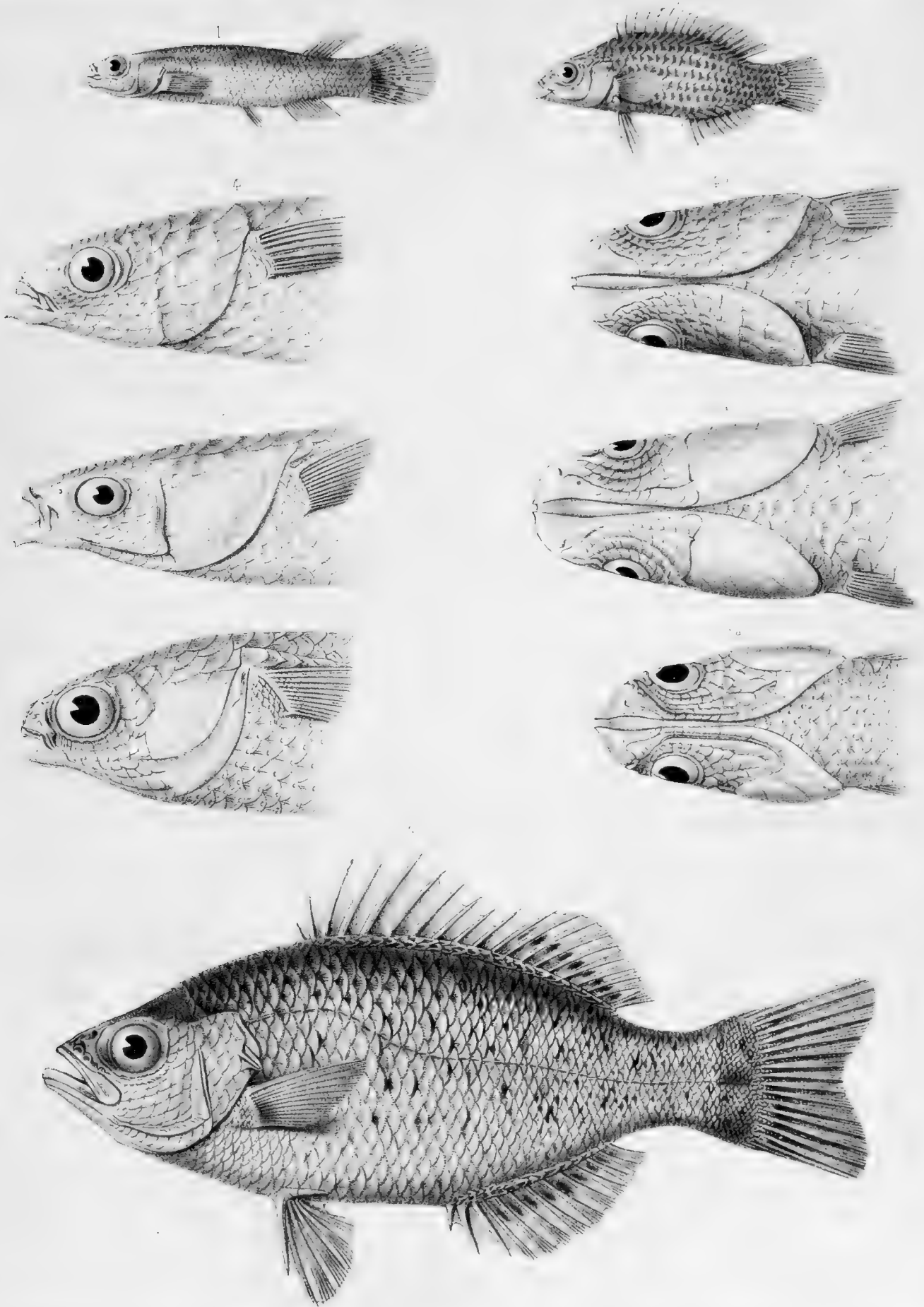






1. *Eleotris fuscus*. — 2. *E. butis*. — 3. *E. ophiocephalus*. — 4. *E. madagascariensis*  
5. *Salurias frenatus* — 6. *Ambassis productus*.

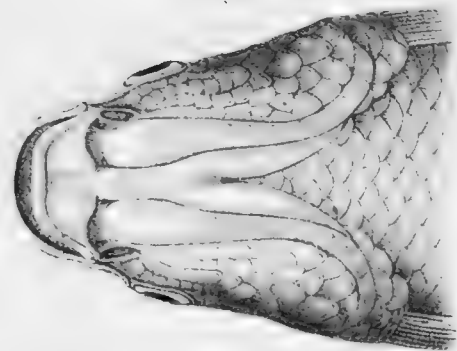
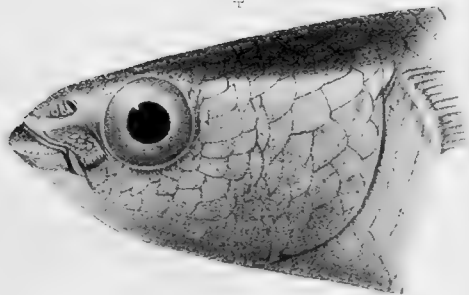
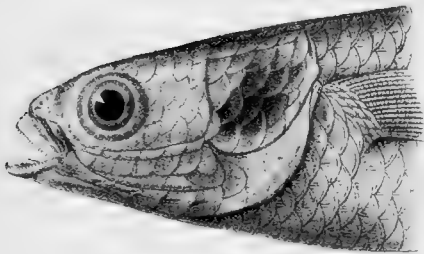
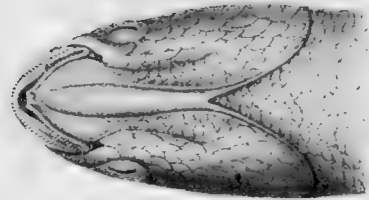




Imp. Bequaert f. Paris

1. *Haplochilus nuchimaculatus*. — 2. *Pseudocheilinus hexatilis*. — 3. *Dules rupestris*. — 4. *Mugil Smithii*.  
5. *M. waigiensis*. — 6. *M. robustus*

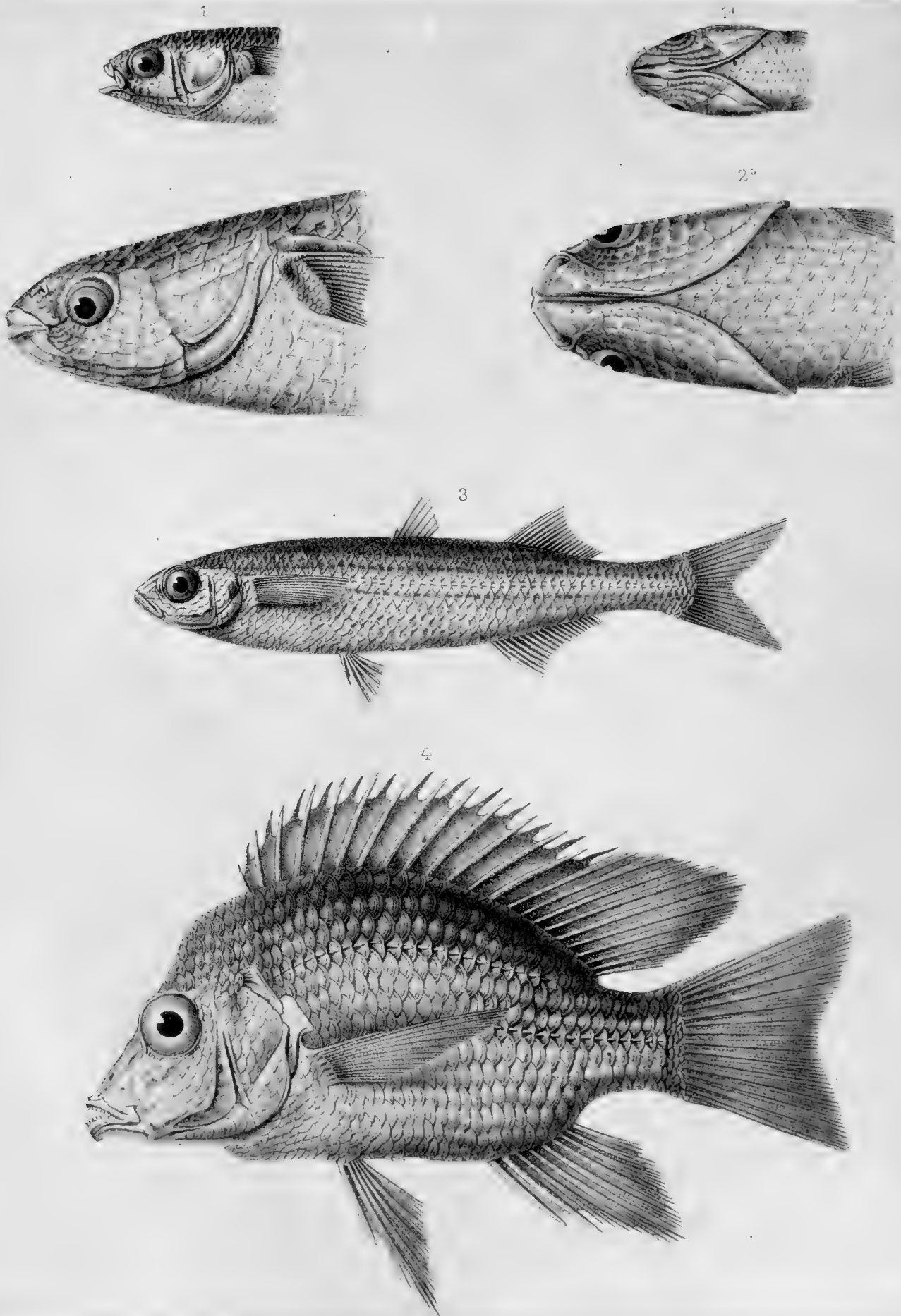




John van

1. *Mugil carinatus*. — 2. *M. cicutiens*. — 3. *M. borbonicus*. — 4. *M. rodericensis*.  
5. *Agonostoma dobulooides*.





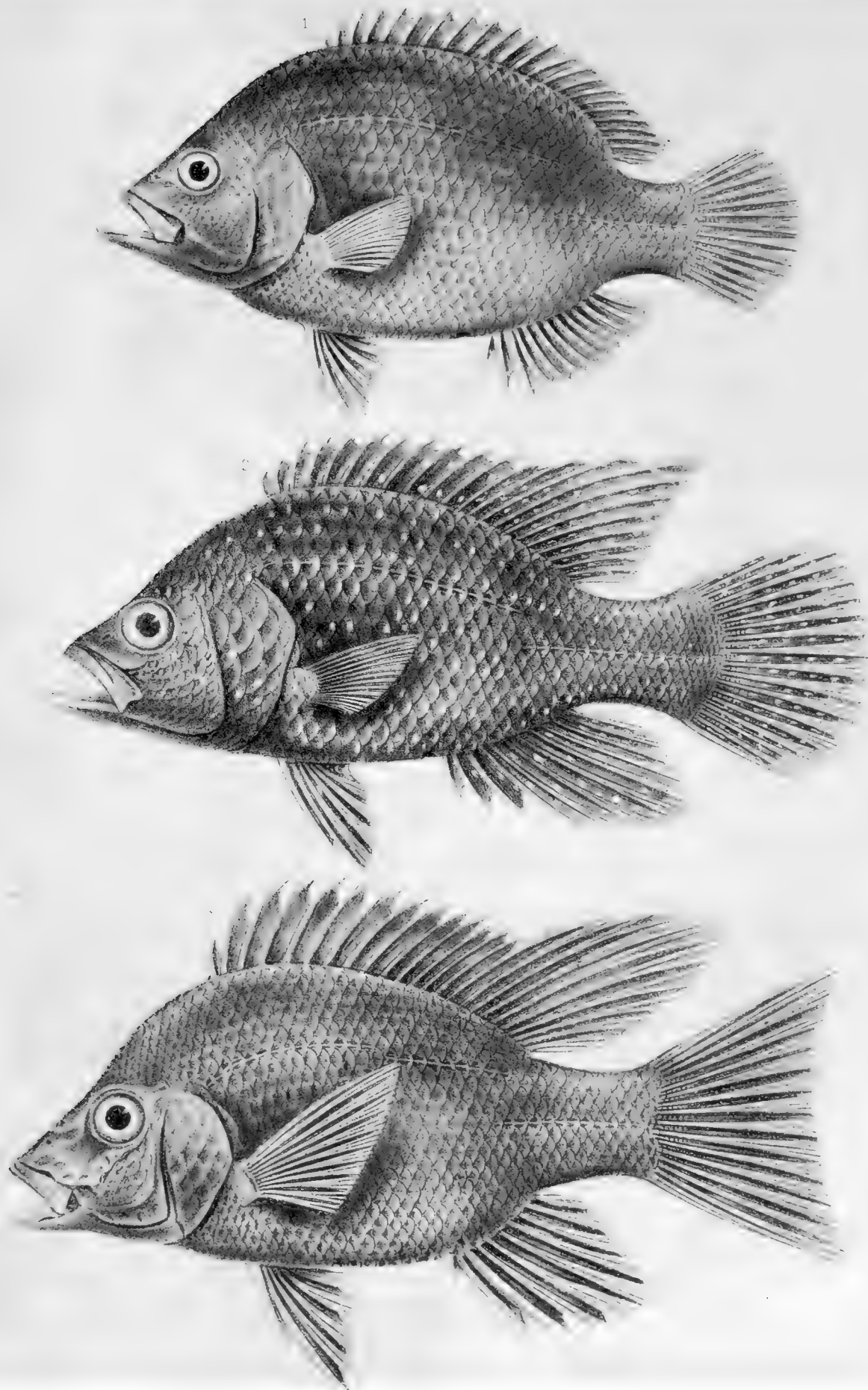
Arnoul lith

Imo Bequaud f. Paris

1. *Mugil axillaris*. — 2. *M. caeruleo-maculatus*. — 3. *Atherina parvipinnis*. — 4. *Paretroplus madagascariensis*.





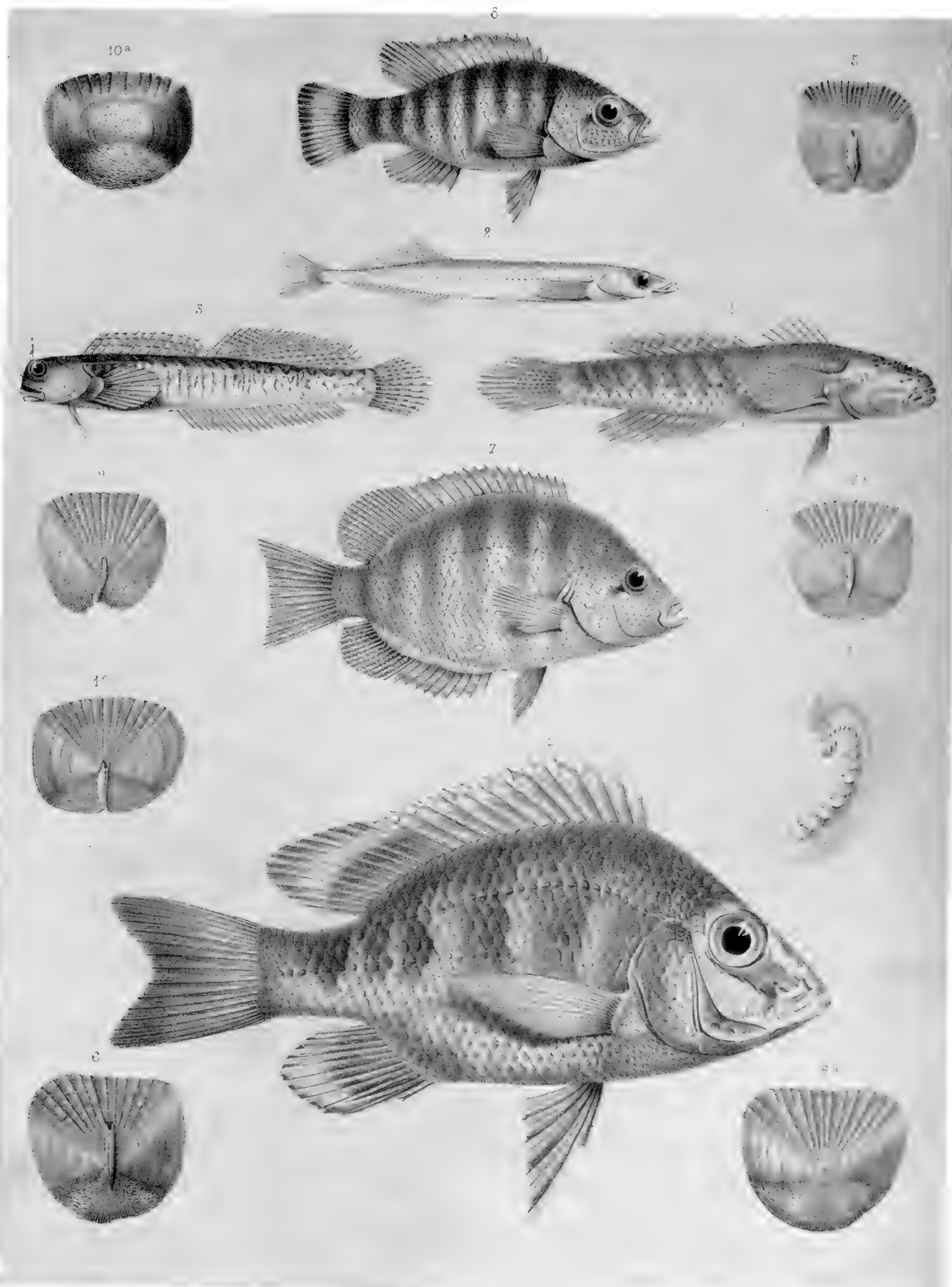


Karmanski ad. nat. libv

Joy. Bequet. G. a. La

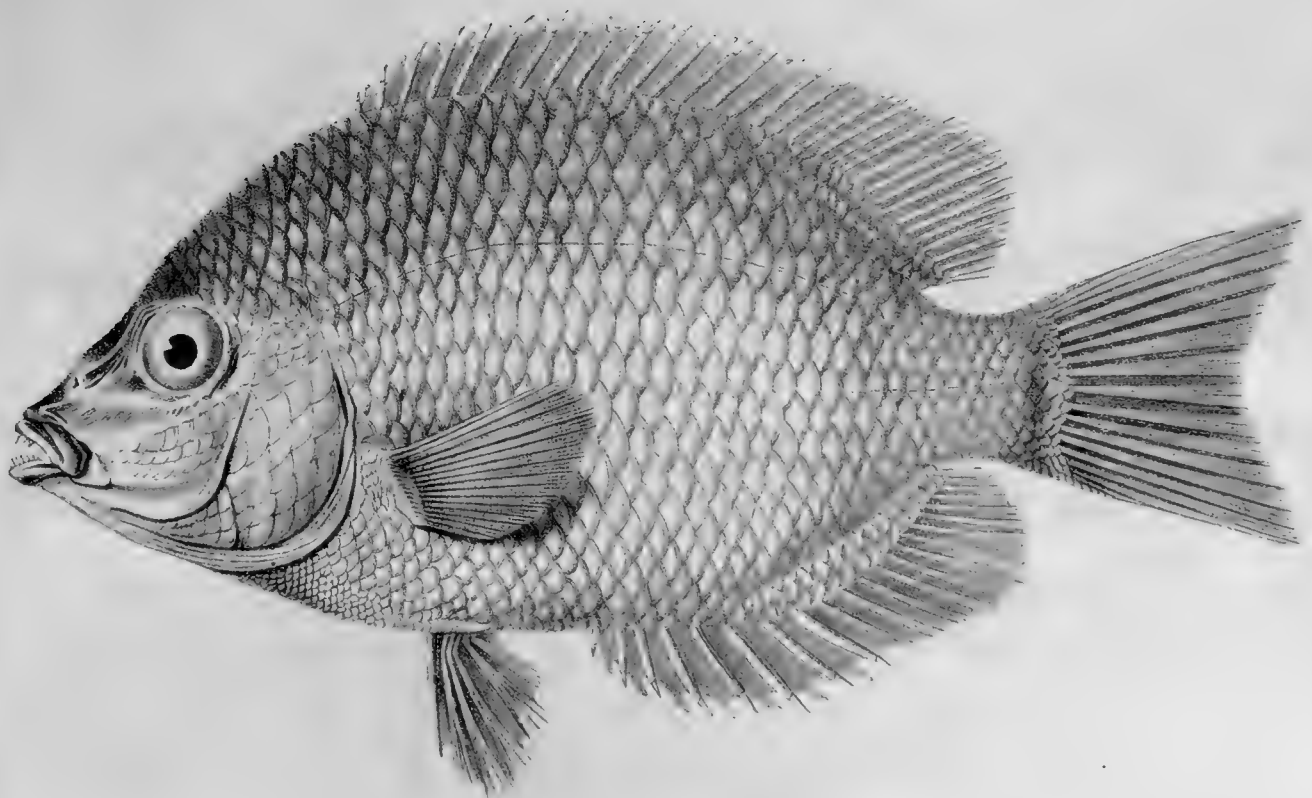
1. *Paratilapia Bleekeri*. — 2. *P. Polleni*. — 3. *Ptychochromis Grandidieri*.



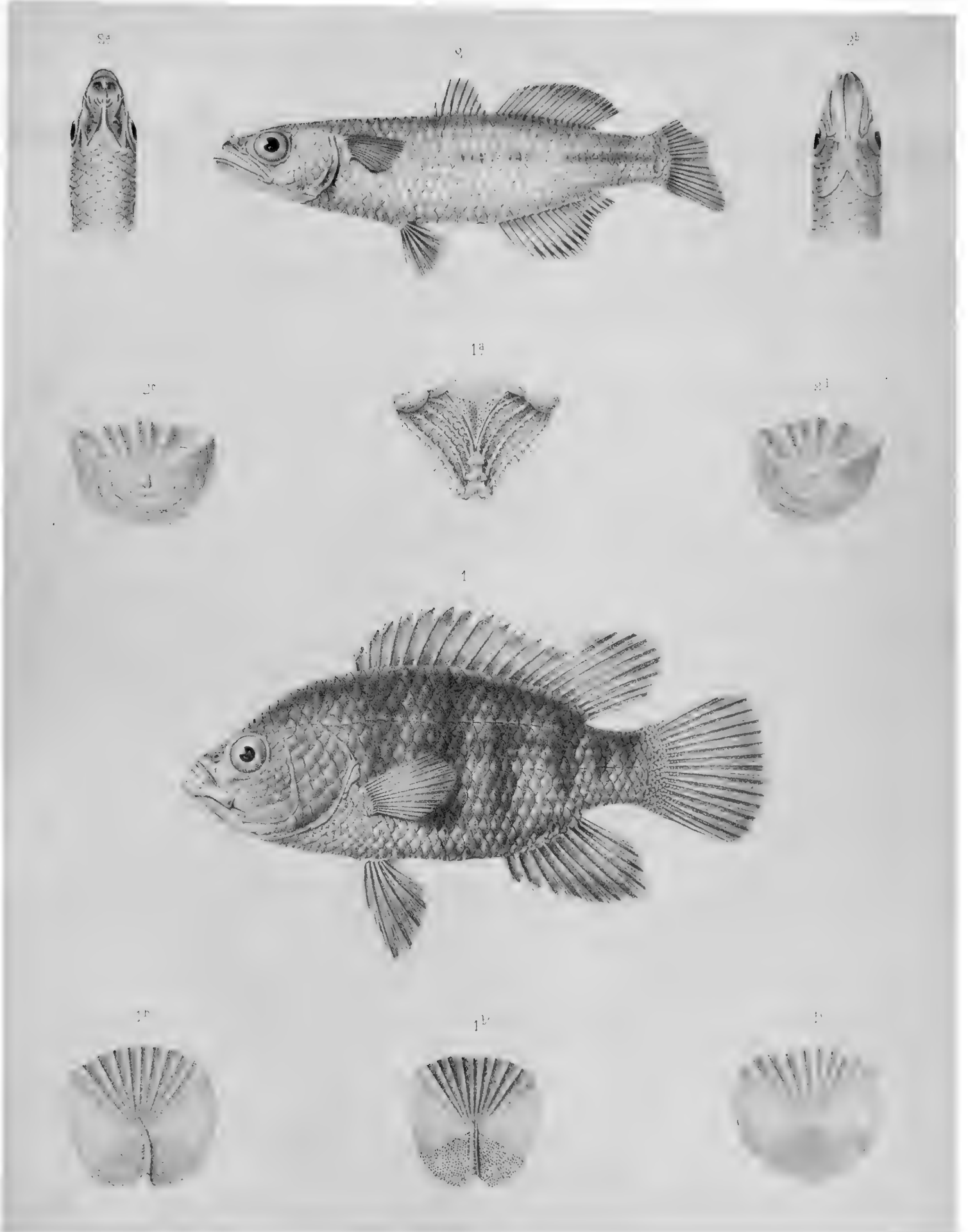


1. *Gobius frenatus*. — 2. *Eleotris Tohizonæ*. — 3. *Salarias striatomaaculatus*. — 4. *Ptychochromis oligacanthus* (ad.). — 5. *Pt. Grandidieri*.  
6. *Pt. madagascariensis*. — 7. *Paretroplus polyactis* (juv.). — 8. *Paracara typus*. — 9. *Paratilapia Polleni*. — 10. *P. Bleekeri*









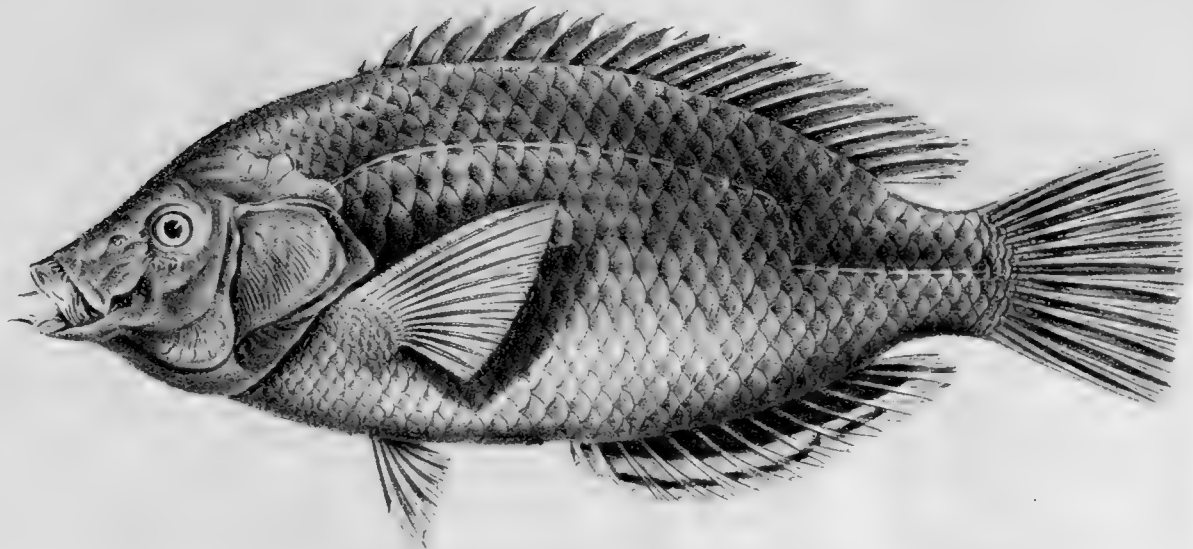
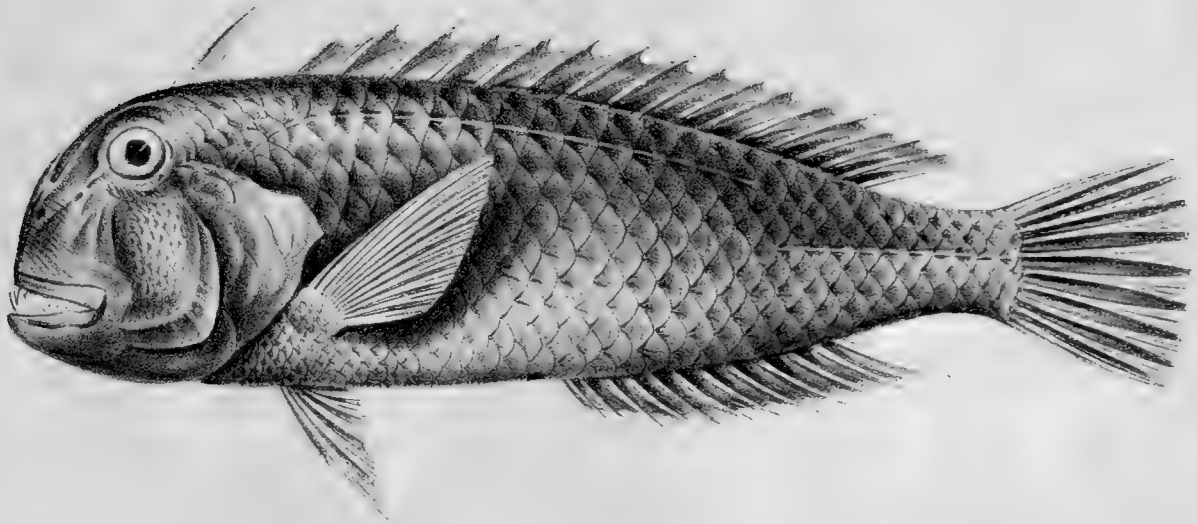
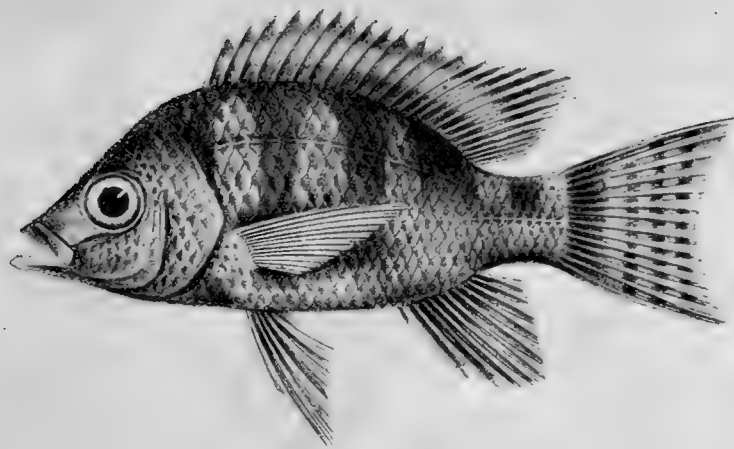
Jobin del.

Arnould lit.

1. *Paracara typus*. — 1<sup>a</sup> id., appareil branchial. — 1<sup>b</sup> id., écailles de la ligne latérale — 1<sup>c</sup> id, écaille ordinaire.  
 2. *Eleotris Sikora*. — 2<sup>a</sup> id., écaille de la ligne latérale. — 2<sup>b</sup> id., écaille ordinaire.



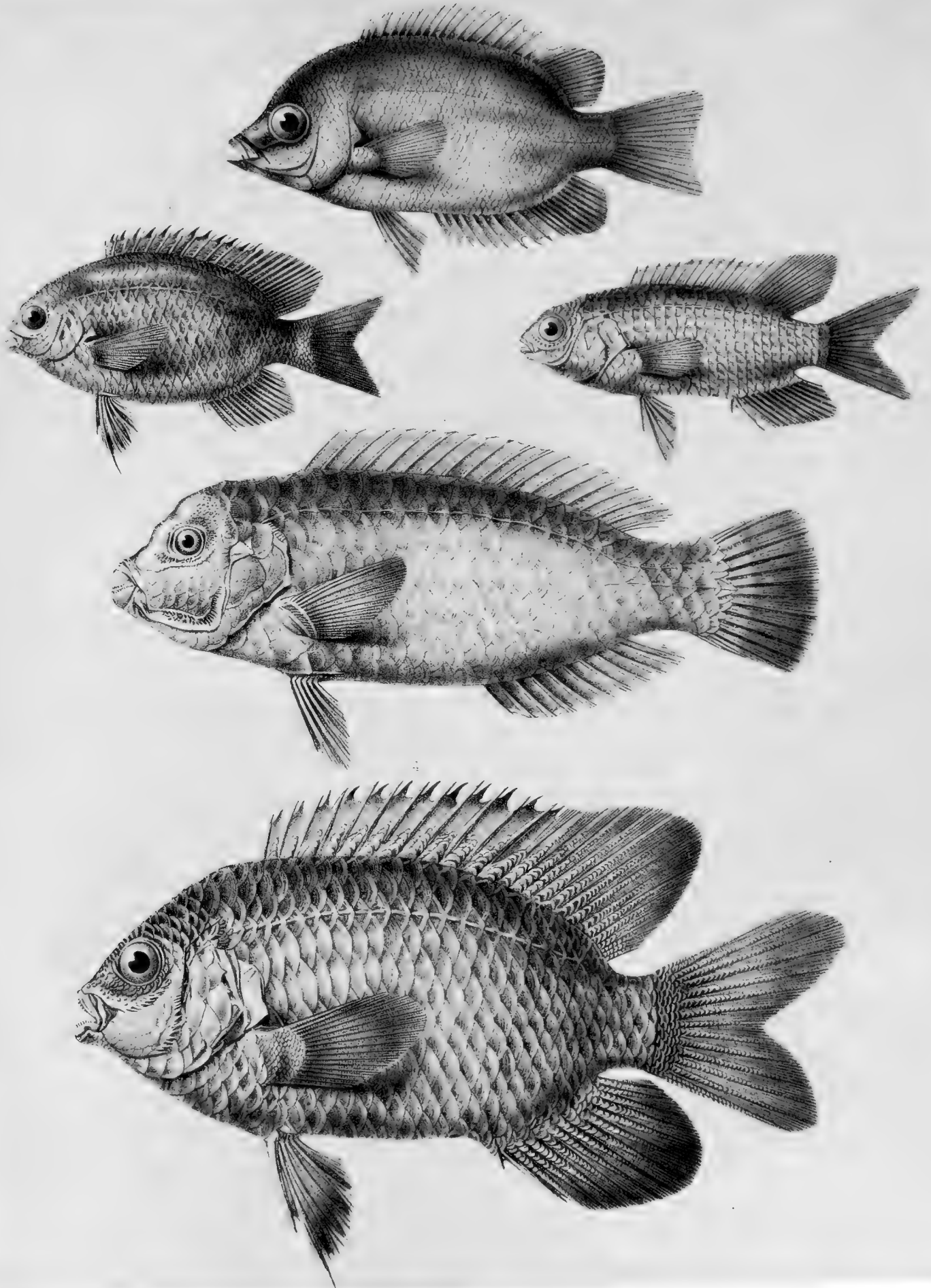




Karrnanski lith

1. *Ptychochromis oligacanthus*. — 2. *Novacula immaculata*. — 3. *Anampses viridis*.



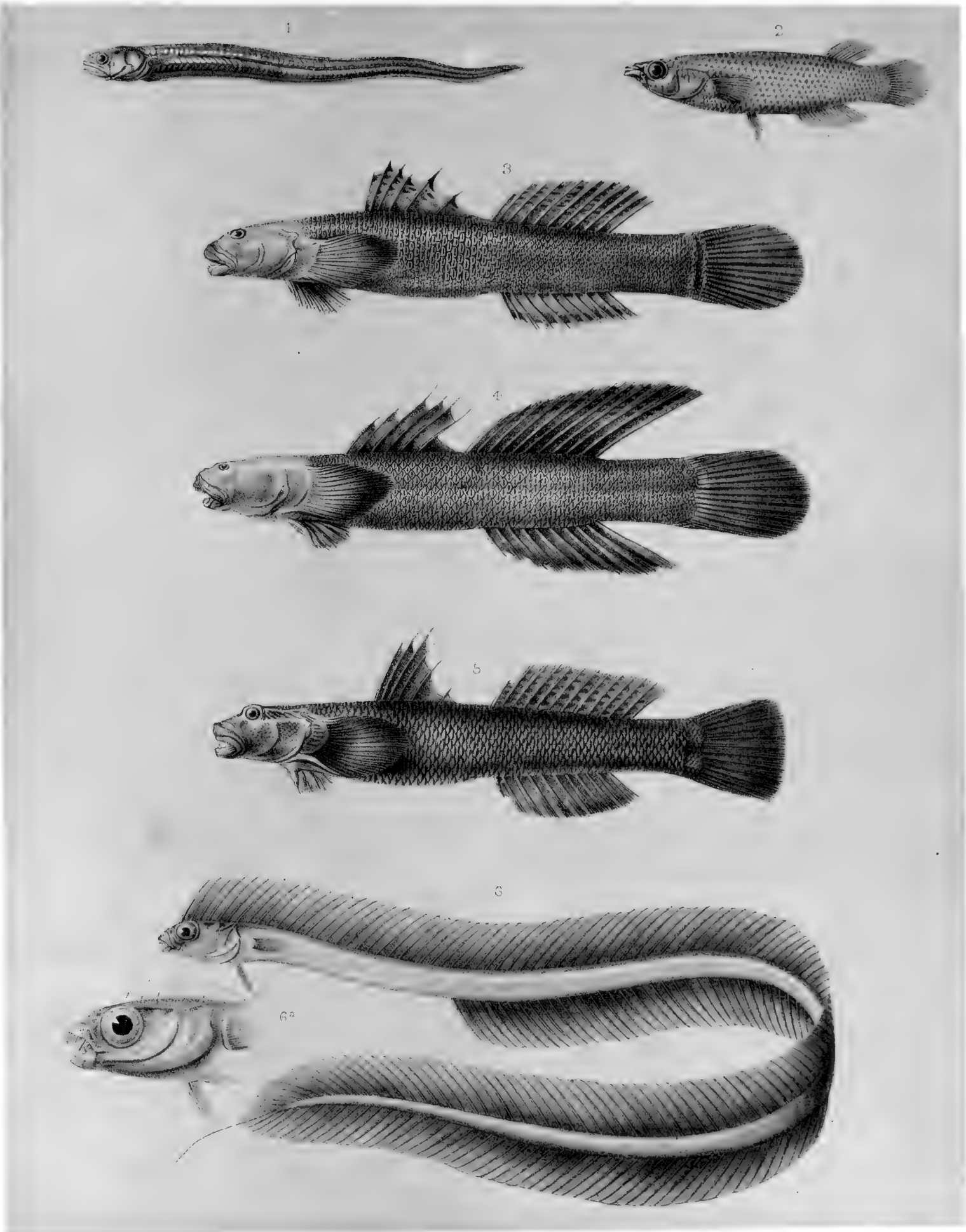


*Jein pua*

*Jein pua*

1. *Paretroplus Vandami*. — 2. *Pomocentrus littoralis*. — 3. *P. madagascariensis*  
4. *P. pristiger*. — 5. *Pseudoscarus cyanescens*.



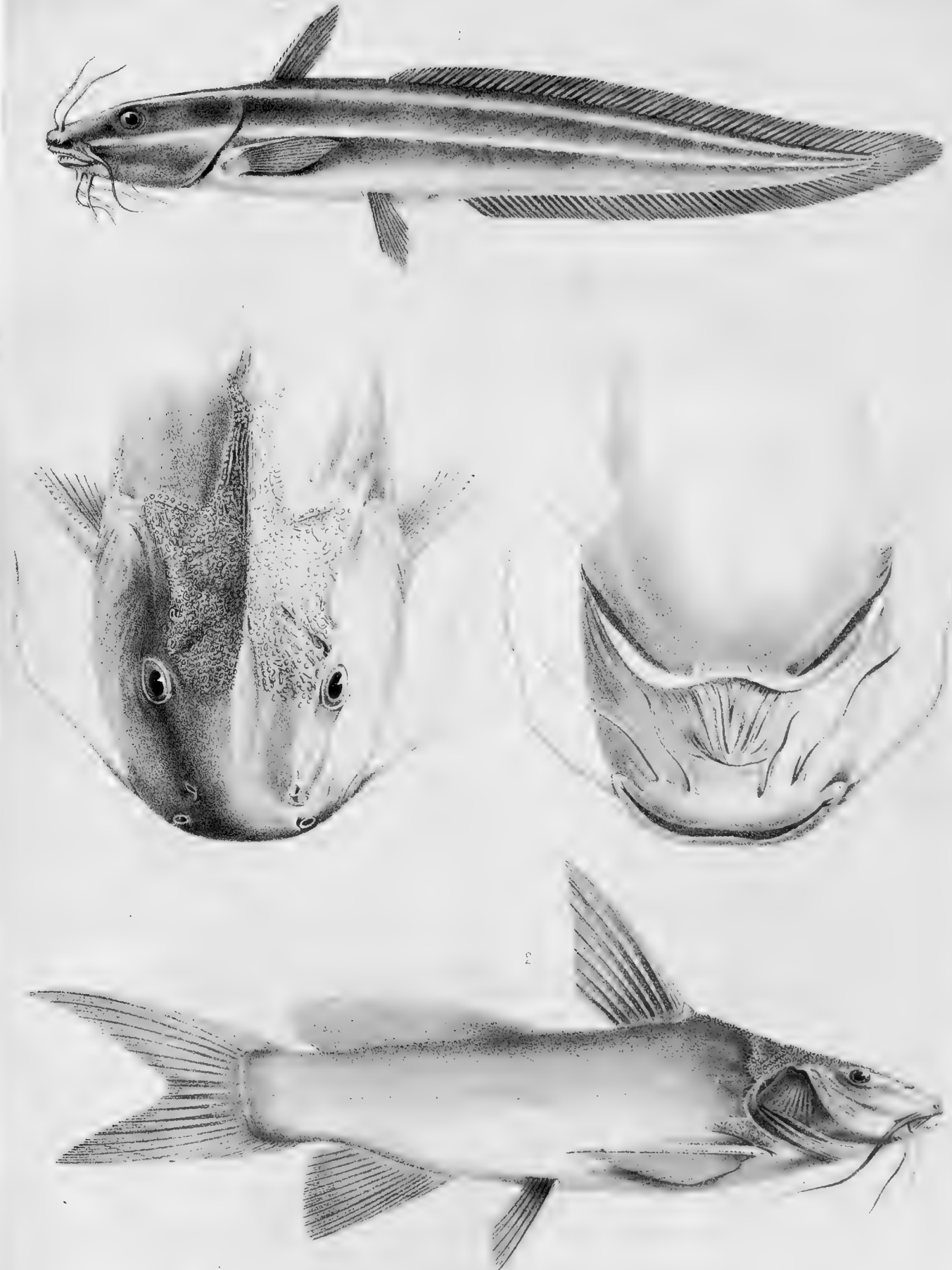


Arnoul lith.

Imp. Mège et Cie.

1. *Fierasfer caninus*. — 2. *Haplochylus homalonotus*. — 3. *Cotylopus parvipinnis*. — 4. *C. acutipinnis*.  
5. *Sicydium laticeps*. — 6. *Nemophis Lessonii*.





1. *Plotosus anguillaris*. — 2. *Ancharius fuscus*.





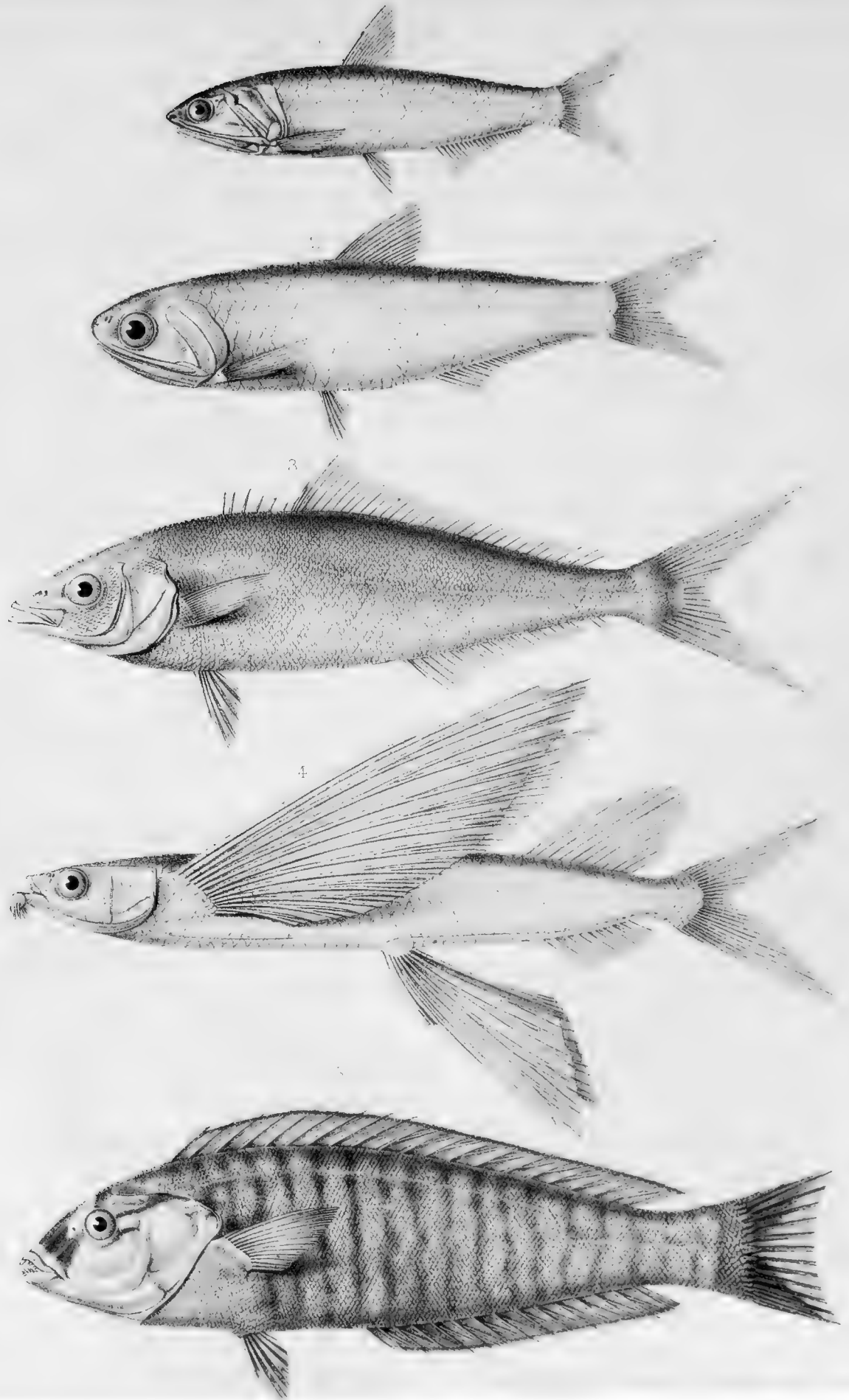


Arnon Lith.

Imp. Boquet fr. Paris

1. *Laimumena borbonica*. — 2. *Spratelloides madagascariensis*. — 3. *Hurangula spilura*.  
4. *H. melanura*. — 5. *Argyrolepecus aculeatus*.

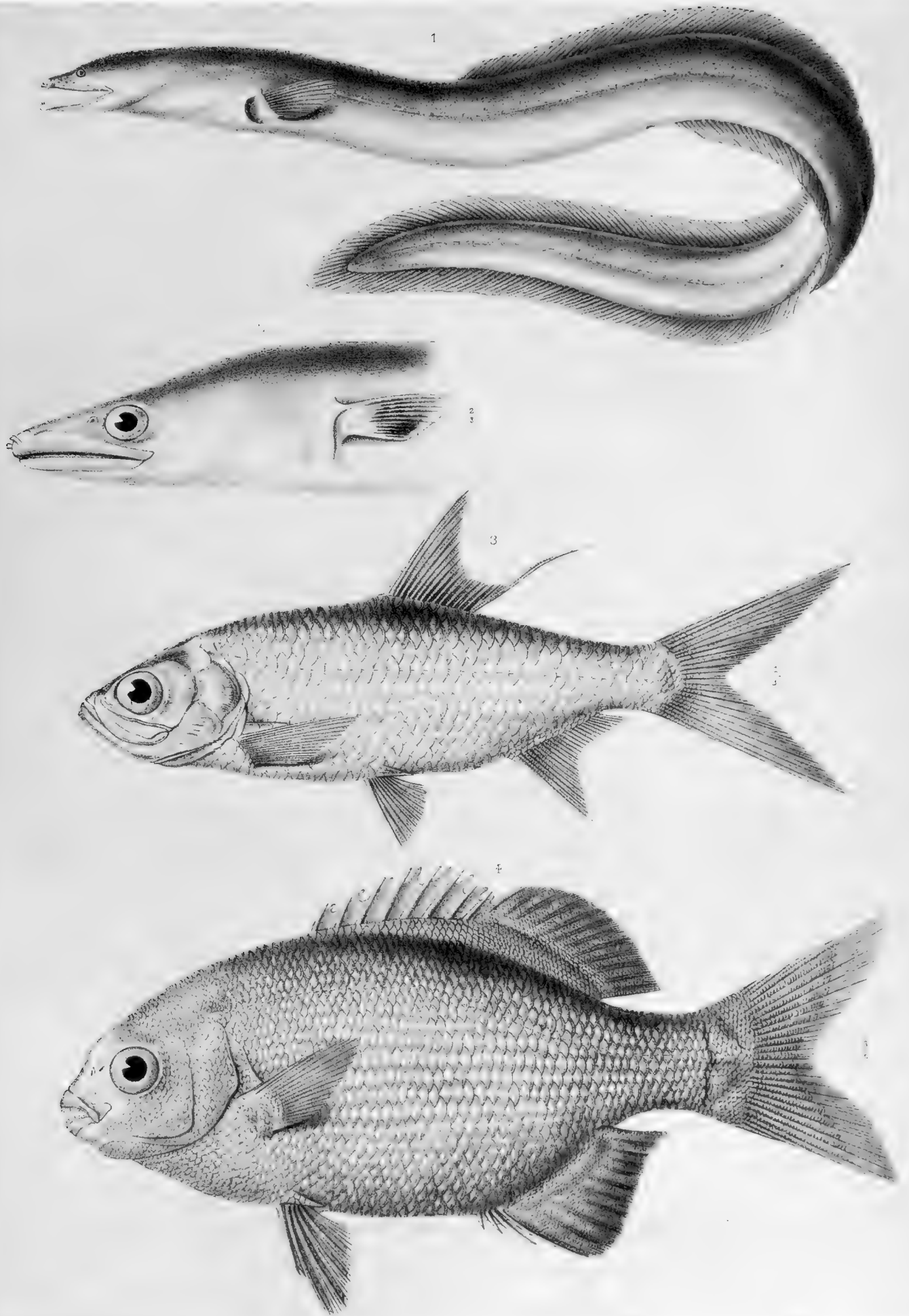




John van

1. *Engraulis baelama*. — 2. *E. polynemoides*. — 3. *Seriolichthys indicus*. — 4. *Exocoetus Solandri*.  
5. *Coris dolabata*.



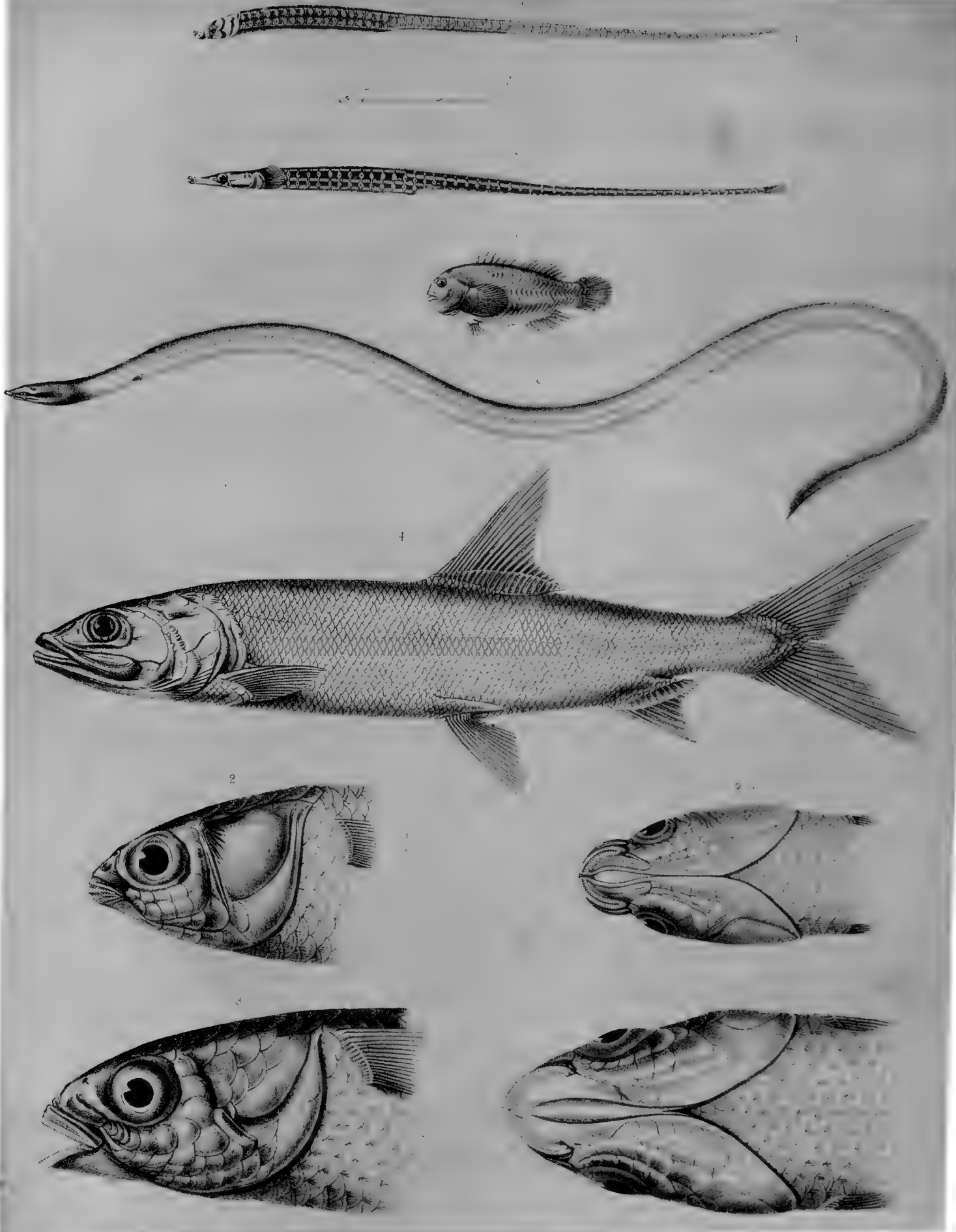


Jobin pinx!

Imp. Bezuel fr. Paris

1. *Anguilla Hildebrandtii*. — 2. *Conger marginatus*. — 3. *Megalops indicus*. — 4. *Pimelepterus altipinnoides*.





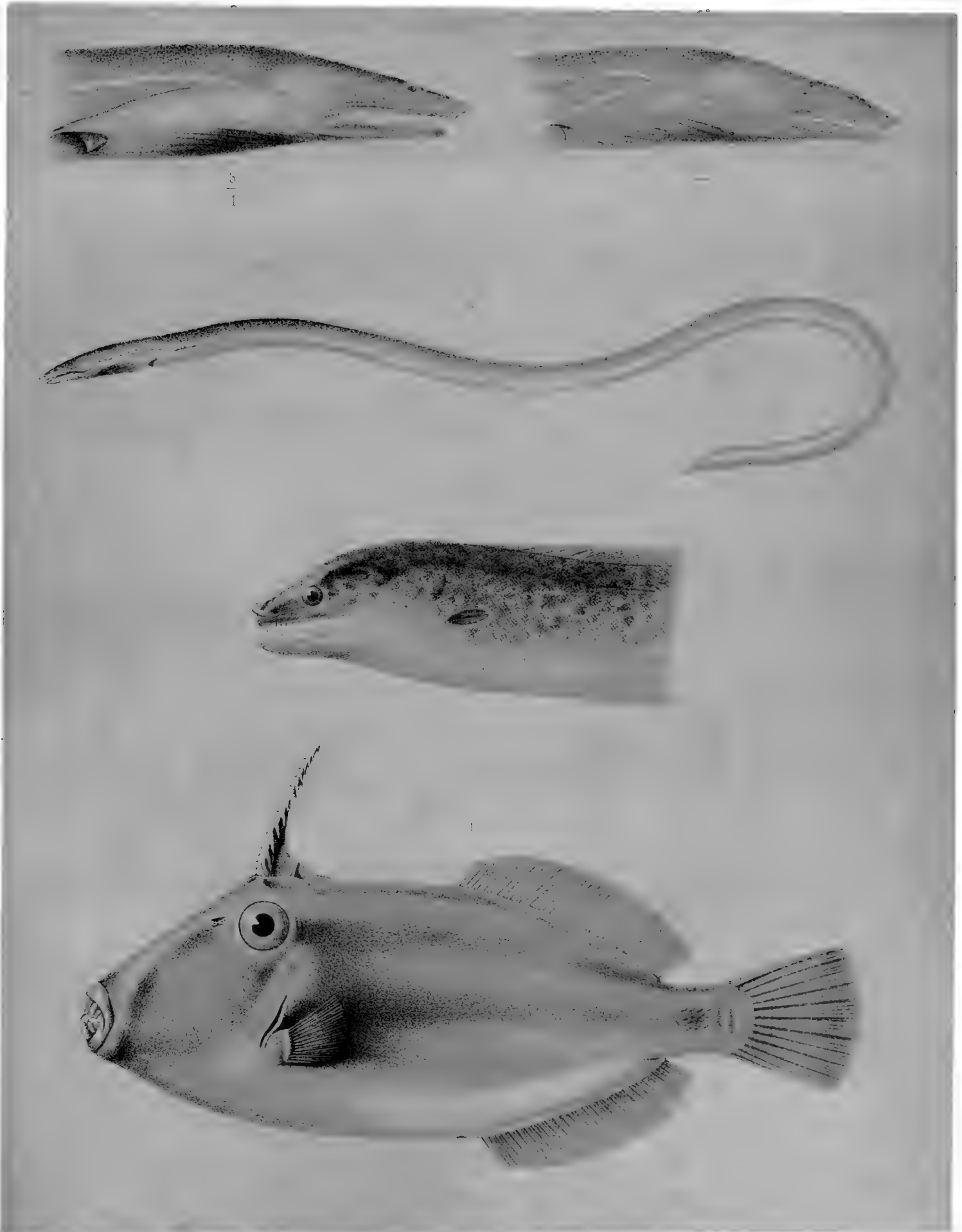
Jobin del

Lap. Bequet, fr. Paris

1. *Gobiodon coryphienula*. — 2. *Mugil cephalotus* (jeune). — 3. *Id.* (adulte). — 4. *Elops saurus*. — 5. *Opluchys orientalis*.  
6. *Colonotus Vaillanti*. — 7. *Penetopteryx tenuicephalus* (gr. nat.) — 7<sup>o</sup> *Id. grossi*







Jobin del.

Arnoul lith.

1. *Monacanthus Freycineti*. — 2. *Gymnothorax mauritianus*. — 3. *Ophichthys orientalis*. — 4. *O. fuscus*.





1



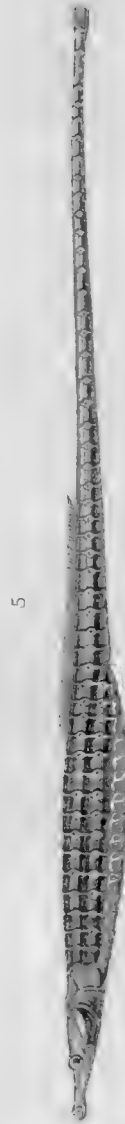
2



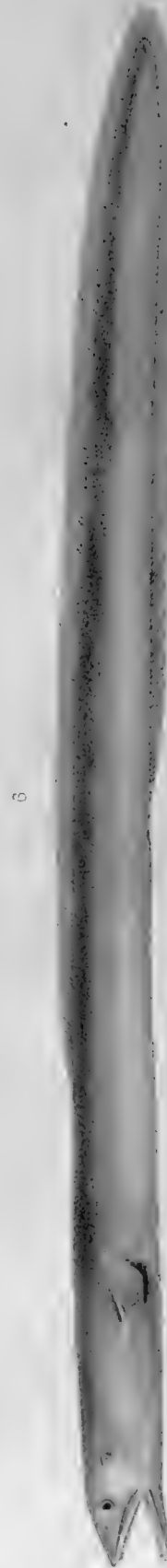
3



4



5



6

1. *Solenostomus Bleekeri*. — 2. *Hippocampus borboniensis*. — 3. *Synnathus Coquerelii*.  
 4. *S. murana*. — 5. *Hem. leucispis*. — 6. *Anguilla Lalandei*.



Carded

540

HISTOIRE  
PHYSIQUE, NATURELLE ET POLITIQUE  
DE  
MADAGASCAR

PUBLIÉE  
PAR ALFRED GRANDIDIER.

VOLUME XVI.  
HISTOIRE NATURELLE DES POISSONS

PAR  
M. H. SAUVAGE.

2<sup>e</sup> PARTIE. — ATLAS. — II.

19<sup>e</sup> fascicule.



PARIS.

IMPRIMÉ, PAR AUTORISATION DE M. LE GARDE DES SCEAUX,

À L'IMPRIMERIE NATIONALE.

M DCCCLXXXVIII.







# MADAGASCAR.

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