

# Notes on the status of the names of fishes presented in the *Planches de Seba* (1827-1831) published by Guérin-Méneville

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## ABSTRACT

The *Planches de Seba* were published in 48 issues (livraisons) between 1827 and 1831 under the direction of Guérin-Méneville. Livraison 13 contains two sheets (eight pages) of text dealing with plates 1 to 48 of volume 3 of Seba's *Locupletissimi rerum naturalium Thesauri* (1759). Plates 23 through 34 depict fishes. No types are known for these specimens. Examination of the text published in the *Planches de Seba* reveals the presence of 94 specific names of fishes. The present status of each of them is reported. In particular, we found that 16 binomina represent original combinations and all but one (*Anampses moniliger*) have never been recorded in the ichthyological literature, with *Planches de Seba* as reference. Except for one name (*Amphiprion albiventris*), which is completely unknown in the literature, all other names bear the date of the original description of well established fish names. Based on the current status of these names, the predated names found in the *Planches de Seba* are here regarded either as junior synonyms (*Agonus europaeus*, *Amphisilia velitaris*, *Chaetodon sebanus*, *Diagramma lineatum*, *D. pica*, *D. poecilopterum*, *Holocentrus orientale*, *Mesoprion annularis*, *Pomacanthus cingulatus*, *Premnas trifasciatus*, *P. unicolor* and *Serranus taeniops*) or senior synonyms (*Chaetodon sebae* and *Caranx fallax*) of well known fish species. For these two latter names, in accordance with the *International Code of Zoological Nomenclature*, an action was undertaken to set aside the automatic application of Principle of Priority to allow prevailing usage of the current names to be maintained.

## KEY WORDS

Pisces,  
fishes,  
Seba,  
nomenclature,  
history.

## RÉSUMÉ

*Notes sur le statut des noms de poissons présentés dans les Planches de Seba (1827-1831) publiées par Guérin-Méneville.*

Les *Planches de Seba* ont été publiées en 48 livraisons, entre 1827 et 1831, sous la direction de Guérin-Méneville. La livraison 13 contient deux feuillets, soit huit pages de textes concernant les planches 1 à 48 du volume 3 de *Locupletissimi rerum naturalium Thesauri* de Seba (1759). Les planches 23 à 34 représentent les poissons. Aucun type n'est connu pour ces spécimens. L'examen du texte publié dans les *Planches de Seba* révèle 94 noms d'espèces de poissons. Le statut actuel de chacune d'elles est rapporté. En particulier, nous avons trouvé que 16 binoms représentent une combinaison originale et tous sauf un (*Anampses monilier*) n'ont jamais été cités dans la littérature ichthyologique avec *Planches de Seba* comme référence. Excepté pour un nom (*Amphiprion albiventris*) qui est complètement inconnu dans la littérature, tous les autres noms portent la date de la description originale qui a défini le nom du poisson. En se fondant sur le statut actuel de ces noms, les noms historiques trouvés dans les *Planches de Seba* sont considérés ici comme des synonymes plus récents (*Agonus europaeus*, *Amphisilia velitaris*, *Chaetodon sebanus*, *Diagramma lineatum*, *D. pica*, *D. poecilopterus*, *Holocentrus orientale*, *Mesoprion annularis*, *Pomacanthus cingulatus*, *Premnas trifasciatus*, *P. unicolor* et *Serranus taeniops*) ou comme des synonymes plus anciens (*Chaetodon sebae* et *Caranx fallax*) d'espèces bien connues de poissons. Pour ces deux derniers noms, en accord avec le *Code international de nomenclature zoologique*, une action a été entreprise pour les écarter de l'application du Principe de Priorité afin de maintenir l'emploi des noms à usage prédominant.

## MOTS CLÉS

Pisces,  
poissons,  
Seba,  
nomenclature,  
histoire.

## INTRODUCTION

When the entomologist Félix Édouard Guérin-Méneville (1799-1874) found the copper plates of Albertus Seba's *Locupletissimi rerum naturalium thesauri* in the Muséum national d'Histoire naturelle, Paris, he decided to publish them again accompanying the figures with a completely new text, for which he sought the collaboration of many illustrious French zoologists (Holthuis 1969). The work collected in a book known as *Planches de Seba, Locupletissimi rerum naturalium thesauri accurata descriptio, accompagnées d'un texte explicatif mis au courant de la science et rédigé par une réunion de Savans* was issued in 48 livraisons published between August 1827 and June 1831 (Holthuis 1969). Despite the initial purpose of Guérin-Méneville (for further details see Holthuis 1969) no text other than that issued in livraison 13 has appeared (Cuvier *et al.* 1828). The publication of

livraison 13 was mentioned in the November issue of de Férussac's *Bulletin* (Anonymous 1828: 284), thus Holthuis (1969) presumed that "the actual date may have been slightly, but not much, earlier". The *texte explicatif* starts with a short summary of Seba's observations on jellyfishes and is followed by the explanation of plates 1 to 48 of volume 3 of the *Thesaurus*. For each species the polynomial nomenclature used by Seba is reported. The polynomial name is followed, where Cuvier was able to identify the specimen, by a binomial latinized name and abbreviated authorship. The fish section starts on plate 23 and was prepared by Georges Cuvier, as shown by the presence of his abbreviated name ("Cuv."), which accompanies the species names he regarded as new. This action renders all binomial names available for usage. Recently, Müsch *et al.* (2001) discussed the status of Seba's fishes, but failed to mention the existence of Cuvier's work.

Among the 140 fishes illustrated by Seba from plates 23 to 34, Cuvier was able to identify 108 specimens (15 of which are duplicates), giving them an appropriate binomial name, whereas 32 were identified only to the genus level. Among the identified specimens, the names of 36 bear Cuvier as author and a number of these are new combinations, but the majority of them represent new names at the time of the publication of the *Planches de Seba*. In several instances, these names predate names later published in *Le règne animal* (Cuvier 1816, 1829) or in volumes of the *Histoire naturelle des Poissons* (Cuvier & Valenciennes 1828-1850). The aim of this work is to discuss the status of these names.

## MATERIAL AND METHODS

As no types are available for the fishes named by Cuvier in the *Planches de Seba*, identification was made possible through comparison of drawings and examination of original Latin descriptions.

## RESULTS

A complete list of names published in the *Planches de Seba* is given in Table 1, together with their present status, including those species described and figured by Albertus Seba, as later identified by Cuvier (1816, 1829). These include fishes figured from plate 23 to 34 of the third volume of Seba's *Thesaurus* (1759). Five lophiiform fishes are figured on plate 74. They are not treated by Cuvier and are not discussed in the present work. The species shown on plates 23 through 34 have been reallocated to their own genus according to current knowledge of fish taxonomy (see Eschmeyer 1998). For comparison the conclusions reported by Müsch *et al.* (2001) in their text accompanying the reprint edition of the Seba's *Thesaurus* are included. Our results can be summarized as follows. Plates 23 and 24 illustrate 27 tetraodontiforms, of which four still remain unidentifiable to the species level. Plate 25 contains 19 perciform species: all of them have been identified. Discrepancies between our study

and that of Müsch *et al.* (2001) are evidenced for species 2, 3, 13, 14, and 18 described in plate 25. Perciform fishes are again illustrated in plates 26 and 27, including 19 and 18 species, respectively. Some of them are poorly illustrated and described, and could not be identified at the species level in the present work. Cuvier too was unable to distinguish most of them. He introduced a new name, *Amphiprion albiventris*, for the fishes illustrated on plate 26, (figures 22 to 24), which, however, represent distinct species (G. R. Allen pers. comm.). In particular, they represent two unidentifiable species of the *Amphiprion clarkii* species complex (figures 22, 24), whereas figure 23 depicts *Dascyllus aruanus*. Plate 28 contains seven scorpaeniforms representing several well known species. Siluriforms are represented by a large number of specimens on plate 29, which also includes representatives of four unrelated species (two unidentified gobiids and two easily recognizable species, *Chaetodon trifasciatus* and *Acipenser sturio*). Plate 30 is dedicated to the Blennioidei (mostly Clinidae, with the inclusion of the dragonet *Callionymus lyra*) and plate 31 to the Labridae, with several unidentifiable specimens. Plate 32 illustrates gymnotiforms and plates 33 and 34 show representatives of several different orders of fishes, all easily identifiable.

Positive identification of the fishes described and illustrated by Seba is of relevance for taxonomists, in particular because Cuvier was the first to study these specimens and apply to them Linnean binomial nomenclature. As listed in Table 1, the *Planches de Seba* contain 32 binomial accompanied by the label "Cuv." (excluding duplicates). They can be grouped as follows: 1) names already published by Cuvier in previous works (*Diodon punctatus*, *D. tigrinus*, *D. triaedicus*, *D. spinosissimus*, *Diacope sebae*, and *Chaetodon baro*); 2) new combinations (*Acanthurus lineatus*, *Diagramma pictum*, *Heniochus cornutus*, *H. macrolepidotus*, *Percis cylindrica*, *Pomacanthus arcuatus*, *Pristipoma coro*, and *Scyllium tigrinum*); 3) homonyms (*Chaetodon striatus* and *Polynemus paradiseus*); 4) names that predate their subsequent publication in the *Histoire naturelle des Poissons* and currently regarded as junior synonyms of well established species (*Agonus europaeus*, *Amphisilia velitaris*, *Chaetodon sebanus*, *Diagramma*

TABLE 1. — The fishes described and figured by Seba. Comparison of the names erected by Cuvier (Cuvier *et al.* 1828), reported by Müsch *et al.* (2001), and present identification. Abbreviations: **Bl.**, Bloch; **Cuv.**, Cuvier; **Frsk.**, Forsskål; **Gm.**, Gmelin; **L.**, Linnaeus; **Lac.**, Lacepède; **Schn.**, Schneider. Notes: **1**, Cuvier stated: "Probably a specimen of *Balistes ringens* in poor conditions"; **2**, this name appears later with Cuvier as authorship in the *Histoire naturelle des Poissons* vol. 5 (1830) on page 405; **3**, this name appears in Lacepède (1803: 144, 145) and it is presently regarded as a junior synonym of *Hypostomus plecostomus* (Linnaeus, 1758).

Figures in <i>Planches de Seba</i>	Müsch <i>et al.</i> (2001)	Present identification
Plate 23		
1, 2 <i>Diodon punctatus</i> Cuv.	<i>Diodon hystrix</i> Linnaeus, 1758	<i>Diodon hystrix</i> Linnaeus, 1758
3 <i>Diodon tigrinus</i> Cuv.	<i>Chilomycterus reticulatus</i> (Linnaeus, 1758)	<i>Chilomycterus reticulatus</i> (Linnaeus, 1758)
4 <i>Diodon triedricus</i> Cuv.	Diodontidae	<i>Diodon hystrix</i> Linnaeus, 1758
5 <i>Diodon lagocephalus</i> L.	<i>Lagocephalus lagocephalus</i> (Linnaeus, 1758)	<i>Lagocephalus lagocephalus</i> (Linnaeus, 1758)
6 <i>Diodon lagocephalus</i> L.	<i>Colomesus psittacus</i> (Bloch & Schneider, 1801)	<i>Colomesus psittacus</i> (Bloch & Schneider, 1801)
7, 8 <i>Diodon lagocephalus</i> L.	Tetraodontidae	Unidentifiable
Plate 24		
1, 2 <i>Tetrodon</i>	Tetraodontidae	Unidentifiable
3 <i>Ostracion bicaudalis</i> L.	<i>Lactophrys bicaudalis</i> (Linnaeus, 1758)	<i>Lactophrys bicaudalis</i> (Linnaeus, 1758)
4 <i>Ostracion cubicus</i> L.	<i>Ostracion cubicus</i> Linnaeus, 1758	<i>Ostracion cubicus</i> Linnaeus, 1758
5 <i>Ostracion cubicus</i> L.	<i>Ostracion meleagris</i> Shaw, 1796	<i>Ostracion meleagris</i> Shaw, 1796
6 <i>Ostracion triqueter</i> L.	<i>Lactophrys triqueter</i> (Linnaeus, 1758)	<i>Lactophrys triqueter</i> (Linnaeus, 1758)
7 <i>Ostracion bicaudalis</i> L.	Ostraciidae	<i>Lactophrys bicaudalis</i> (Linnaeus, 1758)
8 <i>Ostracion cornutus</i> L.	<i>Lactoria cornuta</i> (Linnaeus, 1758)	<i>Lactoria cornuta</i> (Linnaeus, 1758)
9 <i>Ostracion quadricornis</i> L.	<i>Acanthostracion quadricornis</i> (Linnaeus, 1758)	<i>Acanthostracion quadricornis</i> (Linnaeus, 1758)
10 <i>Diodon spinosissimus</i> Cuv.	<i>Diodon hystrix</i> Linnaeus, 1758	<i>Diodon hystrix</i> Linnaeus, 1758
11 <i>Ostracion cubicus</i> juv.?	Ostraciidae	Unidentifiable
12 <i>Ostracion triqueter</i> L.	<i>Lactophrys triqueter</i> (Linnaeus, 1758)	<i>Lactophrys triqueter</i> (Linnaeus, 1758)
13 <i>Ostracion cornutus</i> L.	<i>Lactoria cornuta</i> (Linnaeus, 1758)	<i>Lactoria cornuta</i> (Linnaeus, 1758)
14 <i>Balistes vetula</i> L.	<i>Balistes vetula</i> Linnaeus, 1758	<i>Balistes vetula</i> Linnaeus, 1758
15 <i>Balistes aculeatus</i> L.	<i>Rhinecanthus aculeatus</i> (Linnaeus, 1758)	<i>Rhinecanthus verrucosus</i> (Linnaeus, 1758)
16 <i>Balistes capriscus</i> L.	<i>Balistes carolinensis</i> Gmelin, 1789	<i>Balistes carolinensis</i> Gmelin, 1789
17 <i>Balistes ringens</i> [L.] <sup>1</sup>	<i>Rhinecanthus verrucosus</i> (Linnaeus, 1758)	<i>Rhinecanthus verrucosus</i> (Linnaeus, 1758)
18 <i>Balistes tomentosus</i> Gm.	<i>Acreichthys tomentosus</i> (Linnaeus, 1758)	<i>Acreichthys tomentosus</i> (Linnaeus, 1758)
19 <i>Balistes longirostris</i> Bl. & Schn.	<i>Oxymonacanthus longirostris</i> (Bloch & Schneider, 1801)	<i>Oxymonacanthus longirostris</i> (Bloch & Schneider, 1801)
Plate 25		
1 <i>Acanthurus lineatus</i> Cuv.	<i>Acanthurus lineatus</i> (Linnaeus, 1758)	<i>Acanthurus lineatus</i> (Linnaeus, 1758)
2 <i>Acanthurus</i> sp.	<i>Acanthurus nigricans</i> (Linnaeus, 1758)	<i>Acanthurus nigrofuscus</i> (Forsskål, 1775)
3 <i>Acanthurus glaucopareius</i> Forster	<i>Acanthurus nigrofuscus</i> (Forsskål, 1775)	<i>Acanthurus nigricans</i> (Linnaeus, 1758)
4 <i>Acanthurus zebra</i> Lac.	<i>Acanthurus triostegus</i> (Linnaeus, 1758)	<i>Acanthurus triostegus</i> (Linnaeus, 1758)
5a <i>Pomacanthus cingulatus</i> Cuv.	<i>Pomacanthus arcuatus</i> (Linnaeus, 1758)	<i>Pomacanthus arcuatus</i> (Linnaeus, 1758)
5b <i>Pomacanthus arcuatus</i> Cuv.	<i>Pomacanthus arcuatus</i> (Linnaeus, 1758)	<i>Pomacanthus arcuatus</i> (Linnaeus, 1758)
6 <i>Heniochus cornutus</i> Cuv.	<i>Zanclus cornutus</i> (Linnaeus, 1758)	<i>Zanclus cornutus</i> (Linnaeus, 1758)
7 <i>Heniochus macrolepidotus</i> Cuv.	<i>Zanclus cornutus</i> (Linnaeus, 1758)	<i>Zanclus cornutus</i> (Linnaeus, 1758)
8 <i>Heniochus macrolepidotus</i> Cuv.	<i>Heniochus acuminatus</i> (Linnaeus, 1758)	<i>Heniochus acuminatus</i> (Linnaeus, 1758)

Figures in <i>Planches de Seba</i>	Müsch <i>et al.</i> (2001)	Present identification
9 <i>Chaetodon striatus</i> Cuv.	<i>Chaetodon striatus</i> Linnaeus, 1758	<i>Chaetodon striatus</i> Linnaeus, 1758
10 <i>Chaetodon sebae</i> Cuv.	<i>Chaetodon collare</i> Bloch, 1787	<i>Chaetodon collare</i> Bloch, 1787
11 <i>Chaetodon sebanus</i> Cuv.	<i>Chaetodon auriga</i> Forsskål, 1775	<i>Chaetodon auriga</i> Forsskål, 1775
12 <i>Chaetodon octofasciatus</i> Bl. & Schn.	<i>Chaetodon octofasciatus</i> Bloch, 1787	<i>Chaetodon octofasciatus</i> Bloch, 1787
13 <i>Chaetodon vespertilio</i> Bl.	Perciformes	<i>Platax orbicularis</i> (Forsskål, 1775)
14 <i>Chaetodon triostegus</i> Gm.	Perciformes	<i>Chaetodipterus faber</i> (Broussonet, 1782)
15 <i>Chaetodon vespertilio</i> Bl.	<i>Platax pinnatus</i> (Linnaeus, 1758)	<i>Platax pinnatus</i> (Linnaeus, 1758)
16 <i>Chaetodon capistratus</i> L.	<i>Chaetodon capistratus</i> Linnaeus, 1758	<i>Chaetodon capistratus</i> Linnaeus, 1758
17 <i>Chaetodon rostratus</i> L.	<i>Chelmon rostratus</i> (Linnaeus, 1758)	<i>Chelmon rostratus</i> (Linnaeus, 1758)
18 <i>Chaetodon vittatus</i> Bl. & Schn.	<i>Chaetodon vagabundus</i> (Linnaeus, 1758)	<i>Chaetodon trifasciatus</i> Park, 1797
Plate 26		
19 <i>Premnas unicolor</i> Cuv.	<i>Premnas biaculeatus</i> (Bloch, 1790)	<i>Premnas biaculeatus</i> (Bloch, 1790)
20 <i>Amphiprion</i> sp.	<i>Amphiprion ocellaris</i> Cuvier, 1830	<i>Amphiprion ocellaris</i> Cuvier, 1830
21 <i>Chaetodon rhombeus</i> Gm.	<i>Monodactylus sebae</i> (Cuvier, 1829)	<i>Monodactylus sebae</i> (Cuvier, 1829)
22 <i>Amphiprion albiventris</i> , var. Cuv.	<i>Amphiprion</i>	A species of the <i>Amphiprion clarkii</i> complex
23 <i>Amphiprion albiventris</i> , var. Cuv.	<i>Dascyllus aruanus</i> (Linnaeus, 1758)	<i>Dascyllus aruanus</i> (Linnaeus, 1758)
24 <i>Amphiprion albiventris</i> , var. Cuv.	<i>Amphiprion sebae</i> Bleeker, 1853	A species of the <i>Amphiprion clarkii</i> complex
25 <i>Amphiprion ephippium</i> Schn.	<i>Amphiprion ephippium</i> (Bloch, 1790)	<i>Amphiprion ephippium</i> (Bloch, 1790)
26-28 <i>Pomacentrus</i> sp.	Pomacentridae	Unidentifiable
29 <i>Premnas trifasciatus</i> [Cuv.] <sup>2</sup>	<i>Amphiprion</i>	<i>Premnas biaculeatus</i> (Bloch, 1790)
30 <i>Chaetodon</i> sp.	Perciformes	<i>Scatophagus argus</i> (Linnaeus, 1758)
31 <i>Diagramma pica</i> Cuv.	Perciformes	<i>Plectorhinchus picus</i> (Cuvier, 1830)
32 <i>Diagramma pictum</i> Cuv.	Perciformes	<i>Diagramma pictum</i> (Thunberg, 1792)
33 <i>Grammistes acuminatus</i> Schn.	<i>Equetus acuminatus</i> (Bloch & Schneider, 1801)	<i>Equetus acuminatus</i> (Bloch & Schneider, 1801)
34 <i>Zeus gallus</i> L.	<i>Alectis ciliaris</i> (Bloch, 1787)	<i>Alectis ciliaris</i> (Bloch, 1787)
35 <i>Chaetodon capistratus</i> , var. L.	<i>Chaetodon capistratus</i> Linnaeus, 1758	<i>Chaetodon capistratus</i> Linnaeus, 1758
36 <i>Chaetodon sebae</i> Cuv.	<i>Chaetodon collare</i> Bloch, 1787	<i>Chaetodon collare</i> Bloch, 1787
37 <i>Acanthurus</i> sp.	Not recorded	<i>Acanthurus lineatus</i> (Linnaeus, 1758)
Plate 27		
1 <i>Holocentrus orientale</i> Cuv.	<i>Holocentrus ascensionis</i> (Osbeck, 1765)	<i>Sargocentron rubrum</i> (Forsskål, 1775)
2 <i>Polynemus paradiseus</i> Cuv.	<i>Pentanemus quinquarius</i> (Linnaeus, 1758)	<i>Pentanemus quinquarius</i> (Linnaeus, 1758)
3 <i>Caranx fallax</i> Cuv.	<i>Caranx hippos</i> (Linnaeus, 1758)	<i>Caranx hippos</i> (Linnaeus, 1758)
4 <i>Equula</i> sp.	<i>Lithognathus mormyrus</i> (Linnaeus, 1758)	<i>Leiognathus equulus</i> (Forsskål, 1775)
5 <i>Grammistes orientalis</i> Bl. & Schn.	<i>Grammistes sexlineatus</i> Thunberg, 1792	<i>Grammistes sexlineatus</i> Thunberg, 1792
6 <i>Serranus taeniops</i> Cuv.	<i>Cephalopholis argus</i> Bloch & Schneider, 1801	<i>Cephalopholis taeniops</i> (Valenciennes <i>in</i> Cuvier & Valenciennes, 1828)
7 <i>Serranus merra</i> Cuv.	<i>Epinephelus maculatus</i> (Bloch, 1787)	<i>Epinephelus maculatus</i> (Bloch, 1787)
8 <i>Calliodon</i> sp. unidentifiable	<i>Perca callyodon</i> (Walbaum, 1792)	<i>Scarus iseri</i> Bloch, 1789
9 <i>Holocentrus striatus</i> Bl.	Unidentifiable	<i>Epinephelus striatus</i> (Bloch, 1792)
10 <i>Mesoprion annularis</i> Cuv.	<i>Hypoplectrus unicolor</i> (Walbaum, 1792)	<i>Hypoplectrus unicolor</i> (Walbaum, 1792)
11 <i>Diacope sebae</i> Cuv.	Unidentifiable	<i>Lutjanus sebae</i> (Cuvier, 1816)
12 <i>Cirrhitus punctatus</i> Lac.	Unidentifiable	<i>Paracirrhites forsteri</i> (Schneider <i>in</i> Bloch & Schneider, 1801)
13 <i>Holocentrus marginatus</i> Bl.	Unidentifiable	<i>Terapon theraps</i> (Cuvier, 1829)

Figures in <i>Planches de Seba</i>	Müsch <i>et al.</i> (2001)	Present identification
14 <i>Pristipoma coro</i> Cuv.	Unidentifiable	<i>Conodon nobilis</i> (Linnaeus, 1758)
15 <i>Holocentrus tigrinus</i> Bl.	<i>Serranus tigrinus</i> (Bloch, 1790)	<i>Serranus tigrinus</i> (Bloch, 1790)
16 <i>Percis cylindrica</i> Cuv.	<i>Parapercis cylindrica</i> (Bloch, 1792)	<i>Parapercis cylindrica</i> (Bloch, 1792)
17 <i>Diagramma poecilopterum</i> Cuv.	<i>Plectorhinchus diagrammus</i> (Linnaeus, 1758)	<i>Diagramma pictum</i> (Thunberg, 1792)
18 <i>Diagramma lineatum</i> Cuv.	<i>Plectorhinchus diagrammus</i> (Linnaeus, 1758)	<i>Plectorhinchus diagrammus</i> (Linnaeus, 1758)
Plate 28		
1 <i>Scorpaena volitans</i> L.	<i>Pterois volitans</i> (Linnaeus, 1758)	<i>Pterois volitans</i> (Linnaeus, 1758)
2 <i>Scorpaena</i> sp.	<i>Scorpaena porcus</i> Linnaeus, 1758	<i>Scorpaena porcus</i> Linnaeus, 1758
3 <i>Pelor</i> sp.	Scorpaenidae	Unidentifiable
4 <i>Batrachus grunniens</i> L.	<i>Allenbatrachus grunniens</i> (Linnaeus, 1758)	<i>Allenbatrachus grunniens</i> (Linnaeus, 1758)
5 <i>Cottus scorpio</i> L.	<i>Myxocephalus scorpius</i> (Linnaeus, 1758)	<i>Myxocephalus scorpius</i> (Linnaeus, 1758)
6 <i>Agonus europaeus</i> Cuv.	<i>Agonus cataphractus</i> (Linnaeus, 1758)	<i>Agonus cataphractus</i> (Linnaeus, 1758)
7 <i>Trigla volitans</i> L.	<i>Dactylopterus volitans</i> (Linnaeus, 1758)	<i>Dactylopterus volitans</i> (Linnaeus, 1758)
Plate 29		
1-4 <i>Pimelodus</i>	Siluriformes	Unidentifiable
5 <i>Silurus erythropterus</i> Bl.	Siluriformes	Unidentifiable
6 <i>Silurus fasciatus</i> Gm.	<i>Pseudoplatystoma fasciatum</i> (Linnaeus, 1766)	<i>Pseudoplatystoma fasciatum</i> (Linnaeus, 1766)
7 <i>Silurus galeatus</i> Gm.	<i>Trachelyopterus galeatus</i> (Linnaeus, 1766)	<i>Trachelyopterus galeatus</i> (Linnaeus, 1766)
8 <i>Pimelodus</i> sp.	Siluriformes	<i>Hypostomus plecostomus</i> (Linnaeus, 1758)
9 <i>Silurus aspredo</i> L.	<i>Platystacus cotylephorus</i> Bloch, 1794	<i>Platystacus cotylephorus</i> Bloch, 1794
10 <i>Silurus aspredo</i> L.	<i>Aspredo aspredo</i> (Linnaeus, 1758)	<i>Aspredo aspredo</i> (Linnaeus, 1758)
11 <i>Silurus callichtys</i> L.	<i>Hypostomus plecostomus</i> (Linnaeus, 1758)	<i>Hypostomus plecostomus</i> (Linnaeus, 1758)
12 <i>Hypostomus guacari</i> [Lac.] <sup>3</sup>	Siluriformes	<i>Hypostomus plecostomus</i> (Linnaeus, 1758)
13 <i>Silurus callichtys</i> L.	<i>Callichtys callichtys</i> (Linnaeus, 1758)	<i>Callichtys callichtys</i> (Linnaeus, 1758)
14 <i>Loricaria plecostoma</i> Bl.	<i>Loricaria cataphracta</i> Linnaeus, 1758	<i>Loricaria cataphracta</i> Linnaeus, 1758
15 <i>Gobius</i> sp.	Gobiidae	Unidentifiable
16 <i>Eleotris</i> sp.	Gobiidae	Unidentifiable
17 <i>Salarias</i> sp.	Siluriformes	Unidentifiable
18 <i>Chaetodon baro</i> Cuv.	Chaetodontidae	<i>Chaetodon trifasciatus</i> Park, 1797
19 <i>Acipenser sturio</i> L.	<i>Acipenser sturio</i> Linnaeus, 1758	<i>Acipenser sturio</i> Linnaeus, 1758
Plate 30		
1 <i>Blennius acuminatus</i> Schn.	<i>Clinus dorsalis</i> (Bloch & Schneider, 1801)	<i>Clinus dorsalis</i> (Bloch & Schneider, 1801)
2 <i>Blennius</i> sp.	Clinidae	Unidentifiable
3 <i>Blennius superciliosus</i> Gm.	? <i>Clinus superciliosus</i> (Linnaeus, 1758)	? <i>Clinus superciliosus</i> (Linnaeus, 1758)
4 <i>Salarias</i> sp.	? <i>Clinus superciliosus</i> (Linnaeus, 1758)	? <i>Clinus superciliosus</i> (Linnaeus, 1758)
5 <i>Salarias</i> sp.	<i>Cirripectes castaneus</i> (Valenciennes, 1836)	<i>Cirripectes castaneus</i> (Valenciennes, 1836)
6 <i>Blennius gunnelus</i> Gm.	<i>Pholis gunnellus</i> (Linnaeus, 1758)	<i>Pholis gunnellus</i> (Linnaeus, 1758)
7 <i>Callyonimus</i> [sic] <i>lyra</i> L.	<i>Callionymus lyra</i> Linnaeus, 1758	<i>Callionymus lyra</i> Linnaeus, 1758
8 <i>Julis</i> sp.	? <i>Clinus superciliosus</i> (Linnaeus, 1758)	? <i>Clinus superciliosus</i> (Linnaeus, 1758)
Plate 31		
1 <i>Julis</i> ?	Unidentifiable labrid	Unidentifiable
2 <i>Crenilabrus</i> sp.	Labridae	<i>Halichoeres nigrescens</i> (Bloch & Schneider, 1801)
3 <i>Crenilabrus</i> sp.	Labridae	Unidentifiable <i>Symphodus</i>
4 <i>Crenilabrus</i> sp.	Labridae	Unidentifiable <i>Symphodus</i>

Figures in <i>Planches de Seba</i>	Müsch <i>et al.</i> (2001)	Present identification
5 <i>Julis</i> sp.	<i>Stethojulis trilineata</i> (Bloch & Schneider, 1801)	<i>Stethojulis trilineata</i> (Bloch & Schneider, 1801)
6 <i>Anampses moniliger</i> Cuv.	<i>Halichoeres leucurus</i> (Walbaum, 1792)	<i>Halichoeres leucurus</i> (Walbaum, 1792)
7 <i>Scarus gallus</i> Frsk.	<i>Thalassoma lunare</i> (Linnaeus, 1758)	<i>Thalassoma lunare</i> (Linnaeus, 1758)
8 ? <i>Julis gothofredii</i> Risso	Labridae	? <i>Coris julis</i> (Linnaeus, 1758)
Plate 32		
1 <i>Gymnotus carapo</i> Gm.	<i>Gymnotus carapo</i> Linnaeus, 1758	<i>Gymnotus carapo</i> Linnaeus, 1758
2 <i>Gymnotus fasciatus</i> Gm.	<i>Brachyhyppopomus</i>	Unidentifiable <i>Brachyhyppopomus</i>
3 <i>Gymnotus albus</i> Gm.	<i>Stenopygus astrabes</i> Mago-Leccia, 1994	<i>Sternopygus macrurus</i> (Bloch & Schneider, 1801) after Parenti & Albert unpublished
4 [No name given]	<i>Sternopygus macrurus</i> (Bloch & Schneider, 1801)	<i>Sternopygus macrurus</i> (Bloch & Schneider, 1801)
5 <i>Gymnotus rostratus</i> Gm.	<i>Rhamphichthys rostratus</i> (Linnaeus, 1766)	<i>Rhamphichthys rostratus</i> (Linnaeus, 1766)
Plate 33		
1 <i>Trichiurus lepturus</i> L.	<i>Trichiurus lepturus</i> Linnaeus, 1758	<i>Trichiurus lepturus</i> Linnaeus, 1758
2 <i>Echeneis naucrates</i> L.	<i>Echeneis naucrates</i> Linnaeus, 1758	<i>Echeneis naucrates</i> Linnaeus, 1758
3 <i>Teuthis hepatus</i> L.	<i>Paracanthurus hepatus</i> (Linnaeus, 1758)	<i>Paracanthurus hepatus</i> (Linnaeus, 1758)
Plate 34		
1 <i>Scyllium tigrinum</i> Cuv.	<i>Stegostoma fasciatum</i> (Hermann, 1783)	<i>Stegostoma fasciatum</i> (Hermann, 1783)
2 <i>Balistes hispidus</i> Gm.	<i>Stephanolepis hispidus</i> (Linnaeus, 1766)	<i>Stephanolepis hispidus</i> (Linnaeus, 1766)
3 <i>Tetragonopterus</i> Artedi	<i>Astyanax bimaculatus</i> (Linnaeus, 1758)	<i>Astyanax bimaculatus</i> (Linnaeus, 1758)
4 <i>Fistularia paradoxa</i> Pallas	<i>Solenostomus cyanopterus</i> Bleeker, 1854	<i>Solenostomus cyanopterus</i> Bleeker, 1854
5 <i>Amphisilia velitaris</i> Cuv.	<i>Centriscus scutatus</i> Linnaeus, 1758	<i>Centriscus scutatus</i> Linnaeus, 1758
6 <i>Gymnotus electricus</i> L.	<i>Electrophorus electricus</i> (Linnaeus, 1758)	<i>Electrophorus electricus</i> (Linnaeus, 1758)
7 <i>Anableps tetrophthalmus</i> L.	<i>Anableps anableps</i> (Linnaeus, 1758)	<i>Anableps anableps</i> (Linnaeus, 1758)

*lineatum*, *D. poecilopterus*, *Holocentrus orientale*, *Pomacanthus cingulatus*, *Premnas trifasciatus* and *P. unicolor*; 5) two names (*Mesoprion annularis* and *Serranus taeniops*) that appeared the same year both in the second volume of the *Histoire naturelle des Poissons* (Cuvier & Valenciennes 1828) and the *Planches de Seba*; 6) *Amphiprion albiventris* should be considered as a *nomen oblitum*, as it has not been mentioned in the ichthyological literature since Cuvier (Eschmeyer 1998); 7) the status of *Anampses moniliger* has been discussed by Parenti & Randall (2000); 8) names (*Caranx fallax*, *Chaetodon sebae*, and *Diagramma pica*) predating their subsequent publication in the *Histoire naturelle des Poissons*, but that cannot be regarded as junior synonyms.

This later group of names poses some problems, as they represent either valid species (*Diagramma pica* valid as *Plectorhinchus picus* (Cuvier, 1830)) or senior synonyms of well established species (*Chaetodon sebae* and *Caranx fallax*, senior synonyms of *Chaetodon rafflesii* Bennett, 1830, and *Caranx latus* Agassiz, 1831, respectively). Concerning the priority of *Serranus taeniops* Valenciennes, 1828, over *Serranus taeniops* Cuvier, 1828, and the first appearance of *Mesoprion annularis* Cuvier, 1828, uncertainties still remain, as the second volume of the *Histoire naturelle des Poissons* is dated October (Eschmeyer 1998), while the *Planches de Seba* were issued before November, but not much earlier. The status of all new names erected by Cuvier in the *Planches de Seba* is summarized in Table 2

TABLE 2. — New names in the *Planches de Seba*. The table lists all original combinations and new combinations erected by Cuvier in the *Planches de Seba*. Binomial names are marked as follows: **a**, new combination of existing names; **b**, original combinations (new names); **c**, homonyms (not new names). Names marked by \* predate currently used valid names. The column Records in literature reports the usage of the name in a work dating back or subsequent to *Planches de Seba* either in the same combination or in a different combination. The column Present status reports the present status of the species as recorded in literature.

<b>Planches de Seba</b>	<b>Binomial names</b>	<b>Records in literature</b>	<b>Present status</b>
<b>Plate Fig.</b>			
25	1 <i>Acanthurus lineatus</i> (a)	<i>Chaetodon lineatus</i> Linnaeus, 1758	<i>Acanthurus lineatus</i> (Linnaeus, 1758)
	5a <i>Pomacanthus cingulatus</i> (b)	<i>Pomacanthus cingulatus</i> Cuvier in Cuvier & Valenciennes, 1831	<i>Pomacanthus arcuatus</i> (Linnaeus, 1758)
	5b <i>Pomacanthus arcuatus</i> (a)	<i>Chaetodon arcuatus</i> Linnaeus, 1758	<i>Pomacanthus arcuatus</i> (Linnaeus, 1758)
	6 <i>Heniochus cornutus</i> (a)	<i>Zanclus cornutus</i> (Linnaeus, 1758)	<i>Zanclus cornutus</i> (Linnaeus, 1758)
	7 <i>Heniochus macrolepidotus</i> (a)	<i>Zanclus cornutus</i> (Linnaeus, 1758)	<i>Zanclus cornutus</i> (Linnaeus, 1758)
	9 * <i>Chaetodon striatus</i> (c)	<i>Chaetodon striatus</i> Linnaeus, 1758	<i>Chaetodon striatus</i> Linnaeus, 1758
	10 * <i>Chaetodon sebae</i> (b)	<i>Chaetodon sebae</i> Cuvier in Cuvier & Valenciennes, 1831	<i>Chaetodon rafflesii</i> Bennett, 1830
	11 <i>Chaetodon sebanus</i> (b)	<i>Chaetodon sebanus</i> Cuvier in Cuvier & Valenciennes, 1831	<i>Chaetodon auriga</i> Forsskål, 1775
26	19 <i>Premnas unicolor</i> (b)	<i>Premnas unicolor</i> Cuvier, 1829	<i>Premnas biaculeatus</i> (Bloch, 1790)
	22-24 <i>Amphiprion albiventris</i> , var. (b)	No record	<i>Nomen oblitum</i>
	29 <i>Premnas trifasciatus</i> (b)	<i>Premnas trifasciatus</i> Cuvier in Cuvier & Valenciennes, 1830	<i>Premnas biaculeatus</i> (Bloch, 1790)
	31 * <i>Diagramma pica</i> (b)	<i>Diagramma pica</i> Cuvier in Cuvier & Valenciennes, 1830	<i>Plectorhinchus picus</i> (Cuvier, 1830)
	32 <i>Diagramma pictum</i>	<i>Perca picta</i> Thunberg, 1792	<i>Diagramma pictum</i> (Thunberg, 1792)
27	1 <i>Holocentrus orientale</i> (b)	<i>Holocentrum orientale</i> Cuvier, 1829	<i>Sargocentron rubrum</i> (Forsskål, 1775)
	2 <i>Polynemus paradiseus</i> (c)	<i>Polynemus paradiseus</i> Linnaeus, 1758	<i>Polynemus paradiseus</i> Linnaeus, 1758
	3 * <i>Caranx fallax</i> (b)	<i>Caranx fallax</i> Cuvier in Cuvier & Valenciennes, 1833	<i>Caranx latus</i> Aassiz, 1831
	6 * <i>Serranus taeniops</i> (b)	<i>Serranus taeniops</i> Valenciennes in Cuvier & Valenciennes, 1828	<i>Cephalopholis taeniops</i> (Valenciennes in Cuvier & Valenciennes, 1828)
	10 * <i>Mesoprion annularis</i> (b)	<i>Mesoprion annularis</i>	<i>Lutjanus erythropterus</i> Bloch, 1790
	14 <i>Pristipoma coro</i> (a)	<i>Sciaena coro</i> Bloch, 1792	<i>Conodon nobilis</i> (Linnaeus, 1758)
	16 <i>Percis cylindrica</i> (a)	<i>Sciaena cylindrica</i> Bloch, 1792	<i>Parapercis cylindrica</i> (Bloch, 1792)
	17 <i>Diagramma poecilopterum</i> (b)	<i>Diagramma poecilopterum</i> Cuvier, 1829	<i>Diagramma pictum</i> (Thunberg, 1792)
	18 <i>Diagramma lineatum</i> (b)	<i>Diagramma lineatum</i> Cuvier, 1829	<i>Plectorhinchus diagrammus</i> (Linnaeus, 1758)
28	6 <i>Agonus europaeus</i> (b)	<i>Aspidophorus europaeus</i> Cuvier in Cuvier & Valenciennes, 1829	<i>Agonus cataphractus</i> (Linnaeus, 1758)
31	6 <i>Anampses moniliger</i> (b)	No record	<i>Halicoeres leucurus</i> (Walbaum, 1792)
34	1 <i>Scyllium tigrinum</i> (a)	<i>Squalus tigrinum</i> 1789	<i>Stegostoma fasciatum</i> (Hermann, 1783)
	5 <i>Amphisilia velitaris</i> (b)	<i>Amphisile velitaris</i> Cuvier, 1829	<i>Macroramphosus scolopax</i> (Linnaeus, 1758)

Based on results reported here, the following actions are undertaken: 1) the valid species *Plectorhinchus picus* (Cuvier, 1830) is dated back as *Plectorhinchus picus* (Cuvier, 1828); 2) the valid species *Cephalopholis taeniops* (Valenciennes, 1828) is maintained until further research determines the actual date of publication of the *Planches de Seba*, an event that would lead the species to date back with changed authorship as *Cephalopholis taeniops* (Cuvier, 1828); 3) in accordance with the article 23.9 of the *International Code of Zoological Nomenclature* (ICZN 1999), the principle of “reversal of precedence” is applied to *Chaetodon sebae* and *Caranx fallax*, the current use of the corresponding junior synonyms *Chaetodon rafflesii* Bennett, 1830, and *Caranx latus* Agassiz, 1831.

The application of reversal of precedence is based on the following conditions: 1) the senior synonym has not been used as valid since 1899 (ICZN 1999: art. 23.9.1.1); and 2) the junior synonym has been used as valid in at least 25 works, published by at least 10 authors during the past 50 years, and encompassing a span of not less than 10 years (ICZN 1999: art. 23.9.1.2). *Chaetodon rafflesii* Bennett, 1830, and *Caranx latus* Agassiz, 1831, are thus regarded as valid, qualifying as *nomina protecta*, whereas the names *Chaetodon sebae* Cuvier, 1828, and *Caranx fallax* Cuvier, 1828, are recognized as invalid, qualifying as *nomina oblita*. As evidence that the conditions of article 23.9.1.2 have been met for both species a list of publications follows. The current use of *Caranx latus* Agassiz, 1831 is confirmed by the following: Thompson & Munro (1974); Carvalho & Branco (1977); Lubbock & Edwards (1981); Zaneveld (1983); Nomura (1984); Suzuki (1986); Robins & Ray (1986); Smith-Vaniz *et al.* (1990); Robins *et al.* (1991); Böhlke & Chaplin (1993); Cervigón (1993); Barton & Wilmhoff (1996); Randall (1996); Greenfield & Thomerson (1997); Sánchez (1997); Smith (1997); Alleng (1997); Smith-Vaniz (2002); Bussing (1998); Sazima (1998); Ramjohn (1999); Willoughby *et al.* (1999); Szpilman (2000); Gasparini & Floeter (2001); Silvano (2001). The current use of *Chaetodon rafflesii* Bennett, 1830 is confirmed by the following: Wheeler (1975); Burgess (1978); Steene (1978); Rau & Rau (1980); Masuda *et al.* (1984);

Thresher (1984); Wass (1984); Randall (1986); Randall *et al.* (1990); Kailola (1987); Hureau (1991); Myers (1991); Robins *et al.* (1991); Kuitert (1992); McManus *et al.* (1992); White & Calumpang (1993); Kulbicki & Williams (1997); Kunzmann *et al.* (1998); Ganaden & Lavapie-Gonzales (1999); Pyle (2000); Findley & Findley (2001); Huang (2001); Dantis & Aliño (2002); Allen & Adrim (2003); Hardy (2003).

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