

CLUPANODON La Cépède for *Clupeonia* Cuv. & Val.

GYMNOMURENA La Cépède for *Murana zebra* Günther and affines.

MURENOBLENNA La Cépède for *Gymnomuræna* Günther.

MACRORHAMPHOSUS La Cépède for *Centriscus* Auct.

CENTRISCUS L. for *Amphisile* Auct.

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ON THE SYNONYMY OF THE GENUS *BOTHUS* RAFINESQUE.

BY DAVID S. JORDAN AND CHARLES H. GILBERT.

In the Caratteri di Alcuni Nuovi Generi, etc., 1810, 23, the genus *Bothus* is established by Rafinesque for flounders, which are allied to the European turbot. Three species are referred to this genus: *B. rumolo* Raf., *B. tappa* Raf., and *B. imperialis* Raf. The first of these is, according to Bonaparte (Cat. Metod. dei Pesci Europ., 1846, 49) identical with *Pleuronectes rhombus* L.; the third, with the Turbot *Pl. maximus* L., and the second has not yet, so far as we know, been identified. The relations of these fishes to the Linnæan *Pl. rhombus* seems to have been understood by Rafinesque, who observes that he should have called the genus *Rhombus*, had not La Cépède removed the latter name to another genus. It will be, therefore, not unfair to take the first species mentioned by Rafinesque, and which is really identical with *Pleuronectes rhombus* L., as the type of his genus *Bothus*. A group substantially identical with this had been previously outlined by Klein under the name of *Rhombus*. This name was afterwards accepted by Cuvier for the Turbot and its relatives, and has now come into general use. If we adopt the pre-Linnæan and non binomial generic names proposed by Klein, as has been done by Bleeker, and formerly by Professor Gill, the name *Rhombus* must be used for this group. If we reject these pre-Linnæan names, as is now the custom of most writers, the *Rhombus* of Cuvier is antedated by *Rhombus* of La Cépède (= *Peprilus* Cuvier), and moreover, it is not the earliest name of the group in question.

In the Indice d' Ittiologia Siciliana, 1810, p. 53, a few months later than the "Caratteri," a genus "*Scophthalmus*" is thus defined: "Ale giugulari ed ale caudale sciolte, ocelli alla sinistra."

Three species are referred to this genus (p. 14): *Pleuronectes maximus* L., *Pleuronectes rhombus*, L., and a new species based on an erroneous and indeterminable figure of Rondelet, which receives the name of *Scophthalmus diurus*. Rafinesque's genus *Scophthalmus* is therefore equivalent to his own *Bothus*, the sole difference between them being, according to Bonaparte (l. c., p. 49), that *Bothus* was founded on actual specimens ("ex natur") and *Scophthalmus* on the descriptions of others ("ex auct").

Later, as already stated, both these fishes, with others, received the

name of *Rhombus*, a name not tenable under the rules of nomenclature followed by us.

In 1839 the genus *Psetta* was proposed by Swainson (Nat. Hist. Classn. Fishes, etc., ii, 302) in the following words :

"*Psetta Aristotle*,* Cuv.—Body rhomboidal ; dorsal fin commencing at the edge of the upper jaw, and extending, as well as the anal, almost to the caudal ; eyes approximating, with a short, crest-like cirrus.

"P. MAXIMUS, Bloch, pl. 49."

This name *Psetta* is adopted by Bonaparte (Catalogo Metodico di Pesci Europei, 1846, 49) for the entire group called *Rhombus* by Cuvier, while the name *Bothus* is transferred to a different genus which had been previously called *Platophrys* by Swainson, and later *Rhomboidichthys* by Bleeker. The name *Scophthalmus* is likewise diverted from its original meaning, and is used for the genus previously named *Zeugopterus* by Gottsche.

In 1862 (Proc. Acad. Nat. Sci., Phila. 1862, 216) an American species (*Pleuronectes maculatus*, Mitchill) which, from any point of view, is strictly congeneric with *Pleuronectes rhombus* L., was recognized by Professor Gill as the type of a distinct genus (*Lophopsetta* Gill). In 1882 (Syn. Fish. N. Am., 815) the present writers have referred this species to the genus *Bothus*, recognizing as the type of *Bothus*, *Bothus rumolo* Raf., = *Pleuronectes rhombus*, L.

Whether the extremely rudimentary or obsolete condition of the scales of *Pleuronectes maximus* L., justifies its separation from *Bothus* as a distinct genus we are not yet prepared to say. At present we may regard it as the representative of a distinct subgenus, for which the name *Psetta* must apparently be retained. The three species noticed in the present paper may therefore stand as

1. *Bothus (Bothus) rhombus* (L.).
2. *Bothus (Bothus) maculatus* (Mitch.).
3. *Bothus (Psetta) maximus* (L.).

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DESCRIPTION OF A NEW SPECIES OF ARTEDIUS (*ARTEDIUS FENESTRALIS*) FROM PUGET SOUND.

BY DAVID S. JORDAN AND CHARLES H. GILBERT.

Artedius fenestralis sp. nov.

Closely allied to *Artedius notospilotus* Girard.

Head, $2\frac{2}{3}$ in length to base of caudal ; depth, $4\frac{1}{3}$. D. IX-17. A. 12. Lat. l. 36.

Length (27206), 5 inches.

* "I see no reason for substituting *Rhombus* Cuv., for the more ancient and classic name of *Psetta* imposed by Aristotle upon this group."—Swainson.