## SIPHAMIA WEBER, 1909 AND SIPHAMIA PERMUTATA KLAUSEWITZ, 1966 (OSTEICHTHYES, PERCIFORMES): PROPOSED CONSERVATION BY THE SUPPRESSION OF BEANEA STEINDACHNER, 1902 AND BEANEA TRIVITTATA STEINDACHNER, 1902. Z.N.(S.)2517

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Steindachner (1902, pp. 337–338) described *Beanea trivittata* as a new genus and species of the beryciform family HOLOCENTRIDAE, from a single 36 mm specimen taken in the Gulf of Suez, Red Sea, at Tor (El Tur) near the southern end of the Sinai Peninsula. The fish was collected by Dr Plate from among the spines of the echinoid *Diadema*.

2. No specimens have been reported under the name *Beanea trivittata* since the original description, in spite of extensive fish collecting in the Red Sea (Randall, 1983). The name has appeared only in compilations such as those of Jordan, 1917–1920; Fowler, 1956; Norman, 1957; Klausewitz, 1964 (in the reprint edition of Klunzinger, 1870–71) and Botros, 1971.

3. Woods (1955, p. 95) devoted a paragraph to *Beanea*. He repeated the meristic data given by Steindachner, noted the discrepancy of these counts from known holocentrid fishes, and added that *B. trivittata* 'may not even belong to the family Holocentridae'.

4. Randall, Shimizu and Yamakawa (1982, p. 2) also reiterated some of Steindachner's description of *B. trivittata* and stated, 'With the exception of IV anal spines (which we suspect is an error) these characters fit the APOGONIDAE not the HOLOCENTRIDAE. *Beanea* appears to represent an earlier name for *Siphamia* Weber (1909). We have asked Dr Rainer Hacker and Harald Ahnelt of the Naturhistorisches Museum in Vienna to examine the type of *Beanea trivittata* for us, but the specimen was not found.

5. In his Checklist of the Fishes of the Red Sea, Dor (1984, p. 72) included Beanea trivittata in the HOLOCENTRIDAE but as a doubtful taxon. He quoted Randall (*in litt.*), cited Randall, Shimizu and Yamakawa and added, 'I fully agree, the description of Steindachner fits an apogonid.'

6. The following characters given by Steindachner for *Beanea trivittata* clearly show that it is not a holocentrid but an apogonid: Dorsal rays VII–I,9; pelvic rays I,5; branchiostegal rays 7; lateral-line scales 25; scales above lateral line 1 1/2; all fin spines slender; first dorsal spine very short; third dorsal spine longest; head bones extremely delicate and thin; scales below lateral line smooth; three dark brown longitudinal bands on head and body.

7. Three genera of APOGONIDAE have species in the Red Sea with dark stripes: Apogon, Cheilodipterus and Siphamia. Cheilodopterus can be

quickly eliminated as a synonym of *Beanea* because it has VI dorsal spines, a body more elongate than *Myripristis* (Steindachner stated that *Beanea* has a body shape like this genus) and Red Sea species have more than three dark stripes. *Apogon* can also be eliminated on the basis of color, as no species have three dark stripes as described by Steindachner. *Siphamia* is represented in the Red Sea by a single species, *S. permutata* Klausewitz (1966, pp. 217–222) which has all the characters mentioned in paragraph 6 above except for 25 lateral-line scales (Klausewitz recorded 23). The three brown stripes on *S. permutata* are exactly as described by Steindachner for *B. trivittata*. Furthermore, Klausewitz (*op. cit.*) and Magnus (1976) have shown that this species hides among the spines of *Diadema setosum*.

8. Siphamia Weber (1909, p. 168) (type species, by monotypy, Siphamia tubifer Weber, 1909) is a very distinctive genus, all of the species of which possess an elongate luminous organ ventrally on the body which passes from the branchial region nearly to the caudal fin base. Lachner (*in* Schultz & collaborators, 1953) reviewed the genus, recognizing 13 species. Fraser (1972) wrote 'Siphamia comprises a natural group, containing at least 18 nominal species...' He summarized the osteology and other anatomical features of the genus and cited studies on systematics, commensalism, bioluminescence, etc.

9. Since there is no type specimen of *Beanea trivittata* the status of the nominal taxon is doubtful, although it is a probable synonym of *Siphamia permutata* Klausewitz, 1966. We recommend that the latter name be conserved and that *Beanea trivittata* Steindachner, 1902 be suppressed.

10. In view of the above we ask the International Commission on Zoological Nomenclature to:

- (1) use its plenary powers to suppress the generic name *Beanea* Steindachner, 1902 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.
- (2) use its plenary powers to suppress the specific name trivittata Steindachner, 1902, as published in the binomen Beanea trivittata, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.
- (3) place on the Official List of Generic Names in Zoology the generic name *Siphamia* Weber, 1909 (gender: feminine), type species by monotypy, *Siphamia tubifer* Weber, 1909.
- (4) place on the Official List of Specific Names in Zoology the following specific names:
  - (a) permutata Klausewitz, 1966 as published in the binomen Siphamia permutata;
  - (b) tubifer Weber, 1909, as published in the binomen Siphamia tubifer (specific name of the type species of Siphamia Weber, 1909).
- (5) place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Beanea* Steindachner, 1902, as suppressed under the plenary powers in (1) above.

(6) place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *trivittata*, as published in the binomen *Beanea trivittata*, and as suppressed under the plenary powers in (2) above.

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