

琉球大学学術リポジトリ

琉球産ヒメダイ属魚類の1新種について

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Description of the New Lutjanid Fish of the Genus
***Pristipomoides* from the Ryukyu Islands**

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Lutjanid fishes are numerous in species and they are all important food fish in the Ryukyus. The present writer has six species belonging to the genus *Pristipomoides*, and one of them seems to be new to science.

For the progress of the survey of the marketable fishes in the Ryukyu Islands, it is considered useful to describe this new species. This new species are few in number, but they are generally caught in the Ryukyus.

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Pristipomoides flavipinnis, new species
"kinme-himedai", New Japanese name

Holotype.—Cat. No. UR 163, Biology Department, Art and Science Division, University of the Ryukyus. A mature male specimen, 290 mm. in standard length, Naha fish market, Okinawa, Nov. 1962.

Paratype.—Cat. No. UR 164, mature female specimen, 295 mm., Naha fish market, Okinawa, Nov. 1962. Cat. No. UR 115, mature male specimen, 352 mm., Itoman fish market, Okinawa, Apr. 1958. Cat. No. UR 158, male specimen, 264 mm., Naha fish market, Okinawa, Nov. 1962.

Description.—Counts and proportional measurements of bodily parts of types are shown in the Table 1.

Body compressed, oblong and somewhat elongate. Head compressed, somewhat small and tapering gradually to the snout. Eyes large. Mouth moderately large and slightly oblique. Teeth are present on the jaws, vomer and palatines. One or two pairs of canines on the upper jaw are remarkably large, the length being nearly equal to the depth of the anterior part of the upper lip and are followed by much smaller canines arranged in a row. Inside of this row is a band of very small (villiform) teeth which extends far rearward tapering posteriorly. Teeth in the lower jaw are similar except that the villiform teeth are confined to the front of the jaw.

Triangular patch of fine (villiform) teeth on the vomer, and fairly broad band of villiform teeth are found along the palatines. Tongue edentate. Maxillary extends beneath the anterior margin of pupil. Preopercle margin is finely serrated.

Fins are moderately developed. Spinous dorsal is continuous with soft dorsal and first dorsal spine is weak and short. Fifth dorsal spine is the longest. Last dorsal and anal rays are much produced. Caudal is deeply forked, and covered with scales. Pectoral fins are long and slightly falcate.

Nostrils are close together, posterior one being placed a little higher, and elliptical in shape. Anterior one is smaller and nearly circular, its posterior margin with a skinny flap.

Interorbital is flat and its width somewhat narrow. Suborbital width is broad, its length about 1.7 to 2.1 in eye. Gill-rakers are moderately developed, but one or two rudiments are found on ceratobranchial and epibranchial respectively.

Colour in formalin is light brown above, grading to silvery below, background of head is dark purplish brown. In fresh form colour is mauve, with iridescent bluish spots and yellow mottlings over whole body above, grading to light golden iridescence on belly. On top of the head vermiculations of yellow on a dark purplish background are present. Dorsal and anal fins are yellowish; pectoral and ventral fins are light yellowish rose and caudal fin is yellowish in margin and purplish brown in median part.

Table 1. Counts and proportional measurements of the types of *Pristipomoides flavipinnis*.

Items	Holotype	Paratypes		
		UR 164	UR 158	UR 115
Sp. No.	UR 163	UR 164	UR 158	UR 115
Sex	male	female	male	male
Standard length in mm.	290.0	295.0	264.0	352.0
Dorsal fin	X, 11	X, 11	X, 11	X, 11
Anal fin	III, 8	III, 8	III, 8	III, 8
Pectoral fin	16	16	16	16
Pored scales in lateral line	left 59 right 60	60 (2)	60 (2)	left 61 right 62
Gill rakers on first arch	4(+4)+15(+2)	4(+3)+15(+2)	4(+2)+14(+2)	4(+4)+15(+1)
Pyloric coeca	5	5	5	5
Scales on the preoperculum	6	6	6	6
Predorsal scales	14	14	13	14
Proportional measurements: (in percentage of standard length)				
Depth of body	28.3	28.0	28.7	31.5
Head length	32.1	32.2	32.9	32.1
Snout length	10.0	9.8	10.6	11.4
Maxillary length	13.1	13.2	13.6	13.4
Interorbital width	9.3	9.8	9.8	9.1
Eye diameter	9.7	9.8	8.3	8.2
Height of caudal peduncle	9.7	9.8	9.8	9.9
Length of pectoral fin	29.3	30.8	29.0	28.9
Length of pelvic fin	24.1	24.1	24.2	25.3
Suborbital width	4.5	4.7	4.5	4.8
4th dorsal spine	14.5	14.4	14.0	14.2
Last dorsal ray	17.1	17.9	17.0	16.8
3rd anal spine	8.6	9.2	9.5	8.8
Last anal ray	16.0	16.0	15.5	14.2

Remarks. — This new species is similar to *Pristipomoides filamentosus roseus* (CASTELNAU) in general appearance. *Pristipomoides microlepis* (BLEEKER) and

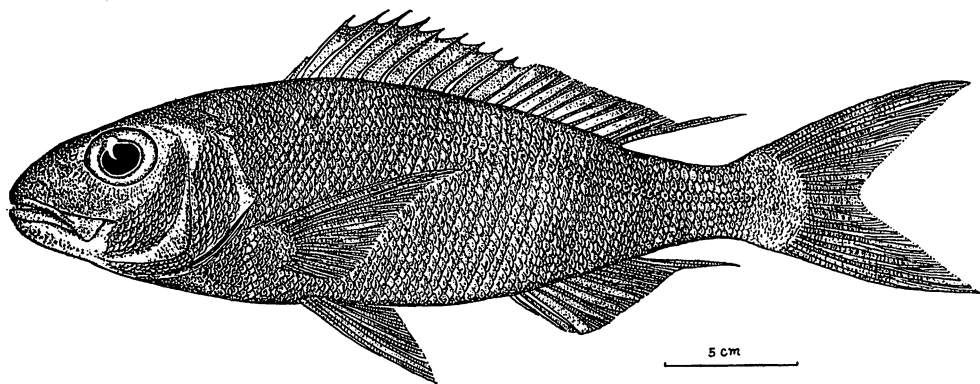


Fig. 1. Lateral aspect of holotype of *Pristipomoides flavipinnis* new sp.

pristipomoides filamentosus (VALENCIENNES) are possibly synonymous with *Pristipomoides filamentosus roseus*. The noticeable differences between them are as follows: in *roseus* dorsal fin has either the basal half yellowish, grading to pink distally or with a median yellowish band between red shades above and below, while in the new species, dorsal, anal and caudal fins are yellowish. Teeth of outer series on jaws are relatively short and slender in *roseus* while they are large in the new species. In *roseus* band of villiform teeth on palatines are narrow, the width is about half of that of the new species. Number of pyloric coeca is 8 to 10 (mostly 8) in *roseus*, while in the new species the number is 5 to 6 (mostly 5). In the new species, the eyes brighten especially with golden yellow, and the suborbital width is broader than that in *roseus*.

The species of *Pristipomoides* are a state of confusion, so the writer describes here the diagnoses of all species of *Pristipomoides* in Ryukyu Islands to facilitate any further revision.

KEY TO THE SPECIES OF *PRISTIPOMOIDES*

- a¹ Pored scales 50 to 52 in lateral line; no tooth on tongue. Lower gill rakers 11 to 14..... *Pristipomoides argyrogramicus* (VALENCIENNES)
- a² Pored scales 58 to 65 in lateral line; no teeth on tongue.
- b¹ Anterior canine teeth on jaws small; villiform tooth on vomer. Number of pyloric coeca 8 to 10 (mostly 8). Lower gill rakers about 17 to 19
..... *Pristipomoides filamentosus roseus* (CASTELNAU)
- b² Anterior canine teeth on jaws large; teeth on vomer are large, canine-like and few in number. Colour yellowish on back, median part pinkish, light silvery red on belly, scattered iridescent blue spots on scales of body. Pyloric coeca 5 to 6 (mostly 5). Lower gill rakers 12 to 14.....
..... *Pristipomoides amoenus* SNYDER

- b⁸ Anterior canine teeth on jaws large; villiform teeth on vomer. Pyloric coeca 5 to 6 (mostly 5). Lower gill rakers 15 to 17.....
 *Pristipomoides flavipinnis* new species
- a⁸ Pored scales 70 to 72 in lateral line.
- c¹ Vomerine teeth in an elongate diamond-shaped patch; heart shaped patch of teeth on tongue. Body dark rose red with violet iridescence, grading to silvery on belly. Lower gill rakers 20 to 21
 *Pristipomoides sieboldii* (BLEEKER)
- c² Vomerine teeth in a triangular patch; no tooth on tongue. Body dark purplish mottles with yellow, fins all yellowish. Lower gill rakers 17 to 20.....*Pristipomoides auricilla* (JORDAN, EVERMANN & TANAKA)

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