

## 东海鱼类两新种\*

许成玉 邓思明 熊国强 詹鸿禧

(国家水产总局东海水产研究所)

1975年5月,在浙江温州和福建福鼎外海,采得鱼类标本若干,经鉴定其中有2新种,分别隶属于后颌鲂科和鰕虎鱼科,并定名为无斑叉棘鲂 *Stalix immaculatus* Xu et Zhan sp. nov. 和斑头栉鰕虎鱼 *Ctenogobius puncticeps* Deng et Xiong sp. nov., 所有模式标本均存于国家水产总局东海水产研究所。现就两新种的特征分别记述如下。

无斑叉棘鲂(新种) *Stalix immaculatus* Xu et Zhan sp. nov. (图1)

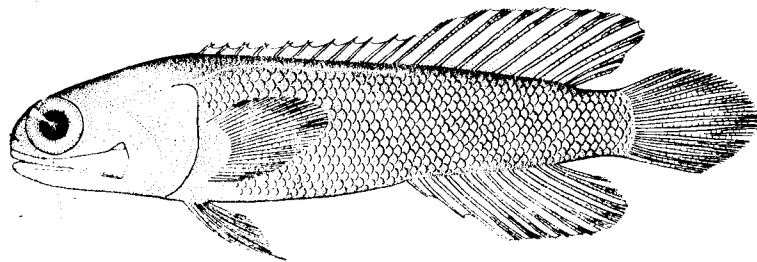


图1

**形态特征** 背鳍 XI-11; 臀鳍 II-11; 胸鳍 22-23; 腹鳍 I-5; 尾鳍分枝鳍条 12 (稀 11)。纵列鳞 44-46。

体延长,侧扁,体长为体高的 3.6-4.7 倍,为头长的 3.0-3.3 倍。头大,头长为眼径的 2.8-3.1 倍。吻短而钝。眼大,位于头的前端,其前上缘稍突出于头的背缘。眼间隔甚窄,凹入。鼻孔 2 个,紧接,前鼻孔管状,后鼻孔较大,裂缝状,紧接眼眶前缘。口大,前位,水平状。上颌骨宽大,后端截形或稍圆凸,远达眼后下方,头长为上颌长的 1.5-1.6 倍;上方具一辅上颌骨,下缘后半部有一小部分与上颌骨重叠。齿尖锥形,上下颌前方呈狭带状,两侧单行。犁骨与腭骨无齿。头部粘液孔明显,均呈单孔状;鼻孔前唇缘具 1 孔;沿眼下具 5 孔;眶后缘 5 孔;眼间隔处的头背部共具 6 孔,前方 4 孔位于眼眶前上缘,成对排列,后方 2 孔位于正中,成单排列;沿前鳃盖骨边缘具 6 孔,隅角处 1 个最大;下颌腹侧具 5 孔,第一、二孔小而紧接,后面 3 个大而稀疏,最后 1 个位于眼后缘的下方。鳃盖膜与峡部不连。鳃耙发达,细长, 13 + 20。

体被圆鳞,头部、项部、胸鳍基部及胸部无鳞。侧线管状,位高,始于头部,在鳃孔背缘

\* 标本系原上海市水产研究所邱望春同志采获,“斑头栉鰕虎鱼”文稿承厦门大学水产学院伍汉霖同志审阅,附图由本所吕少屏同志绘制,在此一并致谢。

本刊编辑部收到稿件日期: 1979年4月9日。

弯向上方,沿背鳍基底后延,止于背鳍最后鳍棘的下方,体后半部无侧线。

背鳍1基,位于鳃孔后缘上方,前方5—6鳍棘较短,末端呈Y形分叉,鳍棘间有肉质皮膜相连,后部数鳍棘细长;背鳍鳍条长于鳍棘,最后2鳍条基部甚接近,后方鳍条伸达尾鳍基。臀鳍与背鳍鳍条部相似。胸鳍较宽,尖圆形。腹鳍喉位,第2鳍条最长,腹鳍长几等于胸鳍长。尾鳍后端圆形。

浸制标本,体侧沿背鳍基底有一不明显的灰褐色带;吻部、唇缘、下颌前部深褐色。头顶正中黄褐色,散有褐色小点。背鳍第2—4及第6—8鳍棘间鳍膜黑色(有些标本不明显)。

**评述** 本种与产于阿曼湾的花颊叉棘魮 *Stalix omanensis* Norman<sup>[15]</sup> 十分相似,两者鳃盖后缘及邻近鳃膜无斑块,尾鳍无条纹,眶下粘液孔及下颌第五粘液孔均为单孔型,尾鳍分枝鳍条12;但花颊叉棘魮的颊部具小黑点,眶下粘液孔9个,排列不整齐,而本种颊部无小黑点,眶下粘液孔10个,排列整齐(图2)。

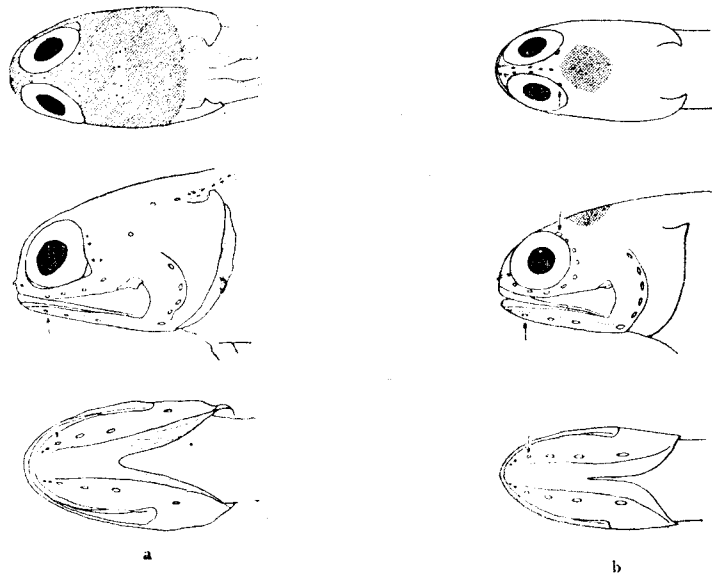


图2

**命名** 本种因颊部无小黑斑,故名。

**正模标本** 标本号 SH 75-656, 体长35毫米, 1975年5月31日采自浙江温州外海, 水深80—90米。

**副模标本** 4尾, 标本号 SH 75-664, SH 75-707, 体长24—30毫米, 采集时间与地点同模式标本; SH 75-708, SH 75-709, 体长29—31毫米, 1975年5月30日采自福鼎外海, 水深110米。

**斑头栉鰕虎鱼(新种) *Ctenogobius puncticeps* Deng et Xiong sp. nov.**(图3)

**形态特征** 背鳍 VI, 12; 臀鳍 12—13; 胸鳍 18—19; 腹鳍 I-5; 尾鳍 16。纵列鳞 27—30, 横列鳞 7—8。

体延长,侧扁,体长为体高的4.7—6.0倍,为头长的3.4—4.1倍。头中等大,头长为吻

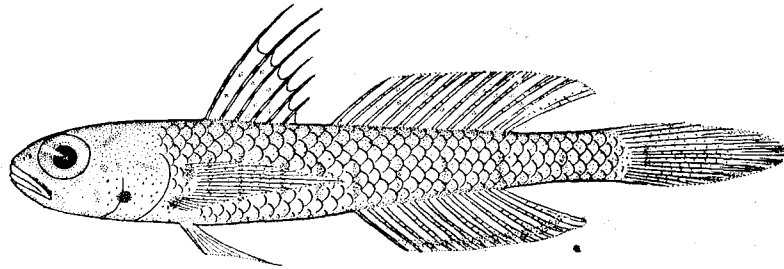


图 3

长的 4.0—5.3 倍,为眼径的 2.7—3.6 倍,为尾鳍长的 0.7—1.0 倍。吻颇短。眼较大,眼径约为吻长的 2 倍。两眼上缘略凸起,中间凹入,眼间隔甚窄。鼻孔 2 个,前鼻孔有短管,后鼻孔无管,位于眼前方正中。口前位,稍斜,上颌骨向后延伸至眼中央下方。齿小、锐尖,两颌前方多行,后侧 2 行,外行齿均扩大,近缝合处呈犬齿状,排列较稀疏,齿头弯向内方;上颌内行齿在前方有 1—2 枚扩大成犬齿,下颌内行齿在前部 1/3 处有数枚扩大的齿,最后 2—3 枚扩大成犬齿。犁骨、腭骨及舌上均无齿。舌游离,前端平或微凹。唇略厚。鳃盖膜与峡部相连。鳃耙 0 + 8—9,近隅角处鳃耙长,向两端逐渐缩短,最后 1 枚很小。雄鱼生殖乳头细而尖,雌鱼短而圆钝。

体被中等大栉鳞,头部完全无鳞,项部至背鳍起点前方无鳞。

背鳍 2 个,分离,第 1 至 3 鳍棘尖端游离,呈丝状,平放时可伸达第 2—3 鳍条间;第 2 背鳍鳍条中等长,头长约为其长的 1.5 倍,平放时后部鳍条几达尾鳍基底。臀鳍起点约在第 2 背鳍第 2 鳍条基部下方,高度与外缘几与第 2 背鳍相似。胸鳍稍尖,约等于头长。腹鳍短于胸鳍。尾鳍尖圆,等于或稍长于头长。

新鲜标本,颊部及鳃盖具不规则黄斑 5—7 个,眼后至项部具 1 淡黄色斜纹。唇缘红色,前鳃盖骨后下方具 1 红斑。胸鳍基部及上方各有一黄斑。体侧具淡黄色横纹 9 条,第 1 背鳍下方具 3 条,第 1 和第 2 背鳍间下方 1 条,第 2 背鳍下方 4 条,尾柄处 1 条。第 1 背鳍鳍棘上端红色,鳍棘间的鳍膜具淡黄色斑点。第 2 背鳍鳍膜也具淡黄色斑点。臀鳍边缘具淡黄色纵纹。尾鳍边缘内侧具淡黄色条纹。腹鳍灰黑色。

本种与裸项栉鰕虎鱼 *Ctenogobius gymnauchen* (Bleeker) 相近,其不同点背鳍鳍条为 12 (后者为 10); 臀鳍鳍条为 12—13 (后者为 10); 眼较大,头长为眼径 2.7—3.6 倍 (后者为 4.06—4.68 倍); 吻较短,眼径为吻长的 2 倍 (后者几等长); 此外,头部、体侧和奇鳍上斑纹也甚不同。

**命名** 根据本种头部具斑和纹而命名,这些斑、纹即使在浸泡后仍保留或仅褪成浅色。

**正模标本** 标本号 SH 75-653, 体长 38 毫米 (♀), 1975 年 5 月 29 日采自浙江温州外海,水深 76 米。

**配模标本** 标本号 SH 75-697, 体长 34 毫米 (♂), 1975 年 5 月 31 日采自浙江温州外海,水深 80 米。

**副模标本** 5 尾, 标本号 SH 75-655, SH 75-666, SH 75-696, SH 75-699, SH 75-701, 体长 29—37 毫米, 1975 年 5 月 30—31 日采自浙江温州外海,水深 82—98 米。

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## TWO NEW FISHES FROM EAST CHINA SEA

Xu Chengyu, Deng Siming, Xiong Guoqiang and Zhan Hongxi\*

(East China Sea Fisheries Institute, China National Bureau of Aquatic Products)

## Abstract

Some fish specimens were collected from the East China Sea off Wenzhou (Zhejiang Province) and Fuding (Fujian Province) in May, 1975. Of which, *Stalix immaculatus* and *Ctenogobius puncticeps* are considered as new to science, and described as follows. The holotype, allotype and paratypes are deposited in the East China Sea Fisheries Institute, China National Bureau of Aquatic Products.

***Stalix immaculatus* Xu et Zhan sp. nov. (Figure 1)**

D. XI-11; A. II-11; P. 22—23; V. I-5; C. 12 branched rays (scarcely 11). Scales in lateral series 44—46.

Body rather elongate, compressed, 3.6—4.7 in length, head 3.0—3.3. Head large, eye diameter 2.8—3.1. Snout short and blunt. Eye large, placed in anterior part of

head, the upper rim projecting above contour of head, interorbital space narrow, concave. Nostrils 2, set closely, anterior nostril tubular, posterior nostril a simple hole, situated near the anterior edge of eye. Mouth large, terminal, lower and horizontal. Maxillary broad, its posterior edge truncate or slightly convex, extending far beyond eye; the small supramaxilla present, the lower edge of its posterior part covering the upper margin of maxillary. Teeth conical, in narrow bands anteriorly, the bands narrowing and becoming a single row posteriorly, vomer and palatine toothless. The cephalic pore all simple, a small pore located on the anterior margin of the upper lip in front of nostril, suborbital pores 5, postorbital pores 5. Interorbital pores 6 in total rather small, the first 4 arranged in 2 pairs and situated on the anterior superorbital margin, behind which the other 2 pores arranged in a median series. Along the preopercular margin are 6 pores, the largest on its angle, 5 pores on lateral-ventral side of lower jaw, 1st and 2nd pores rather small and close-set, the others larger and wide-set, the last one below the posterior orbital margin. Gill-membrane free from isthmus, gill-rakers developed, slender, 13 + 20 in first arch.

Body covered with thin, cycloid scales; head, nape, pectoral fin base and breast naked. Lateral line incomplete, tube-like, rather high in position, originated from head, curved upward over gill-opening, extending near the dorsal fin base, ending to the last spine of dorsal backward.

Dorsal fin continuous, inserted above the posterior edge of gill opening, the 5—6 anterior spines forked as Y shape, connected by the fleshy fin membrane, the posterior spines as usual; soft rays longer than spines, the base of the last two rays rather close-set, some posterior rays reaching to the caudal base. Soft dorsal and anal fin similar. Pectorals broader, obtuse-pointed. Ventrals thoracic, pointed, second ray longest, its length similar to pectoral. Caudal rounded.

In formalin, an indistinct narrow grey dusky band along the base of dorsal fin. Snout, margin of lips and anterior part of lower jaw dusky. Top of head yellow brownish, scattered with minute deep brownish spots. The membranes between 2nd to 4th and 6th to 8th of spinous dorsal black (some specimens none), without any bands on all other fins.

**Remarks** The present species closely resembles *Stalix omanensis* Norman recorded in Oman Gulf, both species having the posterior edge of opercle and adjacent branchiostegal membrane not conspicuously pigmented, caudal fin uniformly pigmented, and all with simple pattern of infraorbital pores and fifth mandibular one. It should be pointed out that *S. omanensis* has numerous small black spots on cheek, 9 infraorbital pores and not arranged in order, but the present species has no small black spots on cheek, 10 infraorbital pores and arranged in good order.

**Named** *immaculatus* in reference to having no spots on cheeks and top of head.

**Holotype** No. SH75-656, 35 mm in length, collected from off Wenzhou, Zhejiang Province, depth 80—90 m, on May 31, 1975.

**Paratypes** 4: Nos. SH75-664, SH75-707, 24—30 mm in length, collected with the holotype specimen. Nos. SH75-708—709, 29—31 mm in length, collected from off Fuding, Fujian Province, depth 110 m, on May 30, 1975.

***Ctenogobius puncticeps*** Deng et Xiong sp. nov. (Figure 3)

D. VI, 12; A. 12—13; P. 18—19; V. I-5; C. 16. Scales in lateral series 27—30. transverse series 7—8.

Body elongate, compressed, 4.7—6.0 in length, head 3.4—4.1. Snout short, 4.0—5.3 in head, about  $\frac{1}{2}$  in eye. Eye rather large, upper orbit margin slightly convex, interorbital space narrow. Teeth sharp, in narrow bands on both jaws anteriorly, two rows in lateral, outer rows enlarged, in front on each side some caninoid teeth.

Scales of body ctenoid, head naked, nape with a naked space extending backward to origin of dorsal.

Dorsal spines with filaments, the 1st-3rd very long and slender, when depressed, reaching posteriorly between second and third rays, genital papillae slender and pointed in male, blunt and short in female.

Color in fresh, 6—7 irregular yellow blotches on cheek and opercle, a yellow oblique stripe from eye to nape, lateral margin of upper lip reddish, the posterior margin of preopercle with a red spot; a yellow blotch both above the pectoral and on the base of pectoral; 9 yellow vertical bands on side of body; tip of 1st dorsal spine reddish, the membranes of spines and soft dorsal with yellow spots; anal with a yellow longitudinal stripe.

**Remarks** The present species closely resembles *Ctenogobius gymnauchen* (Bleeker), but differs from it in having 12 rays in the dorsal fin (10 in latter); 12—13 rays in the Anal fin (10 in latter), eye rather large, 2.7—3.6 in head (4.06—4.68 in latter); snout rather short, 2 in eyediameter (about equal in latter); besides this, the spots, bands and stripes is a noticeable difference in the head, body and vertical fins.

**Named** *puncticeps* in reference to the irregular yellow blotches and stripes on head (even in formalin they still remained but faded into pale).

**Holotype** No. SH75-653, 38 mm in length (♀), collected from off Wenzhou, Zhejiang Province, depth 76 m, on May 29, 1975.

**Allotype** No. SH75-697, 34 mm in length (♂), collected from off Wenzhou, depth 80 m, on May 31, 1975.

**Paratypes** 5: Nos. SH75-655, SH75-666, SH75-696, SH75-699, SH75-701, 29—37 mm in length, collected from off Wenzhou, depths 82—93 m, on May 30—31, 1975.