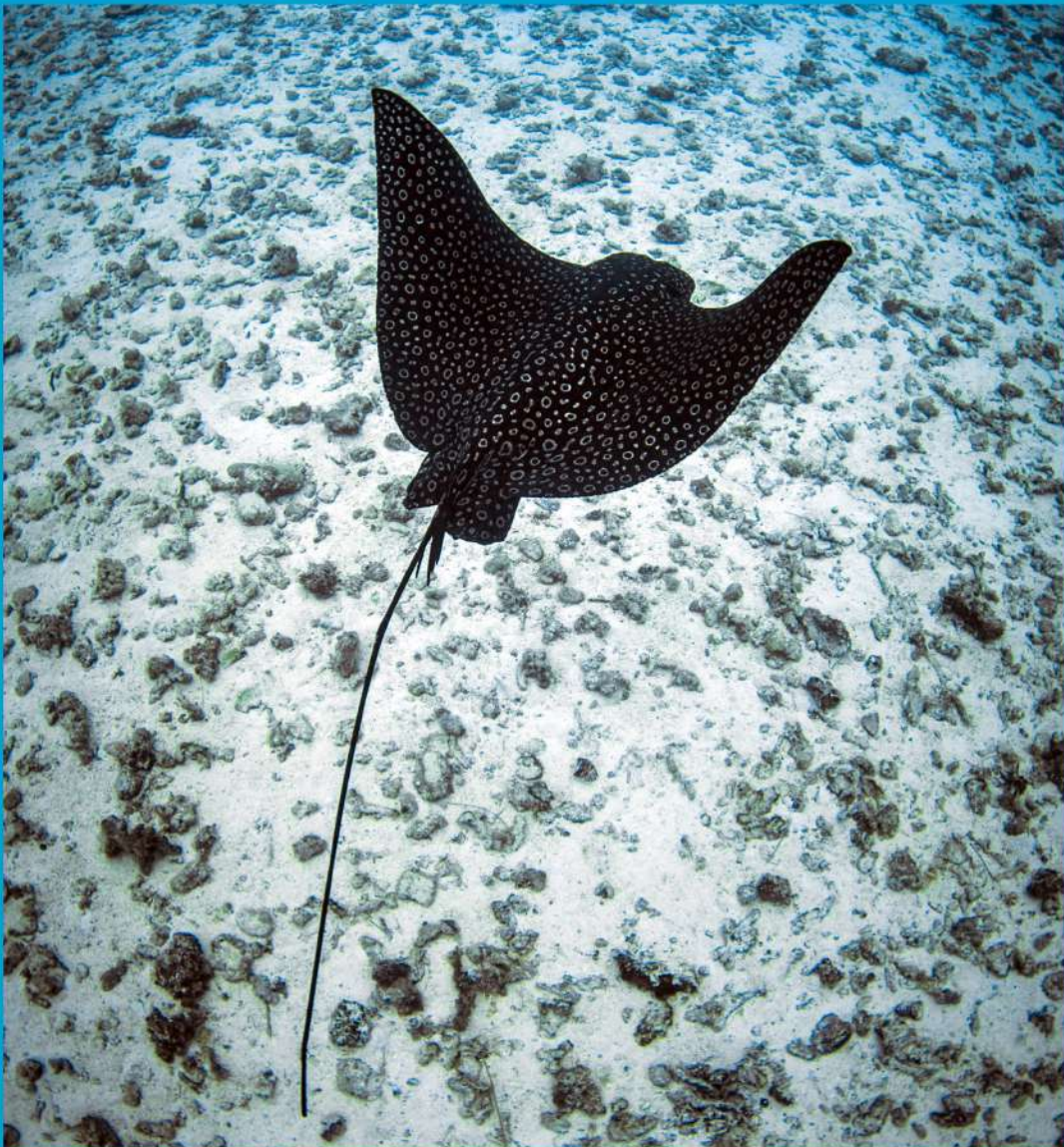


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## A first record of the vanishing silhouette goby *Silhouettea evanida* (Gobiidae) in Indonesian waters

by

Muhammad IQBAL\* (1), Doni SETIAWAN (2), Riza KADARISMAN (3),  
Arum SETIAWAN (2) & Indra YUSTIAN (2)

**Resumé.** – Premier signalement de l'espèce *Silhouettea evanida* (Gobiidae) dans les eaux indonésiennes.

En avril 2017, plusieurs individus de l'espèce *Silhouettea evanida* ont été identifiés et photographiés à l'embouchure de la rivière Sembilang, province de Sumatra du Sud, en Indonésie. Jusqu'à présent, il n'y a eu aucun signalement de *Silhouettea evanida* en Indonésie, et celui-ci représente une première occurrence pour le pays.

**Key words.** – Gobiidae – *Silhouettea evanida* – Indonesia – Sumatra – Sembilang River – Estuarine.

The Gobiidae family is one of the largest families of fish that comprises 258 genera and 1771 species (Larson and Miller, 1986; Nelson, 2006; Larson *et al.*, 2016; Eschmeyer, 2017). They are usually discrete species and most of them are of small size. One of them (*Trimmatom nanus* Winterbottom & Emery, 1981) matures at 8 mm (Larson and Murdy, 2001).

The taxonomy of gobies is complex and to distinguish some genera requires a microscope examination (Kottelat *et al.*, 1993). Up to date, descriptions and illustrations are scattered and sometimes hard to find (Larson and Lim, 2005). These difficulties have often been compounded when genera were erected with merely one reference to the type species, the descriptions of which are often inadequate and without figures (Gill *et al.*, 1992; Gill, 1993).

One of the smallest goby group is the genus *Silhouettea* (Larson and Miller, 1986; Randall, 2008). The genus *Silhouettea* was named for the type locality, the Silhouette Island in the Seychelles, east of Africa (Smith, 1959; Randall, 2008). This genus comprises several small tropical Indo-Pacific gobiid species usually found on sandy ground in shallow inshore and estuarine waters (Larson and Miller, 1986). One of the characters used to define the genus is that the species have more anal than dorsal soft rays (Larson and Murdy, 2001; Larson and Lim 2005; Randall, 2008). There are at least eight species present in the Indo-West Pacific (Larson and Lim, 2005).

The species *Silhouettea evanida* Larson & Miller, 1986 was originally described on the basis of specimens from the Northern Territory and Queensland, Australia (Larson and Miller, 1986). This species is a small, benthic, cryptic goby found in quiet shallows on a sand or sandy-mud substrate, for example beaches and mangrove creeks (Larson and Miller, 1986; Larson and Murdy, 2010).

The name of the species is derived from *evanidus*, meaning “disappearing” or “vanishing”, and refers to the ability for rapid concealment (Larson and Miller, 1986).

### RESULTS AND DISCUSSION

The specimens of *S. evanida* were found during an aquatic biodiversity survey that took place between April 1<sup>st</sup> and 4<sup>th</sup>, 2017 in the estuary of the Sembilang River (02°00'36.6”S; 104°40'23.40”E), Banyuasin district, South Sumatra, Indonesia (Fig. 1). Two individuals (one male and one female), respectively of 20 and 22 mm SL (22 and 27 mm TL), were measured and photographed. These individuals were caught from the estuarine habitat on sandy substrate, surrounded by mangrove forest. This area is part of the Berbak-Sembilang National Park and, due to restrictions of our research permits, we had no authorization to bring any specimens outside the park.

The fish were initially identified as *S. evanida* by the following specific characters referring to the description by Larson and Miller (1986): body elongate, compressed; head about one quarter of SL; snout about equal to or slightly shorter than eye; eyes large, dorso-lateral; caudal rounded, about equal to head length; first dorsal fin origin opposite anterior part of pectoral and first spines extending over origin of second dorsal; second dorsal fin origin slightly behind anal origin; posterior tip of second dorsal may reach just over upper origin of caudal; anal fin origin in advance of second dorsal origin; pectoral fin tip reaches to below second dorsal origin; pelvic disc long, beyond anal origin; frenum well-developed; lateral blotches small; nape with transverse band of fine melanophores, narrower than pupil; branchiostegal membrane pale in both sexes (Fig. 2).

Aside from Australian waters, this species has been reported from Phuket waters and mangrove estuary at Sikao, Thailand (Tongnunui *et al.*, 2002; Froese and Pauly, 2017; GBIF, 2017). There is no previous report on the occurrence of *S. evanida* in any country between Thailand and Australia (Larson and Murdy, 2010; Froese and Pauly, 2017; GBIF, 2017). Kottelat (2013) only listed this species within the *Silhouettea* genus that occurs in inland waters (freshwaters, mangroves and estuaries) of Southeast Asia. The record of *S. evanida* in the Sembilang River estuary constitutes a first country record in Indonesian waters.

The IUCN Red List of Threatened Species assessed the status of this species as Data Deficient (Larson and Murdy, 2010) as

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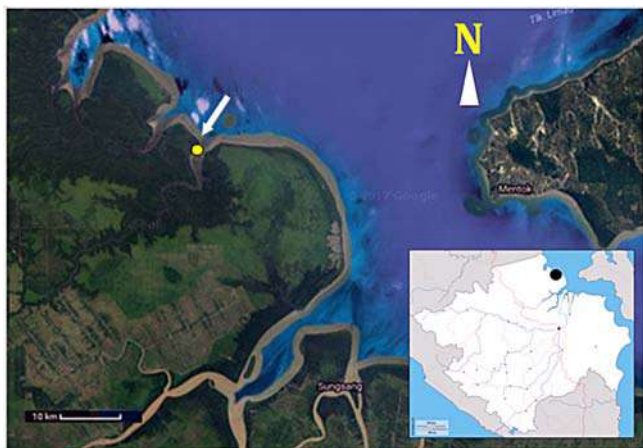


Figure 1. – Map showing location of *Silhouettea evanida* in Sembilang River, Banyuasin district, South Sumatra province, Indonesia.

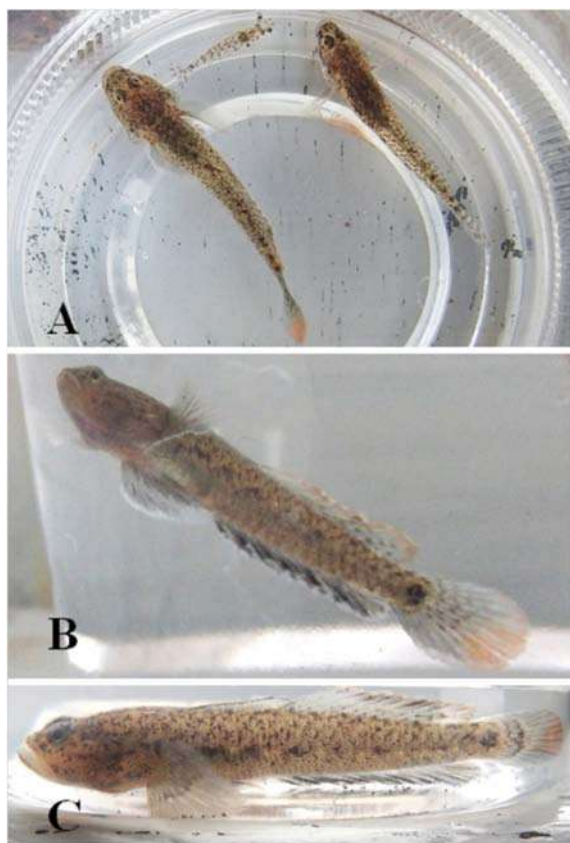


Figure 2. – Living specimens of *Silhouettea evanida* caught in Sembilang River, Banyuasin district, South Sumatra province, Indonesia. A Dorsal view; B: Female, 22 mm SL; C: Male, 20 mm SL.

there is very little available information on distribution, abundance or potential threats for this species and further research would be needed on *S. evanida*.

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## REFERENCES

- ESCHMEYER W.N., FRICKE R. & VAN DER LAAN R. (eds), 2017. – Catalog of Fishes. <http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>. Electronic version downloaded on 09 Oct. 2017.
- FROESE R. & PAULY D. (eds), 2017. – FishBase, World Wide Web electronic publication. [www.fishbase.org](http://www.fishbase.org), version Jun. 2017.
- GBIF SECRETARIAT, 2017. – *Silhouettea evanida* Larson & Miller, 1986 in GBIF Backbone Taxonomy. Checklist Dataset <https://doi.org/10.15468/39omei>. Downloaded on 09 Oct. 2017.
- GILL H.S., 1993. – Description of a new genus of goby from southern Australia, including osteological comparisons with related genera. *Rec. West. Aust. Mus.*, 16(2): 175-210
- GILL H.S., BRADLEY J.S. & MILLER P.J., 1992. – Validation of the use of cephalic lateral-line papillae patterns for determining relationships among gobioid genera. *Zool. J. Linn. Soc.*, 106(2): 97-114.
- KOTTELAT M., 2013. – The fishes of inland waters of Southeast Asia: a catalogue and core bibliography of the fishes known to occur in freshwaters, mangroves and estuaries. *Raffles Bull. Zool. Suppl.*, 27: 1-663.
- KOTTELAT M., WHITTEN A. J., KARTIKASARI S.N. & WIRJOATMODJO S., 1993. – Freshwater Fishes of Western Indonesia and Sulawesi. 259 p. + 84 pls. Periplus: Hong Kong.
- LARSON H.K. & LIM K.K.P., 2005. – A Guide to Gobies of Singapore. 164 p. National Science Centre: Singapore.
- LARSON H.K. & MILLER P.J., 1986. – Two new species of *Silhouettea* (Gobiidae) from northern Australia. *Jpn J. Ichthyol.*, 33(2): 110-118.
- LARSON H.K. & MURDY E.O., 2001. – Gobiidae (Gobies) In: FAO Species Identification Guide for Fishery Purposes. The Living Marine Resources of the Western Central Pacific. Vol. 6. Bony fishes part 4 (Labridae to Latimeriidae), estuarine crocodiles (Carpenter K.E. & Niem V., eds), pp. 3578-3603. Rome: FAO.
- LARSON H.K. & MURDY E.O., 2010. – *Silhouettea evanida*. The IUCN Red List of Threatened Species 2010. <http://dx.doi.org/10.2305/IUCN.UK.2010-4.RLTS.T154769A4629584.en>.
- LARSON H.K., JAAFAR Z. & LIM K.K.P., 2016. – An updated checklist of the gobioid fishes of Singapore. *Raffles Bull. Zool. Suppl.*, 34: 744-757.
- NELSON J.S., 2006. – Fishes of the World. 4<sup>th</sup> Edit., 601 p. Hoboken: John Wiley & Sons.
- RANDALL J.E., 2008. – Two new species and three new records of gobioid fishes from the Marshall Islands. *Micronesica*, 40(1-2): 285-303.
- SMITH J.L.B., 1959. – Gobioid fishes of the families Gobiidae, Periophthalmidae, Trypauchenidae, Taenioididae and Kraemeriidae of the western Indian Ocean. *Ichthyol. Bull. Rhodes Univ.*, 13: 185-225.
- TONGNUNUI P., TANYAROS S., MEDEJ T., KUROKURA H., HORINOUCHE M., IKEJIMA K., KANOU K., SANO M. & YAMANE T., 2002. – Illustrated Fish Fauna of a Mangrove Estuary at Sikao, southwestern Thailand. 59 p. Trang Project for Biodiversity and Ecological Significance of Mangrove Estuaries in Southeast Asia, Rajamangala Institute of Technology and the University of Tokyo: Trang and Tokyo.



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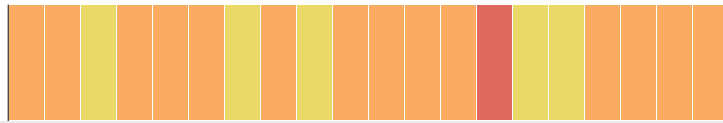
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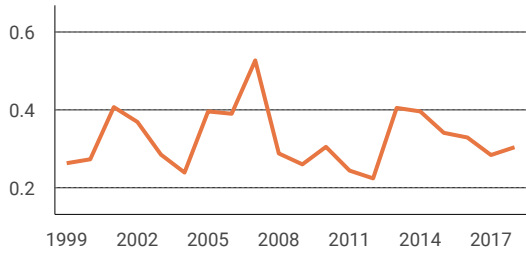
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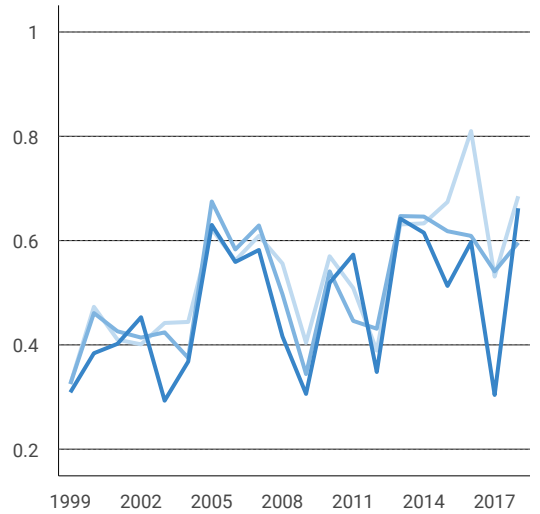
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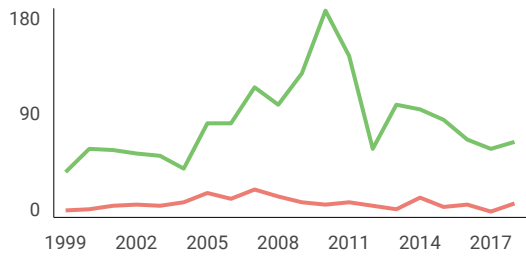
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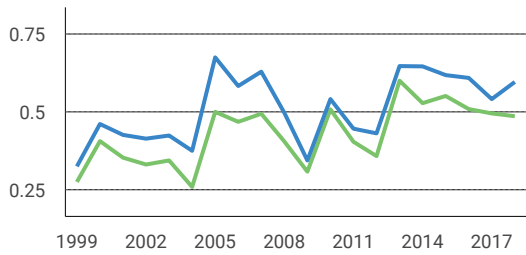
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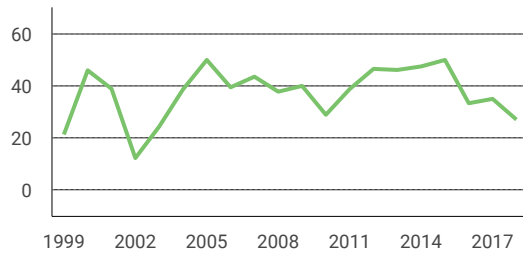
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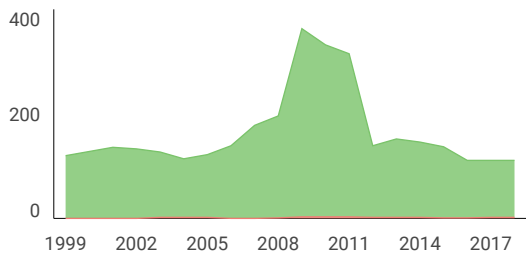
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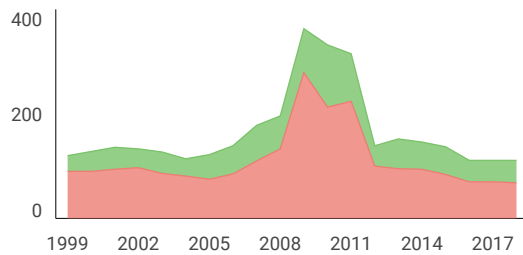
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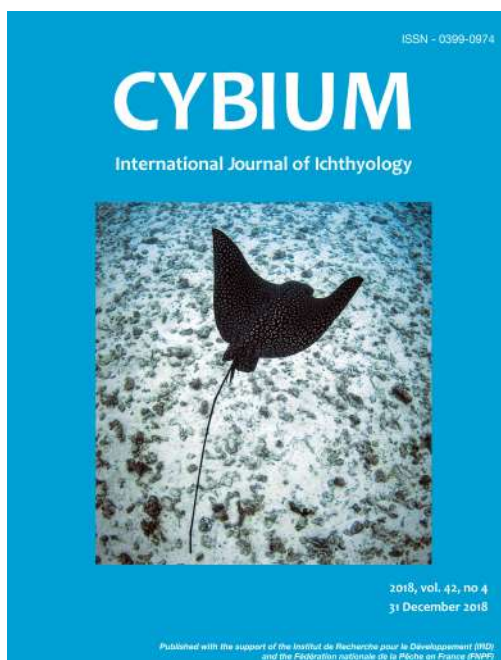


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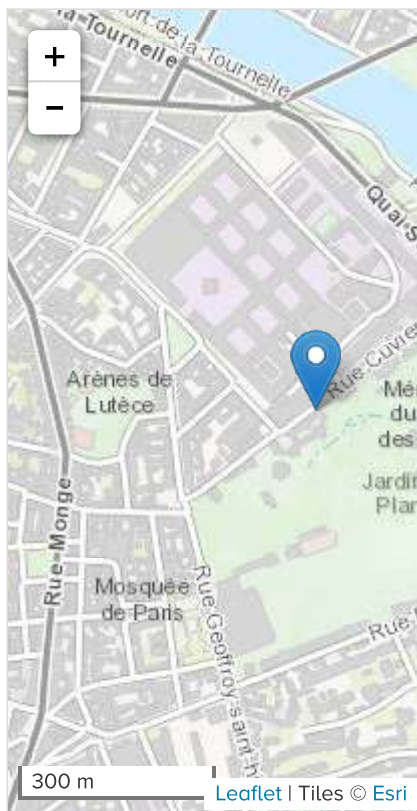
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First cover: *Aetobatis ocellatus* (© Lauric Thiault)

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# A first record of the vanishing silhouette goby *Silhouettea evanida* (Gobiidae) in Indonesian waters

*By Arum Setiawan*



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## A first record of the vanishing silhouette goby *Silhouettea evanida* (Gobiidae) in Indonesian waters

by

Muhammad IQBAL\* (1), Doni SETIAWAN (2), Riza KADARISMAN (3),  
Arum SETIAWAN (2) & Indra YUSTIAN (2)

**Resumé.** – Premier signalement de l'espèce *Silhouettea evanida* (Gobiidae) dans les eaux indonésiennes.

En avril 2017, plusieurs individus de l'espèce *Silhouettea evanida* ont été identifiés et photographiés à l'embouchure de la rivière Sembilang, province de Sumatra du Sud, en Indonésie. Jusqu'à présent, il n'y a eu aucun signalement de *Silhouettea evanida* en Indonésie, et celui-ci représente une première occurrence pour le pays.

**Key words.** – Gobiidae – *Silhouettea evanida* – Indonesia – Sumatra – Sembilang River – Estuarine.

The Gobiidae family is one of the largest families of fish that comprises 258 genera and 1771 species (Larson and Miller, 1986; Nelson, 2006; Larson *et al.*, 2016; Eschmeyer, 2017). They are usually discrete species and most of them are of small size. One of them (*Trimmatom nanus* Winterbottom & Emery, 1981) matures at 8 mm (Larson and Murdy, 2001).

The taxonomy of gobies is complex and to distinguish some genera requires a microscope examination (Kottelat *et al.*, 1993). Up to date, descriptions and illustrations are scattered and sometimes hard to find (Larson and Lim, 2005). These difficulties have often been compounded when genera were erected with merely one reference to the type species, the descriptions of which are often inadequate and without figures (Gill *et al.*, 1992; Gill, 1993).

One of the smallest goby group is the genus *Silhouettea* (Larson and Miller, 1986; Randall, 2008). The genus *Silhouettea* was named for the type locality, the Silhouette Island in the Seychelles, east of Africa (Smith, 1959; Randall, 2008). This genus comprises several small tropical Indo-Pacific gobiid species usually found on sandy ground in shallow inshore and estuarine waters (Larson and Miller, 1986). One of the characters used to define the genus is that the species have more anal than dorsal soft rays (Larson and Murdy, 2001; Larson and Lim 2005; Randall, 2008). There are at least eight species present in the Indo-West Pacific (Larson and Lim, 2005).

The species *Silhouettea evanida* Larson & Miller, 1986 was originally described on the basis of specimens from the Northern Territory and Queensland, Australia (Larson and Miller, 1986). This species is a small, benthic, cryptic goby found in quiet shallows on a sand or sandy-mud substrate, for example beaches and mangrove creeks (Larson and Miller, 1986; Larson and Murdy, 2010).

The name of the species is derived from *evanidus*, meaning “disappearing” or “vanishing”, and refers to the ability for rapid concealment (Larson and Miller, 1986).

### RESULTS AND DISCUSSION

The specimens of *S. evanida* were found during an aquatic biodiversity survey that took place between April 1<sup>st</sup> and 4<sup>th</sup>, 2017 in the estuary of the Sembilang River (02°00'36.6"S; 104°40'23.40"E), Banyuasin district, South Sumatra, Indonesia (Fig. 1). Two individuals (one male and one female), respectively of 20 and 22 mm SL (22 and 27 mm TL), were measured and photographed. These individuals were caught from the estuarine habitat on sandy substrate, surrounded by mangrove forest. This area is part of the Berbak-Sembilang National Park and, due to restrictions of our research permits, we had no authorization to bring any specimens outside the park.

The fish were initially identified as *S. evanida* by the following specific characters referring to the description by Larson and Miller (1986): body elongate, compressed; head about one quarter of SL; snout about equal to or slightly shorter than eye; eyes large, dorsolateral; caudal rounded, about equal to head length; first dorsal fin origin opposite anterior part of pectoral and first spines extending over origin of second dorsal; second dorsal fin origin slightly behind anal origin; posterior tip of second dorsal may reach just over upper origin of caudal; anal fin origin in advance of second dorsal origin; pectoral fin tip reaches to below second dorsal origin; pelvic disc long, beyond anal origin; frenum well-developed; lateral blotches small; nape with transverse band of fine melanophores, narrower than pupil; branchiostegal membrane pale in both sexes (Fig. 2).

Aside from Australian waters, this species has been reported from Phuket waters and mangrove estuary at Sikao, Thailand (Tongnunui *et al.*, 2002; Froese and Pauly, 2017; GBIF, 2017). There is no previous report on the occurrence of *S. evanida* in any country between Thailand and Australia (Larson and Murdy, 2010; Froese and Pauly, 2017; GBIF, 2017). Kottelat (2013) only listed this species within the *Silhouettea* genus that occurs in inland waters (freshwaters, mangroves and estuaries) of Southeast Asia. The record of *S. evanida* in the Sembilang River estuary constitutes a first country record in Indonesian waters.

The IUCN Red List of Threatened Species assessed the status of this species as Data Deficient (Larson and Murdy, 2010) as

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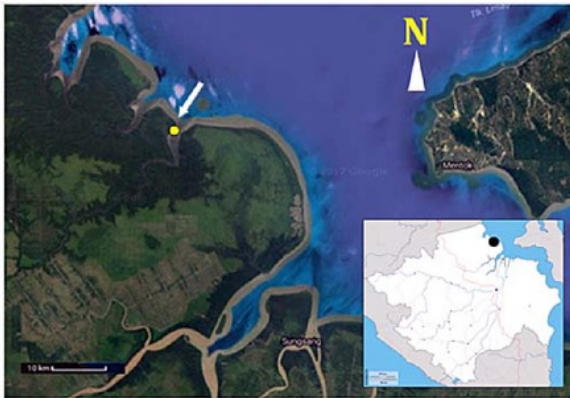


Figure 1. – Map showing location of *Silhouettea evanida* in Sembilang River, Banyuasin district, South Sumatra province, Indonesia.

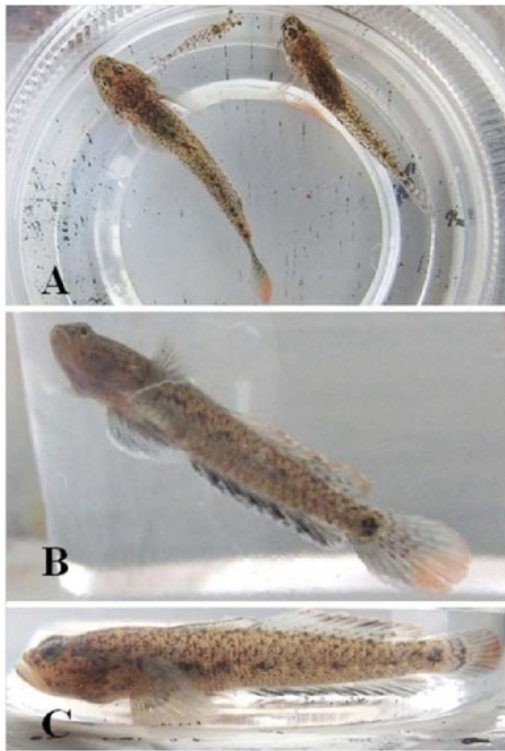


Figure 2. – Living specimens of *Silhouettea evanida* caught in Sembilang River, Banyuasin district, South Sumatra province, Indonesia. A Dorsal view; B: Female, 22 mm SL; C: Male, 20 mm SL.

there is very little available information on distribution, abundance or potential threats for this species and further research would be needed on *S. evanida*.

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## REFERENCES

- ESCHMEYER W.N., FRICKE R. & VAN DER LAAN R. (eds), 2017. – Catalog of Fishes. <http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>. Electronic version downloaded on 09 Oct. 2017.
- FROESE R. & PAULY D. (eds), 2017. – FishBase, World Wide Web electronic publication. [www.fishbase.org](http://www.fishbase.org), version Jun. 2017.
- GBIF SECRETARIAT, 2017. – *Silhouettea evanida* Larson & Miller, 1986 in GBIF Backbone Taxonomy. Checklist Dataset <https://doi.org/10.15468/39omei>. Downloaded on 09 Oct. 2017.
- GILL H.S., 1993. – Description of a new genus of goby from southern Australia, including osteological comparisons with related genera. *Rec. West. Aust. Mus.*, 16(2): 175-210
- GILL H.S., BRADLEY J.S. & MILLER P.J., 1992. – Validation of the use of cephalic lateral-line papillae patterns for determining relationships among gobioid genera. *Zool. J. Linn. Soc.*, 106(2): 97-114.
- KOTTELAT M., 2013. – The fishes of inland waters of Southeast Asia: a catalogue and core bibliography of the fishes known to occur in freshwaters, mangroves and estuaries. *Raffles Bull. Zool. Suppl.*, 27: 1-663.
- KOTTELAT M., WHITTEN A. J., KARTIKASARI S.N. & WIRJOATMODJO S., 1993. – Freshwater Fishes of Western Indonesia and Sulawesi. 259 p. + 84 pls. Periplus: Hong Kong.
- LARSON H.K. & LIM K.K.P., 2005. – A Guide to Gobies of Singapore. 164 p. National Science Centre: Singapore.
- LARSON H.K. & MILLER P.J., 1986. – Two new species of *Silhouettea* (Gobiidae) from northern Australia. *Jpn J. Ichthyol.*, 33(2): 110-118.
- LARSON H.K. & MURDY E.O., 2001. – Gobiidae (Gobies) In: FAO Species Identification Guide for Fishery Purposes. The Living Marine Resources of the Western Central Pacific. Vol. 6. Bony fishes part 4 (Labridae to Latimeriidae), estuarine crocodiles (Carpenter K.E. & Niem V., eds), pp. 3578-3603. Rome: FAO.
- LARSON H.K. & MURDY E.O., 2010. – *Silhouettea evanida*. The IUCN Red List of Threatened Species 2010. <http://dx.doi.org/10.2305/IUCN.UK.2010-4.RLTS.T154769A4629584.en>.
- LARSON H.K., JAAFAR Z. & LIM K.K.P., 2016. – An updated checklist of the gobioid fishes of Singapore. *Raffles Bull. Zool. Suppl.*, 34: 744-757.
- NELSON J.S., 2006. – Fishes of the World, 4<sup>th</sup> Edit., 601 p. Hoboken: John Wiley & Sons.
- RANDALL J.E., 2008. – Two new species and three new records of gobioid fishes from the Marshall Islands. *Micronesica*, 40(1-2): 285-303.
- SMITH J.L.B., 1959. – Gobioid fishes of the families Gobiidae, Periophthalmidae, Trypauchenidae, Taenioididae and Kraemeriidae of the western Indian Ocean. *Ichthyol. Bull. Rhodes Univ.*, 13: 185-225.
- TONGNUNUI P., TANYAROS S., MEDEJ T., KUROKURA H., HORINOUCHE M., IKEJIMA K., KANOU K., SANO M. & YAMANE T., 2002. – Illustrated Fish Fauna of a Mangrove Estuary at Sikao, southwestern Thailand. 59 p. Trang Project for Biodiversity and Ecological Significance of Mangrove Estuaries in Southeast Asia, Rajamangala Institute of Technology and the University of Tokyo: Trang and Tokyo.



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| • Kelengkapan dan Kesesuaian Unsur:                            | Resume dalam Bahasa yang berbeda dengan narasi.  |                         |                                       |                                       |  |                            |
| • Ruang Lingkup dan Kedalaman Pembahasan:                      | Masih dalam lingkup bidang ilmu terkait. Pembahasan kurang mendalam.   |                         |                                       |                                       |  |                            |
| • Kecukupan & Kemutakhiran Data & Metodologi:                  | Data kurang banyak karena semakin banyak akan meningkatkan akurasi. Metode tidak terlalu asing bagi peneliti.  |                         |                                       |                                       |  |                            |
| • Kelengkapan Unsur & Kualitas Penerbit:                       | Penerbit Societe Francaise d'Ichtyologie unsur persyaratan penerbit lengkap.   |                         |                                       |                                       |  |                            |

Yogyakarta, 11 Juli 2020

Penilai 2

tanda tangan

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