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ON THE OCCURRENCE OF THE INDO-PACIFIC NAKEDBAND GAPER
CHAMPSODON NUDIVITTIS (CHAMPSODONTIDAE)
IN THE SEA OF MARMARA, TURKEY

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ABSTRACT

*On 17 February 2024, twelve specimens of *Champsodon nudivittis* were caught by a commercial beam-trawler targeting shrimp in the coastal waters of Karabiga, in the province of Çanakkale, at a depth between 45 and 65 m. This paper presents updated records of *C. nudivittis* in the Mediterranean Sea, including the recent occurrence in the Sea of Marmara, Turkey.*

Key words: extension range, Lessepsian migration, nakedband gaper, Mediterranean

PRESENZA DI *CHAMPSODON NUDIVITTIS* (CHAMPSODONTIDAE)
NEL MAR DI MARMARA, TURCHIA

SINTESI

*Il 17 febbraio 2024, dodici esemplari di *Champsodon nudivittis* sono stati catturati da un peschereccio commerciale a strascico per la pesca dei gamberi nelle acque costiere di Karabiga, nella provincia di Çanakkale, a una profondità compresa tra i 45 e i 65 m. Il presente lavoro presenta le segnalazioni aggiornate di *C. nudivittis* nel Mediterraneo, compresa la recente presenza nel Mar di Marmara, in Turchia.*

Parole chiave: estensione dell'areale, migrazione lessepsiana, *Champsodon nudivittis*, Mediterraneo

INTRODUCTION

The Champsodontidae family contains only one genus, *Champsodon*, and thirteen species (Froese and Pauly, 2024). *Champsodon nudivittis* (Ogilby, 1895) is native to the entire Indo-Pacific at depths down to 355 m (Nemeth, 1994) and found in the Indo-West Pacific, in Madagascar, Indonesia, the Philippines, and Australia (Froese & Pauly, 2024). In the eastern Mediterranean, *C. nudivittis* was first recorded in 2008 in the Bay of Iskenderun, Turkey (Çiçek & Bilecenoğlu, 2009), with reports of two more species from this area, *C. vorax* Günther, 1867 in Lebanon (Bariche, 2010), and *C. capensis* Regan, 1908, also in the Bay of Iskenderun (Dalyan *et al.* 2012), following soon thereafter. However, Stern *et al.* (2019) has argued that only *C. nudivittis* has migrated into the eastern Mediterranean as an alien invasive species according to integrative taxonomic features.

Champsodon nudivittis has rapidly spread throughout the eastern Mediterranean. From the Bay of Iskenderun, it moved westward into the Aegean Sea, reaching the northern Aegean Sea in 2014 (Torcu-Koç *et al.*, 2015) and the Sea of Marmara in 2020 (Orfanidis *et al.*, 2021). Thus, *C. nudivittis* appears to be a swift invader in the Mediterranean, gradually extending its range from both sides of the Aegean Sea to the Sea of Marmara. This paper presents updated records of *C. nudivittis* in the

Mediterranean Sea, including new occurrences in the Sea of Marmara, Turkey.

MATERIAL AND METHODS

On 17 February 2024, twelve specimens of *C. nudivittis* (Fig. 1) were captured by a commercial beam-trawler targeting shrimp in the coastal waters of Karabiga, in the Turkish province of Çanakkale, in the Sea of Marmara (at 40°28'N, 27°17'E), at a depth between 45 and 65 m (Fig. 2). The specimens were fixed in a 5% formaldehyde solution and deposited in the fish collection of the Faculty of Fisheries, Ege University (ESFM-PIS/2024-001). The specimens were measured to the nearest millimeter. For species identification, we followed Nemeth (1994), Çiçek & Bilecenoğlu (2009), Akyol & Ünal (2015), and Froese & Pauly (2024).

RESULTS AND DISCUSSION

Morphometric and meristic characteristics are provided in Tab. 1. The specimens displayed the following features: body elongated, laterally slightly compressed; mouth oblique, with maxilla extending to below posterior eye margin (Fig. 1A); located between parallel bony ridges on upper part of head a row of five pairs of sensory papillae, not arranged in semicircle, lacrimal bone with two spines projecting anteroventrally, a characteristic

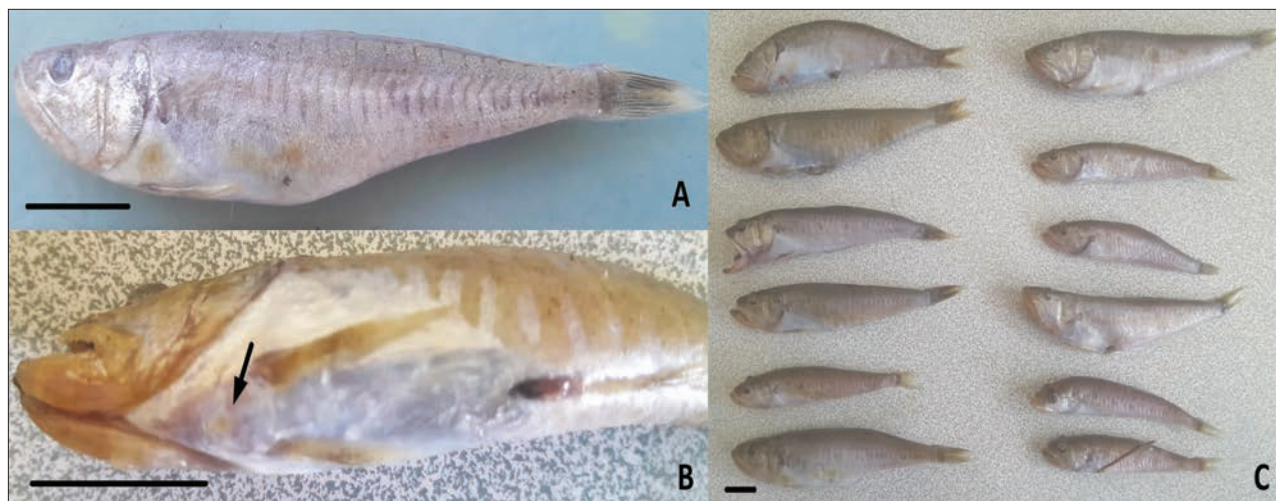


Fig. 1: *Champsodon nudivittis* (128 mm TL) caught in the Sea of Marmara: (A) general view, (B) ventral view with scale pattern on breast (arrow), (C) all fishes sampled. Horizontal scale bar: 20 mm.

Sl. 1: *Primerek vrste Champsodon nudivittis* (128 mm TL), ujet v Marmarskem morju: (A) celovit pogled, (B) spodnja stran z vzorcem lusk na oprsju (puščica), (C) vse ujete ribe. Vodoravno merilo: 20 mm.

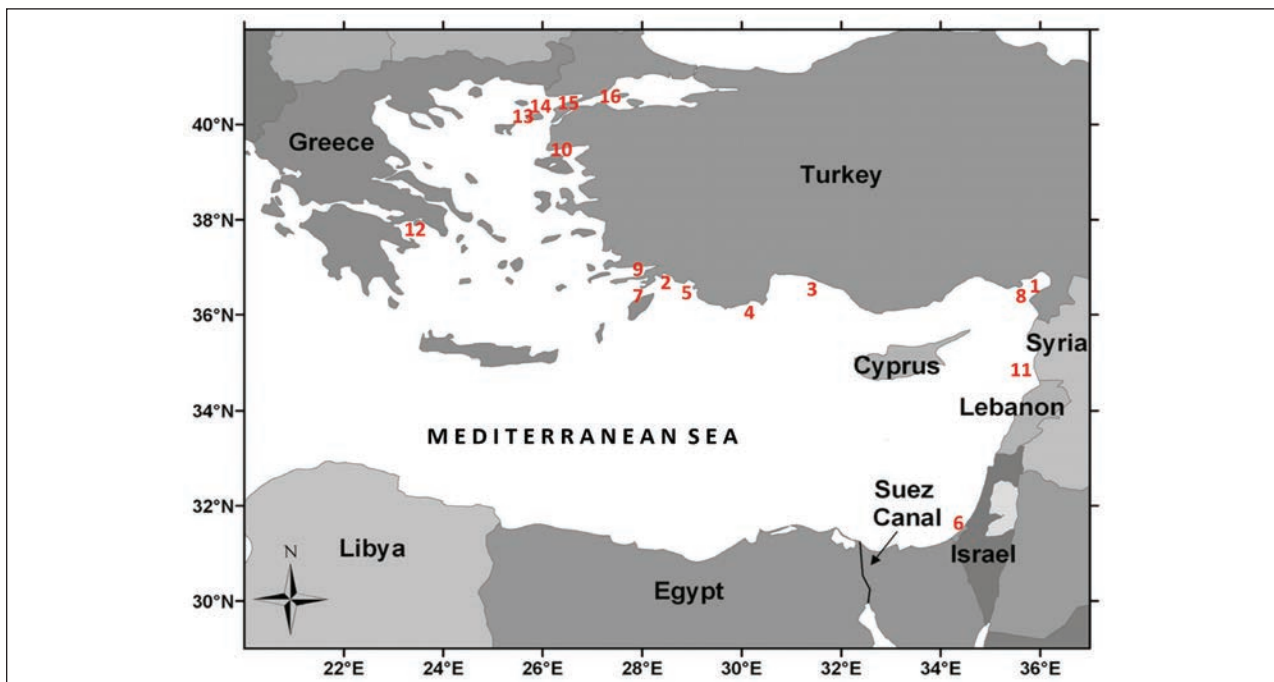


Fig. 2. Records of *Champsodon nudivittis* reported in the Mediterranean Sea. Location numbers (1-16) match those in Table 2. **Sl. 2:** Zapisi o pojavljanju vrste *Champsodon nudivittis* v Sredozemskem morju. Številke lokalitet (1-16) se ujemajo s tistimi v Tabeli 2.

Tab. 1: Morphometric and meristic counts of *Champsodon nudivittis* specimens (n=12) in the Sea of Marmara. **Tab. 1:** Morfometrična in meristična štetja na primerkih vrste *Champsodon nudivittis* (n=12) v Marmarskem morju.

Morphometrics	Min.-max. (mean ± S.D.)
Total length (TL, mm)	89-141 (114.6 ± 17.4)
Standard length (SL, mm)	81-120 (98.5 ± 13.3)
Head length (HL, mm)	20-33 (26.3 ± 4.2)
Eye diameter (mm)	5-7 (5.9 ± 0.8)
Snout length (mm)	6-11 (7.5 ± 1.5)
Body depth (mm)	15-25 (19.3 ± 3.7)
Predorsal length (mm)	25-41 (32.7 ± 5.7)
Preanal length (mm)	40-69 (53.0 ± 10.3)
Prepectoral length (mm)	20-34 (26.8 ± 4.4)
Interorbital width (mm)	4-7 (5.1 ± 1.2)
Meristic counts	
Spines of first dorsal fin	5
Soft rays of second dorsal fin	19-20 (19.6 ± 0.5)
Soft rays of anal fin	17-18 (17.8 ± 0.5)
Soft rays of pectoral fin	13-14 (13.5 ± 0.5)
Soft rays of ventral fin	5

posteroventral spine on the preopercle; scales small, spiny, and non-overlapping; on the belly, scales present in a small patch on the breast (Fig. 1B), but otherwise absent from chin (where distinct small melanophores could be observed instead), from areas between pectoral and pelvic fins, and as far as the anus.

While Çiçek & Bilecenoglu (2009) assume that the introduction of *C. nudivittis* into the Mediterranean Sea occurred via ballast waters from ships, a native Red Sea population of *C. nudivittis* has been confirmed by Goren *et al.* (2011). Moreover, Goren *et al.* (2011) concluded that the occurrence of *C. nudivittis* in Israel and Turkey indicates the presence of a reproducing population in the Mediterranean. So far, this species has spread both westward and northward; noting the westernmost expansion of the species from the Suez Canal to the Gulf of Saronikos, Greece, over a distance of 2355 km, Kousteni & Christidis (2019) observed that *C. nudivittis* should be considered a species with strong dispersal potential, capable of spreading beyond the biogeographical boundaries of the Levantine basin.

Recent data suggest that *C. nudivittis* is likely to expand westward in the Mediterranean (Kousteni & Christidis, 2019). Known species records documented from various depths (ranging from 30 to

Tab. 2: Records of *Champsodon nudivittis* in the Mediterranean Sea with particular reference to the fishing gear (BT: Beam-trawl; PS: Purse-seine; SP: Shrimp pot; T: Trawl; TN: Trammel net).**Tab. 2: Zapisi o pojavljanju vrste *Champsodon nudivittis* v Sredozemskem morju na podlagi ribolovnega orodja (BT: vlečna mreža z gredjo; PS: zaporna plavarica; SP: vrše za kozice; T: vlečna mreža; TN: trislojna mreža).**

Sampling locations (numbers correspond with those on the map)	Depth (m)	Fishing Gear*	Date	N	Size (mm)	References
1. Iskenderun Bay	50	T	18 Jan. 2008	1	114 TL	Çiçek & Bilecenoğlu (2009)
2. Ekincik Bay, Fethiye	55-72	T	12 Nov. 2010	5	47-133 TL	Filiz <i>et al.</i> (2014)
3. Gulf of Antalya	140-150	T	23-28 Dec.2010	6	95-130 TL	Gökoğlu <i>et al.</i> (2011)
4. Finike Bay	180	T	17 Jan. 2011	4	129-140 TL	Ergüden & Turan (2011)
5. Fethiye Bay, SE Aegean	120-190	T	10-13 Mar. 2011	94	47-133 TL	Filiz <i>et al.</i> (2014)
6. Off Ashod, Israel	100	?	31 May 2011	1	89 SL	Goren <i>et al.</i> (2011)
7. W Rhodes, Aegean, Greece	150	SP	12 May 2012	2	83-88 TL	Kalogirou & Corsini-Foka (2012)
8. Iskenderun Bay	120	T	2011-2012	296	60-144 TL	Yaglıoğlu <i>et al.</i> (2014)
9. Gökova Bay, SE Aegean	40	TN	22 Mar. 2014	1	130 TL	Akyol & Ünal (2015)
10. Edremit Bay, NE Aegean	60	T	Mar.-Apr. 2014	3	103-123 TL	Torcu-Koç <i>et al.</i> (2015)
11. Off Jableh, Syria	?	T	22 May 2015	1	132 TL	Ali <i>et al.</i> (2017)
12. Gulf of Saronikos, Greece	86-92	T	13 Oct.2017	1	116 TL	Kousteni & Christidis (2019)
13. Gökçeada, N Aegean	100-120	T	12 Nov.2019	1	122 TL	Dalyan <i>et al.</i> (2021)
14. Gökçeada, N Aegean	100-120	T	5 Jan. 2020	1	117 TL	Dalyan <i>et al.</i> (2021)
15. Çanakkale, Marmara Sea	30	PS	22 Nov.2020	1	121 TL	Orfanidis <i>et al.</i> (2021)
16. Çanakkale, Marmara Sea	45-65	BT	17 Feb.2024	12	89-141 TL	Present study

190 m) and from twelve intermittent localities in the eastern Mediterranean in the period between 2008 and 2024, indicate a well-established population in this area (Tab. 2, Fig. 2). Finally, the new species records in the Sea of Marmara indicate its tolerance to less saline waters (mean 22 psu, Artüz, 2007).

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O POJAVLJANJU ZOBATE KROKODILKE *CHAMPSODON NUDIVITTIS*
(CHAMPSODONTIDAE) V MARMARSKEM MORJU, TURČIJA

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POVZETEK

Sedemnajstega februarja 2024 je komercialno plovilo za lov kozic na globini med 45 in 65 metrov v obalnih vodah Karabige (provinca Çanakkale) v vlečno mrežo ujelo 12 primerkov vrste *Champsodon nudivittis*. Avtorja poročata o dosedanjih najdbah zobate krokodilke v Sredozemskem morju, upoštevaje tudi recentno najdbo iz Marmarskega morja (Turčija).

Ključne besede: širjenje areala, lesepska selitev, *Champsodon nudivittis*, Sredozemsko morje

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