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ON THE OCCURRENCE OF NORWEGIAN SKATE, *DIPTURUS NIDAROSIENSIS* (RAJIDAE) ON THE ALGERIAN COAST (SOUTHWESTERN MEDITERRANEAN SEA)

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ABSTRACT

The authors report the capture of several specimens of the Norwegian skate Dipturus nidarosiensis (Storm, 1881) off the western Algerian coast. These are predominantly large specimens ranging between 141 cm and 164 cm in total length and between 69 cm and 71.5 cm in disc width. It is likely that these specimens originated from the eastern Atlantic and entered the Mediterranean through the Straits of Gibraltar, which would make D. nidarosiensis a Herculean species. The relatively high abundance of captures off the Algerian coast suggests that at present, a viable population may be successfully established in the region.

Keywords: *Dipturus nidarosiensis*, Rajidae, migration, Straits of Gibraltar, Mediterranean Sea

PRESENZA DELLA RAZZA NORVEGESE, *DIPTURUS NIDAROSIENSIS* (RAJIDAE), AL LARGO DELLA COSTA ALGERINA (MEDITERRANEO SUD-OCCIDENTALE)

SINTESI

Gli autori riportano la cattura di diversi esemplari della razza norvegese Dipturus nidarosiensis (Storm, 1881) al largo delle coste algerine occidentali. Si tratta prevalentemente di esemplari di grandi dimensioni, compresi tra 141 cm e 164 cm di lunghezza totale e tra 69 cm e 71,5 cm di larghezza del disco. È probabile che questi esemplari provengano dall'Atlantico orientale e siano entrati nel Mediterraneo attraverso lo stretto di Gibilterra, il che renderebbe D. nidarosiensis una specie erculea. L'abbondanza relativamente elevata di catture al largo della costa algerina suggerisce che attualmente una popolazione vitale si sia stabilita con successo nella regione.

Parole chiave: *Dipturus nidarosiensis*, Rajidae, migrazione, Stretto di Gibilterra, Mediterraneo

INTRODUCTION

The Norwegian skate, *Dipturus nidarosiensis* (Storm, 1881), is known off the eastern Atlantic coast from Iceland, southern Norway, and Ireland to northern Mauritania and South Africa (Geraci et al., 2019). It was first recorded in the Mediterranean Sea off the southeastern coast of Sardinia (Follesa et al., 2010), where further captures have been reported (Follesa et al., 2012). The species was also found in the Adriatic Sea (Cariani et al., 2017) and in the Ionian Sea (Carbonara et al., 2019). Massi et al. (2017) suggested the presence of the species in the Strait of Sicily, off the Island of Pantelleria, following the discovery of an empty egg case. The occurrence of the species was confirmed by the capture of a male specimen in a trawl survey at a depth of 551 m (Geraci et al., 2019). Westward the species is also reported in the Alboran Sea, where specimens were captured between 2013 and 2016 (Ramírez-Amaro et al., 2017).

Following Silva et al. (2012), rajid species (skates) remain an important component of fish assemblages in several marine areas, including the Algerian coast, where investigations that have been continuously conducted since Dieuzeide et al. (1953) (see Hemida, 2005; Refes et al., 2010; Capapé et al., 2023) have confirmed the presence of about 15 skate species.

While some species have been regularly captured in Algerian marine waters, others appear to be notably rare, caught only sporadically or absent from the fishmongers' stalls (Hemida, 2005). The present paper aims to report unusually high records of *D. nidarosiensis*, a species considered rare and endangered, and classified as near threatened by Stehmann et al. (2015). The Norwegian skate had

been previously cited from the Algerian coast (Hemida et al., 2015), but no specimen was described, making confirmation unavailable. This report confirms the occurrence of the species off the Algerian coast, enhancing and expanding the knowledge of its distribution in the study area and in the wider Mediterranean Sea.

MATERIAL AND METHODS

The specimens of *D. nidarosiensis* were observed at primary fish markets in Algiers, where catches from areas along the Algerian coast, spanning from the Moroccan to the Tunisian border, are landed. Between 2000 and the present, at least one hundred specimens have been captured by trawlers at a depth of 330 m on sandy-muddy bottoms in the western region off Bouzedjar, located at 35°42'35" N and 1°22'17" W (Fig. 1). They were often caught together with the spiny lobster *Palinurus elephas* (Fabricius, 1787), the Norway lobster *Nephrops norvegicus* (Linnaeus, 1758), the angler fish *Lophius piscatorius* Linnaeus, 1758, the slender rockfish *Scorpaena elongata* Cadenat, 1943 (Fig. 2), and occasionally with the cuckoo ray *Leucoraja naevus* (Müller and Henle, 1841). The specimens studied in this paper were carefully examined and identified using field guides to ichthyological fauna. They were photographed and, when possible, measured. Obtaining morphometric measurements was challenging, as the specimens were rapidly sold for local consumption.

RESULTS AND DISCUSSION

The specimens were identified as *D. nidarosiensis* based on the following morphological

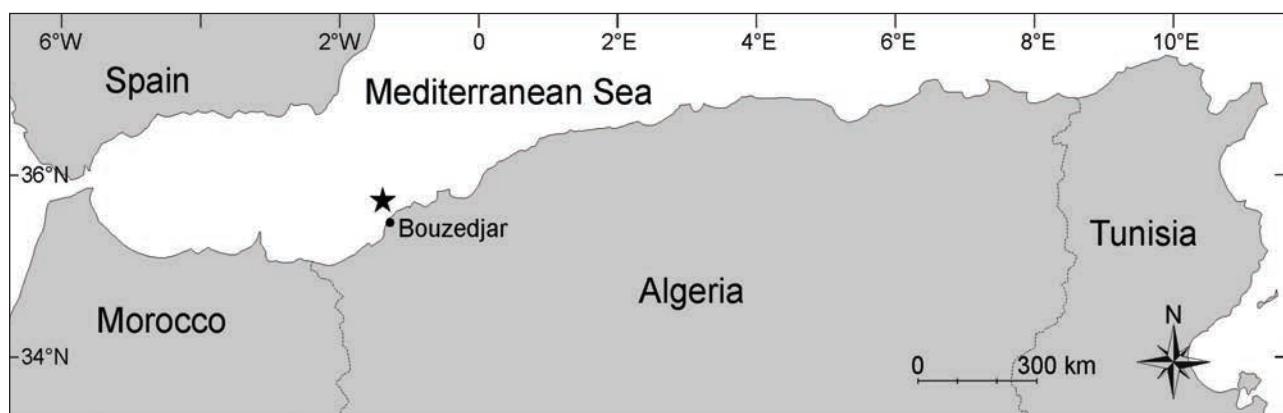


Fig. 1: Map of the Algerian coast indicating the capture site of the Norwegian skate, *Dipturus nidarosiensis*, off Bouzedjar (black star).

Sl. 1: Zemljevid alžirske obale z označbo lokacije ulova norveške raže, *Dipturus nidarosiensis*, v vodah blizu Bouzedjara (črna zvezdica).



Fig. 2: Specimens of *Dipturus nidarosiensis* caught together with the spiny lobster *Palinurus elephas* (1), the Norway lobster *Nephrops norvegicus* (2), and the angler fish *Lophius piscatorius* (3) off the Algerian coast (photo by F. Hemida).
Sl. 2: Primerki vrste *Dipturus nidarosiensis* ujeti skupaj z rarogi, *Palinurus elephas* (1), škampi, *Nephrops norvegicus* (2) in morskim žabami, *Lophius piscatorius* (3) ob alžirski obali (foto: F. Hemida).

characters: disc broadly rhombic, wider than long, with acute outer corners; snout very long, pointed and pronounced; tail strong and rather short with a median row of 40–50 thorns up to the first dorsal fin, and 1–3 small thorns between the dorsal fins; upper surface smooth with one pair of pre-orbital thorns, one post-orbital thorn; colour greyish-brown dorsally and entirely dark ventrally, with darkly pigmented ampullary pores (Fig. 3). These characteristics are in total accordance with previous descriptions of the species (Stehmann & Bürkel, 1984; Ebert & Stehmann, 2013; Last et al., 2016; Geraci et al., 2019). They confirm the presence of *D. nidarosiensis* on the Algerian coast, warranting its inclusion in the local ichthyofauna.

The Norwegian skates captured off the Algerian coast consisted mainly of large specimens, including both males and females. The total lengths of the 20 specimens randomly selected for observation ranged between 1410 mm and 1640 mm, with disc widths ranging between 690 mm and 715 mm. This suggests that a viable population of *D. nidarosiensis* may have successfully established itself in Algerian marine waters, though, admittedly, no juvenile specimens were observed, and the captures were rather restricted to the western region (Fig. 4). According to the survey

conducted by Geraci et al. (2019) *D. nidarosiensis* currently inhabits the Mediterranean Sea. However, the species has not been recorded to date in the eastern basin, possibly due to warmer waters in that



Fig. 3: Specimens of *Dipturus nidarosiensis* caught off the Algerian coast, scale bar = 200 mm (photo by F. Hemida).
Sl. 3: Primerki vrste *Dipturus nidarosiensis*, ujeti ob alžirski obali, merilo = 200 mm (foto: F. Hemida).

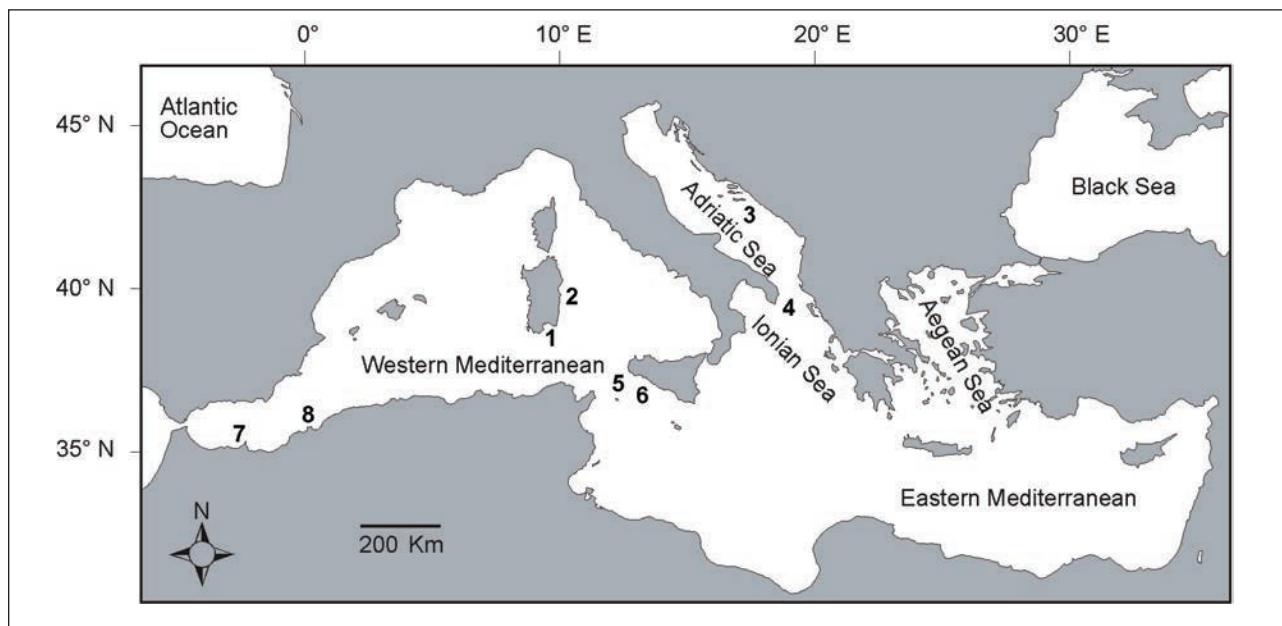


Fig. 4: Map of the Mediterranean Sea indicating the locations of records of *Dipturus nidarosiensis*. South-eastern coast of Sardinia: 1. Follesa et al. (2010), 2. Follesa et al. (2012). Adriatic Sea: 3. Cariani et al. (2017). Ionian Sea: 4. Carbonara et al. (2019). Strait of Sicily, off the Island of Pantelleria: 5. Massi et al. (2017), 6. Geraci et al. (2019). Alboran Sea: 7. Ramírez-Amaro et al. (2017). Algerian coast off Bouzedjar: 8. this study.

Sl. 4: Zemljovid Sredozemskega morja prikazuje lokacije zapisov o pojavljanju vrste *Dipturus nidarosiensis*. Jugovzhodna obala Sardinije: 1. Follesa et al. (2010), 2. Follesa et al. (2012). Jadransko morje: 3. Cariani et al. (2017). Jonsko morje: 4. Carbonara et al. (2019). Sicilijanska ozina, ob otoku Pantelleria: 5. Massi et al. (2017), 6. Geraci et al. (2019). Alžirsko morje: 7. Ramírez-Amaro et al. (2017). Alžirska obala ob Bouzedjarju: 8. Ta študija.

region compared to the western basin. This distribution pattern could also explain the higher frequency of captures in the areas closer to the Straits of Gibraltar, such as the Alboran Sea and the western Algerian coast, and only sporadic catches in the Italian seas, for instance (Geraci et al., 2019).

Golani et al. (2021) noted that the exotic species found in the Mediterranean Sea are either Lessepsian migrants (*sensu* Por, 1971), i.e., originating from the warm or warm-to-temperate waters of the Red Sea, or Herculean migrants (*sensu* Golani et al., 2000), i.e., having an origin in the eastern tropical Atlantic. Since the occurrence of *D. nidarosiensis* in the Mediterranean Sea is likely the consequence of migrations from the eastern Atlantic coast through the Strait of Gibraltar, the species could be classified as a Herculean migrant.

However, the main question is whether to consider it as an exotic species deserving of inclusion in Golani et al. (2021).

Geraci et al. (2019) reported that *D. nidarosiensis* is the deepest living skate species, with recorded depths ranging from 600 to 1400 m in the Mediterranean Sea according to Cannas et al. (2010) and over 1000 m in the northeastern Atlantic (Stehmann & Bürkel, 1984). The scarcity of sightings of this species may be attributed to the limited commercial fishing and bottom trawl surveys carried out in these deep areas (Geraci et al., 2019). Following Geraci et al. (2019), trawl surveys at depths exceeding 1000 m will be necessary to increase the captures of *D. nidarosiensis* and generally gain a more comprehensive knowledge of this and other deep-sea elasmobranch species.

O POJAVLJANJU NORVEŠKE RAŽE, *DIPTURUS NIDAROSIENSIS* (RAJIDAE), OB ALŽIRSKI OBALI (JUGOZAHODNO SREDOZEMSKO MORJE)

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POVZETEK

Avtorji poročajo o ulovu več primerkov norveške raže *Dipturus nidarosiensis* (Storm, 1881) ob alžirski obali. Večinoma so bili veliki primerki, ki so merili med 141 cm in 164 cm totalne dolžine in med 69 cm in 71,5 cm v premeru diska. Primerki verjetno izvirajo iz vzhodnega Atlantika in so prišli v Sredozemsko morje skozi Gibraltarsko ožino, zato gre za Herkulove migrante. Relativno veliko število ulovov kaže, da se je na obravnavanem območju ustalila populacija te vrste, ki je sposobna preživetja.

Ključne besede: *Dipturus nidarosiensis*, Rajidae, selitev, gibraltarska ožina, Sredozemsko morje

REFERENCES

- Cannas, R., M.C. Follesa, S. Cabiddu, C. Porcu, S. Salvadori, S.P. Iglesias, A.M. Delana & A. Cau (2010):** Molecular and morphological evidence of the occurrence of the Norwegian skate *Dipturus nidarosiensis* (Storm, 1881) in the Mediterranean Sea. Mar. Biol. Res., 6, 341-350.
- Capapé C., C. Reynaud & F. Hemida (2023):** The first well-documented record of Maltese skate *Leucoraja melitensis* (Rajidae) from the Algerian coast (Southwestern Mediterranean). Annales, Ser. Hist. Nat., 32, 51-54.
- Carbonara, P., R. Cannas, M. Donnaloia, R. Melis, C. Porcu, M.T. Spedicato, W. Zupa & M.C. Follesa (2019):** On the presence of *Dipturus nidarosiensis* (Storm, 1881) in the central Mediterranean area. Peer J, 7, e7009.
- Cariani, A., S. Messinetti, A. Ferrari, M. Arculeo, J. Bonnello, L. Bonnicci, R. Cannas, P. Carbonara, A. Cau, C. Charilaou, N. ElOuamari, F. Fiorentino, M.C. Follesa, G. Garofalo, D. Golani, I. Guarniero, R. Hanmer, F. Hemida, O. Kada, S. Lo Brutto, C. Mancusi, G. Morey, P.J. Schembri, F. Serena, L. Sion, M. Stagioni, A. Tursi, N. Vrgoc, D. Steinke & F. Tinti (2017):** Improving the conservation of Mediterranean chondrichthyans: The ELASMOMED DNA barcode reference library. Plos ONE, 12, e0170244.
- Dieuzeide, R., M. Novella & J. Roland (1953):** Catalogue des poissons des côtes algériennes, Volume I. Squales – Raies – Chimères. Bull. Sta. Aquic. Pêche, Castiglione, n. s. 6, I, 1-274.
- Ebert, D.A. & M.F.W. Stehmann (2013):** Sharks Batoids and Chimaeras of the North Atlantic. FAO species Catalogue for Fisheries Purposes, n° 7, Rome, FAO, 523 pp.
- Follesa, M.C., R. Cannas, S. Cabiddu, A. Cau, A. Mulas, C. Porcu & A. Cau (2012):** Preliminary observations of the reproductive biology and diet of the Norwegian skate, *Dipturus nidarosiensis* (Rajidae) from central western Mediterranean. Cybium, 36, 473-477.
- Follesa, M.C., C. Porcu, S. Cabiddu, A. Mulas, A.M. Deiana & A. Cau (2010):** Deep-water fish assemblages in the central-western Mediterranean (south Sardinian deep-waters). J.Appl. Ichthol., 27, 129-135.
- Geraci, M.L., M. Di Lorenzo, F. Falsone, D. Scanella, F. Di Maio, F. Colloca, S. Vitale & F. Serena (2019):** The occurrence of Norwegian skate, *Dipturus nidarosiensis* (Elasmobranchii: Rajiformes: Rajidae), in the Strait of Sicily, central Mediterranean. Acta Ichthyol. Piscat., 49, 203-208.
- Golani, D., E. Azzurro, J. Dulčić, E. Massuti & L. Orsi-Relini (2021):** Atlas of Exotic Fishes in the Mediterranean Sea. Second edition. [F. Briand, Ed.]. CIESM Publishers, Paris, Monaco, 365 pp.
- Hemida, F. (2005):** Les Sélaciens de la côte algérienne: Biosystématique des requins et des raies; écologie, reproduction et exploitation de quelques populations capturées. PhD Thesis, University of Sciences and Technologies Haouari Boumedienne, Algiers, Algeria, 231 pp.
- Hemida, F., N. Damir & C. Capapé (2015):** RIF 2015 - VIe Rencontres de l'Ictyologie en France. Livre des résumés. <https://archimer.ifremer.fr/doc/00256/36716/>.
- Last, P., G. Naylor, B. Séret, W. White, M. Stehmann & M. de Carvalho (2016):** Rays of the world. CSIRO Publishing, 800 pp.
- Massi, D., A. Titone, C. Mancusi, F. Serena & F. Fiorentino (2017):** First finding of *Dipturus nidarosiensis* (Storm, 1881) (Chondrichthyes: Elasmobranchii, Rajidae) egg capsule in the Strait of Sicily. Biol. Mar. Medit., 24, 194-195.
- Por, F.D. (1971):** One hundred years of Suez Canal- A century of lessepsian migration: retrospect and viewpoints. Systems Biol., 20(2), 138-159.
- Ramírez-Amaro, S., F. Ordines, M.Á. Puerto, C. García, C. Ramon, B. Terrasa & E. Massutí (2017):** New morphological and molecular evidence confirm the presence of the Norwegian skate, *Dipturus nidarosiensis* (Storm, 1881) in the Mediterranean Sea and extend its distribution to the western marin basin. Medit. Mar. Sci., 18, 251-259.
- Rebes, W., N. Semahi., M. Boulahdid & J.-P. Quignard (2010):** Inventaire de la faune ichthyologique du secteur oriental de la côte algérienne (El Kala; Skikda; Jijel; Bejaïa). Rapp. Com. Inter. mer Médit., 39, 646.
- Silva, J.F., J.R. Ellis & T.L. Catchpole (2012):** Species composition of skates (Rajidae) in commercial fisheries around the British Isles and their discarding patterns. J. Fish Biol., 80, 1678-1705.
- Stehmann, M. & D.L. Bürkel (1984):** Rajidae. pp. 163-196. In: Whitehead P.J.P., Bauchot, M.L., Hureau J.C., Nielsen J. & Tortonese. E. (eds), Fishes of the North-western Atlantic and the Mediterranean. Vol I. UNESCO, Paris.
- Stehmann, M.F.W., J. Ellis, R. Walls & A. Lyngham-mar (2015):** *Dipturus nidarosiensis*. The IUCN Red List of Threatened Species 2015, e.T161729A8927468. Dowloaded on 09 August 2023.