

**MORPHOLOGICAL AND MOLECULAR EXAMINATIONS OF A NORTHWESTERN  
INDIAN OCEAN POPULATION OF THE AFRICAN ANGELSHARK,  
*Squatina cf. africana* Regan, 1908 (CHONDRICHTHYES: SQUATINIFORMES:  
SQUATINIDAE), WITH REMARKS ON INTRASPECIFIC VARIATIONS**

**Tassapon Krajangdara<sup>1\*</sup>, Jenjit Khudamrongsawat<sup>2</sup>, Chanikarn Chaorattana<sup>2</sup>,  
Pattarapon Promnun<sup>2</sup> and Simon Weigmann<sup>3,4</sup>**

<sup>1</sup>*Phuket Marine Fisheries Research and Development Center, Wichit Subdistrict,  
Muang District, Phuket, 83000 Thailand*

<sup>2</sup>*Animal Systematic and Molecular Ecology Laboratory, Department of Biology,  
Faculty of Science, Mahidol University, Bangkok, 10400 Thailand*

<sup>3</sup>*Elasmo-Lab, Elasmobranch Research Laboratory, Hamburg, 22609 Germany*

<sup>4</sup>*Center of Natural History, University of Hamburg, Hamburg, 20146 Germany*

*\*corresponding author: tassapon@gmail.com*

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**ABSTRACT:** Morphological and molecular examinations of angelshark samples from the northwestern Indian Ocean, collected by a Thai fishing vessel in February 2017, offered an opportunity to explore the diversity of angelsharks in this region. All specimens were similar to *Squatina africana* Regan, 1908 on several characteristics, such as the presence of simple nasal barbels with narrow, tapering tip, smooth to weakly fringed bases, enlarged denticles on snout, and the absence of paired ocelli on back, distinguishing them from *S. tergocellata* McCulloch, 1914, *S. pseudocellata* Last and White, 2008, and *S. legnota* Last and White, 2008, in the adjacent Indo-West Pacific region. However, morphological characteristics of these samples also showed intraspecific variation, particularly concerning size and coloration as well as many measurements, that were different from *S. africana*. The application of DNA barcoding using fragments of COI gene could not confidently support species identification. Although COI sequences of our samples indicated a monophyletic grouping with the known *S. africana* that was separated from other congeneric species with high statistical support, the genetic distance within this clade was greater than intraspecific genetic variation commonly reported in most elasmobranchs. Therefore, it was appropriate to identify as *S. cf. africana* until further confirmation with additional samples. Nevertheless, the new data on intraspecific variation found in our samples and comparison with *S. africana* fill in the knowledge gap of shark diversity and contribute to a much-needed conservation plan for angelsharks in western Indian Ocean.

**Keywords:** African angelshark, *Squatina cf. africana*, Indian Ocean, species identification, morphological variation, DNA barcoding

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