Record of the St. Helena deepwater scorpionfish, *Pontinus nigropunctatus* (Günther) (Scorpaeniformes: Scorpaenidae), in the Saint Peter and Saint Paul Archipelago, Brazil

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Abstract. An individual of the scorpaenid St. Helena deepwater scorpionfish, *Pontinus nigropunctatus* (Günther, 1868) was caught by a fisherman close to the rocks of the Saint Peter and Saint Paul Archipelago, Brazil (0°55´N; 29°21´W). It is the first record of the species for the archipelago, early reported only as an endemic species of the St. Helena Island. The specimen measured 42.5 cm total length, weighed 1100 g, and was caught by hand line at night at 150 meters local depth.

Key words: Endemic species, new record, Atlantic archipelago, deepwater fish, bottom hand line.

An individual of the scorpaenid St. Helena deepwater scorpionfish, *Pontinus nigropunctatus* (Günther, 1868) (Fig.1), was caught by a fisherman close to the rocks of the Saint Peter and Saint Paul Archipelago (SPSPA), Brazil (0°55´N; 29°21´W). It is the first record of the species for the archipelago, early reported only as an endemic species of the St. Helena Island (Edwards & Glass, 1987; Trunov, 2006). The specimen was caught on 17 July 2007, at night (21:00 local time), during bottom hand line fishery, by a fisherman of a tuna boat that operate around the archipelago. The specimen measured 42.5 cm total length, weighed 1100 g, and was caught at 150 meters local depth with a chunk of flying fish (*Cheilopogon cyanopterus*) as bait. After retrieved, the fish was stored frozen for posterior identification.

The SPSPA, a group of small rocky islands 1100 Km from extreme east Brazil (Fig. 2), is an important fishing ground particularly for tunas, wahoo, sharks and flying fishes. Recent information concerning SPSPA ichthyofauna was published by Vaske et al. (2005), where a total of 116 taxa were recorded, 100 at the species level, eight at the genus level, and eight at the family level. Fifty two species were considered reef fishes and 64 were pelagic species. Former records of scorpaenids for the SPSPA, indicate the presence of two species, *Scorpaenodes insularis* (Eschmeyer, 1971) is an endemic species of islands from Meso-Atlantic...
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St. Helena lies in the South Atlantic Ocean, east of the mid-Atlantic Ridge, 1,913 km west of Angola and 3,284 km east to southeast of Brazil. The nearest island is Ascension, 1,296 km northwest. The coastal waters of St. Helena support 10 endemic fish species, a further 16 shared only with Ascension Island (Edwards & Glass, 1987). Oceanic sites experience extreme isolation and relatively small shallow water area, thus diminishing the chances of larval input from the continental margins as well as limiting the availability of suitable habitats for the adults (Floeter et al., 2001). Only after the mid-1990s, a significant increase in sampling effort resulted in some knowledge of the Brazilian reef fish fauna (Floeter & Gasparini, 2000, 2001; Floeter et al., 2001; Joyeux et al., 2001, Luiz Jr. et al., 2007; Rocha & Rosa, 2001; Feitoza et al., 2003). Nevertheless, the Brazilian reef fish community beyond 30 m remains broadly unknown (Feitoza et al., 2005). Cluster analysis of the zoogeographic affinities between the deep reefs off the hump of Brazil and other western Atlantic sites, pointed out the isolation of fish fauna of the SPSPA (Feitoza et al., 2005). According Feitoza et al. (2003), SPSPA should be considered as an impoverished outpost of the Brazilian province. This fact is observed in the SPSPA, where representatives of some continental species also occur, like Epinephelus itajara and Lutjanus purpureus (Vaske-Jr. et al., 2006), and the new westward record of P. nigropunctatus in the present study, that is considered a Vulnerable (VU) species by IUCN (2004), and evidence the connection with isolated islands of the Mid-Atlantic Ridge.

The Saint Peter and Saint Paul Archipelago is an important scientific ground for biodiversity and zoogeographic studies because it is situated in the path of the South Equatorial Atlantic current that flows westward, and the North Equatorial undercurrent that flow eastward, that may strongly influence in the species distribution, specially in the unexplored habitat at depths beyond 150 m, which may hide a greater number of unknown species.

Figure 1. Deepwater scorpionfish, Pontinus nigropunctatus from Saint Peter and Saint Paul Archipelago.

Figure 2. Main islands of central Atlantic. SPSPA – Saint Peter and Saint Paul Archipelago; AI – Ascension island; FNA – Fernando de Noronha Archipelago; SHI – Saint Helena Island; TMVA – Trindade and Martin Vaz Archipelago.
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References