1. Introduction

*Solmundella bitentaculata* (Quoy and Gaimard, 1833) was first described by Quoy and Gaimard (1833) as *Charybdea bitentaculata* and subsequently as *Aeginella bitentaculata* by Haeckel, 1879. Unlike other jellyfish, *S. bitentaculata* swims using its two tentacles held in the top of the umbrella, the main characteristic of this species. The life cycle is holoplanktonic, although reproduction remains unknown (Bouillon, 1999). The species is cosmopolitan, found at different environmental conditions, depths and latitudes (Kram, 1961).

The Amazon River plume influences a huge area of the shelf, and may be a barrier to marine planktonic species. Therefore, the objective of this paper is to establish the first record of *S. bitentaculata* in the Pará State coast, contributing to the knowledge on pelagic invertebrates at the Brazilian North region.

2. Material and Methods

The sample containing *Solmundella bitentaculata* was collected 52.5 km far from Pará’s coast, (0°01’0.6”N, 47°57’48.4”W), on April, 2013, by oblique trawling along the water column, from the bottom to the surface, using a 200 µm cylindrical-conical plankton net. The water average temperature was 29°C, salinity 19.7 and maximum depth of 16 meters. The sample was fixed by 4% seawater formaldehyde solution buffered with sodium tetraborate.

In the laboratory, size measurements were made with a stereomicroscope and identification was based on Quoy and Gaimard (1833) and Bouillon (1999).

3. Results

One mature specimen was collected (Figure 1), from the Pará state Continental Shelf and it was deposited at Museu Paremense Emilio Goeldi (MPEG 001). It has an umbrella with 2.12 mm width and 1.66 mm length, tentacles with 9.75 mm length and a wide stomach with rectangular pouches. Apical exumbrella very thick with two long opposite tentacles starting near to the top of the umbrella, ending far from the bell, without secondary tentacles. The specimen has also two tentacular peronia and 8 statocysts.

4. Discussion

The reduced number of published studies on gelatinous plankton at the Amazon may be explained by the lack of specialists in the region and by the influence of the Amazon River plume, generating a saline barrier along the Pará and Amapá states coast, mainly after the rainy season (Moller et al., 2010; Bernardes et al., 2012).

The role of Amazon plume in the biogeography of planktonic community was reported recently (Gois et al., 2014) and the absence of *S. bitentaculata* in other regions of the Amazon coast (e.g. Mesquita et al., 2006) might be an evidence that river plume may limit the density and distribution of the oceanic taxa.

Several records of the species were reviewed to the Brazilian coast (Migotto et al., 2002), including Southeast (Vannucci, 1957; Silveira and Morandini, 2011) and Northeast coasts (Goy, 1979; Gusmão et al., 2015). However, the record of *S. bitentaculata* to the North coast was published during the 1960’s (Alvarião, 1968), described between off Amapá State and French Guiana. Unfortunately, the author did not provide coordinates to the sampling stations where *S. bitentaculata* specimens were found, just a density estimates contour map. Therefore, this record may be the first to Brazilian Northern coast, if such specimens were collected at French Guiana shelf.

Vannucci (1957) found 27 specimens in the coast of São Paulo state on the surface and depths of 10, 30 and 60 meters and mean temperature and salinity of 21.99°C and 35.88, respectively, Gusmão et al. (2015) sampled a mean density of 24 ind.m⁻² in only one oceanic sample, considering the species rarely distributed. Environmental
Figure 1. The collected specimen of Solmundella bitentaculata (Quoy and Gaimard, 1833). Scale bar, 2 mm.

information and scarcity of the species in the sample points seems to be consonant with the data of previous researches along Brazilian coast.

Therefore, despite the low salinity, oceanic taxa may be detected as S. bitentaculata. These taxa contribute to the existence of a unique environment, the Amazonia and Guianian marine ecoregions (Spalding et al., 2007), clearly distinguished by influence of the river and its role on biodiversity’s structure. However, it is still necessary molecular data to differ the South America northern populations. Thus, this record is an important contribution to future studies on gelatinous zooplankton in this area.

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