



Redescription of some bryozoan species originally described by J. Jullien from Iberian waters

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Abstract

Six species originally described by Jules Jullien from Iberian waters are redescribed from the original material and stabilized by typification: *Caberea ligata*, *Bicellaria evocata*, *Scrupocellaria marsupiata*, *Setosella folini*, *Euginoma vermiciformis* and *Jubella enucleata*. *Caberea ligata* is placed here in the genus *Canda*, not previously reported from European waters. *Scrupocellaria marsupiata* is differentiated from *Menipea clausa*, previously considered as a junior synonym; both species are placed in the genus *Notoplites*. A diagnosis is given for the family Jubellidae, the position of which is discussed.

Key words: Cheilostomata, *Canda*, *Notoplites*, *Setosella*, *Euginoma*, *Jubella*, Jubellidae, Iberian Peninsula, NE Atlantic

Introduction

The French bryozoologist Jules Jullien (1842–1897) is one of the important early authors who contributed to knowledge of the Iberian bryozoan fauna. In two papers (Jullien 1882; Jullien & Calvet 1903) he reported on the collections made during oceanographic surveys carried out by the *Travailleur* and *l'Hirondelle* at the end of the 19th century. In them he described more than fifty new species collected in Atlantic Iberian waters besides mentioning fifty other previously described species. To these papers we may add Calvet (1907), in which some of the previous work on the *Travailleur* samples was completed and discussed.

Most of these species, collected at great depths, were originally described somewhat inadequately by modern standards. Most of them are relatively little-known species that have only occasionally been reported or redescribed subsequently from non-type material; some later distributional records are in doubt and some aspects of the species have been misunderstood. Therefore, it is necessary to give new accurate descriptions, based on the original material of the species described by Jullien, held in several institutions. Reverter-Gil & Fernández-Pulpeiro (1999, 2005) have already published redescriptions of eight species described by Jullien from Iberian material; in the present paper we redescribe six more.

The goal is to provide a better understanding of these species so as to ensure easier future identification and to give a clearer appreciation of their taxonomic affinities. Lectotypes have been selected from the original syntypes and two new combinations are introduced.

Material and methods

Jullien's original material is mainly deposited in the Muséum National d'Histoire Naturelle, Paris (MNHN). Additional comparative material is in the Natural History Museum, London (NHMUK). Other studied reference material for this paper belongs to the personal collection of Dr J.-G. Harmelin.

The samples were studied using a Wild MZ16 stereomicroscope and uncoated material was photographed in a LEO 435 VP scanning electron microscope. Measurements were taken with the ImageJ Software on the SEM photographs.