



New records of deep-sea barnacles (Cirripedia: Thoracica: Scalpelliformes) from the Clarion-Clipperton region, Pacific Ocean

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Abstract

Barnacles (Cirripedia: Thoracica) taken in the Clarion-Clipperton region, central Pacific, during cruises of the Research Vessel *Yuzhmorgeologia* (2003, 2006, 2007, 2010, 2011) were studied. Three species, *Amigdoscalpellum torbenwolffi* Zevina, 1981, *Arcoscalpellum radiatum* Rao et Newman, 1972 and *Catherinum tortilum* (Zevina, 1973), were collected in five samples from depths of 4680–4877m. The data obtained considerably extend the previously known distributions of these three species.

Key words: Scalpellidae, deep-sea barnacles, Clarion-Clipperton region

Introduction

The deep-sea barnacles of the central Pacific are poorly studied. Most publications are devoted to the barnacles of underwater mountains, for example, Mid-Pacific Mountains (Rao & Newman 1972), Nasca and Sala-i-Gomes Ridges (Zullo & Newman 1964; Zevina 1983, 1990) and the Marcus-Necker Mountains (Zevina 1981c). Data on the barnacles of deep-sea ferromanganese nodule field areas of the central Pacific is fragmentary.

Material and methods

The present study reports on three species of deep-sea barnacles collected during the exploration of the ferromanganese nodule fields in the Clarion-Clipperton region, Pacific Ocean. The ferromanganese nodules on which the barnacles were found were collected in 2003, 2006, 2007, 2010 and 2011 by the Research Vessel *Yuzhmorgeologia* from depths of 4680–4877m, using a box corer. The barnacle specimens were fixed in 70% alcohol and dissected and studied using light microscopy. Specimens are deposited in the Zoological Museum of Moscow State University.

Taxonomy

Order Scalpelliformes Buckeridge & Newman, 2006

Family Scalpellidae Pilsbry, 1916

Subfamily Arcoscalpellinae Zevina, 1978

Genus *Amigdoscalpellum* Zevina, 1978