

# New Records of the Tetracelitid Barnacle *Tesseropora alba* (Cirripedia: Thoracica: Tetracelitoidea) in the Pacific Waters of Taiwan and Okinawa

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The four-plated barnacle *Tesseropora alba* Ren and Liu, 1979 is recorded for the first time away from its type locality in the Xisha Islands, South China Sea. The new localities are northwestern Taiwan and Okinawa. The species is redescribed in detail, with a discussion of its likely geographical range in the Pacific.

**Key Words:** Tetracelitidae, distribution, redescription, western Pacific.

## Introduction

*Tesseropora* is a genus of barnacle of the superfamily Tetracelitoidea, and its species are among the most pleiomorphic members of the superfamily. The first species of *Tesseropora* was described by Krauss (1848), as *Tetracelita rosea* Krauss, 1848. *Tesseropora* was later proposed as a subgenus of *Tetracelita*, distinguished by having four plates and single row of pores in the parietal walls (Pilsbry 1916). Ross (1969) raised *Tesseropora* from subgenus to genus level. In *Tesseropora*, 11 species (including five fossil species) and one subspecies have been described from all over the world (Table 1). The oldest known fossils of *Tesseropora* were collected from Oligocene deposits (de Alessandri 1895; Table 2).

In Southeast Asia, a small-sized white barnacle, *Tesseropora alba* Ren and Liu, 1979 was described in Xisha Islands, South China Sea, Hainan Province of China. There have been no subsequent records of this species, but we have recently collected *T. alba* from the Pacific coast of Taiwan and also from a buoy stranded in Okinawa, Japan, after a rough weather (Fig. 1). These represent new records of this species in the Pacific Ocean. The morphological features of the species including hard and soft parts, are redescribed herein and compared with the description of the type specimen in Ren and Liu (1979). Specimens were preserved in 99% ethanol and deposited in the collections of the Coastal Ecology Laboratory, Academia Sinica, Taiwan (CEL) and the Museum of the University of Ryukyus, Fujukan (RUMF-ZC), Okinawa.

Table 1. Distributional records of extant species of genus *Tesseropora*.

Species	Localities	References
<i>Tesseropora rosea</i> (Krauss, 1848)	Australia, the Kermadec Islands, South Africa	Krauss (1848); Zullo (1968); Newman and Ross (1977); Otway and Anderson (1985); Costa and Jones (2000)
<i>Tesseropora pacifica</i> (Pilsbry, 1928)	Wake Island, Marshall Islands, Fiji, Guam	Pilsbry (1927); Zullo (1968); Foster (1974); Pauley and Ross (2003)
<i>Tesseropora atlantica</i> Newman and Ross, 1977	Bermuda, Azores, Saint Paul's Rock (equatorial Atlantic)	Newman and Ross (1977); Edwards and Lubbock (1983a, b); Southward (1998); Costa and Jones (2000)
<i>Tesseropora wireni</i> (Nilsson-Cantell, 1921)	Sumatra and Palau Islands	Nilsson-Cantell (1921); Hiro (1935); Zullo (1968)
<i>Tesseropora wireni africana</i> (Nilsson-Cantell, 1932)	Dar-es-Salaam, Diego-Garcia	Nilsson-Cantell (1932); Newman and Ross (1976)
<i>Tesseropora arnoldi</i> Young, 1998*	Azores.	Young (1998)
<i>Tesseropora alba</i> Ren and Liu, 1979	Xisha Islands, Taiwan, Okinawa	Ren and Liu (1979); present study

\* Costa and Jones (2000) suggested the necessity for taxonomic work to confirm the status of *T. atlantica* and *T. arnoldi*.