

*Pecten undulatus*, Sowerby.

*Pecten undulatus*, Sowerby, Thes. Conch., vol. i. p. 60, pl. xix. figs. 206, 207.

*Pecten undulatus*, Reeve, Conch. Icon., vol. viii. pl. xx. fig. 73.

? = *Pecten tasmanicus*, A. Adams and Angas, Proc. Zool. Soc. Lond., 1863, p. 428, pl. xxxvii. figs. 21, a, b.

*Habitat*.—Station 162, off East Moncœur Island, Bass Strait, in 38 fathoms (Challenger); Tasmania (Brit. Mus.).

This species is not the same as *Pecten flexuosus*, Poli, as stated by Weinkauff (Conch. Mittelm., vol. i. p. 258), nor would he have considered it as such had it been properly characterised in the first instance. The minute shagreened sculpture is very peculiar, at once distinguishing it from the European form, and as described by Adams and Angas in respect of *Pecten tasmanicus*, which, I believe, will prove to belong to the same species, it is very like that of *Pecten bifrons*. The auricles are very unequal, notwithstanding the statement of Messrs. Adams and Angas to the contrary, whose figure, moreover, depicts them of different dimensions, but not so unequal as in the types figured by Sowerby and Reeve, and in a single specimen from Tasmania in the British Museum.

The ribs are somewhat variable in number, and the colour of the left valve is rather inconstant. The right valve appears to be always white, or only a little tinted with purple-pink. The interior of the valves in a great measure corresponds in colour with the exterior, the right being purplish-pink and the left chiefly white.

I am not sure that *Pecten tasmanicus* is the same species as *Pecten undulatus*, for the fine riblets, judging from the figure, appear to be coarser; but the locality and microscopic sculpture, being similar, point to the conclusion that they are both forms of one rather variable species.

*Pecten leopardus*, Reeve (var. *solaris*).

*Pecten leopardus*, Reeve, Conch. Icon., vol. viii. pl. xxxii. fig. 145.

*Pecten leopardus*, Smith, Report "Alert" Coll., p. 114.

Var. = *Pecten kuhnholtzi*, Bernardi, Journ. Conch., 1860, vol. viii. p. 378, pl. xiii. fig. 1.

Var. = *Pecten solaris*, Sowerby (non Born) Thes. Conch., vol. i. p. 55, pl. xii. figs. 7, 8, 22.

*Pecten solaris*, Dunker, in Philippi's Abbild., vol. i. p. 202, pl. ii. fig. 2.

*Pecten solaris*, Reeve, *op. cit.*, pl. xxiii. fig. 92.

*Habitat*.—Station 208, off the west coast of the Island of Luzon, Philippine Islands, in 18 fathoms; blue mud.

The typical form of this species was collected on the coast of Queensland. The variety *kuhnholtzi* is New Caledonian, and var. *solaris* has been found at Amboina