the west and extending to Java in the Eastern Archipelago, and thence to the Pacific northward to Japan. Luidia hardwickii is reputed to be from the Indian Ocean, but the exact locality is unknown.

EASTERN ARCHIPELAGO: Five species between the parallels of 20° N. and 10° S.

*Luidia longispina and *Luidia aspera, off the Philippine Islands,
the latter extending to the north of New Guinea. *Luidia forficifer,
in the Arafura Sea. Luidia maculata, off Java, and extending
into the Indian and Pacific Oceans. Luidia chefuensis, off Singapore.

PACIFIC: Eight species between the parallels of 40° N. and 20° S.

On the western side: *Luidia limbata, Luidia quinaria, and Luidia maculata, off the coast of Japan, the last mentioned extending into the Eastern Archipelago and Indian Ocean.

On the eastern side: Luidia californica and Luidia foliata, off the coast of California. Luidia brevispina and Luidia columbiæ, off the coast of Mexico, the former extending to the Sandwich Islands and the latter to Panama. Luidia bellonæ, extending from Panama to Peru as far south as Callao.

The species collected by the Challenger Expedition are indicated in the above list by an asterisk.

B. Bathymetrical range: Shallow water to 374 fathoms.

All the species are found in the Littoral zone, and four only pass into the Continental zone, viz.: Luidia sarsii, Luidia elegans, Luidia convexiuscula, and Luidia barbadensis. None occur in the Abyssal zone.

Greatest range of one species: Luidia sarsii, shallow water to 374 fathoms.

γ. Nature of the Sea-bottom: Generally sandy, or sandy mud; but unfortunately the definite character of the bottom inhabited by Luidia is recorded in very few cases. Of the forms collected by the Challenger, Luidia aspera and Luidia forficifer were both found on Green mud and Coral mud; and Luidia longispina on mud.

Luidia elegans and Luidia barbadensis are recorded as frequenting calcareous pebbles, the latter being also found on fine mud. Luidia convexiuscula is found on Volcanic sand, madrepore sand and broken shells, as well as on a hard bottom. Luidia sarsii is found on sand and coarse shell-sand.

¹ I am in great doubt as to whether this form can really be distinguished from Luidia brevispina.