

ditions which have at length resulted in similar peculiarities of structure. The same observation applies with equal force to several of the ribbed species which come next to be described.

[Pl. XII. fig. 4, *a-d*. *a* Shell seen from left side, *b* from below, *c* from above, *d* from front. All magnified 60 diameters.]

40. *Cythere lauta*, n. sp. (Pl. XXI. fig. 4, *a-d*).

Shell, seen from the side, oblong, subquadrate, the greatest height being situated over the anterior hinge-joint, and equalling at least half the length; anterior extremity well rounded and crenulated, posterior truncated and irregularly notched, lower angle rounded off; dorsal margin sinking rather abruptly behind the anterior hinge, thence sloping gently with an irregularly notched line to the hinder end where it is abruptly angular, ventral margin slightly sinuated; seen from above, the outline is clavate, nearly thrice as long as broad, the sides parallel, suddenly converging in front of the middle, then running again directly forwards and forming a broad truncated anterior extremity; the posterior extremity forms a short truncated and notched prominence rather broader than that of the anterior; end view irregularly quadrangular, the dorsal and ventral margins convex, sides concave. The margins of the shell are produced and form a thick, flattened, and dentated flange, this being most fully developed at the two extremities, and much expanded on the ventral surface; the remaining central portion of the valve forms a somewhat elliptical area, and is marked off more or less perfectly by elevated ridges; there is also an oblique longitudinal ridge occupying the posterior half of the middle line, the rest of the surface being marked by angular excavations. Length, 1.52d of an inch (.49 mm.).

Found only in the Booby Island dredging, from lat. 10° 36' S., long. 141° 55' E., 6 to 8 fathoms. (Station 187.)

[Pl. XXI. fig. 4, *a-d*. *a* Shell seen from left side, *b* from above, *c* from below, *d* from front. Magnified 60 diameters.]

41. *Cythere stimpsoni*, G. S. Brady (Pl. XXI. fig. 6, *a-h*).

*Cythere stimpsoni*, Brady, Les Fonds de la Mer, tom. i. p. 78, pl. x. figs. 7, 8, and Ann. and Mag. Nat. Hist., ser. 4, 1869, vol. iii. p. 48, pl. vii. figs. 9-12.

Carapace of the female, seen from the side, oblong, subclavate, higher in front than behind, greatest height situated over the anterior hinge, and equal to half the length; anterior extremity broadly rounded, bordered with numerous more or less strongly developed spines, posterior much narrower, somewhat angular in the middle, toothed below the middle; dorsal margin gibbous over the anterior hinge, thence sloping with a gentle curve backward; ventral margin nearly straight; seen from above, the outline forms a narrow parallelogram with two nearly equally broad, produced extremities, width