

Subgenus 2. *Larcospirionium*, Haeckel.

Definition.—Spiral convolutions or turns of the cortical shell double; both wings of the transverse girdle turning around the principal axis.

4. *Larcospira oliva*, n. sp.

Cortical shell with smooth surface, six times as long as the lentelliptical medullary shell. Perimeter of the lateral plane elliptical, one and a fourth times as long as broad, without constrictions. Both lateral wings of the transverse girdle turn round one another and form one and a half to two double spiral turns.

Dimensions.—Length of the cortical shell 0·25, breadth 0·2; length of the medullary shell 0·04, breadth 0·035.

Habitat.—Antarctic Ocean, Station 157, depth 1950 fathoms.

Genus 307. *Pylospira*,¹ n. gen.

Definition.—Lithelida with double, trizonal or *Larnacilla*-shaped medullary shell; cortical shell subspherical or lentelliptical, constructed of a single or double spiral of the lateral girdle (or second cortical girdle); the spiral lamella revolving round the sagittal axis.

The genus *Pylospira* follows after *Larcospira* as the second genus of *Larcospirida*; but in this latter the spiral of the cortical shell is formed by the transverse girdle (or the first lattice-girdle of the *Diplozonaria*), whilst in *Pylospira* it is produced by the lateral girdle, or the second lattice-girdle of that group. Therefore *Pylospira* may be derived phylogenetically from *Tetrapyle* in the same manner as *Larcospira* from *Amphipyle*. Whilst in this latter the first cause of the spiral turning, the unequal growth of both girdle-wings, proceeds from the transverse girdle, in *Pylospira* it proceeds from the lateral girdle. One of its wings overgrows the other, turning around the sagittal axis. If the second wing do not become developed, the spiral remains simple and represents the subgenus *Pylospirema*; but if afterwards the second wing follow the example of the first, and overgrow it from the other side, we reach the typical form of the second subgenus, *Pylospirionium*, with a double spiral.

Subgenus 1. *Pylospirema*, Haeckel.

Definition.—Spiral convolutions or turns of the cortical shell simple, only one single wing of the lateral girdle turning around the sagittal axis.

¹ *Pylospira* = Spiral shell with internal gates; πύλη, σπείρα.