

- B. Body not very oblique.  
 B. Surface marked by concentric striae which curve backward between the radii.  
 $\beta_1$ . Strong radii, usually without interstitial additions. *A. boydi.*  
 $\beta_2$ . Slender radii with interstitial additions.  
 $b_1$ . Body broadly ovate; oblique, at an angle of about  $55^\circ$ . *A. theta.*  
 $b_2$ . Body broad and short ovate; oblique, at an angle of about  $45^\circ$ . *A. eta.*  
 B'. Surface not marked by concentric striae which curve backward between the radii.  
 $\beta'_1$ . Strong elevated rays and wider interspaces. *A. epsilon.*  
 $\beta'_2$ . Radii, fine.  
 $b'_1$ . Body at an angle of about  $60^\circ$  with the hinge. *A. delta.*  
 $b'_2$ . Body at an angle of about  $45^\circ$  with the hinge.  
 $b'_1$ . Shell small, body subrhomboidal, subovate. *A. perstrialis.*  
 $b'_2$ . Shell of medium size, rhomboidal, body broadly ovate. *A. iota.*
- C. Body very oblique.  
 Radii filiform, interrupted and undulating. *A. kappa.*

### Crustacea.

*Phacops rana* Hall.

This species is abundant at a single locality in the Ithaca group, station 8-4.

*Mesothyra oceanii* Hall.

This is a rare species in the Portage group.

### Vertebrata.

Pisces.

*Dipterus ithacensis* H. S. W.

Lower Ithaca group and Ithaca shale.—H. S. Williams.