

## PHYTOPLANKTON

The number of vegetable organisms in the plankton collections is much greater than that of animals, and it is much more difficult to assign them their true positions, whether true plankton organisms or casual. It is not intended to give full lists here, as these would almost coincide with the lists in the "Census of Species."

All the Chlorophyceæ in the list (about 150 species, of which about 120 are Desmids) were obtained in the plankton nets. A large proportion must be casuals, washed out from the peat-bogs, etc. These figures may be compared with those given by Messrs W. and G. S. West,<sup>1</sup> who have recorded nearly 200 Chlorophyceæ for the Scottish lochs, about 150 being Desmids.

As I cannot pretend to the knowledge necessary to select from our long list the true plankton Desmids, Messrs West's list of 44 species is here transcribed. I would be inclined to somewhat extend the list.

- Desmids.**—*Gonatozygon monotarium*, De Bary.  
*Genicularia elegans*, West.  
*Closterium kützingii*, Näg. General.  
*Euastrum verrucosum*, Ehr. General.  
*Micrasterias mahabuleshwarensis*, Hobson. Very local.  
*Cosmarium contractum*, Kirchn.  
*C. depressum* (Näg.).  
*C. abbreviatum*, Racib.  
*Xanthidium antilopeum* (Bréb.). General.  
*X. subhastiferum*, West. Local.  
*X. controversum*, West. Local.  
*Arthrodesmus incus* (Bréb.). General.  
*A. quiriferus*, West.  
*A. crassus*, West.  
*A. triangularis*, Lagerh.  
*Staurastrum dejectum* (Bréb.). Local.  
*S. curvatum*, West. Local.  
*S. jaculiferum*, West. General.  
*S. megacanthum*, Lund. Local.  
*S. cuspidatum*, Bréb.  
*S. inelegans*, West.  
*S. longispinum* (Bail.). Local.  
*S. brasiliense*, Nordst. Local.  
*S. grande*, Buln. Local.  
*S. brevispinum*, Bréb.

<sup>1</sup> *Trans. Roy. Soc. Edin.*, vol. xli. pp. 477–518, 1905.