relations and reactions, heats of reaction, instability, etc., which together result in maximal fitness in certain respects, *e.g.* as sources of matter and energy for the processes of metabolism, as sources of complex structures, as the means of establishing complex functions, etc.

- VI. Oceans are formed automatically in the cosmic process.
- VII. The ocean possesses unique properties, e.g. mobility, richness in dissolved substances, durability, and stability of physico-chemical conditions, depending chiefly upon the properties of water and carbonic acid, which together result in maximal fitness in certain respects, e.g. as milieu, and as source of matter for the processes of metabolism, to moderate and equalize temperature, etc.
- VIII. The physical and chemical properties which have been taken into consideration include nearly all those which are known to