

obviate difficulties which would have rendered organic existence a physical impossibility. Nor do the suppositions which the sceptic will urge, that these properties of water and air flow naturally from their constitution, diminish the force of the argument. The force of the argument lies, in the first place, in the fact, that water and air have been created with such anomalous properties; and, in the next and chief place, *that these anomalous properties have been brought into action precisely where they are required*. Moreover, the argument is greatly strengthened, by the fact that *two anomalies*, rather than that *two ordinary circumstances*, have been thus expressly adjusted.

Having stated the general principles on which heat is distributed through water, and its most remarkable consequence; we are now to enter into a few details with respect to some other consequences of this distribution. Of these, one of the most striking is, that the temperature of the water, at the bottoms of deep lakes, or inland seas, must remain nearly uniform during the whole year. Thus it has been found, that the temperature of the water at the bottoms of many of the lakes in Switzerland, often varies no more than  $3^{\circ}$  or  $4^{\circ}$ ; while the temperature of the surface, often fluctuates  $20^{\circ}$  or  $30^{\circ}$ . Hence in deep waters, in temperate climates, the changes of temperature are chiefly confined to the upper