

theories. To him, développement meant development of plan as expressed in structure, not the change of one structure into another. To his apprehension the change was based upon intellectual, not upon material causes. He sums up his own conviction with reference to this question as follows:<sup>1</sup> "Such facts proclaim aloud principles not yet discussed in science, but which paleontological researches place before the eyes of the observer with an ever-increasing persistency. I speak of the relations of the creation with the creator. Phenomena closely allied in the order of their succession, and yet without sufficient cause in themselves for their appearance; an infinite diversity of species without any common material bond, so grouping themselves as to present the most admirable progressive development to which our own species is linked,—are these not incontestable proofs of the existence of a superior intelligence whose power alone could have established such an order of things? . . .

"More than fifteen hundred species of fossil fishes, which I have learned to know, tell me that species do not pass insensibly one into

<sup>1</sup> *Recherches sur les Poissons Fossiles*, vol. i. chapter vi. pp. 171, 172. "Essay on the Classification of Fishes."