

radiate, and the power to radiate was not in proportion to the mass but to the surface. Hence, some of the older planets are less advanced than the earth, because so much larger; while Mars, I imagine, is more advanced, both because smaller in mass and older. Now, during the habitable stage of the earth, the sun remains the residual mass of the ancient nebula.

The sun is a relic of the primordial fire-mist. The sun is historian of a mighty past. He is more to us than a source of bodily comfort. He has shed his vivifying warmth on all the populations which have appeared and disappeared in the history of terrestrial life. He stimulates to growth during the human age, the crops which supply our food, and affords the warmth which yields us comfort and maintains the activities of the natural world. But the sun is more to us than this. He sustains relations to our intelligence. He proclaims and exemplifies our material origin. He responds to our anxious inquiry concerning long histories which were enacted in the ages unnumbered; before man existed.

The history of each planetary mass has repeated the history of the general mass, as far as physical conditions permitted. The planetary mass was a fire-mist possessing ready mobility of parts. It rotated, cooled, contracted, and underwent acceleration of rotation. The larger masses retained the fire-mist state sufficiently long to detach several rings. From these originated the satellites of the larger planets. The earth underwent but one annulation, and had then assumed the fluid or molten state. The two interior planets, with a larger proportion of fixed constituents, attained a fluid state before sufficient contraction had been experienced to lead to the evolution of a single satellite.