

The “three-level-dichotomy” on Charon is a result of expansion tectonics, triggered by impact-induced fractures

The “first dichotomy level” noticeable on Charon was caused by at least two simultaneous impact events which occurred 350 km apart from each other. Each of these two impact events not only produced two distinctive crater areas, which again were formed by several (> 10) (comet) fragments. It also caused extensive fractures and deformations in Charon’s crust, which triggered global expansion tectonics and led to this “first dichotomy event”.

