

The Elysium Transition

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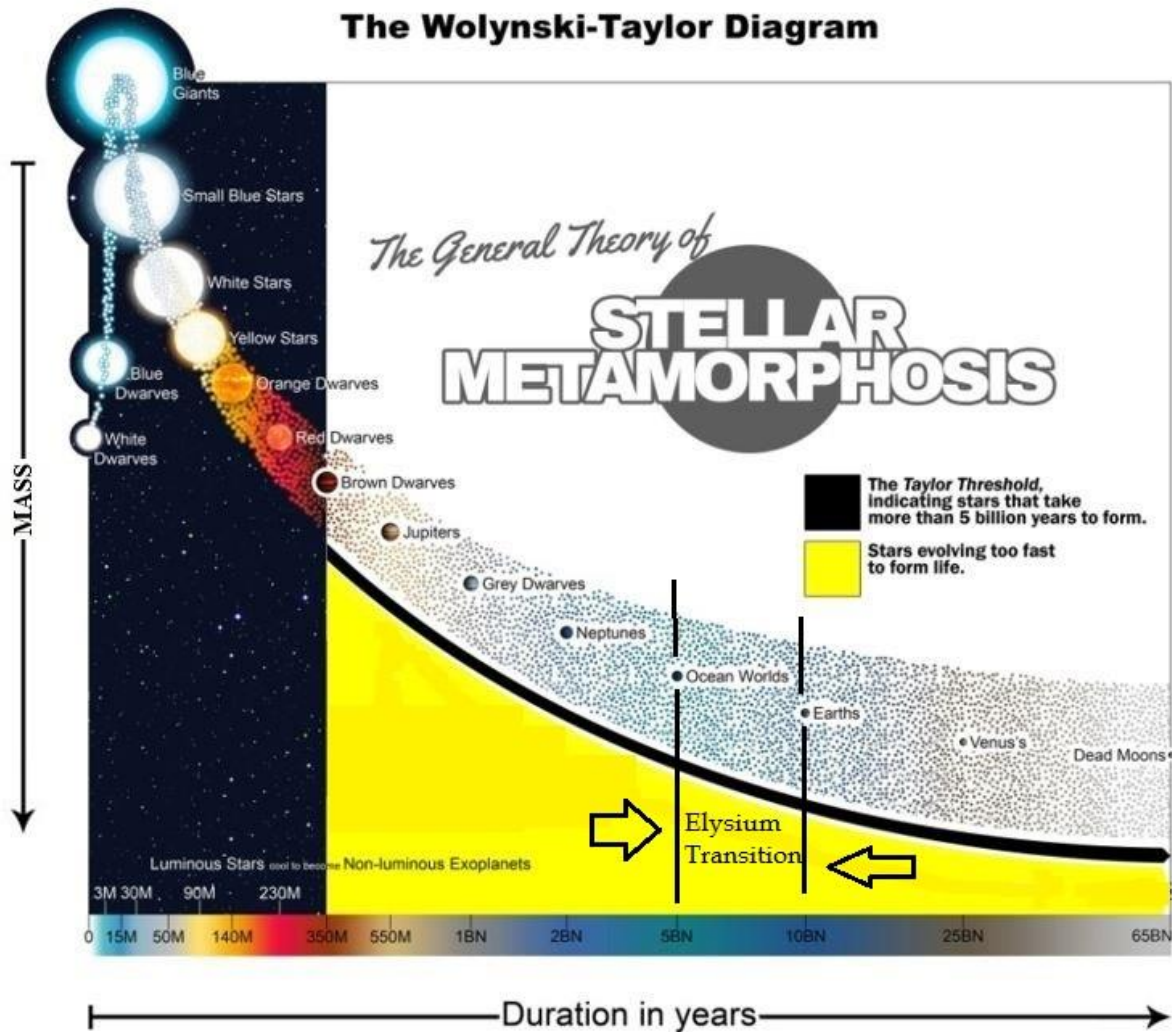
Abstract: There is a point where the water on an ocean/water world has its surface breached due to volcanic growth or crustal deformation bending upwards to great submarine heights. This is in addition to the water evaporating and the world losing its mass, thus making land easier to expose itself above the water. This happens in late ocean world stages, and is called the Elysium transition. Reasoning is provided.

The point at which the first land breaks the surface of the ocean world is the beginning of the Elysium transition. Elysium meaning paradise, and the spot where creatures can crawl/grow on top of to escape the watery shallows and depths. It is the beginning point to when the process of soil formation outside of watery environments starts. It is in essence, a "promised land", which is expected to come about in late stages of ocean world metamorphosis, and the land which promises to allow life to evolve on, in creative, powerful and intelligent forms not yet seen on the star. It is the beginning of a transition of the ocean world to a world that has lots of exposed land to explore and navigate, and with reference to humans, to build a civilization on top of, with war and all its hasty and vain glory to boot, given enough land is exposed.

The Elysium transition is not a single point in time, since the water world could have had been covered in thick ice, thus giving the appearance of "land", but that it is more concerned with actual rocks and minerals with chemical formulas very different than water breaching the surface. The Elysium transition refers to rocks that can not melt as ice does, but does allow for water to carve and shape depending on its weathering properties. It is the beginning of the formation of soils that we are familiar with, but not completely unlike the soils that formed in shallow seas.

It is suggested to the reader to imagine an isolated, young volcano shooting up lava out of its top to make a brand new island, or a quiet granite-like mountain top just barely peaking the surface of the ocean not more than 3 feet off the surface. That is the beginning. Those hidden mountains that have not yet had creatures with gaseous air in their lungs walking on them, are where Elysium begins. An ice berg of gargantuan proportions beneath the surface, almost completely hidden. As the land becomes more and more exposed and creatures of the deep decide to make them residence, we should expect to have found these fossils on these mountain tops, or not, due to crustal deformation which would misplace them. None the less, this transition zone, or Elysium transition which begins the process of making paradise in outer space, is in between Earth's current stage of metamorphosis and full ocean worlds.

The Wolynski-Taylor Diagram



The graph has straight lines marking the zone, but of course this is up for revision. The lines as they currently stand are just to represent the preliminary zone for the breaching of land above the surface of the water, and more than likely curve off to the left to account to stars that have evolved quicker/slower. This being said revisions are still to be made in the future!