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Research Paper

The Celestial Creation and Its Time Cycles- Appendix

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Our Sun & nearby stars are born from the Orion nebula. Whereas, Sungrazer comets are born from the Cat's eye Nebula. Only those of sungrazer comets, which during their perihelion hits the Solar disc, gets established in the solar system. Such comets do later develop as planets of our Solar system. There are many nebulas similar to the Orion nebula or Cat's eye Nebula in our Galaxy.

The Earth's Ecliptic isshaped like anoval disc.The Ecliptic is not tiltedupward or downward, at 6^{th} hour or 18^{th} hour(as it is generally displayed) & it is a straight path.Here word oval indicates Perihelion & Aphelionpoints in the orbital path of the Earth.

The Cat's eye Nebula (NGC 6543) is situated at 90 degrees north, head on over the Sun.Star Polaris is located at 66 degrees north&at almost 0 hour. North pole of our earth is tilted at 24 degrees & currently directed towardsthe Polaris. A circular path with a radius of 24 degrees, surrounding the Cat's eye Nebula indicates projected direction of the Earth's north pole, as seen on same dates of Tropical solar years, spanning 25,987.5 years.In fact, this is not due to any change in the direction of north pole of the Earth. Direction of the Earth's north pole is always the same, if we consider Sidereal year as the base of our calculation. This means that the Earth actually follows sidereal Calander. So, that there are 25,986.5 sidereal years of 365.2562 synodic days in 25,987.5 tropical years of 365.2422 synodic days.

Abell 39 (PN A66 39) in Hercules constellation itselfis the Solar apex. Solar antapex is directed towards star Zeta Canis Majoris. Since the shape of our Heliosphere is like Rupert's drop,distant starsthrough Antapex looks like merging & moving away fromthe Sun. Whereas looking towards solar apex, due to Fish eye effect, makes us feel that distant stars are moving towards our sun. In fact, our sun is stationary. It is neither moving towards Hercules nor moving away from Canis Majoris.The Heliosphere of our Solar system has got two Cusps, through which it inhale& exhale. One cusp is directed towards star Ross 248 in andromeda constellation. Another cusp is directed towards the Cat's eye Nebula. There are 1,155 tubes for inhaling & 7,847 tubes for exhaling in each Cusp.Inhale by solar cusp results in formation of Sun spots over Solar disc. Whereas, Exhale is for pushing used plasma (coming out of Solar disc, in the form of Solar flares) out of the heliosphere.

Voyager 1 & 2 were launched by taking help of flow of plasma Exhaled by the Sun. There were separate Exhale (Solar flare) incidents of varied intensity from southern & northern hemisphere of the Sun during launch of Voyager 1 & 2 during year 1977. The variation in intensity led to variation in time of reaching of voyager 1 & 2 to interstellar space.

The distance covered by Voyager 1 before it entered interstellar spacein 2012 is equal to distance covered by the Comet, from which our Earth is formed, in 483.3182041 years (by considering average speed of Comet Lovejoy as a stander cometary speed). This means that the period of 483.3182041 years is the travel time spent by the Comet (Earth)inside the Heliosphere, before hitting the Solar disc(which led to the Earth's establishment in the Solar system).