**Eight Coincidences ?**

Some sample parameters for the support of life are listed in the table below.

Evidence for the **design** of the Sun-Earth-Moon system:

1. Location of the Earth and Sun within our galaxy’s habitable Zone -

if closer to Galactic center - galactic radiation would be too great;

stellar density would disturb planetary orbits

if farther: quantity of heavy elements would be insufficient to make rocky planets.

2. The color of our star (The **Sun** **is somewhat yellow**)

if redder : photosynthetic response would be insufficient

if bluer: photosynthetic response would be insufficient

3. Earth’s distance from the Sun

if farther: planet would be too cool for a stable water cycle

if closer: planet would be too warm for a stable water cycle

4. The shape of **Earth’s orbit** (How close Earth’s orbit is to being a circle)

if not almost circular: seasonal temperature differences would be too extreme.

5. **rotation period** (The number of hours in one “day”).

if longer: diurnal temperature differences would be too great.

if shorter: atmospheric wind velocities would be too great.

6. The tilt of **Earth’s axis** (compared to the plane of its orbit)

if greater: surface temperature differences would be too great.

if less: surface temperature differences would be too great.

7. magnetic field

if stronger: electromagnetic storms would be too severe.

if weaker: inadequate protection from Sun’s particle radiation.

8. ozone level in Earth’s atmosphere

if greater: surface temperatures would be too low.

if less: surface temperatures would be too high; there would be too

much UV radiation transmitted to the surface.

Each of the parameters cannot exceed certain limits without disturbing a planets’ capacity to support life. For some, the limits have been measured quite precisely. This typically is the case for the stellar parameters. For others, the limits are more uncertain, typically for planetary parameters.

To get a feel for how confining these limits can be, the least confining would be parameter #1, which would eliminate 60% of all candidates from contention.

More confining would be parameters such as #4 and #5, each of which, **independently,** would eliminate about 90% of all candidates from contention. Most confining of all would be parameters such as #3, which eliminates about 99.9% of all candidates from contention. There are at least 75 of these parameters.

Probability for all 75 parameters to occur in a purely naturalistic universe :

* 1 out of 10 99

Maximum possible number of planets in the Universe : 10 22

Much less than 1 chance in a hundred thousand trillion trillion trillion trillion trillion trillion that even one such planet as ours would exist anywhere in the Universe.

* 1 out of 10 77

…..which is statistically pretty close to zero.

These parameters are not consistent with the purely naturalistic model often taught or inferred in our public education system.

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Much of the above material was compiled by Dr. Hugh Ross in 1998.

<http://www.reasons.org/articles/design-evidences-in-the-cosmos-1998>