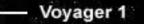
Origins: Is It Reasonable To Believe in God in This Scientific Age?

Belief in God: Is It Reasonable In This Scientific Age?

Rom. 1:20 - His invisible attributes ... understood by the things that are made **☐His Eternal Power** □His Divine Nature (Godhead) Argument from Design





Voyager 1 Projected Flight Path

Órbita de Plutón

The Pale Blue Dot by Carl Sagan

The Drake Equation

 $N=N_{s} f_{s} f_{p} n_{e} f_{l} f_{i} f_{c} F_{L}$

N = number of communicating civilizations in our Galaxy right now

 N_s = number of stars in the galaxy (2x10¹¹) $f_s = fraction of stars suitable for life (0.05-0.3)$ $[1x10^{10} - 6x10^{11}]$ $f_n =$ fraction of suitable stars with planets (~0.1) $[1x10^9 - 6x10^{10}]$ $n_e = average number of habitable planets or moons per solar system (0.01-0.5)$ $[1x10^{7} - 3x10^{9}]$ $f_1 =$ fraction on which life develops (0.01 - 1.0) $[1x10^{5} - 3x10^{9}]$ $[100 - 1.5 \times 10^{9}]$ $f_i =$ fraction on which intelligence develops (0.001-0.5) $f_c =$ fraction which try to communicate (~0.5) $[50 - 7.5 \times 10^8]$ F_{t} = fraction of the star's life during which communicative civilization lasts $(1x10^{-8} - 1x10^{-3})$

 $5 \times 10^{-7} < N < 750000$

Peter D. Ward & Donald Brownlee

Why complex life is uncommon in the universe

The Privileged Planet Guillermo Gonzalez & Jay W. Richards 2004

How our place in the universe is designed for discovery

"...the very same rare properties that allow for our existence ... also provide the best overall setting to make discoveries about the world around us."

God's Crime Scene J. Wallace Warner

A cold case detective examines the evidence for divinely created universe

- The Goldilocks Enigma: Why is the Universe Just Right for Life? Paul Davies, 2008
 - One of the most significant facts arguably the most significant fact – about the universe is that we are part of it." (<u>Goldilocks</u>, page 2)
 - "Everyone agrees that the universe looks as if it was designed for life." (<u>Goldilocks</u>, page 191)
 - "It looks as if our universe is spectacularly "fine-tuned for Life." By this I mean only that it looks as if small changes in this universe's basic features would have made life's evolution impossible." (Universes, J. Leslie, 1996, page 2)

The Anthropic Principle

□ In the 1960's, scientists had discovered:

- Characteristics of the cosmos "fine-tuned" to make physical life possible
- 8-10 characteristics of the solar system "finetuned" for human life to be possible

□ By the 2000's, scientists had discovered:

- 38 characteristics of the cosmos recognized as "fine-tuned" for physical life.
- Over 150 characteristics of the solar system "fine-tuned" for human life to be possible

- Foundational "fine-tuned" factors to support life – "Just right!"
 - **Strong Nuclear Force**
 - Weak Nuclear Force
 - **Electromagnetic Force**
 - Gravitational Force
 - □ Ratio of electrons to protons (# and mass)
 - □ Mass density of the universe

- Regional "fine-tuned" factors to support life – "Just right!"
 - □ Proper type of galaxy

Hubble

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Measure Distances Cockpit Compass

A portion of the constellation Serpens

Types of Galaxies

Elliptical galaxy

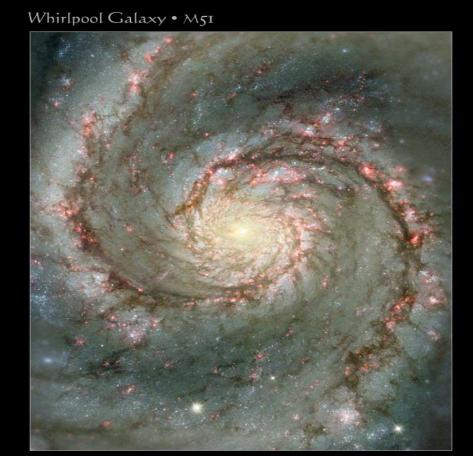
Irregular galaxy



Photo by David Malin



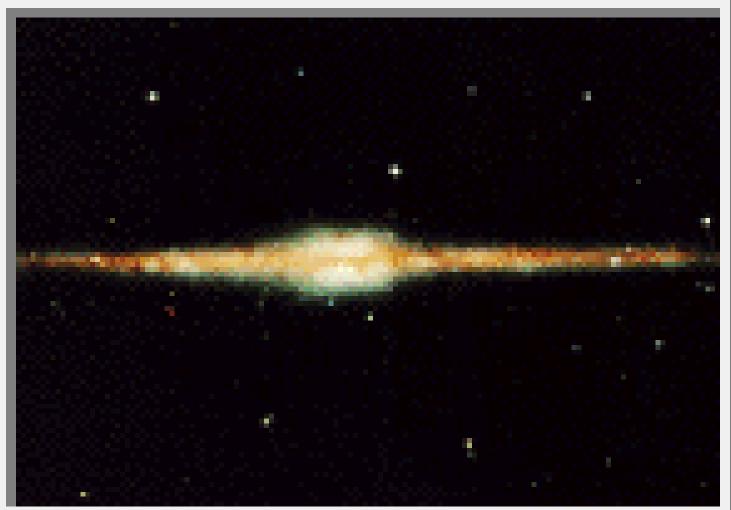
Types of Galaxies Spiral galaxy





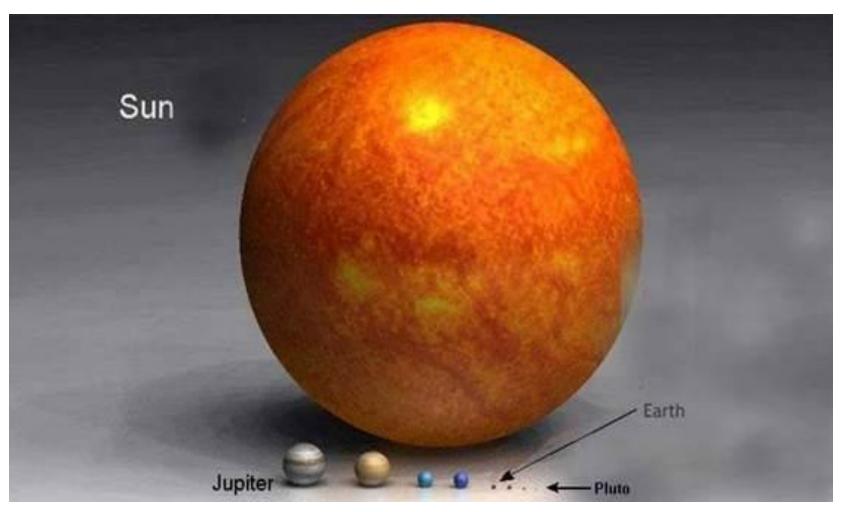
NASA and The Hubble Heritage Team (STScI/AURA) Hubble Space Telescope WFPC2 • STScI-PRC01-07

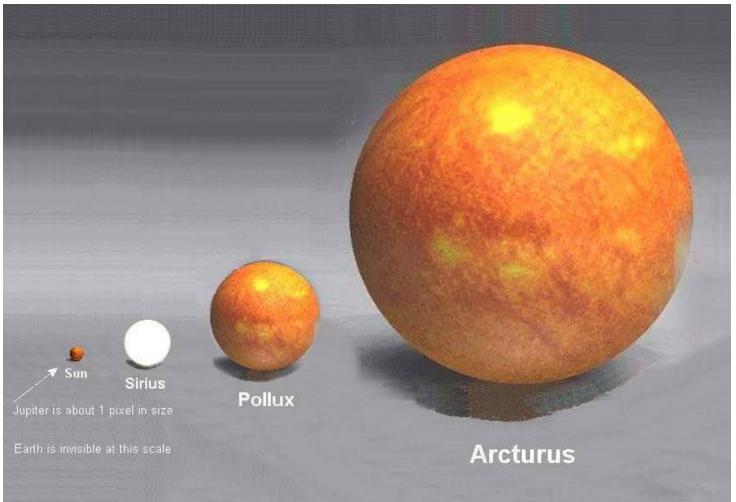
- Regional "fine-tuned" factors to support life – "Just right!"
 - □ Proper type of galaxy
 - Proper place in the galaxy



Regional "fine-tuned" factors to support life – "Just right!"

Proper type of galaxy
Proper place in the galaxy
Proper kind of star (Our Sun)



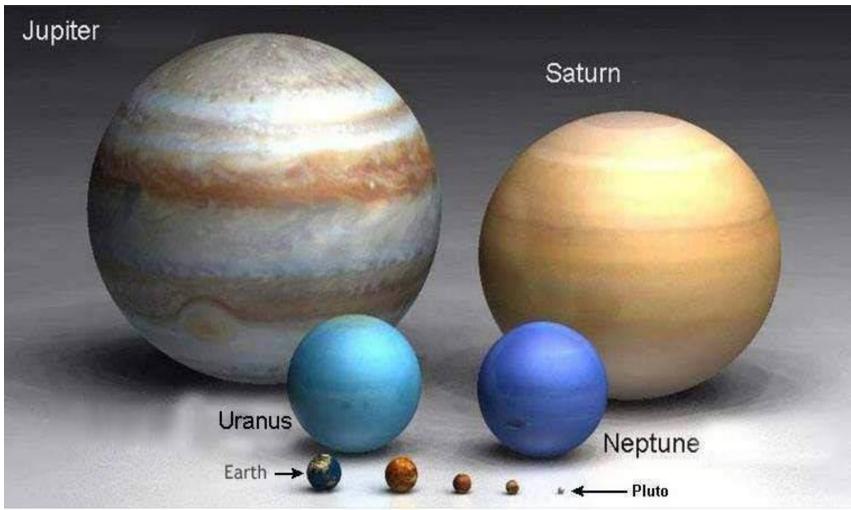


Design in the Universe Regional "fine-tuned" factors to support life – "Just right!"

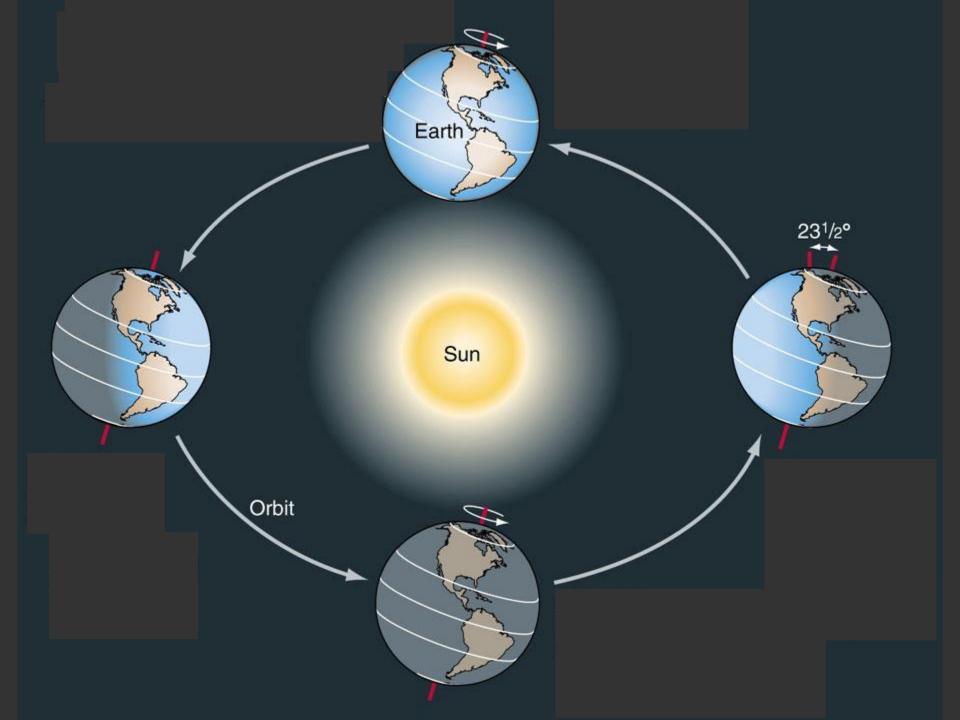
Proper type of galaxyProper place in the galaxy

□ Proper kind of star (Our Sun)

□ Proper mass of our planet



Design in the Universe Locational "fine-tuned" factors to support life □ Just the right distance from the Sun □ Just the right spin □ Just the right tilt



Design in the Universe Locational "fine-tuned" factors to support life

- □ Just the right distance from the Sun
- □Just the right spin
- □Just the right tilt
- □ Just the right Moon
- □ Just the right atmospheric conditions
- □ Just the right terrestrial crust
- □140 MORE!!!

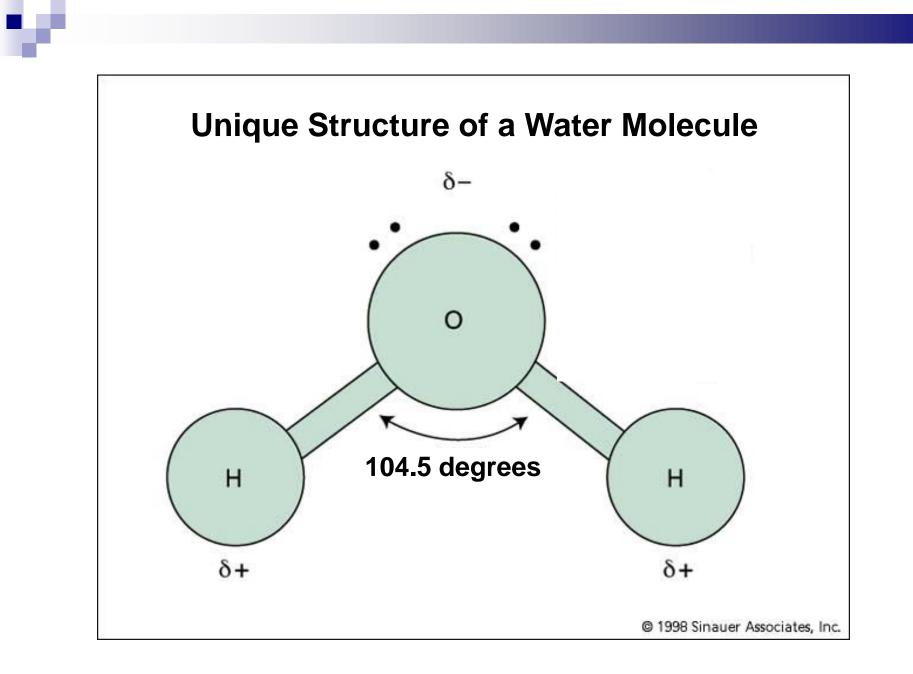
WATER!!!

Covers more than 70% of the Earth's surface

Most plants and animals contain more than 60% water by volume

WATER!!!

A unique structure



WATER!!!

- A unique structure
- Only substance on Earth that exists in all three states: solid, liquid and gas
 Uniquely high specific heat

Wide temperature range for liquid (0 – 100 degrees C) Less dense as a solid!! Universal solvent High surface tension, cohesion and adhesion

Is It Reasonable to Believe in God in this Scientific Age?

Everywhere we look, from the macroscopic to the microscopic things look like they are MADE
 A loud, clear, piercing cry of DESIGN!!

(M. Behe, Darwin's Black Box)

Is It Reasonable to Believe in God in this Scientific Age?

It is more reasonable than ever!!!

Our God, He Is Alive! Is It Reasonable to Believe in God in this Age of Enlightenment?

- John 14:1-6
 - "If you believe in God, believe also in Me ..."
 - "I go to prepare a place for you ...'
 "I am the way, the truth, and the life. No man comes to the Father but by Me."