Monday, November 29 Have Aliens Visited Earth?

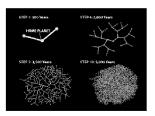


Have you submitted your SEIs?

Have Aliens Visited Earth? Key Concepts

- 1) Extraordinary claims require extraordinary evidence.
- 2) Absence of evidence is not evidence of absence.
 - 3) It's hard to prove a negative.

If an intelligent species developed spaceflight at 10% the speed of light, it could colonize our entire galaxy in ~10 Myr.

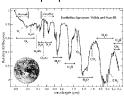


It could do this with "manned" starships or self-replicating robots.

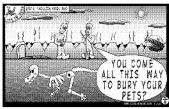
Our planetary system might seem like an intriguing one to visit.

It has a well-behaved star & multiple planets.

One planet has spectral signatures of methane, water, and oxygen.



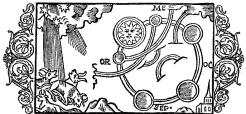
It's not impossible that the Earth has been visited by extraterrestrial spacecraft.



What would constitute persuasive proof of such a visit?

Extraordinary claims require extraordinary evidence.

People have seen "unidentified flying objects" (UFOs) throughout history.



Olaus Magnus (AD 1555

Relatively recently, some UFOs have been identified by some people as alien spacecraft.

The origin of the term "flying saucer": June 24, 1947: Kenneth Arnold, flying near Mt. Rainier, saw 9 UFOs that moved "as a saucer would if you skipped it across the water". He didn't describe them as saucer-shaped, but reporters adopted the term "flying saucer". A side-effect of the "flying saucer" misnomer: lenticular clouds are sometimes misidentified as UFOs. Known atmospheric phenomena are highly diverse. fata morgana

IMO, strongly identifying a UFO as a spacecraft requires physical evidence (exotic alloys? quantum computers beyond our capabilities?)

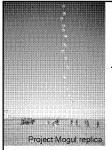


How about the Roswell Incident?

July 1947: Rancher finds debris near Roswell, NM; much excitement because of the "flying saucer" outbreak.

Roswell Army Air Field describes it as the remains of a weather balloon.

Excitement abates.



Roswell, thirty years after:

1978: Stanton Friedman interviews witnesses & claims that the Army recovered a spacecraft (+ crew).

1994: Air Force reveals that Roswell wreckage was of a top-secret balloon experiment (Project Mogul), designed to detect Soviet bomb tests.

Of course, some people believe that the Air Force explanation is a cover-up.







Certainly, the inhabitants of Roswell have a strong economic incentive to adopt the "alien crash" theory.

Crop circles appear in grain fields (often wheat) all over the world (but often in England).	
Are they created by aliens?	
1	
Or genomia NGO Persona Maria Anno and maria de	
IMO, no.	
Crop circles can be made by human beings.	
(In fact, there are crop circle competitions.)	
Erryking Copp.	
Why would an advanced alien being travel several light-years to do the same thing that	
human pranksters can do?	
"Ancient astronauts" hypothesis:	1
alien beings visited Earth early in human history,	
and helped cultures build large monuments.	
per the s	
Septiment for addition, my all large format disastery.	
Patterns on the Nazca desert in Peru, made ~2000 years ago.	

IMO, the "ancient astronauts" hypothesis	
slanders early civilizations.	
mastaba pyramide à degrés pyramide de Gizeh	
da pelle sonn under Vunkanie et garcoplage garcoplage	
mostos 1	
Duls-Chambre Polis. Chambre Revenue George Learner Lea	
sarcophage et 2 grandoserren: 2 grandoserren: 4 galenes abandomées etapes de l'agrandoserren: 4 galenes d'accuton	
For instance, the Great Pyramid of Giza (sometimes	
attributed to ancient astronauts) is a logical evolution	
from earlier Egyptian structures.	
	1
There's no strong evidence for past visits	
by alien beings to Earth.	_
However… Absence of evidence is not evidence of absence:	
a long-ago, temporary visit would not leave traces.	
It's hard to prove a negative:	
the statement "Aliens never visited Earth" is extraordinarily difficult to prove.	
is extraordinarily difficult to prove.	
	1
Tomorrow's Lecture:	
The Fermi Paradox	
THO I OTHER LANGUA	
Final Exam:	
Tuesday, Dec. 7, 1:30 pm	