

UAPs and the ET Hypothesis

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ECHO, Sorbonne Université
November 4th, 2023

“..one must grant there are other earthly spheres in other regions, with different races of human beings and classes of wild beasts.”

Lucretius 99-55 BC

Innumerable suns exist; innumerable Earths revolve around these – living beings inhabit these worlds.

Giordano Bruno 1548-1600



Brief Introductions

- Became interested in UAPs as a child after seeing a video (pre-CGI)
- Career in United States Intelligence as the Deputy Assistant Secretary of Defense for Intelligence
- Alerted Congress and the press to UAP violations of US airspace
- Advocate for UAP transparency

Admiral Roscoe Hillenkoetter, First CIA Director

“Behind the scenes, high-ranking Air Force officers are soberly concerned about UFOs. But through official secrecy and ridicule, many citizens are led to believe the unknown flying objects are nonsense.”

New York Times, 1960

UAP Hypothesis Topics to Cover

Part I: What is the Probability of Advanced Alien Life in Our Region of the Milky Way?

Part II: Could They Get Here?

Part III: Is There Credible Evidence Consistent with the UAP ET Hypothesis?

Part IV: What Might the Impact Be If True?

Part V: Conclusion: Assessing the ET Hypothesis



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Part I

Probability of Advanced Alien Life

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Astronomical Context: Life Should Abound

We have ample reason to believe that other civilizations can and do exist within our galaxy.

- Recent research data (2020) from the Kepler telescope suggests that of the *billions* of planets in the Milky Way, there could be **300 million+** in the habitable zone.
- Ubiquitous presence of organic molecules and other precursors for biological life
 - Based on a study published in September 2023, a team at the University of Wisconsin–Madison has identified ~270 chemical reactions that might give rise to life.
 - Professor and astrobiologist, Betül Kaçar: **"It was thought that these sorts of reactions are very rare,"** says Kaçar. **"We are showing that it's actually far from rare. You just need to look in the right place."**
 - Their research highlights the importance of autocatalytic reactions, where the outcome of a chemical reaction fuels further instances of that same reaction.

Estimations of Alien Civilizations

**350 -
10,000+
in Milky
Way Galaxy**

Duncan Forgan
*PhD Candidate, Royal
Observatory in Edinburgh,
Scotland*

**Dozens in
Milky Way**

**Tom Westby and
Christopher Conselice**
*Researchers, University of
Nottingham*

**Trillions
across
universe**

**Adam Frank and
Woodruff Sullivan**
Astronomers

Astronomical Context: Life Should Abound (cont.)

We have ample reason to believe that other civilizations can and do exist within our galaxy.

- A 2023 analysis by Professor Piero Madau estimates there could be **11,000 Earth-sized habitable planets within 326 light-years of the sun**, using a new mathematical framework.
 - Research suggests the closest exoplanet with life might be within **65 light-years** and will guide future astrological studies using advanced telescopes.
- Also in 2023, NASA's James Webb Space Telescope detected **dimethyl sulfide (DMS) molecules on exoplanet K2-18b 150 light years from Earth**, suggesting the presence of extraterrestrial life, as DMS is believed to be exclusively produced by biological organisms.



Part II

Yes, They Can Get Here

Yes, Interstellar Travel is Possible

Intelligent life might be rare, making Earth a significant point of interest for space-faring species.

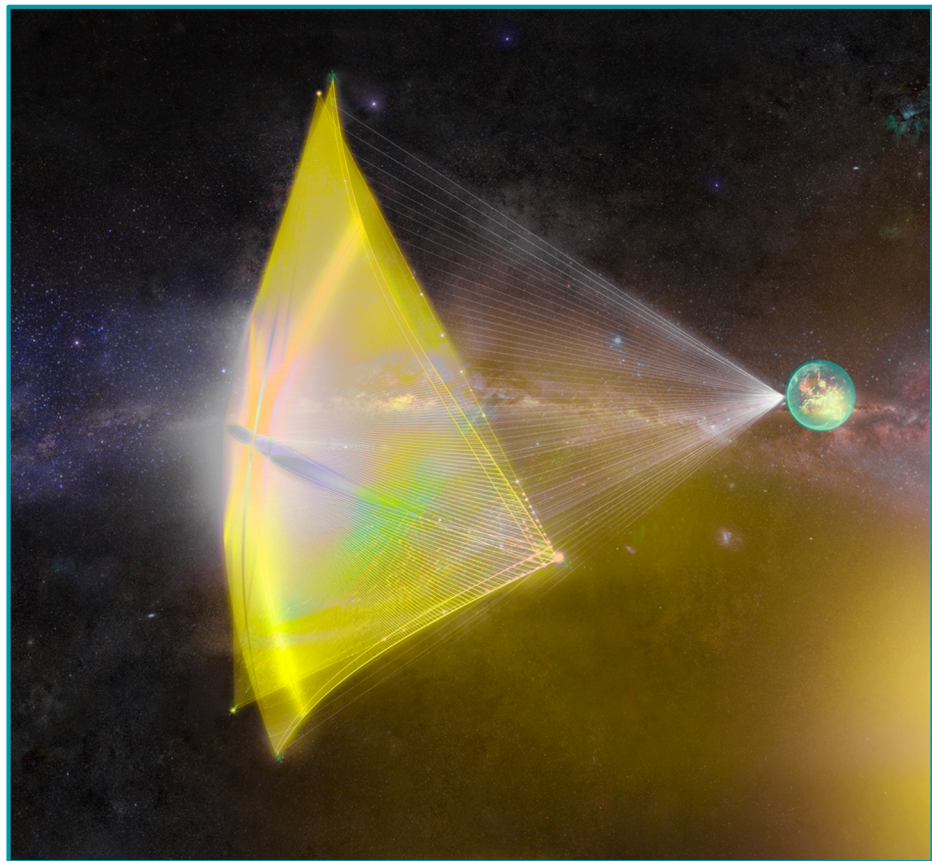
- Advanced alien civilizations could send probes to Earth, even without faster-than-light travel. Potential propulsion breakthroughs include:
 - Alcubierre Drives
 - Wormholes
 - Undiscovered methods
 - Interdimensional
 - Other

Radio Dishes are Insufficient in the Search for Intelligent Life

Why?

- Aliens may use unknown or disguised communication tech.
- Powerful direct signals needed for detection from even nearby star systems.
- PROBES MAKE A LOT MORE SENSE







Part III
**Modern Encounters &
Data**

What About Modern UAP Data?

As our population increases and technology becomes more advanced, we expect to see more evidence of UAP sightings and encounters.



Mutual UFO Network (MUFON) has a database of **200,000 reported cases** with 96% investigated as of November 2023.



National UFO Reporting Center (NUFORC) has processed over **170,000 reports** since 1974.

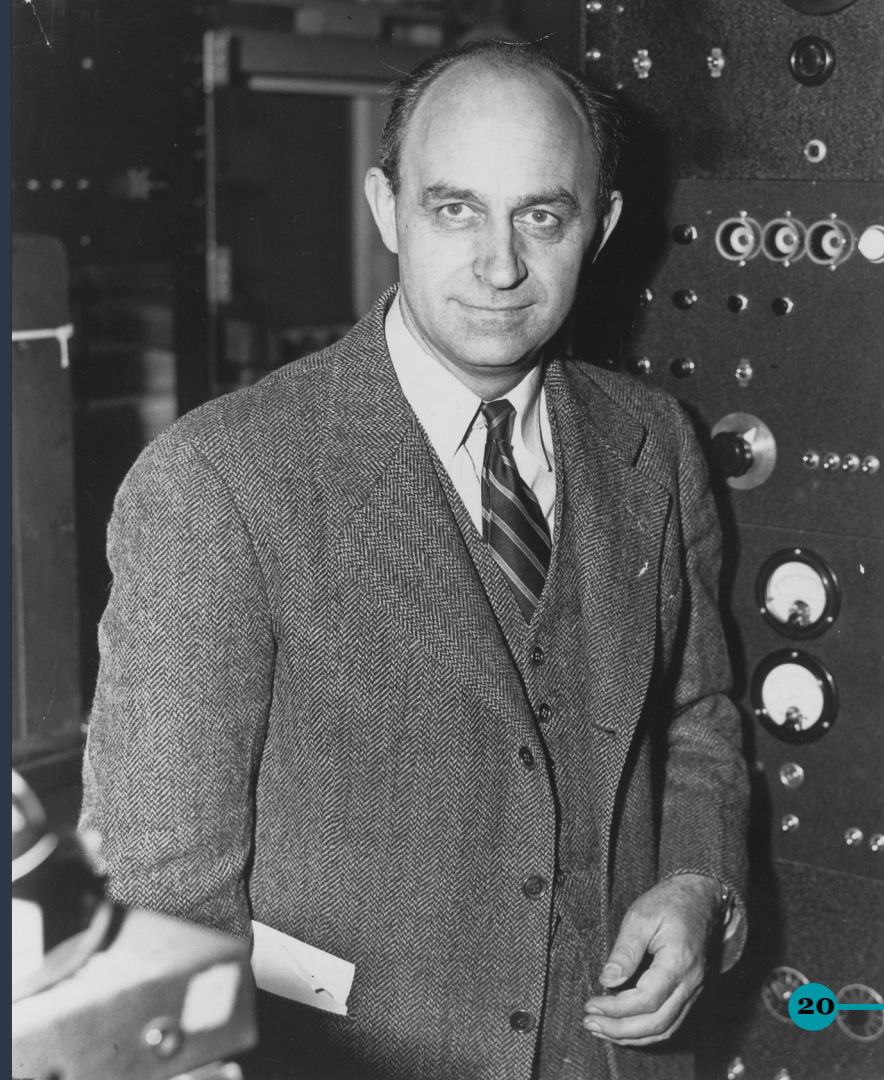


Chief Scientist, Dr. Richard F. Haines, National Aviation Reporting Center on Anomalous Phenomena (NARCAP) has collected over **3400 cases** of aviation-related observations and incidents involving unidentified aerial phenomena, UAP.

Note: sightings are vastly underreported (estimated 1 in 10 are reported).

Fermi's Paradox

“Where is everybody?”



File No: (24-8)-28

25 May 1950

SUBJECT: Summary of Observations of Aerial Phenomena in the New Mexico Area, December 1948 - May 1950

TO: Brigadier General Joseph F. Carroll
Director of Special Investigations
Headquarters USAF
Washington 25, D. C.

1. In a liaison meeting with other military and government intelligence and investigative agencies in December 1948, it was determined that the frequency of unexplained aerial phenomena in the New Mexico area was such that an organized plan of reporting these observations should be undertaken. The organization and physical location of units of this Dis-

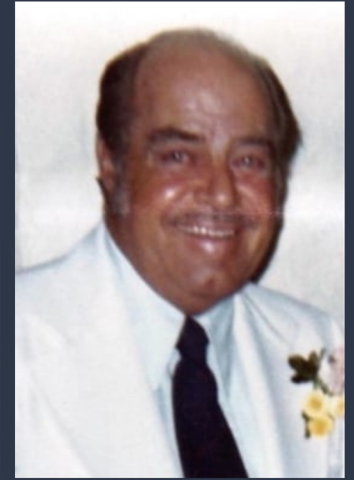
1. In a liaison meeting with other military and government intelligence and investigative agencies in December 1948, it was determined that the frequency of unexplained aerial phenomena in the New Mexico area was such that an organized plan of reporting these observations should be undertaken. The organization and physical location of units of this District were most suitable for collecting these data, therefore, since December 1948, this District has assumed the responsibility for collecting and reporting basic information with respect to aerial phenomena occurring in this general area. These reports have been distributed to the Air Materiel Command, USAF, in accordance with Air Intelligence Requirements No. 4, and to other interested military and government agencies.

2. There is attached, as a part of this summary, a compilation of aerial phenomena sightings that have occurred mostly in the New Mexico area and have been reported by this District Office subsequent to December 1948. This compilation of sightings is not a complete record of all reported observations, but includes only those in which sufficient information was available to justify their inclusion. The observers of these phenomena include scientists, Special Agents of the Office of Special Investigations (IG) USAF, airline pilots, military pilots, Los Alamos Security Inspectors, military personnel, and many other persons of various occupations whose reliability is not questioned. This compilation sets forth the most important characteristics with respect to each observation and evaluates each sighting into one of three classifications, (1) green fireball phenomenon, (2) disc or variation, and (3) probably meteoric.

62-13894-755

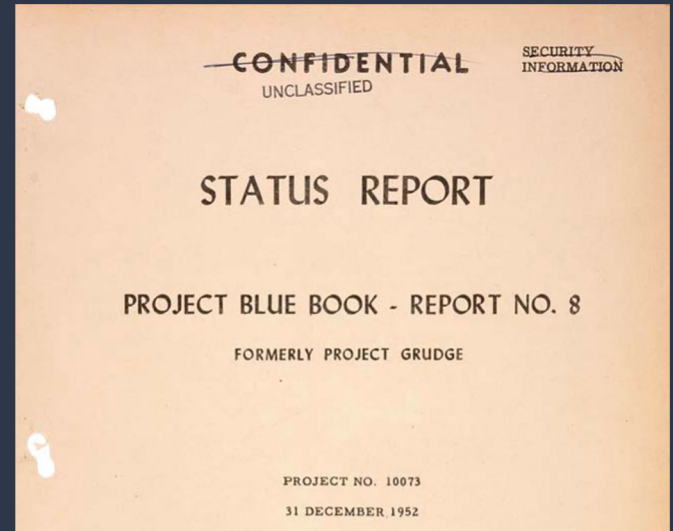
Farmington, New Mexico

1950



Quality and Quantity

- **Project Blue Book** findings:
 - Evaluated 12,000 cases.
 - Over 700 cases unexplained.
 - 30% of highest quality cases (“Excellent”) remained unexplained.
- Contrary to skeptics, more information often makes conventional explanations *harder*.



Sighting Reliability	No. of Reports	Unknown (%)	Insufficient Information (%)
Poor	435	16.6	21.4
Doubtful	794	13.0	14.0
Good	757	24.8	3.6
Excellent	213	33.3	4.2

11. Throughout the years of the UFO phenomenon, there has been a persistent form of official pronouncements which state that the percentage of unknowns would be reduced if more data were available. The above table contradicts that statement. Reports of excellent reliability generally stem from astronomers, pilots, scientists, surveyors, meteorologists, radar operators etc. complete with instrumented values and accurately detailed accounts. The introduction of good reliable reporting prevents the ready prosaic interpretation. In all probability the overall average percentage of unknowns (19.7%) would have been substantially increased if the data had been more reliable.

DECLASSIFIED
NND 723067
Date: 11/04/2011

ENTER

The Nimitz Case



Lt. Chad Underwood US Navy

- “It was just behaving in ways that aren’t physically normal. That’s what caught my eye. Because, aircraft, whether they’re manned or unmanned, still have to obey the laws of physics. They have to have some source of lift, some source of propulsion. The Tic Tac was not doing that. It was going from like 50,000 feet to, you know, a hundred feet in like seconds, which is not possible.”

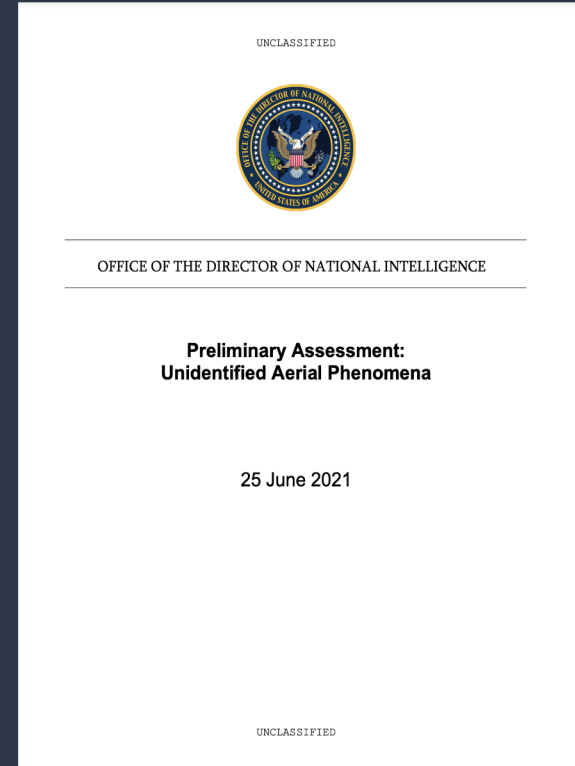
Credible Data Defying our Understanding of Physics

- INTELLIGENTLY CONTROLLED
- NO SONIC BOOM
- NO PLASMA
- SURVIVED IMPOSSIBLE G FORCES
- INSTANTANEOUS ACCELERATION
- RADAR JAMMING

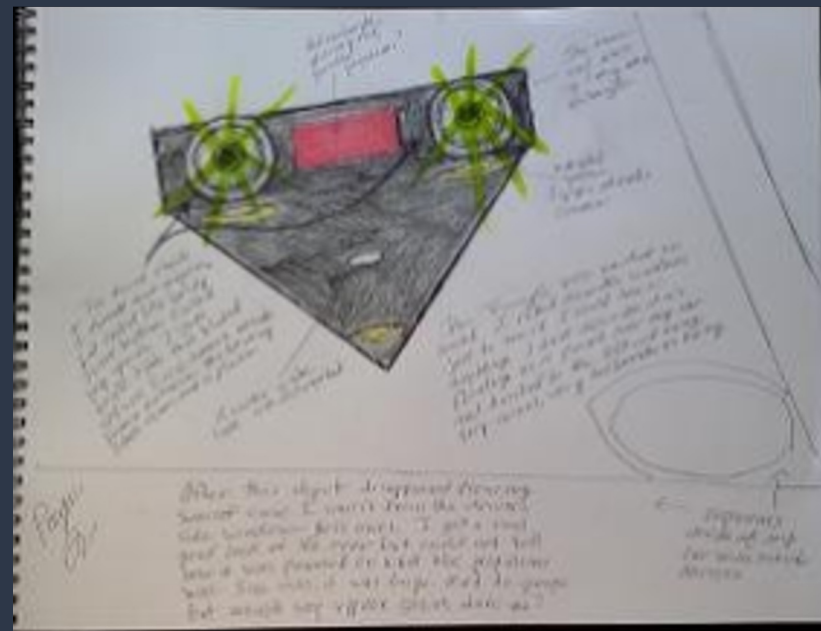
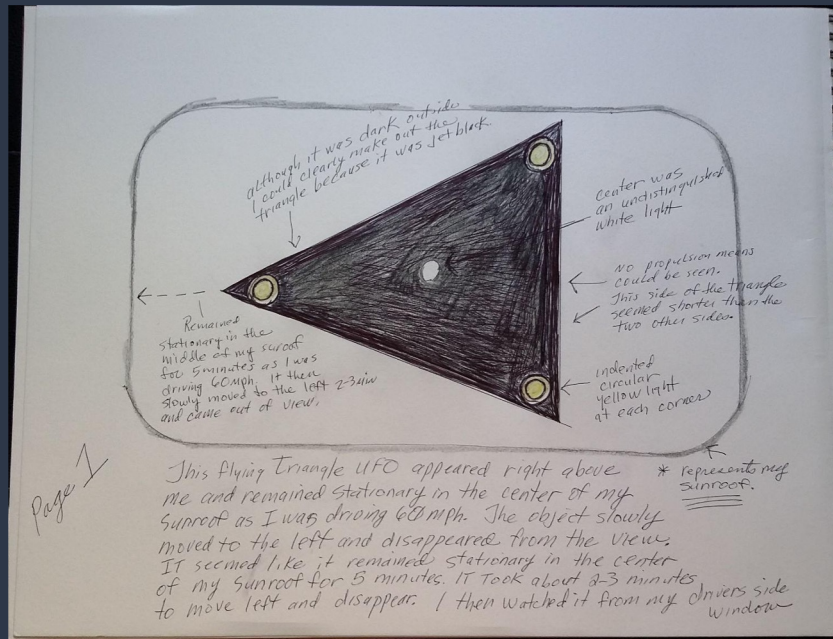
UAP Unclassified Report (2021)

In 2021, the Senate Intelligence Committee released an unclassified UAP report.

- Limitations of report
 - Contained very little data from NORAD or the US Air Force
 - Only 1 out of 144 UAP identified
 - Timeframe: 2004 - onward
- No evidence to support Russian or Chinese interference
- Number of DoD sightings exploded from 144 in 2021 to over 800 today



Hampton Triangle



New Saucer Twist:

'Flying Triangle' Seen in State

CROMWELL (Special) — Richard Ireton has decided that seeing triangles isn't so square.

Ireton, who lives at 34 Grove Rd. here, said Friday he, his wife and neighbors all saw "flying triangles" two weeks ago. He said he didn't report his findings at first for fear of being "ridiculed."

Now, he says, he's going to ignore opinion and stand by his facts. His detailed descriptions of what he saw and how he saw it testify to his work as a machinist.

Eerie: No Noise

Ireton said that about 11:30 p.m. Sept. 2 he and his wife were driving on Rt. 1 in Westbrook. After crossing a bridge, he noticed "an aircraft about to crash."

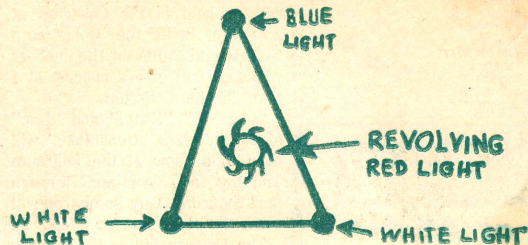
He stopped the car to watch the object, which he and his wife saw "veer to the south toward the shore." They drove to the beach. There they saw the object again, going "about the speed of a Piper Cub plane."

The eeriest part of the whole thing he said, was that the flying object made no sound.

'Terrific Speed'

The object went toward Cornfield Point where it hovered in the air, going first back and forth horizontally and then up and down, Ireton said. It then flew back past him toward the public beach at Westbrook.

Ireton returned to his car and drove to the public beach. There he said, he saw it go up and off



at an angle "at a terrific rate of speed" toward Long Island Sound — but with no sound of its own.

He said the object had, at two points of the triangle, white lights, at the third point, a blue light. In its center was a revolving red light, Ireton said.

He said the object seemed to fly in an "upright position," with the blue-lighted point on top. He said it was about the size of a jet fighter plane.

After it zoomed away to a great height, he said, it looked like a bright star.

Back Again

The next night, Sept. 3, he was at his father's cottage on Chalker Beach when the object was seen again by the Iretons, the people in the next cottage and their grandson. It was seen about 9:30 p.m., hovered over the water for a while, then went up very fast and stayed in one spot.

Ireton watched the object with binoculars for half an hour. Then

he became cold, he said, and went into the cottage. Several people in this area told him they saw the same thing at the same times, he said.

Finally feeling his experiences weren't incredible, he reported the sightings to the State Police. They said other sightings were reported, but had no advisory on what the object might be.

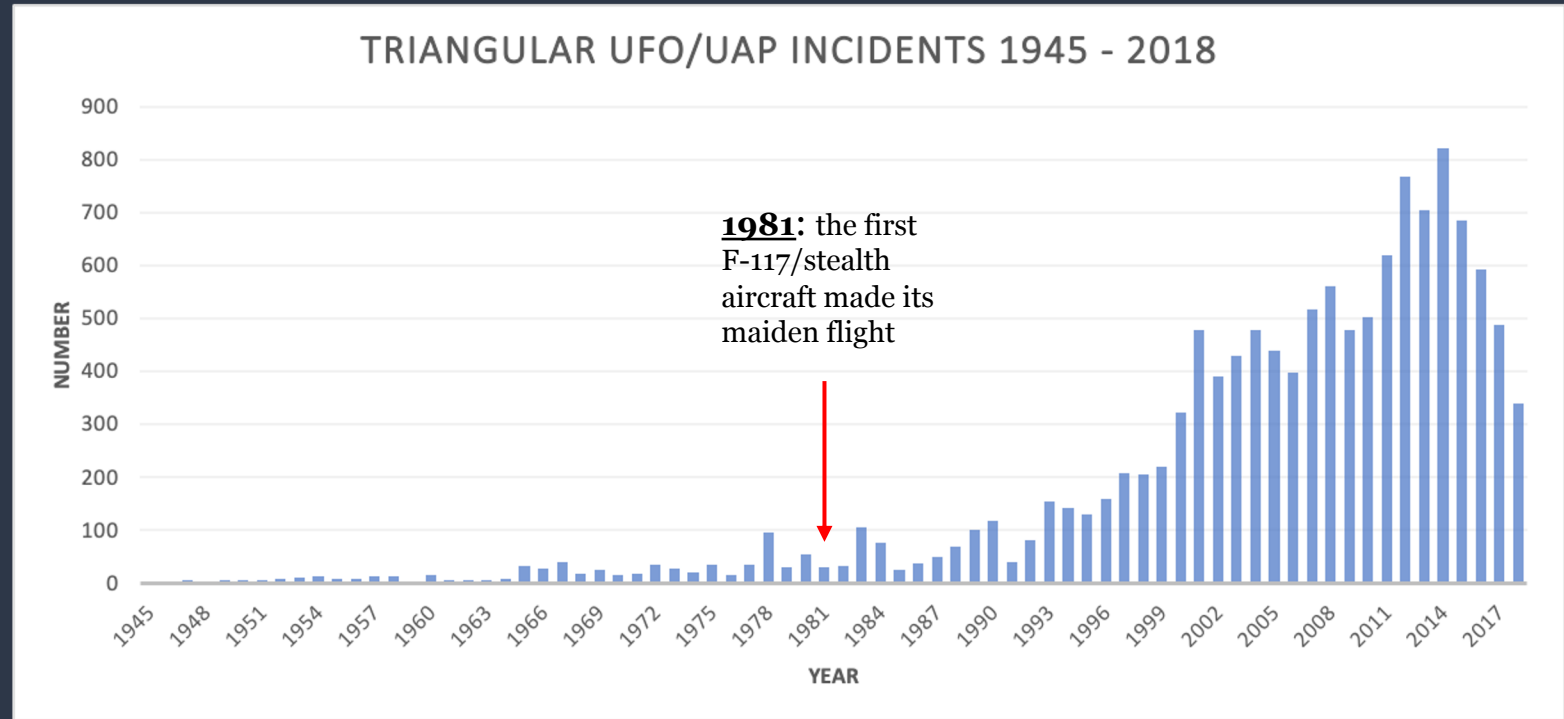
'No Bug'

No neophyte plane spotter — he's an Air Force veteran — Ireton said no one seemed much interested in his report.

"I'm no bug on this thing," he said. "I hesitated for a long time and didn't want to report it because I know these things are laughter at." I laugh at them myself. But I saw this thing, close

See TRIANGLE, Page 2

Triangular UFO/UAP Incidents



“Drone” Sightings

Colorado Sightings || 2019-2020



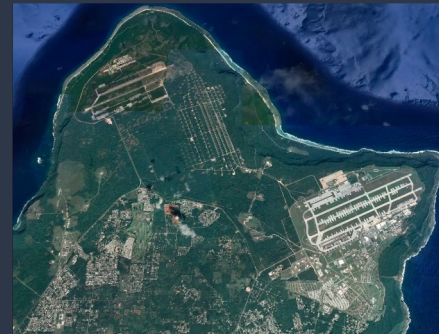
Doel Nuclear Plant, Belgium || 2014



Palo Verde Plant, Arizona || 2019



Anderson Air Force Base, Guam || 2019



“I don’t believe they’re coming from foreign adversaries, if they were, why that would suggest that they have a technology which is in a whole different sphere than anything we understand. And, frankly, China and Russia just aren’t there. And neither are we, by the way...”

– *Mitt Romney, July 2021*

Does America have Recovered UAP Materials?

Multiple government sources indicate **yes**.

**Source
#1**

Describes management, control structure, and authorities; identified US Air Force gatekeeper.

**Source
#2**

Redacted source claims to have assessed technical data on a recovered UAP and to be knowledgeable of a US exploitation program. Claims another country has recovered a device as well.

**Source
#3**

Claims to have subordinates working on reverse engineering; believes the US tracks UAP as they enter the atmosphere.

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TACT

Part IV

Top Ten Arguments for Disclosure

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Top Ten Arguments for Disclosure

The benefits to humanity outweigh the fear of discovering we're not alone in the universe.

- **Democracy requires transparency**
 - In our democracy the American people have a right to know the truth of this matter.
- **We own any discovery.**
 - Any recovered materials recovered by the US government belong to the American people.
- **We can handle it.**
 - Our ancestors persevered despite profound fears of the unknown and so can we.
- **We don't control UAP.**
 - Better to have disclosure on our terms rather than a sudden event that might cause panic.

Top Ten Arguments for Disclosure

- **If true, Disclosure is only a matter of time.**
 - Foreign nations and civilian scientific groups around the world are undertaking ever more sophisticated and extensive UAP collection campaigns.
- **Congress is proceeding with it's investigations.**
 - The goal is not to prosecute or punish, but to bring the truth to light.
- **Secrecy stifles science.**
 - If we have recovered off-world technologies, our best and brightest minds should be engaged in evaluating it.
- **Time to reduce international tensions.**
 - If it turns out that we've had some contact with other life forms, a reframing of international relations would be inevitable, almost certainly for the better.

Top Ten Arguments for Disclosure

- **No imminent threat.**
 - It seems unlikely that revealing the truth would change the pattern of UAP behavior we have been observing for many decades.
- **Spark vitally needed collaboration.**
 - I cannot think of anything more likely to shock humanity out of its present complacency than the revelation we are not alone. What better way to foster collaboration and highlight the critical importance of our shared humanity?

“Cannot swords be turned to plowshares? Can we and all nations not live in peace? In our obsession with antagonisms of the moment, we often forget how much unites all the members of humanity. Perhaps we need some outside, universal threat to make us recognize this common bond.

I occasionally think how quickly our differences worldwide would vanish if we were facing an alien threat from outside this world. And yet, I ask you, is not an alien force already among us?

What could be more alien to the universal aspirations of our peoples than war and the threat of war?”

PRESIDENT RONALD REAGAN





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Part V

Assessing the ET Hypothesis

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Assessing the ET Hypothesis

- No public scientific proof yet of ET origin for some UAPs.
- However until now the scientific community hasn't researched UAP. Past scientific community neglect has hindered UAP research until recent changes led by the USG and figures like Dr. Loeb.
- Witness testimonies are pivotal
 - e.g., Nimitz pilots and USS Princeton radar operators' UAP encounters suggest non-human origin.
- Absence of scientific proof **does not** indicate absence of evidence.
 - OUR LEGAL AND NATIONAL SECURITY SYSTEM COULDN'T FUNCTION WITH A SCIENTIFIC BURDEN OF PROOF. WE SHOULD EMPLOY SCIENCE WHEN POSSIBLE, BUT GOVERNMENT CANNOT LIMIT ITSELF TO SCIENTIFIC JUDGMENTS.



Appendix
AARO-Released
Information

AARO: Typically-Reported UAP Characteristics

TYPICALLY-REPORTED UAP CHARACTERISTICS

Appearance	Morphology	Round
	Size	1-4 meters
	Color	White, Silver, Translucent
Performance	Altitude	10K – 30K feet
	Velocity	Stationary to Mach 2
Signatures	Propulsion	No thermal exhaust detected
	Radar	Intermittent, X-Band (8-12 GHz)
	Radio	1-3 GHz, 8-12 GHz
	Thermal	Intermittent, Shortwave Infrared, Medium-Wave Infrared

AARO: Critical Information for UAP Analyses



What kind of information would be necessary and sufficient for UAP analyses?

about the phenomenon

- UAP-event description or narrative
- UAP location relative to the observer, with as much precision as practicable
- Number of UAP-objects observed during the phenomenon and indications of intra UAP-object coordination and/or communication
- Indications of advanced and/or enigmatic capabilities
- UAP characteristics, including physical state (e.g., solid, liquid, gas, plasma); description (e.g., size, shape, color); signatures; propulsion means; payload
- UAP performance envelope, including altitude and/or depth; travel path and trajectory; velocity; maneuverability
- UAP behavior, including whether under apparent intelligent control, apparent response to observation and/or observer presence, and apparent indications of indifference or hostility

about the observer

- Observer's date, time, location, and travel path for first and last observation of the UAP, with as much precision as practicable
- Observer's behavior toward the UAP
- Sensors that detected the phenomenon (e.g., visual, radar)
- Any physiological, psychological, or other effects apparently corresponding to the UAP observation
- Observer's assessment of the UAP, including the nature of the phenomenon and whether it was benign, a hazard, or a threat
- Identification of any other observers

AARO: Heat Map of Reports

