

Can NASA uncover the scientific reality of UAPs? (Unidentified Aeronautical Phenomena)?

Yoshinari Minami

Advanced Space Propulsion Investigation Laboratory (ASPIL)
(Formerly NEC Space Development Division), JAPAN.

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ABSTRACT: *On September 14, 2023, an expert research group made up of a team of NASA scientists released their final report on "unidentified aeronautical phenomena (UAPs)," which include unidentified flying objects (UFOs) and natural phenomena. General impressions regarding this report are stated.*

KEYWORDS: NASA, scientific reality of UAPs, aeronautical phenomena

In response to the Unidentified Aeronautical Phenomena (UAP) Investigation Report released by the U.S. Department of Defense in June 2021[1], NASA formed a team of scientists and began investigating Unidentified Aeronautical Phenomena (UAP). According to a report released by the U.S. Department of Defense, "A small number of UAPs appear to be demonstrating advanced technology: Observers have reported unusual UAP movement patterns or flight characteristics. It appeared to be stationary in the wind, moving against the wind, maneuvering suddenly, and moving at considerable speeds, without any discernible means of propulsion." is explained [2].

At the current stage of space propulsion technology, the only practical propulsion systems are chemical propulsion systems that eject mass to induce momentum thrust, and electric propulsion systems (ion thrusters, plasma thrusters, hall-thrusters, etc.). Unfortunately, this method cannot solve the problem due to theoretical performance limits. Therefore, there has been a need for innovative development of propulsion methods [3].

Now, on September 14, 2023, an expert study group made up of a team of NASA scientists on "Unidentified Aerial Phenomena (UAP)" which includes unidentified flying objects (UFOs) and natural phenomena, released its final report.

We were looking forward to NASA's final report, but the response we got was a poor one: NASA pointed out that "appropriate data collection is necessary" stating that the current information is of low quality and cannot draw scientific conclusions.

Ultimately, NASA has no understanding of the propulsion mechanisms that explain the UAP's propulsion principles and resulting flight performance. It says that "appropriate data collection is

necessary” but even though there is more than enough data from the past to the present, what more data is needed?

Even if NASA collects data, they cannot gain a fundamental understanding, because without understanding the propulsion principle and propulsion mechanism, they cannot obtain any fundamental and concrete solutions.

To begin with, there was no propulsion system expert on the committee from the outset. Figuratively speaking, NASA's expert research group believes that, for example, compared to a propeller plane, the flight performance of a jet plane, which flies at high speed and circles in the air, can be explained from observational data, but what kind of propulsion principle and propulsion mechanism do jet planes use to fly?

In addition, experts in each industry field publish their opinions online, but these opinions are limited to their field. Therefore, they do not indicate the actual situation of UAP in any way.

The unique flight performance and flight patterns of UAPs are explained based on observations, but the mechanism behind why such flight performance and flight patterns occur is not explained from the standpoint of propulsion principles. To our regret, they can't explain it because they don't understand its principle. Here, following materials explain the unique flight performance and flight pattern mechanism of UAPs as described in the materials [4, 5]. Their materials are the only ones that carefully describe the UAP's propulsion principle and mechanism using diagrams and mathematical formulas.

After all, without above stated materials [4, 5], NASA seems to be not able to solve the entity of UAP for the time being.

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