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"Rummaging in the government's attic"

Description of document: National Aeronautics and Space Administration (NASA) emails from Associate Administrator of Communications Marc Etkind containing the word "UAP" or the phrase "Unidentified Aerial Phenomena,"
May 26, 2021 - July 18, 2021

Requested date: 25-June-2021

Release date: 30-November-2021

Posted date: 06-December-2021

Source of document: FOIA Request
NASA Headquarters
300 E Street, SW
Room 5Q16
Washington, DC 20546
Fax: (202) 358-4332
Email: hq-foia@nasa.gov
[Online FOIA submission form](#)

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National Aeronautics and Space Administration

Headquarters
Office of Communications
Washington, DC 20546-0001



November 30, 2021

Reply to Attn of: MS5L9, FOIA Public Liaison

Via Email

REF: FOIA Case No. 21-HQ-F-00562

This is our Final Determination of your Freedom of Information Act (FOIA) request, dated and received by the National Aeronautics and Space Administration ((NASA) Headquarters (HQ) FOIA Office on June 25, 2021. Your request was assigned FOIA Case Number 21-HQ-F-00562 and sought:

“A copy of each email in the email accounts of individuals in the NASA **Office of Communications** that contains the word UAP , based on an electronic search. I limit this request to the time period May 1, 2021 through the present.”

In an email, dated July 11, 2021, you agreed to narrow your request to only include emails from Associate Administrator of Communications Marc Etkind containing the “word UAP OR the phrase Unidentified Aerial Phenomena. A copy of that email is enclosed for your reference.

In response to your request the Information Technology Office conducted searches of Mr. Marc Etkind’s email inbox using the search terms UAP and Unidentified Aerial Phenomena. At this time the search of Mr. Etkind’s email inbox is complete. The search located 118 emails totaling 543 pages¹.

Pursuant to the White House, the United States Navy Consultations and NASA’s independent review of these responsive records under the FOIA, we are providing the following:

266 page(s) are released in full (RIF);²
076 page(s) are released in part (RIP);
03 page(s) are referred to another entity.

¹ While the search located 118 emails totaling 543 pages, duplicate emails were removed from the collection of responsive records. The result was a total of 345 pages as more specifically described below. To facilitate processing, several emails with the same title were combined into one pdf file.

² All page counts are approximate numbers.

In keeping with the White House and the United States Navy recommendations and NASA's review, NASA redacted from the enclosed documents certain information pursuant to the following FOIA exemptions:

Exemption 5, 5 U.S.C. § 552(b)(5)

Exemption 5 protects “inter-agency or intra-agency memorandums or letters which would not be available by law to a party other than an agency in litigation with the agency.” 5 U.S.C. § 552(b)(5). Courts interpret Exemption 5 to incorporate three primary privileges: the attorney work-product privilege, the attorney-client privilege, and the deliberative process privilege. NASA invokes the deliberative process privilege.

The deliberative process privilege is intended to protect the decision-making process of government agencies and to encourage frank discussion of legal and policy issues. The scope of the privilege covers documents reflecting advisory opinions, recommendations, and deliberations comprising part of a process by which government decisions and policies are formulated. To qualify for the deliberative process privilege, a document must be both “pre-decisional” and “deliberative.” Documents are pre-decisional when they precede an agency decision and are prepared in order to assist an agency in arriving at its decision. Documents are deliberative when they comprise part of the process by which government decisions are made. The types of records/information NASA withheld under this exemption consists of draft documents, portions of emails containing analyses, recommendations, opinions and/or personal views expressed by employees. NASA considered the foreseeable harm that would result from the release of this information and determined that its release would hinder the decision-making process, create a chilling effect on internal deliberations, lead to uninformed decision-making, and public confusion.

Exemption 6, 5 U.S.C. § 552(b)(6)

Exemption 6 allows withholding of “personnel and medical files and *similar files* the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.” 5 U.S.C. § 552(b)(6)(emphasis added). NASA invokes exemption 6 to protect work cell phone numbers, personal and third parties mentioned or referenced in these records and any information that could reasonably be expected to identify such individuals.

Referral

One document, totaling three pages, falls under the purview of the Secretary of Defense (OSD). We are referring this document to the Office of the Secretary of Defense/Joint Staff (OSD/JS) FOIA Office for direct contact to you. They will process the document under the FOIA and respond to you directly. Contact information for the OSD FOIA is available at:

OSD/JS FOIA Requester Service Center
Freedom of Information Division
1155 Defense Pentagon
Washington, DC 20301-1155

Phone: 571-372-0498

Email: whs.mc-alex.esd.mbx.osd-js-foia-requester-service-center@mail.mil

This referral was made in accordance with NASA regulations, which require NASA to determine whether another entity is better able to determine whether records are exempt from disclosure under the FOIA, and if so, then the record must be referred to the other entity. 14 C.F.R. § 1206.308. In general, the entity that created a record is presumed best able to determine whether it may be disclosed under the FOIA.

Appeal Rights

You have the right to appeal my action on your FOIA request. Your appeal must be received within 90 calendar days of the date of this letter. Your appeal must be in writing and addressed to:

Administrator
ATTN: FOIA Appeals
NASA Headquarters
Executive Secretariat
MS 9R17
Washington, DC 20546

Both the envelope and letter of appeal should be clearly marked "Appeal under the Freedom of Information Act." You must also include copies of your initial request, this correspondence, and any other correspondence with the FOIA office. In order to expedite the appellate process and ensure full consideration of your appeal, your appeal should also contain a brief statement of the reasons you believe this initial determination should be reversed.

Assistance and Dispute Resolution Services

For further assistance and to discuss any aspect of your request, you may contact NASA's Chief FOIA Public Liaison, Stephanie Fox, via telephone at 202-358-1553 or via e-mail at Stephanie.K.Fox@NASA.gov. You may also send correspondence to Ms. Fox at the following address:

National Aeronautics and Space Administration (NASA)
Freedom of Information Act Unit
NASA Headquarters
Attn: Stephanie Fox
Chief FOIA Public Liaison
300 E Street, S.W., 5P32
Washington D.C. 20546
(Fax) 202- 358-4332

Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services it offers. The contact information for OGIS is as follows:

Office of Government Information Services
National Archives and Records Administration
8601 Adelphi Road-OGIS
College Park, Maryland 20740-6001
Email: ogis@nara.gov
Telephone: (202) 741-5770
Toll free: 1-877-684-6448
Fax: (202) 741-5769

Important: Please note that contacting any agency official including the undersigned, NASA's Chief FOIA Public Liaison, and/or OGIS is not an alternative to filing an administrative appeal and does not stop the 90 day appeal clock.

If I can be of further assistance, please contact me at 202-358-0680 or Mireya.P.Nyirenda@nasa.gov.

Sincerely,



Digitally signed by
Mireya Nyirenda
Date: 2021.11.30
09:38:32 -05'00'

MIREYA P. NYIRENDA
FOIA Public Liaison Officer

Upcoming in wapo oped

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
To: Patrick Finley **b6** >
Sent: May 26, 2021 1:49:27 PM EDT
Received: May 26, 2021 1:49:27 PM EDT

We just found out that Ravi Kopparapu, a Goddard scientist, co-authored an op-ed for the Washington Post calling for more open-mindedness on research into unidentified aerial phenomenon (essentially UFOs). This will be published as early as this afternoon.

Over the past few years, UAP (Unidentified Aerial Phenomena, more commonly known as Unidentified Flying Objects or UFOs) have been reported in the news <<https://www.washingtonpost.com/nation/2021/05/17/ufo-sightings-navy-ryan-graves/>> repeatedly <<https://www.nytimes.com/2020/07/23/us/politics/pentagon-ufo-harry-reid-navy.html>>. The most obvious question everyone wants to know is, what are they? But these sightings are by definition unidentified, so asking "What are UFOs?" will only lead to speculative answers that bring us no closer to understanding them. Instead, we should be asking "how can we figure out what UFOs are?" Framing this question with active inquiry in mind would allow a science-based approach to investigate the identity of UAPs. And there-in lies the problem.

The language of scientists is data. But without access to full data, it is nearly impossible to verify or explain any observation. The lack of robust data, including the lack of access to some existing data, is the central problem for scientific study of UAPs. Science is unforgiving. Data is the authority. Our feelings and opinions are irrelevant.

But in recent decades, the scientific study of UAP has become a taboo. A precipitating point may have been the Condon report, commissioned by the US Air Force and conducted at the University of Colorado in the late 1960s, which stated that "...nothing has come from the study of UFOs....that has added to scientific knowledge." This led to the close of the ongoing Air Force-led UAP investigation named Project Blue Book. Prominent critics, such as Prof. Allen Hynek, an Ohio State astronomer, who served as a consultant on the Project Blue Book, argued that the work done in the Condon report was "inadequate" and "poorly organized." Since then, little to no interest has been given by the scientific community in the investigation of UAP. A big driver of this is a self-perpetuating cycle of this being viewed as a taboo topic. Once scientists ignored the subject, this created a vacuum of knowledge that was filled by conspiracy theories and sensational claims. In a few cases, some scientists that did engage in this topic were viewed by other scientists as putting conclusions before data, a troubling reversal of the scientific method. This in turn fueled the taboo culture, driving away trained scientists, creating a never-ending-cycle of prohibiting any scientific study of the subject.

UAP investigation by the scientific community is not new. Distinguished scientists like Carl Sagan, James Mc Donald, Allen Hynek thought that UAP should be investigated scientifically. Project Blue Book examined several hundred UAP cases from the 1950s and 60s. About 700 of the more than 12,000 cases remained "unidentified" at the close of the project, although Hynek later argued that the number of unresolved cases should have been higher. Astronomer Carl Sagan recognized the need for scientists to discuss this problem, which already had widespread popular interest, and co-organized a symposium of American Association for the Advancement of Science (AAAS) in 1969 titled "UFOs: A Scientific Debate <<https://www.amazon.com/UFOs-Scientific-Debate-Carl-Sagan/dp/0760701962>>." Sagan remained skeptical of the extraterrestrial hypothesis and would demand extraordinary evidence to justify such a claim; however, he also saw the scientific study of UAP as a valuable way to teach the broader public about how science is done. Most notably, the late Prof. James McDonald, a member of National Academy Sciences, conducted a rigorous analysis of a few UAP cases that Project Blue Book highlighted as unexplainable. His presentation at the AAAS symposium, titled "Science in Default <http://puhep1.princeton.edu/~mcdonald/JEMcDonald/mcdonald_aaas_69.pdf>," is one of the best scientific examinations of UAP cases. The discerning methods, evidence-based investigation, and an approach that considers all the available data (rather than cherry picking one instance of an event) used in this document provides a template of how trained scientists can investigate UAP.

Lack of reliable data is another crucial reason why the scientific community gave little attention to UAP. Most UAP sightings result in very limited data, usually video recordings from a single angle that can only be cross-validated with eyewitness testimony. Some UAP sightings were also observed on radar, which could assist in determining their identity. Without robust or credible data, UAP studies will always be viewed as fringe science and will never be able to come into the mainstream. No amount of grainy video snippets will help in de-mystifying the broader phenomena. Systematic collection of new data, or the availability of existing data, is paramount. While analyzing such data, strict agnosticism should be advocated to ensure an unbiased scientific approach. The recent declassification of UAP videos by the Navy brought the topic of UAPs out from the shadows of tabloid news and onto front page articles. While some of these events seem to have possible [explanations](https://www.metabunk.org/threads/go-fast-footage-from-tom-delonges-to-the-stars-academy-bird-balloon.9569/) [based on snippets of edited images and videos](https://www.thedrive.com/the-war-zone/40054/adversary-drones-are-spying-on-the-u-s-and-the-pentagon-acts-like-theyre-ufos), the history of UFO scientific studies in the U.S is not limited to these videos, and reminds us to not paint the whole phenomena with one broad brush. This is not [a U.S-specific occurrence](https://www.nationalarchives.gov.uk/help-with-your-research/research-guides/ufos/), nor is it limited to observations by U.S armed forces. Commercial pilots [have also reported seeing UAP](https://www.vice.com/en/article/z3xewj/air-canada-westjet-porter-pilots-ufo-sightings). There may not be a single explanation to all such observations.

A notable aspect surrounding the media coverage of the U.S Navy videos is the absence of scientific or expert opinion, in addition to government officials and witness testimonials. If we truly want to understand what UAPs really are, then we need to engage the mainstream scientific community in a concerted effort to study them. This should include the involvement of experts and scientists trained in scientific methodology in such investigations. Make data available to them. Speak their language. Remove any taboos surrounding free scientific inquiry of UFOs. Because, ultimately, understanding UAP is a science problem.

The views and opinions expressed in this article are those of the authors and are not necessarily those of NASA or their employers.

Marc Etkind

Associate Administrator, Communications

NASA Headquarters

FW: good memory

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
To: Fox, Karen C. (GSFC-1300) <karen.c.fox@nasa.gov>
Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>, Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>, Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>
Sent: May 26, 2021 2:34:52 PM EDT
Received: May 26, 2021 2:34:52 PM EDT

For the uap talking points—see 10.

From: "Brown, Alicia N. (HQ-VA000)" <alicia.n.brown@nasa.gov>
Date: Wednesday, May 26, 2021 at 2:15 PM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Subject: Fwd: good memory

This is part of nasas main objectives in law. Bill was one of the main sponsors of this bill in 2017.

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<<https://gcc02.safelinks.protection.outlook.com/?url=https://aka.ms/o0ukef&data=04|01|marc.r.etkind@nasa.gov|2f3f98945362474811b708d9207247d0|7005d45845be48ae8140d43da96dd17b|0|0|637576497458037437|Unknown|TWFPbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTiI6Ik1haWwiLCJXVCI6Mn00=|1000&sdata=rgN4s7AQRuUwc5fpNbDk0IGiQMUJE1e1bVvRxXkDWo=&reserved=0>>

From: Keshian, Jaclyn R. (HQ-VA010) <jaclyn.r.keshian@nasa.gov>
Sent: Wednesday, May 26, 2021 2:13 PM
To: Brown, Alicia N. (HQ-VA000)
Subject: good memory

From the 2017 bill

SEC. 507. CONGRESSIONAL DECLARATION OF POLICY AND PURPOSE. Section 20102(d) of title 51, United States Code, is amended by adding at the end the following: “(10) The search for life’s origin, evolution, distribution, and future in the universe.”.

§20102. Congressional declaration of policy and purpose

(a) Devotion of Space Activities to Peaceful Purposes for Benefit of All Humankind.-Congress declares that it is the policy of the United States that activities in space should be devoted to peaceful purposes for the benefit of all humankind.

(b) Aeronautical and Space Activities for Welfare and Security of United States.-Congress declares that the general welfare and security of the United States require that adequate provision be made for aeronautical and space activities. Congress further declares that such activities shall be the responsibility of, and shall be directed by, a civilian agency exercising control over aeronautical and space activities sponsored by the United States, except that activities peculiar to or primarily associated with the development of weapons systems, military operations, or the defense of the United States (including the research and development necessary to make effective provision for the defense of the United States) shall be the responsibility of, and shall be directed by, the Department of Defense; and that

determination as to which agency has responsibility for and direction of any such activity shall be made by the President.

(c) Commercial Use of Space.-Congress declares that the general welfare of the United States requires that the Administration seek and encourage, to the maximum extent possible, the fullest commercial use of space.

(d) Objectives of Aeronautical and Space Activities.-The aeronautical and space activities of the United States shall be conducted so as to contribute materially to one or more of the following objectives:

- (1) The expansion of human knowledge of the Earth and of phenomena in the atmosphere and space.
- (2) The improvement of the usefulness, performance, speed, safety, and efficiency of aeronautical and space vehicles.
- (3) The development and operation of vehicles capable of carrying instruments, equipment, supplies, and living organisms through space.
- (4) The establishment of long-range studies of the potential benefits to be gained from, the opportunities for, and the problems involved in the utilization of aeronautical and space activities for peaceful and scientific purposes.
- (5) The preservation of the role of the United States as a leader in aeronautical and space science and technology and in the application thereof to the conduct of peaceful activities within and outside the atmosphere.
- (6) The making available to agencies directly concerned with national defense of discoveries that have military value or significance, and the furnishing by such agencies, to the civilian agency established to direct and control nonmilitary aeronautical and space activities, of information as to discoveries which have value or significance to that agency.
- (7) Cooperation by the United States with other nations and groups of nations in work done pursuant to this chapter and in the peaceful application of the results thereof.
- (8) The most effective utilization of the scientific and engineering resources of the United States, with close cooperation among all interested agencies of the United States in order to avoid unnecessary duplication of effort, facilities, and equipment.
- (9) The preservation of the United States preeminent position in aeronautics and space through research and technology development related to associated manufacturing processes.
- (10) The search for life's origin, evolution, distribution, and future in the universe.

Jackie Keshian

Policy Advisor

Office of Legislative and Intergovernmental Affairs

(b) (6)

Re: [EXTERNAL] 20210517 BC UAP Report to Congress v3 (002)

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
To: Finley, Patrick T. EOP/WHO (b) (6)
Sent: May 26, 2021 2:42:04 PM EDT
Received: May 26, 2021 2:42:04 PM EDT

Thanks. Btw, I notified Pili, Kate and Matt in the WH and they shared with Emily and Patrick at the NSC.

From: Patrick Finley (b) (6)
Date: Wednesday, May 26, 2021 at 1:49 PM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Subject: [EXTERNAL] 20210517 BC UAP Report to Congress v3 (002)

fyi

Attachment

1. 20210517 BC UAP Report to Congress v3 (002).docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 46 KB (47,318 bytes)

R

Attachment #1

20210517 BC UAP Report to Congress v3 (002).docx

Original view

3 pages (displayed on pages 4 to 6)

REFERRED TO OSD

REFERRED TO OSD

REFERRED TO OSD

RE: [EXTERNAL] RE: UAPs/UFOs

From: Horne, Emily J. EOP/NSC (b) (6)
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, Berner, Kate EOP/WHO (b) (6), Tobar, Pili D. EOP/WHO (b) (6), Hill, Matt D. EOP/WHO (b) (6) >
Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Evans, Patrick L. EOP/NSC (b) (6)
Sent: May 26, 2021 6:16:06 PM EDT
Received: May 26, 2021 6:16:15 PM EDT

Copy, thank you

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: Wednesday, May 26, 2021 4:20 PM
To: Horne, Emily J. EOP/NSC (b) (6); Berner, Kate EOP/WHO (b) (6); Tobar, Pili D. EOP/WHO (b) (6); Hill, Matt D. EOP/WHO (b) (6)
Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Evans, Patrick L. EOP/NSC (b) (6)
Subject: Re: [EXTERNAL] RE: UAPs/UFOs

Hi Emily

Still working on the best course of action but in the mean time prepping talking points. Will get back to you soon with something more concrete.

From: Emily Horne (b) (6)
Date: Wednesday, May 26, 2021 at 3:14 PM
To: Katherine Berne (b) (6); "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, Pili Tobar (b) (6); Matt Hill (b) (6)
Cc: "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>, Patrick Evans (b) (6)
Subject: [EXTERNAL] RE: UAPs/UFOs

Thanks Marc! What/how/when are you all thinking for the Administrator's response?

From: Berner, Kate EOP/WHO (b) (6)
Sent: Wednesday, May 26, 2021 2:34 PM
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Tobar, Pili D. EOP/WHO (b) (6); Hill, Matt D. EOP/WHO (b) (6)
Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Horne, Emily J. EOP/NSC (b) (6); Evans, Patrick L. EOP/NSC (b) (6)
Subject: RE: UAPs/UFOs

Adding a few folks from NSC!

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: Wednesday, May 26, 2021 2:02 PM
To: Tobar, Pili D. EOP/WHO (b) (6); Berner, Kate EOP/WHO (b) (6); Hill, Matt D. EOP/WHO (b) (6)
Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>

Subject: UAPs/UFOs

Hi Pili

Just got word that a NASA scientist, Ravi Kopparapu has co-authored an op-ed for the Washington Post calling for more open-mindedness on research into unidentified aerial phenomenon (essentially UFOs). It is likely to be published this afternoon and I'm sure we will be getting questions from the press. It is likely the Administrator will want to respond—and our focus will be on NASA's long running search for life on other planets as well as habitable exoplanets.

Over the past few years, UAP (Unidentified Aerial Phenomena, more commonly known as Unidentified Flying Objects or UFOs) have been reported in the news <https://www.washingtonpost.com/nation/2021/05/17/ufo-sightings-navy-ryan-graves/> repeatedly <https://www.nytimes.com/2020/07/23/us/politics/pentagon-ufo-harry-reid-navy.html>. The most obvious question everyone wants to know is, what are they? But these sightings are by definition unidentified, so asking "What are UFOs?" will only lead to speculative answers that bring us no closer to understanding them. Instead, we should be asking "how can we figure out what UFOs are?" Framing this question with active inquiry in mind would allow a science-based approach to investigate the identity of UAPs. And there-in lies the problem.

The language of scientists is data. But without access to full data, it is nearly impossible to verify or explain any observation. The lack of robust data, including the lack of access to some existing data, is the central problem for scientific study of UAPs. Science is unforgiving. Data is the authority. Our feelings and opinions are irrelevant.

But in recent decades, the scientific study of UAP has become a taboo. A precipitating point may have been the Condon report, commissioned by the US Air Force and conducted at the University of Colorado in the late 1960s, which stated that "...nothing has come from the study of UFOs....that has added to scientific knowledge." This led to the close of the ongoing Air Force-led UAP investigation named Project Blue Book. Prominent critics, such as Prof. Allen Hynek, an Ohio State astronomer, who served as a consultant on the Project Blue Book, argued that the work done in the Condon report was "inadequate" and "poorly organized." Since then, little to no interest has been given by the scientific community in the investigation of UAP. A big driver of this is a self-perpetuating cycle of this being viewed as a taboo topic. Once scientists ignored the subject, this created a vacuum of knowledge that was filled by conspiracy theories and sensational claims. In a few cases, some scientists that did engage in this topic were viewed by other scientists as putting conclusions before data, a troubling reversal of the scientific method. This in turn fueled the taboo culture, driving away trained scientists, creating a never-ending-cycle of prohibiting any scientific study of the subject.

UAP investigation by the scientific community is not new. Distinguished scientists like Carl Sagan, James Mc Donald, Allen Hynek thought that UAP should be investigated scientifically. Project Blue Book examined several hundred UAP cases from the 1950s and 60s. About 700 of the more than 12,000 cases remained "unidentified" at the close of the project, although Hynek later argued that the number of unresolved cases should have been higher. Astronomer Carl Sagan recognized the need for scientists to discuss this problem, which already had widespread popular interest, and co-organized a symposium of American Association for the Advancement of Science (AAAS) in 1969 titled "UFOs: A Scientific Debate" <https://www.amazon.com/UFOs-Scientific-Debate-Carl-Sagan/dp/0760701962>. Sagan remained skeptical of the extraterrestrial hypothesis and would demand extraordinary evidence to justify such a claim; however, he also saw the scientific study of UAP as a valuable way to teach the broader public about how science is done. Most notably, the late Prof. James McDonald, a member of National Academy Sciences, conducted a rigorous analysis of a few UAP cases that Project Blue Book highlighted as unexplainable. His presentation at the AAAS symposium, titled "Science in Default" http://puhep1.princeton.edu/~mcdonald/JEMcDonald/mcdonald_aaas_69.pdf, is one of the best scientific examinations of UAP cases. The discerning methods, evidence-based investigation, and an approach that considers all the available data (rather than cherry picking one instance of an event) used in this document provides a template

of how trained scientists can investigate UAP.

Lack of reliable data is another crucial reason why the scientific community gave little attention to UAP. Most UAP sightings result in very limited data, usually video recordings from a single angle that can only be cross-validated with eyewitness testimony. Some UAP sightings were also observed on radar, which could assist in determining their identity. Without robust or credible data, UAP studies will always be viewed as fringe science and will never be able to come into the mainstream. No amount of grainy video snippets will help in de-mystifying the broader phenomena. Systematic collection of new data, or the availability of existing data, is paramount. While analyzing such data, strict agnosticism should be advocated to ensure an unbiased scientific approach. The recent declassification of UAP videos by the Navy brought the topic of UAPs out from the shadows of tabloid news and onto front page articles. While some of these events seem to have possible <https://www.metabunk.org/threads/go-fast-footage-from-tom-delonges-to-the-stars-academy-bird-balloon.9569/> explanations <https://www.thedrive.com/the-war-zone/40054/adversary-drones-are-spying-on-the-u-s-and-the-pentagon-acts-like-theyre-ufos> based on snippets of edited images and videos, the history of UFO scientific studies in the U.S is not limited to these videos, and reminds us to not paint the whole phenomena with one broad brush. This is not <https://www.nationalarchives.gov.uk/help-with-your-research/research-guides/ufos/> a U.S-specific occurrence, nor is it limited to observations by U.S armed forces. Commercial pilots <https://www.vice.com/en/article/z3xewj/air-canada-westjet-porter-pilots-ufo-sightings> have also reported seeing UAP. There may not be a single explanation to all such observations.

A notable aspect surrounding the media coverage of the U.S Navy videos is the absence of scientific or expert opinion, in addition to government officials and witness testimonials. If we truly want to understand what UAPs really are, then we need to engage the mainstream scientific community in a concerted effort to study them. This should include the involvement of experts and scientists trained in scientific methodology in such investigations. Make data available to them. Speak their language. Remove any taboos surrounding free scientific inquiry of UFOs. Because, ultimately, understanding UAP is a science problem.

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Marc Etkind

Associate Administrator, Communications

NASA Headquarters

Re: Talking points for the Administrator: Unidentified Aerial Phenomena

From: Johnson, Alana R. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]
<alana.r.johnson@nasa.gov>
To: Fox, Karen C. (GSFC-1300) <karen.c.fox@nasa.gov>, Etkind, Marc R. (HQ-NA000)
<marc.r.etkind@nasa.gov>, Stephenson, Johnny F. (MSFC-NA000)
<johnny.f.stephenson@nasa.gov>, Thompson, Tabatha T. (HQ-NA020)
<tabatha.t.thompson@nasa.gov>, Beutel, Allard (HQ-NA020)
<allard.beutel@nasa.gov>, McGuinness, Jackie (HQ-NA000)
<jackie.mcguinness@nasa.gov>
Cc: Handal, Joshua A. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]
<joshua.a.handal@nasa.gov>
Sent: May 27, 2021 9:15:40 AM EDT
Received: May 27, 2021 9:15:41 AM EDT

Bringing your attention to this very useful page on NASA's Astrobiology page.

This provides past, present, and future NASA missions that key in on the search for life.

<https://astrobiology.nasa.gov/missions/>

Are you a journalist covering the Ingenuity Mars Helicopter or the Perseverance Mars rover, please fill out our media request form at <https://bit.ly/mars-landing-media>
<<https://gcc02.safelinks.protection.outlook.com/?url=https://bit.ly/mars-landing-media&data=04|01|marc.r.etkind@nasa.gov|fd6761825d2841a1220408d9211186dc|7005d45845be48ae8140d43da96dd17b|0|0|637577181417449884|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6Ik1haWwiLCJXVCi6Mn0=|1000&sdata=dKA0YKdii9T45x0AHiw0jchHg6tLmrOP4i4aJ+qNOnE=&reserved=0>>.

Alana R. Johnson

Senior Communications Specialist, PAAC V Contract

Planetary Science Division

alana.r.johnson@nasa.gov

o: (202) 358-1501 | (b) (6)

NASA Headquarters, 300 E. St SW, Washington, DC. 20546

asrcfederal.com

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.asrcfederal.com/&data=04|01|marc.r.etkind@nasa.gov|fd6761825d2841a1220408d9211186dc|7005d45845be48ae8140d43da96dd17b|0|0|637577181417449884|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6Ik1haWwiLCJXVCi6Mn0=|1000&sdata=fLoVSMQUyooi8woigjfqpXXgZ7H6E/dXSukl2FPUEk=&reserved=0>>|Purpose Driven. Enduring Commitment.

From: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>

Date: Thursday, May 27, 2021 at 8:30 AM

To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Stephenson, Johnny F. (MSFC-NA000)" <johnny.f.stephenson@nasa.gov>, "Thompson, Tabatha T. (HQ-NA020)" <tabatha.t.thompson@nasa.gov>, "Beutel, Allard (HQ-NA020)" <allard.beutel@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>

Cc: "Johnson, Alana R. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <alana.r.johnson@nasa.gov>,
"Handal, Joshua A. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <joshua.a.handal@nasa.gov>

Subject: Re: Talking points for the Administrator: Unidentified Aerial Phenomena

Sounds good – we're planning on a more traditional and longer talking points/RTQs document for the comms office/everyone's use and we'll get that extra detail in there.

OK to take a couple days to pull it together? Or do you need that extra info ASAP?

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

From: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Date: Thursday, May 27, 2021 at 8:27 AM
To: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>, "Stephenson, Johnny F. (MSFC-NA000)" <johnny.f.stephenson@nasa.gov>, "Thompson, Tabatha T. (HQ-NA020)" <tabatha.t.thompson@nasa.gov>, "Beutel, Allard (HQ-NA020)" <allard.beutel@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>
Cc: "Johnson, Alana R. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <alana.r.johnson@nasa.gov>, "Handal, Joshua A. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <joshua.a.handal@nasa.gov>
Subject: Re: Talking points for the Administrator: Unidentified Aerial Phenomena

Thanks all for pulling this together and interestingly didn't see much buzz around the op ed. Anyone else see anything? I'd like to have some more particulars in the material—can we have some detail on the various missions, discoveries past, present and future. So... what have the Mars missions found that point to life... and what will MSR add... and Europa and Titan? And also what have discovered in exoplanets and what will Webb search for? Thx

From: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Date: Wednesday, May 26, 2021 at 5:19 PM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Stephenson, Johnny F. (MSFC-NA000)" <johnny.f.stephenson@nasa.gov>, "Thompson, Tabatha T. (HQ-NA020)" <tabatha.t.thompson@nasa.gov>, "Beutel, Allard (HQ-NA020)" <allard.beutel@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>
Cc: "Johnson, Alana R. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <alana.r.johnson@nasa.gov>, "Handal, Joshua A. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <joshua.a.handal@nasa.gov>
Subject: Talking points for the Administrator: Unidentified Aerial Phenomena

Cheers, all –

After talking to Marc this afternoon – and with an added request from Jackie to make sure UFO's were addressed – please find attached, and cut and pasted below, bullet points on Unidentified Aerial Phenomena. Which may be of use to Sen. Nelson.

These have been reviewed by members of SMD. We'll also put together a more formal RTQ document for the comms team within the next day or two with extra detail.

Thanks,

Karen

Talking Points: Unidentified Aerial Phenomena

-One of NASA's key goals is the search for life in the universe. Although we have yet to find signs of extraterrestrial life, NASA is exploring the solar system and beyond to help us answer fundamental questions, including whether we are alone in the universe.

-From studying water on Mars, probing promising "oceans worlds," such as Titan and Europa, to looking for biosignatures in the atmospheres of planets outside our solar system, NASA's science missions are working together with a goal to find unmistakable signs of life beyond Earth.

-To date, NASA has yet to find any credible evidence of extraterrestrial life, but we are not closed to the possibility that such life exists (b)(5) . We stand ready to support the rest of the government in the search for life in the universe, be it close to home, on the planets or moons of our Solar System or deeper into space.

-The nature of science is to better understand the unknown. When we learn of unidentified aerial phenomena, (UAP, or more commonly known as unidentified flying objects or UFOs), it opens up the door to new science questions to explore.

- Most UAP sightings result in very limited data, usually video recordings from a single angle that can only be cross-validated with eyewitness testimony. The language of scientists is data. But without access to an extensive set of data, it is nearly impossible to verify or explain any observation. The lack of robust data, including the lack of access to some existing data, is the central problem for scientific study of UAPs.

-In a sense, the discovery of technology from beyond Earth or the signatures of technology on other worlds would constitute the ultimate biosignature.

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

NASA Headquarters

Karen.fox@nasa.gov

Attachment

1. UAP talking points.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 16 KB (16,592 bytes)

Attachment #1

UAP talking points.docx

Original view

1 page

Talking Points: Unidentified Aerial Phenomena

- One of NASA's key goals is the search for life in the universe. Although we have yet to find signs of extraterrestrial life, NASA is exploring the solar system and beyond to help us answer fundamental questions, including whether we are alone in the universe.
- From studying water on Mars, probing promising "oceans worlds," such as Titan and Europa, to looking for biosignatures in the atmospheres of planets outside our solar system, NASA's science missions are working together with a goal to find unmistakable signs of life beyond Earth.
- To date, NASA has yet to find any credible evidence of extraterrestrial life, but we are not closed to the possibility that such life exists (b)(5) [REDACTED]. We stand ready to support the rest of the government in the search for life in the universe, be it close to home, on the planets or moons of our Solar System or deeper into space.
- The nature of science is to better understand the unknown. When we learn of unidentified aerial phenomena, (UAP, or more commonly known as unidentified flying objects or UFOs), it opens up the door to new science questions to explore.
- Most UAP sightings result in very limited data, usually video recordings from a single angle that can only be cross-validated with eyewitness testimony. The language of scientists is data. But without access to an extensive set of data, it is nearly impossible to verify or explain any observation. The lack of robust data, including the lack of access to some existing data, is the central problem for scientific study of UAPs.
- In a sense, the discovery of technology from beyond Earth or the signatures of technology on other worlds would constitute the ultimate biosignature.

[EXTERNAL] Re: UFO UAP Alien earthenware pot, symbols, cloak drawings, ancient pot type, unique, and the Pentagon's UFO Report

From: (b) (6)
To: sean.potter@nasa.gov, sandra.p.jones@nasa.gov, marc.r.etkind@nasa.gov, ian.j.oneill@jpl.nasa.gov, clare.a.skelly@nasa.gov, Potter, Sean (HQ-NA020) <sean.potter@nasa.gov>, Jones, Sandra P. (JSC-AD911) <sandra.p.jones@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, O'Neill, Ian J (JPL-1821)[JPL Employee] <ian.j.oneill@jpl.nasa.gov>, Skelly, Clare A. (HQ-NA020) <clare.a.skelly@nasa.gov>
Sent: June 7, 2021 9:05:21 AM EDT
Received: June 7, 2021 9:11:40 AM EDT
Attachments: mmexport1520051098162.jpg, mmexport1520051087714.jpg, mmexport1520051079574.jpg

Dear NASA / Sen. Bill Nelson. Would you like my assistance, and old earthenware pot pictured below? Please advise. Thank you.

Best regards,

(b) (6)

On Thursday, 3 June 2021, 11:50:00 am AEST, (b) (6) wrote:

Dear NASA. Please see the following and attachments. Do you have any comments or suggestions?

Importantly who should I contact please?

Any help greatly appreciated.

Thank you.

Best regards

(b) (6)

----- Forwarded message -----

From: (b) (6)

To: info@si.edu <info@si.edu>

Sent: Thursday, 3 June 2021, 10:55:33 am AEST

Subject: UFO UAP Alien earthenware pot, symbols, drawing, ancient pot type, unique

Dear Smithsonian. I own this fascinating UFO UAP Alien cooking pot and posted the following request for info three years ago on Collectors Weekly. I have now been referred to you. Can you please help?

Your aerospace people may be able to help, along with anthropology, linguistical and carbon experts, etc.

Attached is more information excluding Infrared Thermal Rotating video.

Is it alien communication, or just amazingly multi-dimensional?

Should a copy of this email be sent to the forthcoming release of USA intel on UAP's, UFO's, Aliens, etc, or some other USA experts--if so who? Thanks.

UFO art & symbols on 7000 BC Catal Huyuk like cooking pot: Who made it? What does it communicate? | Collectors Weekly <<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/stories/244335-ufo-art-and-symbols-on-7000-bc-catal-huyuk&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021646099|Unknown|TWfPbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=MW8VdlXcer6YEIOhOGqy29Of8uYmCtPQv2kv90sITN4=&reserved=0>>

UFO art & symbols on 7000 BC Catal Huyuk like cooking pot: Who made it? ...

Shop for—and learn—about vintage and antiques. Browse the best of eBay, connect with other collectors, and explo...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/stories/244335-ufo-art-and-symbols-on-7000-bc-catal-huyuk&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021646099|Unknown|TWfPbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=MW8VdlXcer6YEIOhOGqy29Of8uYmCtPQv2kv90sITN4=&reserved=0>>

Posted 3 years ago

UFOearthen...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021656056|Unknown|TWfPbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=eD8rpICJTJfRUi51yfKXcGJQukNFOUWA4eRnSQ7TnQQ=&reserved=0>>

(1 item)

UFOearthenware | Collectors Weekly

Shop for—and learn—about vintage and antiques. Browse the best of eBay, connect with other collectors, and explo...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021656056|Unknown|TWfPbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=eD8rpICJTJfRUi51yfKXcGJQukNFOUWA4eRnSQ7TnQQ=&reserved=0>>

Fascinated by UFO art on a 7000-year-old Catal Huyuk like cooking pot: Symbolic language, hidden meanings, seemingly inspired ancient earthenware and clothes from a vanished civilization or depicting futuristic spaceships and alien visitors. This 'two-handled' pot is worthy of carbon dating, linguistic, and special assessments.

What is earthenware worth if it is something way more modern than UFO alien art or text on a 7000 BC like Catal Huyuk cooking pot?

Who made it, what does it communicate, when and where was it made? For what special purposes -- to reach out from beyond the grave, awaken ideas of future worlds', depict a lost civilization's most important artifacts, architecture,

events, symbols, ideas, or just fine dining?

Unsolved Mystery

1.
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021666003|Unknown|TWFpbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=rQ4dFGlbf1pyeTMIqVvGLQD/VLyBWLdpNKg/ytWcnpw=&reserved=0>>UFOearthenware
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021666003|Unknown|TWFpbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=rQ4dFGlbf1pyeTMIqVvGLQD/VLyBWLdpNKg/ytWcnpw=&reserved=0>>, 3 years ago
Thank you from people in China. Yes if I was an alien who visited earth say 7,000 years ago or anytime, I too would take a simple thing in front of me like a clay pot to record my visit in multiple "languages" or symbols and dimensions and technologies... including 1D, 2D, 3D, 4D, 5D,..., nD, and beyond any comprehension here now.

Further, if I was here on earth a short time from outer-space my record would be unique in time-space-systems dimensions, assuming it was valued for cooking, potential other uses, and survived for decades or much longer.

The earliest record inter-stellar or alien records are probably 1440 BC or 2018 AD, or not depending on what science and comments we believe.

2.
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021675961|Unknown|TWFpbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=0qAgDMTKmDVZ7RUfuYYOS6ljHVjf2eb+7F/Bo3Ky8xg=&reserved=0>>UFOearthenware
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021675961|Unknown|TWFpbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=0qAgDMTKmDVZ7RUfuYYOS6ljHVjf2eb+7F/Bo3Ky8xg=&reserved=0>>, 3 years ago
The GIMBAL and other footage from the USA government shows the same stuff as on this pot. Aircraft or space-time-systems that defy the laws of aerodynamics, physics, and show craft with no motors, wings, tails, as seen on this pot and its symbols. Must be a unique coincidence, separated by time, place, and craft. See <https://coi.tothestarsacademy.com/>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://coi.tothestarsacademy.com/&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021685933|Unknown|TWFpbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=QiAmRSgff7XK4iuv76qnAtxalq/AQ1+RLFYLucrFCAM=&reserved=0>> for official usa videos, and see the cooking pot drawn by a pilot?

3.
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021685933|Unknown|TWFpbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=BrZiyoa0WJlgwjv0gGJ74KL/LEBa3CsTi5v0LXM6Tss=&reserved=0>>UFOearthenware
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/user/UFOearthenware&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021695880|Unknown|TWFpbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0=|1000&sdata=7aFW2ul+XclfJwr2mjbH2Bxf6/6CMQR7g05g2H6rCQc=&reserved=0>>, 3 years ago

GIMBAL VIDEO — To The Stars Academy

<<https://gcc02.safelinks.protection.outlook.com/?url=https://coi.tothestarsacademy.com/gimbal&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021695880|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTiI6Ik1haWwiLCJXVCI6Mn0=|1000&sdata=w9FGe3EC55PxLpTD7CwIbSXuz0UIPsgRXn+17UGIRVo=&reserved=0>>

In the midst of this exchange, the sensor is switched from “white-hot” to “black-hot.” The imaging of the object is now much clearer. It has a distinct shape: a distorted oval with small protrusions from the top and bottom. The object’s opaque aura is now also very distinct: a “cool” glow that extends about a body thickness around the entire object. There appears to be no observable flight surfaces or exhaust plume, nor any typical components usually associated with conventional aircraft.

“Look at that thing, dude.” The observer is clearly surprised at what is being seen.

At 0:24, the object makes a small, but very sharp, altitude change, possibly indicating it may be operating in a vacuum environment. Its direction and speed remain unchanged despite the continuous 120-knot headwind it is encountering.

“That’s not [unintelligible] is it?”

At 0:27, the object begins a series of distinct rotations and changes orientation by almost 100 degrees. Its orientation is now perpendicular to the horizontal plane despite the headwinds. This maneuver is executed in a manner that is inconsistent with current principles of aerodynamics, and possibly indicative of a vacuum environment. As the video concludes, the object’s orientation and performance seem to defy current principals of physics to include atmospheric resistance and normal aerodynamic forces. During the orientation change, it also slows to a near stop, but does not change altitude.

One observer states, “Look at that thing!”

Another observer says, “It’s rotating.”

GIMBAL VIDEO — To The Stars Academy

GIMBAL is the first of three US military videos of unidentified aerial phenomenon (UAP) that has been through th...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://coi.tothestarsacademy.com/gimbal&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021705837|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTiI6Ik1haWwiLCJXVCI6Mn0=|1000&sdata=+dliASiXFcryJUWlqPXM9EJN+5a4LjYcof913gRPNn8=&reserved=0>>

To The Stars Academy To The Stars Academy Community of Interest provides reporting and analysis of anomalies including Unidentified A...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://coi.tothestarsacademy.com/&data=04|01|marc.r.etkind@nasa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021705837|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTiI6Ik1haWwiLCJXVCI6Mn0=|1000&sdata=K41MXagM3x0pbOn/2YIsKxBtPfdHzE6n9CzvaLib8=&reserved=0>>

To The Stars Academy

To The Stars Academy Community of Interest provides reporting and analysis of anomalies including Unidentified A...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://coi.tothestarsacademy.com/&data=04|01|marc.r.etkind@n>

asa.gov|1a0c177ac8f14f5841e808d929b5c680|7005d45845be48ae8140d43da96dd17b|0|0|637586683021715799|Un
known|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTiI6Ikk1haWwiLCJXVCi6Mn0=|1000&sdata=s/
P2ZVEO8NX89and+s8vMqHK2PylblJetoth0xdsw+E=&reserved=0>

Attached are pictures so you can enlarge details.

Thank you.

Best regards

(b) (6)

Attachment

1. mmexport1520051098162.jpg

Type: image/jpeg
Size: 128 KB (131,656 bytes)

2. mmexport1520051087714.jpg

Type: image/jpeg
Size: 107 KB (109,804 bytes)

3. mmexport1520051079574.jpg

Type: image/jpeg
Size: 93 KB (96,243 bytes)

Attachment #1

mmexport1520051098162.jpg

Image



Attachment #2

mmexport1520051087714.jpg

Image



Attachment #3

mmexport1520051079574.jpg

Image



FW: [EXTERNAL] Discovery & Science Channel Special Event request //

Administrator Bill Nelson

From: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 7, 2021 12:49:44 PM EDT
Received: June 7, 2021 12:49:45 PM EDT

Hi Marc – I know you can't weigh in here, but generally on UFOs is this something we want to lean in on? My recommendation would be that we offer them a short interview with BN, but would be helpful to know what Bhavya and others are thinking on this.

Thanks!

From: Julie Zann (b) (6)
Date: Monday, June 7, 2021 at 12:41 PM
To: "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>
Subject: [EXTERNAL] Discovery & Science Channel Special Event request // Administrator Bill Nelson

Dear Jackie,

Please see below for Administrator Bill Nelson, regarding the DISCOVERY CHANNEL and the SCIENCE CHANNEL's forthcoming joint television event, THE UAP REPORT (working title) on Wednesday, June 30, 2021 @ 8:00 PM – 11:00 PM ET.

As you know, in a matter of weeks, the Pentagon will deliver to Congress a first-ever report on recent, bizarre sightings by U.S. military personnel of Unidentified Aerial Phenomena, or UAPs (commonly known as UFOs). DISCOVERY and the SCIENCE CHANNEL will launch an unprecedented live television event: a summit with the world's leading minds in one forum to discuss, explain, debate and demonstrate this as-of-yet unexplained phenomena.

We would love to have Mr. Nelson join us for an interview.

I look forward to hearing your thoughts and all best,

Julie

Julie Zann

Talent Executive

On behalf of Discovery Channel's THE UAP REPORT

Cell: (b) (6)

Email: (b) (6)

&

PRESENTS A LIVE TELEVISION EVENT

THE UAP REPORT

WEDNESDAY, JUNE 30, 2021 @ 8:00 PM – 11:00 PM ET

Dear Jackie,

This is Julie Zann writing on behalf of the DISCOVERY CHANNEL and the SCIENCE CHANNEL's forthcoming joint television event, THE UAP REPORT (working title).

As you may know, in a matter of weeks, the Pentagon will deliver to Congress a historic, first-ever report on recent, bizarre sightings by U.S. military personnel of Unidentified Aerial Phenomena, or UAPs (commonly known as UFOs). DISCOVERY and the SCIENCE CHANNEL will launch an unprecedented live television event: a summit with the world's leading minds in one forum to discuss, explain, debate and demonstrate this as-of-yet unexplained phenomena.

The question simply becomes: Are we being visited by intelligent life from other planets... or have we discovered something else? Whether we're dealing with extraordinary weather conditions playing tricks on our minds or brand-new technology operated by foreign powers, Americans need to know the truth.

To be clear, this is an elevated science-led forum, with never-before-seen footage and first-person, eye-witness accounts. Military commanders, national politicians, leading scientists, professors, authors, theologians and technical experts will all weigh in on this conversation – with the goal of determining just what exactly military pilots could be witnessing. The mission of this live summit is to relate crucial information to the public in responsible, educated, informed ways -- even if answers still remain unknown.

THE UAP REPORT airs on DISCOVERY and the SCIENCE CHANNEL as a 3-hour live event on WEDNESDAY, JUNE 30, 2021 @ 8:00 PM – 11:00 PM ET.

We would be honored to interview Administrator Bill Nelson for this special event!

We would be so grateful to set the table for the program, and the "hows and the whys" of its importance as a national security issue, as well as what the report to Congress could signify, and intelligently discuss policies on UAPs as we chart a path forward. Given the subject matter's controversial nature, we truly believe having people like Administrator Nelson will handle the material with the gravity and grounding it deserves.

THE DETAILS FOR TAPING

TAPE DATE:

FIRST CHOICE: IDEALLY LIVE ON SET IN LAS VEGAS ON WEDNESDAY, JUNE 30, 2021 @ 8:00 PM – 11:00 PM ET

SECOND CHOICE: LIVE VIA REMOTE STUDIO OR ZOOM

TRAVEL: IF TALENT IS WILLING TO TRAVEL, WE OFFER BUSINESS CLASS FLIGHTS, 2 NIGHTS HOTEL, PER DIEM.

HAIR & MAKE-UP IS PROVIDED ON REQUEST.

AIR DATE: WEDNESDAY, JUNE 30, 2021 @ 8:00 PM – 11:00 PM ET

We provide a full editorial brief, to ensure the nature of Mr. Nelson's participation in THE UAP REPORT.

Pilgrim Media Group (a Lionsgate Company) will executive produce THE UAP REPORT.

Please reach out to me if there is any interest.

Thank you in advance for your consideration, and please feel free to reach out to me 24/7 with questions or concerns.

All the best,

Julie

Julie Zann

Talent Executive

On behalf of Discovery Channel's THE UAP REPORT

Cell: (b) (6)

Email: (b) (6)

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.discovery.com/&data=04|01|marc.r.etkind@nasa.gov|a5a6020183194298a84908d929d440de|7005d45845be48ae8140d43da96dd17b|0|0|637586813857199617|Unknown|TWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhYWwiLCJXVCi6Mn0=|1000&sdata=h8irwql2lYXpb0rTtqTuvH2xJoDGa8YtTka1q3nRUA=&reserved=0>>

Discovery Channel is dedicated to creating the highest quality non-fiction content that informs and entertains its consumers about the world in all its wonder, diversity, and amazement. The network, which is distributed to 88.3 million U.S. homes, can be seen in 224 countries and territories, offering a signature mix of compelling, high-end production values and vivid cinematography across genres including, science and technology, exploration, adventure, history and in-depth, behind-the-scenes glimpses at the people, places and organizations that shape and share our world. For more information, please visit www.discovery.com

<https://gcc02.safelinks.protection.outlook.com/?url=https://r20.rs6.net/tn.jsp?f=001mFFJGbjXu9_HH6mDvN9_Rqcvv3yXLDfY-AXOf3e4gTxHpeuutNmVpolfyWc0j_bfo5utSneX2mw0TVPJR4iTEIIKwdT9RioBFys8TgZJXThQpLOjniHULHoWwIX3RXMb12EuVpijWqIUpN6w1kSV-A==&c=vcZNU499DO1ZBKg_OZ7adpIKjr_8BTZVv7BKOwoh9FURtHI4DVpiVA==&ch=qMJlZJoBqPOaT45AgmwZkTRF6FQEmZs10nWafyqVvBb232Hv56-gw==&data=04|01|marc.r.etkind@nasa.gov|a5a6020183194298a84908d929d440de|7005d45845be48ae8140d43da96dd17b|0|0|637586813857199617|Unknown|TWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhYWwiLCJXVCi6Mn0=|1000&sdata=mzkbqVpgTErhocDg3mCCmvkg7JAyphfaXpNAkJqrV0c=&reserved=0>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.pilgrimmediagroup.com/about/&data=04|01|marc.r.etkind@nasa.gov|a5a6020183194298a84908d929d440de|7005d45845be48ae8140d43da96dd17b|0|0|637586813857209572|Unknown|TWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhYWwiLCJXVCi6Mn0=|1000&sdata=HAvBwpmCQzoEXAGAjlQ58KSbJIIFJAGHNI3xRTb8DEU=&reserved=0>>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.pilgrimmediagroup.com/about/&data=04|01|marc.r.etkind@nasa.gov|a5a6020183194298a84908d929d440de|7005d45845be48ae8140d43da96dd17b|0|0|637586813857209572|Unknown|TWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhYWwiLCJXVCi6Mn0=|1000&sdata=HAvBwpmCQzoEXAGAjlQ58KSbJIIFJAGHNI3xRTb8DEU=&reserved=0>>

Pilgrim Media Group, a Lionsgate Company, is among the industry's largest and most prolific studios, having produced award-winning content for more than 25 years. A few old favorites are American Chopper, which ran for a decade; Dirty Jobs with Mike Rowe, which ran for eight seasons and even snagged a few Emmy nominations for Best Reality

Program; and Ghost Hunters, which reigned as television's #1 paranormal franchise for 11 seasons and gave rise to two successful spinoffs. Among shows currently airing are The Ultimate Fighter which helped turn mixed martial arts (MMA) into a multi-billion dollar industry and Wicked Tuna about the cut throat high stakes business of tuna fishing.

While lauded for creating unscripted content for top distribution platforms including Netflix, National Geographic, ABC, CBS, Discovery, History, Lifetime, OWN, TLC and over a dozen other networks, Pilgrim also has established deep roots in documentary features.

The company's first feature documentary, Soufra, executive produced by Susan Sarandon, had its European premiere at Berlinale in February 2018 and was screened at the Cannes Film Festival in May 2018 where it has was nominated for a Positive Cinema Documentary award. It also garnered the Cinema for Humanity Audience Prize and Best Arabic Feature Documentary at the El Gouna Film Festival in Egypt. Tre Maison Dasan, Pilgrim's second feature documentary collaboration had its world premiere in competition at the San Francisco International Film Festival in April 2018 and its US premiere at AFI Docs in June 2018. Pilgrim's work also includes a documentary feature with Eli Roth in production at Lionsgate and Days that Shaped America, a limited series executive produced with Steven Spielberg's Amblin Entertainment for History Channel.

Re: Upcoming UAP/UFO interagency document?

From: Fox, Karen C. (GSFC-1300) <karen.c.fox@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 8, 2021 8:17:17 AM EDT
Received: June 8, 2021 8:17:19 AM EDT

I'm set up for a meeting with them today! I think they get the reasons for doing it quickly.

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

From: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Date: Tuesday, June 8, 2021 at 8:03 AM
To: "Kieffer, Margaret (HQ-TH000)" <margaret.kieffer@nasa.gov>, "Feldstein, Karen C. (HQ-TA000)" <karen.c.feldstein@nasa.gov>, "Kirkham, Gib (HQ-TG000)" <gib.kirkham@nasa.gov>, "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Cc: "McKay, Meredith (HQ-TA000)" <meredith.mckay@nasa.gov>, "Meidinger, Jolene A. (HQ-TH000)" <jolene.meidinger@nasa.gov>
Subject: Re: Upcoming UAP/UFO interagency document?

Thanks Margaret. We do have a few weeks before the report is released, but the questions are already coming fast and furious so would be great to get our statement together this week. Much appreciated.

From: "Kieffer, Margaret (HQ-TH000)" <margaret.kieffer@nasa.gov>
Date: Monday, June 7, 2021 at 2:48 PM
To: "Feldstein, Karen C. (HQ-TA000)" <karen.c.feldstein@nasa.gov>, "Kirkham, Gib (HQ-TG000)" <gib.kirkham@nasa.gov>, "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Cc: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "McKay, Meredith (HQ-TA000)" <meredith.mckay@nasa.gov>, "Meidinger, Jolene A. (HQ-TH000)" <jolene.meidinger@nasa.gov>
Subject: RE: Upcoming UAP/UFO interagency document?

Karen:

We have some time before the report is released, but very much agree a TP or two for public use is warranted. FYSA, we have **let ODNI know we will be coordinating a short statement with them.** Folks seem to be interested in a NASA nexus, despite the fact that our role on this matter was minuscule.

Jolene Meidinger will reach out to you shortly to coordinate.

M

Margaret Kieffer
Director, Export Control and Interagency Liaison Division
Office of International and Interagency Relations

NASA Headquarters

Room 5X53

Office phone (202)358-1905

Secure: (b) (6), (b) (7)(E)

margaret.kieffer@nasa.gov

SIPR: (b) (6), (b) (7)(E)

JWICS: (b) (6), (b) (7)(E)

From: Feldstein, Karen C. (HQ-TA000) <karen.c.feldstein@nasa.gov>
Sent: Monday, June 7, 2021 2:42 PM
To: Kirkham, Gib (HQ-TG000) <gib.kirkham@nasa.gov>; Fox, Karen C. (GSFC-1300) <karen.c.fox@nasa.gov>
Cc: Kieffer, Margaret (HQ-TH000) <margaret.kieffer@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McKay, Meredith (HQ-TA000) <meredith.mckay@nasa.gov>
Subject: Re: Upcoming UAP/UFO interagency document?

Thanks, Gib! Hi Karen, I was also going to connect you with Margaret, Director of OIIR's Export Control and Interagency Liaison Division. I appreciate that the Administrator made some comments on this topic and it was a subject of discussion at our senior tag this a.m. Margaret can help advise on preparing for the report's release.

Best,

Karen

From: Gib Kirkham <gib.kirkham@nasa.gov>
Date: Monday, June 7, 2021 at 1:53 PM
To: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>, Karen Feldstein <karen.c.feldstein@nasa.gov>
Cc: Margaret Kieffer <margaret.kieffer@nasa.gov>
Subject: RE: Upcoming UAP/UFO interagency document?

Hi Karen,

Copying Margaret Kieffer, who's responsible for interagency collaboration in OIIR.

From: Fox, Karen C. (GSFC-1300) <karen.c.fox@nasa.gov>
Sent: Monday, June 7, 2021 1:09 PM
To: Feldstein, Karen C. (HQ-TA000) <karen.c.feldstein@nasa.gov>
Cc: Kirkham, Gib (HQ-TG000) <gib.kirkham@nasa.gov>
Subject: Upcoming UAP/UFO interagency document?

Cheers, Karen –

Thomas Zurbuchen let me know that as OIIR helps organize interagency collaboration, and that you might be the best person to ask about the upcoming Unidentified Aerial Phenomena document that is supposed to be released later this month.

Understood that it is confidential and that you can share no details about it. . . But I'm trying to be prepared for when it is released. If you are able to share any information about whether NASA participated and – even better -- in what capacity (provided technical expertise? Discussed science research? Policy conversations?) that could help me be prepared for the day of the release.

Anything you are legally allowed to tell me would be very helpful! (We also have several people with top security clearance within the comms office, and so another alternative would be to have them take a look at the document. . .)

The administrator has been actively discussing UFOs with the media, as you are probably aware, and so I'd like to be able to react as quickly as possible to share information on the day of the release about how we participated and who helped provide information.

Thanks so much!

--Karen

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

NASA Headquarters

Karen.fox@nasa.gov

RE: UAP brief

From: Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>
To: Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 8, 2021 12:32:02 PM EDT
Received: June 8, 2021 12:32:03 PM EDT

Yeah, I found because I haven't used the email system in such a long time I have to get it reset. I'll standby and let Mark's schedule dictate what he wants. I'm available.

bj

From: Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>
Sent: Tuesday, June 8, 2021 12:24 PM
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>
Subject: UAP brief

Gents,

I tried to send the short brief to you on JWICS, however, neither of you have an email address on the classified side. I have verified that **b6** [REDACTED]. You just don't have email addresses.

When your schedule allows, I can bring you two into the SCIF on the 6th floor and go over the brief with you. Let me know your availability and I'll have it set up. Today would be great, if you can squeeze it in. Shouldn't take more than 15 min.

V/r,
Randy

Randy Cruz

Senior Advisor to the Administrator

NASA Headquarters

Office: (202) 358-1445

Cell: **(b) (6)**

Re: UAP messaging

From: Feldstein, Karen C. (HQ-TA000) <karen.c.feldstein@nasa.gov>
To: Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Cc: Kieffer, Margaret (HQ-TH000) <margaret.kieffer@nasa.gov>, McKay, Meredith (HQ-TA000) <meredith.mckay@nasa.gov>
Sent: June 8, 2021 3:39:29 PM EDT
Received: June 8, 2021 3:39:30 PM EDT

Hi Randy, I'm out this afternoon but am looping in Margaret and Meredith.

Best,

Karen

On: 08 June 2021 13:29, "Cruz, Randy C. (HQ-AA000)[Affiliate]" <randy.c.cruz@nasa.gov> wrote:

Karen/Marc,

I understand that you two are working closely on the UAP messaging efforts and I don't want to stifle or confuse anything. I was preparing share an initial classified brief from the UAP Task Force that is dated from August 2020 with Marc. It might be OBE at the this point, but wanted to let you know that we can still do that if you desire. Let me know how I can help.

V/r,

Randy

Randy Cruz

Senior Advisor to the Administrator

NASA Headquarters

Office: (202) 358-1445

Cell: (b) (6)

RE: Talking points for UAP report

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
To: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>, Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>, Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Sent: June 9, 2021 3:11:55 PM EDT
Received: June 9, 2021 3:11:56 PM EDT

Ya'll need to watch the movie Europa Report (2018 I think) this weekend. It's free on the interwebs:

<https://www.youtube.com/watch?v=MLBxd2xxnZ4>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.youtube.com/watch?v=MLBxd2xxnZ4&data=04|01|marc.r.etkind@nasa.gov|8163c30b3417449b463e08d92b7a725b|7005d45845be48ae8140d43da96dd17b|0|0|637588627162622458|Unknown|TWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikk1haWwiLCJXVCi6Mn0=|1000&sdata=hs2ezJzxGUBkC8m91i2sayxRriq0LlrNOphJFeG4AKA=&reserved=0>>

From: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>
Sent: Wednesday, June 9, 2021 1:51 PM
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: RE: Talking points for UAP report

WOW

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Wednesday, June 9, 2021 1:09 PM
To: Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: RE: Talking points for UAP report

Mark my words. This is what Europa's oceans would look like when we get there with our submarine:

From: Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>
Sent: Wednesday, June 9, 2021 12:01 PM
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>; Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: RE: Talking points for UAP report

And the search for life was added to NASA's charter in the 2017 auth bill, that Nelson helped author.

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Wednesday, June 9, 2021 11:55 AM
To: Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: RE: Talking points for UAP report

Agree 100%. We don't have to repeat what they are saying ((b) (5)). NASA's

charter is to discover life in the universe, and we are working hard to do that. I am fully expecting Europa to have giant squids in the under-ice ocean world!

B

From: Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>
Sent: Wednesday, June 9, 2021 11:52 AM
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: RE: Talking points for UAP report

Marc, Team,

On initial read I find the guidance Bhavya was able to retrieve to be (b) (5) that I think (b) (6) "we are a scientific discovery agency and we will continue to fulfill all parts of our charter. Bottom line, we want to know!"

My two cents.

Thanks,

RBD

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Tuesday, June 8, 2021 5:09 PM
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>; Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: Talking points for UAP report

See attached.

Marc - you know Patrick. Right? Feel free to follow up.

I'll read the final clearance draft first thing tomorrow.

Bhavya Lal, Ph.D.

(b) (6)

Begin Forwarded Message:

From: "Evans, Patrick L. EOP/NSC" (b) (6)
Subject: RE: [EXTERNAL] RE: Talking points for UAP report
Date: 08 June 2021 17:02
To: "Schaffer, Audrey M. EOP/NSC" (b) (6) "Lal, Bhavya (HQ-AA000)" <bhavya.lal@nasa.gov>

Cc: "Forrest, Christopher D. EOP/NSC" (b) (6)

Good afternoon Bhavya –

Attached are two docs:

1)NSC Press Guidance for UAPs

2)OSD Briefing Card for UAPs

Also Here is the email address for ODNI public affairs: (b) (6) . Monica/ODNI has the press and can speak to ODNI's talking points and the eventual rollout.

Sue Gough - (b) (6) is the lead at OSD Press Operations.

Please let me know if this is what you need. Thanks!

Patrick

Very Respectfully,

(b) (6) APR

Director for Strategic Communications and Assistant Press Secretary

National Security Council

E: (b) (6)

Office: (b) (6)

Mobile: (b) (6)

From: Schaffer, Audrey M. EOP/NSC (b) (6)

Sent: Tuesday, June 8, 2021 4:37 PM

To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>

Cc: Forrest, Christopher D. EOP/NSC <(b) (6)> Evans, Patrick L. EOP/NSC (b) (6)

Subject: RE: [EXTERNAL] RE: Talking points for UAP report

Bhavya,

I'm looping in Patrick Evans from NSC Press. In talking with Chris Forrest, it sounds like Patrick can both send you the current EOP press guidance on UAPs and connect you with PA folks from DOD and DNI PA who would have more detailed guidance that you can pull from.

Audrey

On: 08 June 2021 14:16, "Schaffer, Audrey M. EOP/NSC" (b) (6) wrote:

Bhavya

Thanks for the follow-up – great to see you as well!

I'm looping in my colleague Chris Forrest. He is our lead for the UAP report and should be able to share what we have and/or point you to PA colleagues in DOD and DNI to work directly with.

Audrey

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>

Sent: Tuesday, June 8, 2021 2:07 PM

To: Schaffer, Audrey M. EOP/NSC [REDACTED] (b) (6)

Subject: Talking points for UAP report

Hi Audrey. Great seeing you today. Wanted to coordinate NASA talking points on the UAP report with those of NSC to the extent possible. Any thoughts on that front would be most welcome! Best and come visit us at NASA! Bhavya

Bhavya Lal, Ph.D.

~~DUPLICATE-ALREADY PROCESSED~~

Re: Talking points for UAP report

From: Etkind, Marc R. (HQ-NA000) </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CB6EE6FC64104561BE6805548BB21326-ETKIND, MAR>
To: Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>, Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>, Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>, Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Sent: June 9, 2021 1:07:38 PM EDT
Received: June 9, 2021 1:07:41 PM EDT

All good guidance and appreciated!

On: 09 June 2021 12:00, "Brown, Alicia N. (HQ-VA000)" <alicia.n.brown@nasa.gov> wrote:

DUPLICATE-ALREADY PROCESSED

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Wednesday, June 9, 2021 11:55 AM

DUPLICATE-ALREADY PROCESSED

From: Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>
Sent: Wednesday, June 9, 2021 11:52 AM

DUPLICATE-ALREADY PROCESSED

Fwd: [EXTERNAL] RE: Talking points for UAP report

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Sent: June 8, 2021 5:36:49 PM EDT
Received: June 8, 2021 5:36:50 PM EDT
Attachments: 2021 0603 Unidentified Aerial Phenomena.docx

Bhavya Lal, Ph.D.

DUPLICATE-ALREADY PROCESSED

Begin Forwarded Message:

From: "Evans, Patrick L. EOP/NSC" [REDACTED] (b) (6)
Subject: RE: [EXTERNAL] RE: Talking points for UAP report
Date: 08 June 2021 17:32
To: "Lal, Bhavya (HQ-AA000)" <bhavya.lal@nasa.gov>

Resending with attachment and text below.

NSC Press Guidance – Unidentified Aerial Phenomena (UAP) Report

(b) (5)

b5

###

Very Respectfully,

Patrick Evans, APR

Director for Strategic Communications and Assistant Press Secretary

National Security Council

E: (b) (6)

Office: (b) (6)

Mobile: (b) (6)

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>

Sent: Tuesday, June 8, 2021 5:07 PM

To: Evans, Patrick L. EOP/NSC (b) (6)

Subject: Re: [EXTERNAL] RE: Talking points for UAP report

Thanks Patrick. Can't open the first attachment. Can you pls try again?

Bhavya Lal, Ph.D.

DUPLICATE-ALREADY PROCESSED

On: 08 June 2021 17:02, "Evans, Patrick L. EOP/NSC" (b) (6) wrote:

DUPLICATE-ALREADY PROCESSED

From: Schaffer, Audrey M. EOP/NSC (b) (6)

Sent: Tuesday, June 8, 2021 4:37 PM

DUPLICATE-ALREADY PROCESSED

Audrey

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Tuesday, June 8, 2021 2:33 PM
To: Schaffer, Audrey M. EOP/NSC (b) (6)
Cc: Forrest, Christopher D. EOP/NSC (b) (6)
Subject: Re: [EXTERNAL] RE: Talking points for UAP report

Thanks Audrey! Hello Chris - Standing by for any guidance. Our administrator is getting lots of media questions (plus questions from the Hill too) and we'd like to stay coordinated if possible. Thx! Bhavya

Bhavya Lal, Ph.D.

DUPLICATE-ALREADY PROCESSED

On: 08 June 2021 14:16, "Schaffer, Audrey M. EOP/NSC" (b) (6) wrote:

DUPLICATE-ALREADY PROCESSED

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Tuesday, June 8, 2021 2:07 PM

DUPLICATE-ALREADY PROCESSED

Attachment

1. 2021 0603 Unidentified Aerial Phenomena.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 19 KB (20,360 bytes)

Attachment #1

2021 0603 Unidentified Aerial Phenomena.docx

Original view

2 pages (displayed on pages 7 to 8)

6/4/2021

NSC Press Guidance – Unidentified Aerial Phenomena (UAP) Report

(b) (5)

(b) (5)

###

Attachment

1. 2021 0517 BC UAP Report to Congress v3.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 45 KB (46,857 bytes)

2. 2021 0603 Unidentified Aerial Phenomena.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 19 KB (20,360 bytes)

Attachment #1

2021 0517 BC UAP Report to Congress v3.docx

Original view

3 pages (displayed on pages 6 to 8)

REFERRED TO OSD

REFERRED TO OSD

REFERRED TO OSD

Attachment #2

2021 0603 Unidentified Aerial Phenomena.docx

Original view

2 pages (displayed on pages 10 to 11)

Tps on economic impact

From: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
To: Gulley, Bryan F. (HQ-NA000) <bryan.f.gulley@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 10, 2021 3:59:13 PM EDT
Received: June 10, 2021 3:59:16 PM EDT

Hi all - Any thoughts on these for tps ahead of BN's Senate hearing next week?

Value of NASA

- b5 [REDACTED]
- b5 [REDACTED]
- b5 [REDACTED]
- b5 [REDACTED]
- b5 [REDACTED]
- b5 [REDACTED]

Moon to Mars Economic Impact

- b5 [REDACTED]
- b5 [REDACTED]
- b5 [REDACTED]

Intern program

- b5 [REDACTED]
- b5 [REDACTED]
- b5 [REDACTED]

UAP

- Central to NASA's mission is the search for life, wherever it may exist in the universe and at whatever stage.
- From potential biological life in the clouds on Venus, to squid-like creatures in Europa's oceans, to ancient, fossilized life on Mars, NASA is committed to investigating the biggest question that we face as humans: Are we alone in the universe?

- While NASA has yet to find any credible evidence of extraterrestrial life, we are not closed to the possibility that such life exists (b)(5)

- The nature of science is to better understand the unknown. When we learn of unidentified aerial phenomena, it opens up the door to new science questions to explore.

Jackie McGuinness

NASA Press Secretary

jackie.mcguinness@nasa.gov <mailto:jacqueline.f.mcguinness@nasa.gov>

C: (b) (6)

Re: NASA HQ IMAGE - Partial Solar Eclipse - NHQ202106100010

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 10, 2021 8:53:23 AM EDT
Received: June 10, 2021 8:53:24 AM EDT

Ah! Very VERY cool.

My trainers are always asking me questions. I need to always stay current and have good explanations - keeps me sharp haha. Today I got a ton of questions on the UAP stuff.

Bhavya Lal, Ph.D.

(b) (6)

On: 10 June 2021 08:50, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

Sorry just to be clear—highest day ever for Discovery Science for the 2017 eclipse.

From: Bhavya Lal <bhavya.lal@nasa.gov>
Date: Thursday, June 10, 2021 at 8:49 AM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Subject: Re: NASA HQ IMAGE - Partial Solar Eclipse - NHQ202106100010

Right after Artemis III lands the first two women on the Moon

Seriously, that's spectacular. Public interest is good for us.

Bhavya Lal, Ph.D.

(b) (6)

On: 10 June 2021 08:45, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

On the tv side, our highest day ever. Next one April 2024!

From: Bhavya Lal <bhavya.lal@nasa.gov>
Date: Thursday, June 10, 2021 at 8:28 AM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Quinn, Susie Perez (HQ-AH000)" <susie.p.quinn@nasa.gov>, "Dalton, Bale (HQ-AH000)" <bale.dalton@nasa.gov>, "Miller, Helen G. (HQ-AA000)" <helen.g.miller@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>, "Brown, Alicia N. (HQ-VA000)" <alicia.n.brown@nasa.gov>, "Hunter, Reagan A. (HQ-VA000)" <reagan.a.hunter@nasa.gov>, "Lambert, Rashahra T. (HQ-AA000)" <rashahra.t.lambert@nasa.gov>, "Gulley, Bryan F. (HQ-NA000)" <bryan.f.gulley@nasa.gov>
Subject: Re: NASA HQ IMAGE - Partial Solar Eclipse - NHQ202106100010

Yes. People love this stuff! Remember the frenzy after the solar eclipse? It was so crazy Thomas Z had to testify in Congress to explain the interest.

Bhavya Lal, Ph.D.

(b) (6)

On: 10 June 2021 08:21, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

We live streamed as well. It's the number one topic on twitter right now and great to have NASA in the convo.

From: Bhavya Lal <bhavya.lal@nasa.gov>
Date: Thursday, June 10, 2021 at 8:18 AM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Quinn, Susie Perez (HQ-AH000)" <susie.p.quinn@nasa.gov>, "Dalton, Bale (HQ-AH000)" <bale.dalton@nasa.gov>, "Miller, Helen G. (HQ-AA000)" <helen.g.miller@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>, "Brown, Alicia N. (HQ-VA000)" <alicia.n.brown@nasa.gov>, "Hunter, Reagan A. (HQ-VA000)" <reagan.a.hunter@nasa.gov>, "Lambert, Rashahra T. (HQ-AA000)" <rashahra.t.lambert@nasa.gov>, "Gulley, Bryan F. (HQ-NA000)" <bryan.f.gulley@nasa.gov>
Subject: Re: NASA HQ IMAGE - Partial Solar Eclipse - NHQ202106100010

Too cool!

Bhavya Lal, Ph.D.

(b) (6)

On: 10 June 2021 07:56, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

Thought you might enjoy these photos the NASA photographer took this morning.

From: <nasa- <mailto:nasa-hq-image-bounces@lists.hq.nasa.gov>hq- <mailto:hq-image-bounces@lists.hq.nasa.gov>image- <mailto:image-bounces@lists.hq.nasa.gov>bounces@lists.hq.nasa.gov> on behalf of "Ingalls, Bill (HQ-NG000)[MORI ASSOCIATES INC]" <bingalls@nasa.gov>
Date: Thursday, June 10, 2021 at 7:14 AM
To: NASA HQ IMAGE RELEASE <nasa- <mailto:nasa-hq-image@lists.hq.nasa.gov>hq- <mailto:hq-image@lists.hq.nasa.gov>image@lists.hq.nasa.gov>
Subject: NASA HQ IMAGE - Partial Solar Eclipse - NHQ202106100010

CAPTION:

A partial solar eclipse is seen as the sun rises behind the Statue of Freedom atop the United States Capitol Building, Thursday, June 10, 2021, as seen from Arlington, Virginia. The annular or "ring of fire" solar eclipse is only visible to some people in Greenland, Northern Russia, and Canada. Photo Credit: (NASA/Bill Ingalls)

This image, and others, are available on Flickr:<https://flic.kr/s/aHsmVY6CMm>
<<https://gcc02.safelinks.protection.outlook.com/?url=https://flic.kr/s/aHsmVY6CMm&data=04|01|marc.r.etkind@nasa.g>

ov|c1f8b87bc78c4992c64208d92c0ebbc|7005d45845be48ae8140d43da96dd17b|0|0|637589264048269675|Unknown|TWFPbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6Ik1haWwiLCJXVCI6Mn0=|1000&sdata=LGBK+cUOm+eQM9p3lc7j3w3As6rehFWtUdO3pYteZmY=&reserved=0>

Cheers

Bill

-- --

Bill Ingalls

Supervisor/Senior Photographer

NASA Headquarters, Office of Communications

300 E ST., SW

Washington, DC

20546

phone: 202.358.1742

fax: 202.358.4333

email: bingalls@nasa.gov

Visit us on Flickr at:

<http://www.flickr.com/photos/nasahqphoto>

<<https://gcc02.safelinks.protection.outlook.com/?url=http://www.flickr.com/photos/nasahqphoto/&data=04|01|marc.r.etkind@nasa.gov|c1f8b87bc78c4992c64208d92c0ebbc|7005d45845be48ae8140d43da96dd17b|0|0|637589264048269675|Unknown|TWFPbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6Ik1haWwiLCJXVCI6Mn0=|1000&sdata=inza2vRTMx/swbLHO2e1GXd58C06G744IrlxOtlXtyw=&reserved=0>>

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<http://twitter.com/nasahqphoto>

<<https://gcc02.safelinks.protection.outlook.com/?url=http://twitter.com/nasahqphoto&data=04|01|marc.r.etkind@nasa.gov|c1f8b87bc78c4992c64208d92c0ebbc|7005d45845be48ae8140d43da96dd17b|0|0|637589264048279628|Unknown|TWFPbGZsb3d8eyJWljoimc4wLjAwMDAiLCJQljoiv2luMzliLCJBTil6Ik1haWwiLCJXVCI6Mn0=|1000&sdata=xh1E9kmOey6dZvB1VPTRAsLYQazwAfAR70r6j+zSg/l=&reserved=0>>

RE: Hearing Questions and Toplines

From: Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>
To: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>, Kerwin, Mary D. (HQ-IA000) <mary.d.kerwin@nasa.gov>, Belson, DaMara (HQ-IA000) <damara.m.belson@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 10, 2021 2:33:05 PM EDT
Received: June 10, 2021 2:33:06 PM EDT

My thoughts on key issues he needs to be prepared for:

- b5 [redacted] ? (b) (5)
- b5 [redacted] ? (b) (5)
- b5 [redacted]
- b5 [redacted] ?
- UAP (does OCOM have TPs?)
- b5 [redacted] ?
- b5 [redacted] ?
- b5 [redacted] ?
- b5 [redacted] r?

From: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>
Sent: Thursday, June 10, 2021 2:06 PM
To: Kerwin, Mary D. (HQ-IA000) <mary.d.kerwin@nasa.gov>; Belson, DaMara (HQ-IA000) <damara.m.belson@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Subject: FW: Hearing Questions and Toplines

From: Quinn, Susie Perez (HQ-AH000)
Sent: Wednesday, May 19, 2021 7:06 AM
To: Nelson, Bill (HQ-AA000) <bill.nelson@nasa.gov>
Cc: Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Kerwin, Mary D. (HQ-IA000) <mary.d.kerwin@nasa.gov>; Miller, Helen G. (HQ-AA000) <helen.g.miller@nasa.gov>; Massey, Natalie (HQ-AB000) <natalie.massey@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: Hearing Questions and Toplines

Good morning,

Please find attached a topline sheet and revised hearing questions based on yesterday's briefing.

Susie Perez Quinn

Chief of Staff

Susie.p.quinn@nasa.gov

Office of the Administrator | NASA Headquarters

300 E Street SW, Washington DC

[EXTERNAL] We know the enduring prestige and place in all human history to be FIRST, especially if substantive. Guess which President or PM is going to be the first !!! Guess which President or PM or future world leader wants to be first?

From: **b6** @yahoo.com>
To: **(b) (6)** **(b) (6)** The Moscow Times
<general@themoscowtimes.com>, **(b) (6)** clare.a.skelly@nasa.gov,
(b) (6) marc.r.etkind@nasa.gov, Fijitimes Com Support
<support@fijitimes.com.fj>, Glasgowtimes Co News **(b) (6)**
editor@heraldandtimes.co.uk, ian.j.oneill@jpl.nasa.gov, **(b) (6)**
mail@indiatvnews.com, sean.potter@nasa.gov, **(b) (6)**
opinion@thejakartapost.com, **b6**
(b) (6)
reporters@dailyrecord.co.uk, reporters@sundaymail.co.uk, Tim Buckley
<**b6**>, timesnews@fijitimes.com.fj, f.light@themoscowtimes.com,
letters@usatoday.com **b6**.ru, Kolari Vision <**b6**>,
(b) (6) Skelly, Clare A. (HQ-NA020) <clare.a.skelly@nasa.gov>,
Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, O'Neill, Ian J (JPL-1821)[JPL
Employee] <ian.j.oneill@jpl.nasa.gov>, Potter, Sean (HQ-NA020)
<sean.potter@nasa.gov>
Sent: June 11, 2021 3:23:10 AM EDT
Received: June 11, 2021 3:24:50 AM EDT

Forum - The Black Vault Community

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.theblackvault.com/community/forum/new-member-introductions/scoop-gimbal-footage-vs-old-earthenware-cooking-pot-art-symbols-vs-ai/&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907271693|Unknown|TWFpbGZsb3d8eyJWIjojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWwiLCJXVCi6Mn0=|2000&sdata=+QVjIUbtZr+S+NoHiw22q9R7L2WqWy5COxD96tSIhyo=&reserved=0>>

Forum - The Black Vault Community

Online message forum to discuss government secrets, UFOs and the Paranormal.

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.theblackvault.com/community/forum/new-member-introductions/scoop-gimbal-footage-vs-old-earthenware-cooking-pot-art-symbols-vs-ai/&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907271693|Unknown|TWFpbGZsb3d8eyJWIjojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWwiLCJXVCi6Mn0=|2000&sdata=+QVjIUbtZr+S+NoHiw22q9R7L2WqWy5COxD96tSIhyo=&reserved=0>>

Greetings. Great website. Disappointing Pentagon Report. Fortunately NASA, China using AI, and private research all appear to be doing more.

Scoop of the Year would be to prove the Big Report missed something really important.

Compared with the official Gimbal footage, I have been similarly fascinated by the UFO UAP Alien art and symbols on a 7000-year-old Catal Huyuk like / style 'two-handled' cooking pot.

Would an alien who visited earth say 7,000 years ago, or anytime anywhere, take a simple thing like a wet clay pot for cooking to record their visit in multiple "languages" or symbols or dimensions and (IR or AI) technologies... including 1D, 2D, 3D, 4D, 5D,..., nD, and beyond any comprehension here now.

Symbolic language, hidden meanings, heat differentials, ancient earthenware and clothes from a vanished civilization,

or useful communication depicting / recording futuristic spaceships, cloaking, space jumps / portals, and alien visitors to earth?

This 'two-handled' pot is worthy of carbon dating, linguistic, and special assessments.

Who made it, what does it communicate, when and where was it made?

For what special purposes was it made:

(a) to reach out from beyond the grave, awaken ideas of future worlds' and / or

(b) to depict a lost civilization's artifacts, architecture, events, symbols, ideas, art, and / or

(c) is it for just fine dining, brewing, storage, home decoration?

Does this old tangible clay pot present more information than the Big Report just released? Please see:

<https://www.collectorsweekly.com/atal-huyuk>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.collectorsweekly.com/stories/244335-ufo-art-and-symbols-on-7000-bc-catal-huyuk&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907281647|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikh1haWwiLCJXVCi6Mn0=|2000&sdata=Uab5UF56+g356drsp1jIknizG4491HM8hWVtJfBiJk=&reserved=0>>

<https://thevault.tothestarsacademy.com/gimbal>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://thevault.tothestarsacademy.com/gimbal&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907291595|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikh1haWwiLCJXVCi6Mn0=|2000&sdata=ykUfkaY7iuUCfzEr2e882rAS7EVUXBDBADA615C/nA=&reserved=0>>

<https://thedebrief.org/china-confirms-it-has-its-own-ufo-task-force/>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://thedebrief.org/china-confirms-it-has-its-own-ufo-task-force/&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907291595|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikh1haWwiLCJXVCi6Mn0=|2000&sdata=xjfX8sJ6NJ2D4udZpHAI2e+Hq6EVT+YXXyQSahgNIYE=&reserved=0>>

China Confirms It Has Its Own UFO Task Force - The Debrief

Tim McMillan

China confirms it has its own "UFO Task Force," said to be using AI to investigate increased UFO activity in Chi...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://thedebrief.org/china-confirms-it-has-its-own-ufo-task-force/&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907301558|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikh1haWwiLCJXVCi6Mn0=|2000&sdata=WX2iun5Vdh2DdCXbE8AgMchd01I0nypLg1sH1hPK8Y=&reserved=0>>

<https://www.space.com/nasa-investigating-ufos-bill-nelson>

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.space.com/nasa-investigating-ufos-bill-nelson&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907301558|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikh1haWwiLCJXVCi6Mn0=|2000&sdata=WX2iun5Vdh2DdCXbE8AgMchd01I0nypLg1sH1hPK8Y=&reserved=0>>

aWwiLCJXVCI6Mn0=|2000&sdata=GDk4qE1e5XoNDA2sfxhiSvYxs4IHAN3VTdT6gEkZaQ=&reserved=0>

Report: NASA investigating UFO sightings, agency chief says

NASA chief Bill Nelson told CNN that he has asked agency researchers to look into the spate of UFO sightings tha...

<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.space.com/nasa-investigating-ufos-bill-nelson&data=04|01|marc.r.etkind@nasa.gov|55b906659c0d430a233d08d92ca9fd3e|7005d45845be48ae8140d43da96dd17b|0|0|637589930907311512|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1h>
aWwiLCJXVCI6Mn0=|2000&sdata=aKeyLsywGLjdkbyzo8j+Ihu00CSMe8TfmuSZo+DfGI=&reserved=0>

More detailed pictures, close ups and other links are available for "Scoopers." IR thermal mirrored and dude "it's rotating" video hopefully forthcoming.

As seen in the first link the old clay pot is real. The Pentagon is not so sure about UFOs UAPs Aliens. It publicly worries that China, Russia or any of us knows more and can find one soon.

Again the Scoop of the Year would be to prove the Big Report missed something really important.

The Video of the Century would be a President or Prime Minister accurately filmed meeting with one or more Aliens and discussing alien technology information, space travel, education systems, and sustainable problem solving.

We know the enduring prestige and place in all human history to be FIRST, especially if substantive. Guess which President or PM is going to be the first !!!

Guess which President or PM or future world leader wants to be first?

Thank you.

FW: FOR DISCUSSION: UAP plan draft

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
To: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Gulley, Bryan F. (HQ-NA000) <bryan.f.gulley@nasa.gov>
Sent: June 14, 2021 6:55:17 AM EDT
Received: June 14, 2021 6:55:17 AM EDT
Attachments: TP 21-016 Search for Life_UAPs.docx, UAPs draft plan.pptx

From: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Date: Friday, June 11, 2021 at 6:12 PM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Stephenson, Johnny F. (MSFC-NA000)" <johnny.f.stephenson@nasa.gov>, "Beutel, Allard (HQ-NA020)" <allard.beutel@nasa.gov>, "Thompson, Tabatha T. (HQ-NA020)" <tabatha.t.thompson@nasa.gov>, "Jacobs, Bob (HQ-NA000)" <bob.jacobs@nasa.gov>
Cc: "O'Connor, Courtney M (HQ-1862)[MORI ASSOCIATES INC]" <courtney.m.oconnor@nasa.gov>, "Johnson, Alana R. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <alana.r.johnson@nasa.gov>, "Landau, Elizabeth R (HQ-1864)[ASRC FEDERAL SYSTEM SOLUTIONS]" <elizabeth.r.landau@nasa.gov>, "Harrington, J D (HQ-NA020)" <j.d.harrington@nasa.gov>
Subject: FOR DISCUSSION: UAP plan draft

Cheers, all –

Per our discussions earlier this week, attached please find a slide deck with thoughts on how best to amplify NASA's role with the search for extraterrestrial life in the context of the upcoming report on UAPs. (Which I'm hearing is to be delivered to Congress by June 25.)

This represents ideas from the braintrust of most of the people on this email, as well as thoughts from Thomas Zurbuchen and the head of NASA's astrobiology program, Mary Voytek.

Also attached, please find the latest talking points on UAPs. While this document will surely continue to be updated, and is meant as a more staid, internal document – it serves as a good starter background.

Happy to discuss, adjust, add, etc. Let me know your thoughts!

Thanks,

Karen

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

NASA Headquarters

Karen.fox@nasa.gov

Attachment

1. TP 21-016 Search for Life_UAPs.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 47 KB (48,830 bytes)

2. UAPs draft plan.pptx

Type: application/vnd.openxmlformats-officedocument.presentationml.presentation
Size: 11 MB (11,607,193 bytes)

Attachment #1

TP 21-016 Search for Life_UAPs.docx

Original view

10 pages (displayed on pages 4 to 13)

SUBJECT: Search for Life, Technosignatures & Unidentified Aerial Phenomenon (UAP)/ Unidentified Flying Objects (UFOs)

BACKGROUND

Public and media interest in the topic of UAP/UFOs has seen an uptick in recent weeks following reports related to the Department of Defense's release of three unclassified U.S. Navy videos. Likewise, the 2021 Intelligence Authorization Act, signed in December 2020, stipulated that the government had 180 days to gather and analyze data from disparate agencies. The report is expected to be released in early June.

DOD released a [statement](#) confirming its authorized release of three unclassified Navy videos, one taken in November 2004 and the other two in January 2015, which have been circulating in the public domain after unauthorized releases in 2007 and 2017.

On May 26, [The Washington Post](#) published an opinion piece written by Ravi Kopparapu, a planetary scientist at NASA's Goddard Space Flight Center.

We Need To Put Science At The Center Of The UFO Question

"...With a government report due in June on unidentified aerial phenomena (UAP) and a recent '60 Minutes' story on U.S. Navy pilots' sightings and videos of mysterious images, prominent people in politics, the military and national intelligence are finally asking: What are we looking at?"

STATEMENT

One of NASA's key goals is the search for life in the universe. To date, NASA has yet to find any credible evidence of extraterrestrial life; however, NASA is exploring the solar system and beyond to help us answer fundamental questions, including whether we are alone in the universe. We stand ready to support the rest of the government in the search for life in the universe, be it close to home, on the planets or moons of our Solar System or deeper into space.

KEY POINTS

- One of NASA's key goals is the search for life in the universe. Although we have yet to find signs of extraterrestrial life, NASA is exploring the solar system and beyond to help us answer fundamental questions, including whether we are alone in the universe.
- From studying water on Mars, probing promising "oceans worlds," such as Titan and Europa, to looking for biosignatures in the atmospheres of planets outside our solar system, NASA's science missions are working together with a goal to find unmistakable signs of life beyond Earth.
- To date, NASA has yet to find any credible evidence of extraterrestrial life, but we are not closed to the possibility that such life exists and might have visited Earth. We stand ready to support the rest of the government in the search for life in the universe, be it close to home, on the planets or moons of our Solar System or deeper into space.

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- The nature of science is to better understand the unknown. When we learn of unidentified aerial phenomena, (UAP, or more commonly known as unidentified flying objects or UFOs), it opens up the door to new science questions to explore.
- Most UAP sightings result in very limited data, usually video recordings from a single angle that can only be cross-validated with eyewitness testimony. The language of scientists is data. Without access to an extensive set of data, it is nearly impossible to verify or explain any observation. The lack of robust data, including the lack of access to some existing data, is the central problem for scientific study of UAPs.
- In a sense, the discovery of technology from beyond Earth or the signatures of technology on other worlds would constitute the ultimate biosignature.

QUESTIONS AND ANSWERS

b5



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The 2021 Intelligence Authorization Act, signed in December 2020, stipulated that the government had 180 days to gather and analyze data about UAPs from disparate agencies. The report is expected to be released in early June. Has

b5



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ADDITIONAL INFORMATION

Exoplanet background

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- An exoplanet is a planet outside our solar system. Exoplanets are too far away to visit but can be studied with space telescopes.
- So far, we've confirmed more than 4,300 exoplanets in our galaxy, which probably holds trillions. Thousands more are likely to be confirmed in the years ahead.
- About a fifth of the planets confirmed so far are in Earth's size range, some in the "habitable zone," the distance from the star that could allow liquid water on the planet's surface.
- We also know that the building blocks of life are present throughout the solar system and the cosmos, including water.
- Despite these encouraging signs, we have yet to find evidence of life anywhere but planet Earth, in our solar system or beyond. We also haven't yet found a planet like Earth orbiting a star like the Sun, with a "year" comparable to our own.
- We're now on the cusp of a potential revolution in the study of exoplanets: detecting their atmospheres and searching for chemical signatures that could indicate the presence of life.
- In the near-term, the James Webb Space Telescope, and the next generation of ground-based telescopes, extremely will be able to spread the light from a small sample of Earth-sized exoplanets into a spectrum, potentially revealing the presence of atmospheric gases.
- We'll probably begin with large, gaseous worlds unlikely to be habitable, but that will pave the way for future instruments that could look in on a small, rocky world – perhaps even one similar to our own.
- We might see signs of oxygen, methane and carbon dioxide in such a planet's atmosphere – in other words, an atmosphere that reminds us of home.

Past Missions

Viking Project: 1 & 2

- *NASA's Viking Project was the first mission to reach the martian surface and the first to search for evidence of life on Mars. Viking was NASA's first attempt to search for life on another planet, and was thereby the **first** mission dedicated to astrobiology. The project found a place in history when it became the first U.S. mission to land a spacecraft safely on the surface of Mars and return images of the surface.*
 - Two identical spacecraft, each consisting of a lander and an orbiter, were built. Each orbiter-lander pair flew together and entered Mars orbit; the landers then separated and descended to the planet's surface.
 - The landers conducted three biology experiments designed to look for possible signs of life.
 - These experiments:
 - Discovered unexpected and enigmatic chemical activity in the Martian soil, but provided no clear evidence for the

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presence of living microorganisms in soil near the landing sites.

- Taught scientists a great deal about how little we knew about life on Earth and how to detect it.
 - Continue to shape the development of life detection strategies and equipment at NASA and other international agencies.
- NASA's Viking Project took place before NASA's Astrobiology Program was founded, but many scientists from its precursor, NASA's Exobiology Program, participated in the mission.

Kepler and K2 Mission

- *Kepler was a space observatory designed to survey a specific portion of our region of the Milky Way galaxy. An important part of Kepler's work was the identification of Earth-size planets that orbit in the habitable zone of their host star. Such observations are directly relevant to the study of life's potential in the Universe, and the search for life beyond Earth. Kepler discovered more than 2,600 exoplanets!*
 - Amongst the Kepler discoveries is Kepler-186f, the first validated Earth-size planet in the habitable zone of a star other than the Sun. The vast amount of data collected by Kepler will continued to be analyzed and used to help to guide the future direction of astrobiology science.
 - Astrobiologists use this data to:
 - Develop new techniques for studying exoplanets in greater and greater detail.
 - Help inform future missions to characterize exoplanets and exomoons, and possibly identify signs of life by analyzing attributes of these distant worlds, such as atmospheric composition.

Current Missions

MAVEN

- *Data from MAVEN provides insight into the history of Mars' atmosphere, climate, liquid water, and planetary habitability. An important aspect of the MAVEN mission is studying how early Mars lost much of its atmosphere.*
- *This atmospheric loss may have been partially responsible for Mars' transition from a planet capable of supporting liquid surface water to the dry, desert world we know today.*

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- Astrobiologists are working with data from the MAVEN mission in order to understand how atmospheric loss led to the loss of liquid water on the surface of the planet.
- This work is important in constraining how and when Mars lost its water and identifying periods in Mars' history when habitable environments were most likely to exist at the planet's surface.

Mars Odyssey

- *Mars Odyssey provides detailed maps of Mars that are used to determine the evolution of the Mars environment and its potential for life.*
 - Astrobiologists were directly involved in the development of the Thermal Emission Imaging System (THEMIS) instrument onboard Mars Odyssey. Visible and infrared observations by THEMIS are used to identify the distribution of minerals on Mars, allowing astrobiologists to study how the mineralogy of the planet relates to the landforms.
 - Astrobiologists also use data from Mars Odyssey to study the geochemical makeup of Mars. This information is useful for:
 - Studying the evolution of Mars' environment
 - Identifying locations that may have been habitable for life in the past
 - Finding astrobiology-relevant landing sites for future Mars missions.

Mars Reconnaissance Orbiter

- *While other Mars missions have shown that water flowed across the surface in Mars' history, it remains a mystery whether water was ever around long enough to provide a habitat for life.*
 - Data from MRO:
 - Is essential to astrobiologists studying the potential for habitable environments on past and present Mars.
 - Provides invaluable data used in selecting landing sites for future Mars missions.
 - Is important in building climate models for Mars, and for use in comparative planetology studies performed by astrobiologists who study the potential habitability of exoplanets that orbit distant stars.

Mars Exploration Rovers (MER) Spirit & Opportunity

- *NASA's twin Mars Exploration Rovers, Spirit and Opportunity, were designed to last for 90 martian days, however both robotic explorers far outlasted their original missions and spent years collecting data at the surface of Mars. Spirit's sent data back for over six years, while Opportunity returned data for an incredible fifteen years.*

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- MER mission was to search for and characterize a wide range of rocks and soils that hold clues to past water activity on Mars. Studying the history of water on Mars is essential in determining whether or not the planet once supported environments that could have been habitable for life as we know it.
- MER data has been used to identify environments that may have supported conditions suitable for life in Mars' past and will guide the future of Mars exploration for decades to come.

Mars Science Laboratory (Curiosity Rover)

- *MSL's Curiosity rover is studying whether or not Mars ever had environments capable of supporting microbial life. Data from MSL will be used to develop future missions to collect samples of the martian surface in the hopes of identifying signs of past or present life.*
 - The Curiosity rover is advancing the field of astrobiology by investigating Mars' habitability, studying its climate and geology.
 - Curiosity has provided evidence that liquid water once flowed at the surface of Mars in Gale Crater.
 - The rover also discovered a site dubbed 'Yellowknife bay,' which once supported an environment that was habitable for microbial life.

Mars 2020 Mission to Mars: Perseverance Rover

- *Mars 2020 is the next step in NASA's robotic exploration of Mars, a primary target of astrobiology research in the Solar System, and will build on the accomplishments of MSL. Many researchers supported by elements of the Astrobiology Program are involved in the design and development of the Mars 2020 mission and its scientific goals.*
 - The rover Perseverance is providing important data relevant to astrobiology research, along with a vast amount of geological information about the landing site and the planet at large that will help put the astrobiological data into context.
 - One of the missions primary goal is to explore the geology of Jezero Crater in order to assess past habitability.
 - Jezero Crater is a geologically rich terrain, with many features and minerals formed by water that may date back as far as 3.6 billion years ago.
 - Studying the geology and mineralogy of this site will provide a window into the planet's climate history, and allows astrobiologists to determine if sites like these were persistent habitable environments that could have supported life in the past.

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- Perseverance will not be looking for organisms living on Mars today. However, the rover is collecting data that could be used to identify biosignatures of ancient microbial life.
 - Previous missions, from Pathfinder to Curiosity, have helped astrobiologists determine that habitable environments were present on Mars in the planet's ancient past.
 - While these environments may have been habitable, we do not know if they were inhabited (i.e. if life was ever present).
- Perseverance will be collecting a suite of samples to be returned to Earth via a Mars Sample Return mission. The return samples from another planet will allow our researchers to interrogate them with all of the sophistication and thoroughness of Earth-based instrumentation, and will provide an immense opportunity to dramatically advance our scientific understanding of Mars.
- Many of the goals for the Mars 2020 mission are directly relevant to Astrobiology. These include:
 - Determine whether life ever arose on Mars
 - Seeking signs of past life (biosignatures) in the geological record
 - Characterize the climate of Mars
 - Characterize the geology of Mars

TESS Mission

- NASA's Transiting Exoplanet Survey Satellite is an all-sky survey mission that will discover thousands of exoplanets around nearby bright stars.
- TESS launched April 18, 2018 aboard a SpaceX Falcon 9 rocket.
- To date, TESS has discovered more than 120 confirmed exoplanets and more than 2,600 planet candidates
- TESS has identified, and will continue to find, exoplanets targets that Webb will study in further detail

Upcoming Missions

Dragonfly Mission to Titan

- *This revolutionary mission concept includes the capability to explore diverse locations to characterize the habitability of Titan's environment, to investigate how far prebiotic chemistry has progressed, and even to search for chemical signatures that could indicate water-based and/or hydrocarbon-based life.*
- *The NASA Astrobiology Program supports scientists involved at all stages of the mission. Projects supported by the program have helped to define Titan as prime target for astrobiology research in the Solar System.*

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- Analog research on Earth and comparative planetology studies in order to better understand the environment of Titan and to identify sites of astrobiological interest.
- Development of instrumentation that can be used to perform scientific investigations at Titan.
- Research in areas of prebiotic chemistry that inform our knowledge of organic chemistry on the moon.

Europa Clipper Mission to Europa

- *The Europa Clipper mission will place a spacecraft in orbit around Jupiter in order to perform a detailed investigation of the giant planet's moon Europa.*
 - Europa shows strong evidence for an ocean of liquid water beneath its icy crust and some astrobiologists believe that it could host conditions favorable for life.
 - Astrobiologists are involved in the definition of science goals for Europa Clipper and the design of scientific instruments for the mission.

James Webb Space Telescope (Webb)

- *Webb will be the premier space-based observatory of the next decade. Webb is a large infrared telescope with a 6.5-meter primary mirror. Data from Webb will be used to study the formation and evolution of habitable worlds, and will be invaluable in understanding processes that have shaped habitability in our own Solar System.*
- *Webb will be capable of making detailed observations that might allow astrobiologists to identify signatures of life on Earth-like planets beyond our Solar System.*
 - Webb observations will be used to study:
 - Every phase in the history of the Universe, including the evolution of the Solar System
 - The formation of distant solar systems capable of supporting life on Earth-like exoplanets.
 - Observe the formation of stars from the first stages to the formation of planetary systems
 - Measure the physical and chemical properties of planetary systems and investigate the potential for life in those systems

PAOs:

- HQ: Alana Johnson, alana.r.johnson@nasa.gov / 202-358-1501
- HQ: Karen Fox, karen.fox@nasa.gov/301-286-6284
- HQ: Liz Landau, elizabeth.r.landau@nasa.gov

Concurrences:

- HQ: Mary Voytek, Senior Scientist for NASA Astrobiology
- HQ: Lori Glaze, Planetary Science Division director

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- HQ: Michael New, Deputy AA for Research, Science Mission Directorate
- HQ: Eric Smith, JWST Program Scientist

Attachment #2

UAPs draft plan.pptx

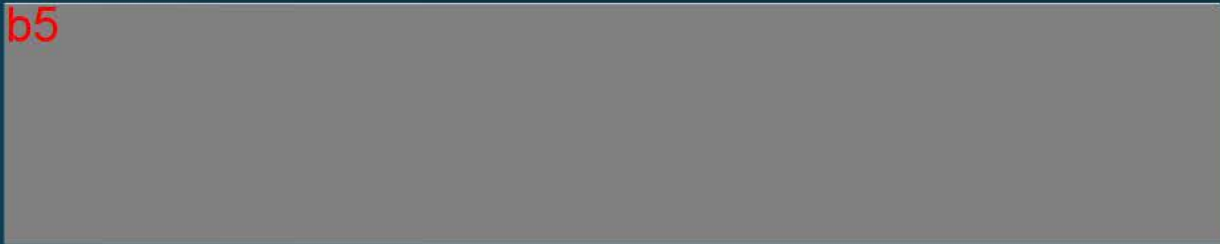
Original view

8 pages (displayed on pages 15 to 22)



UAP PLANNING

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SHORT TERM: Catching the wave on the UAP report

b5 [REDACTED] ?”

b5 [REDACTED]



Media

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- b5
 - Eg. Bill Nelson, Thomas Zurbuchen, Michelle Thaller, Jim Green
- b5
 - Eg. Ravi Kopparapu, Laura Kerber, Shawn Donegal - Goldeman
- b5
 - <http://astrobiology.com/2020/06/new-study-to-search-universe-for-signs-of-technological-civilizations.html> (Adam Frank, U of Rochester – solid science communicator)
 - A search for technosignatures around newly discovered exoplanets (Jean-Luc Margot, UCLA – Solid science communicator)



Social

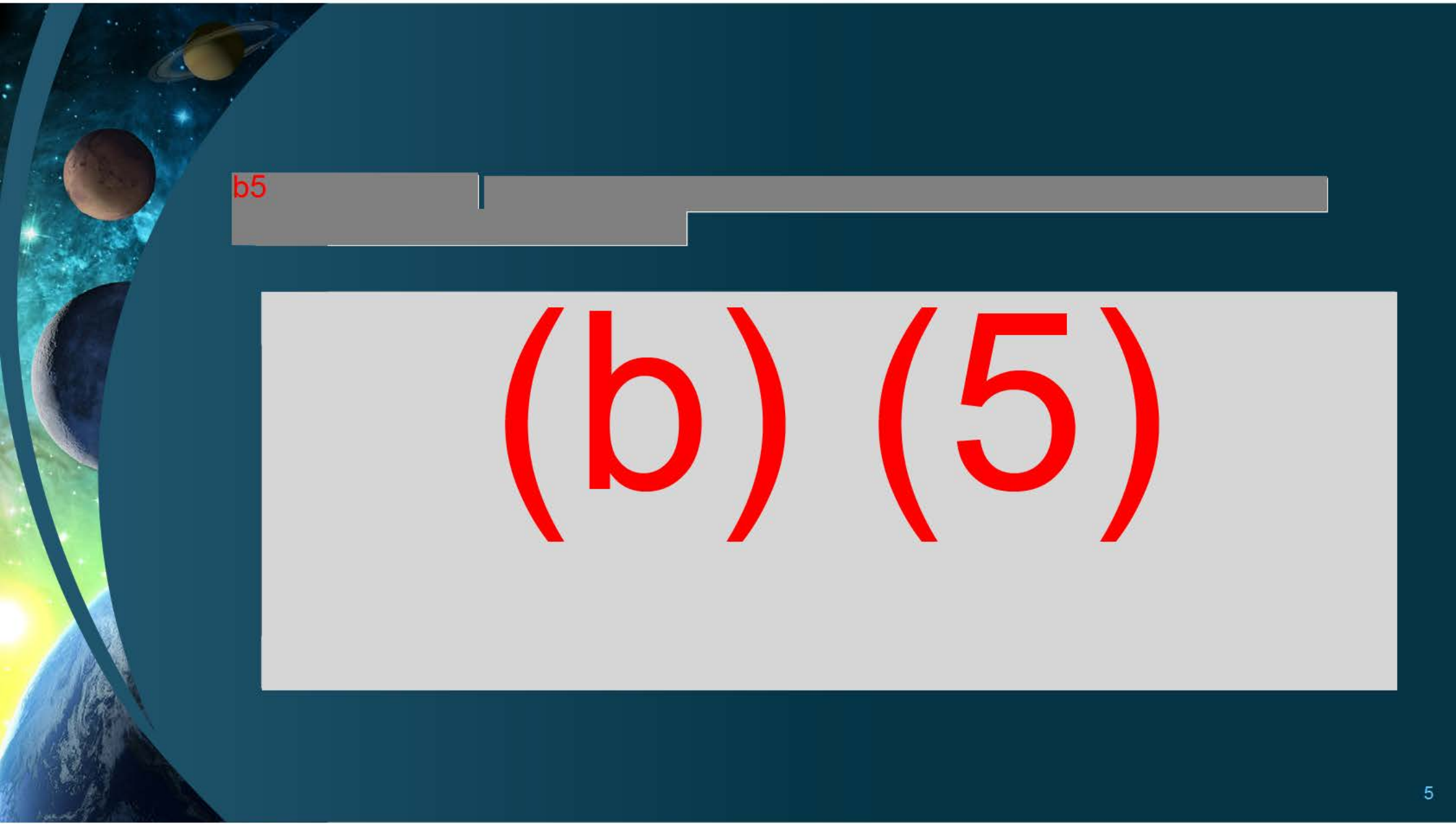
- Tumblr: Current and upcoming NASA missions looking for life
- Reddit AMA or Twitter Spaces with SMEs answering questions

Printed Products

- Set up a FAQ on NASA's search for life that we can point to whenever needed via social, for media etc.
- Feature/evergreen content on current and upcoming NASA missions looking for life

Cleaning house

- Need to update this page (a top page when you search "NASA UFO"):
<https://sservi.nasa.gov/?question=ufo-sightings>



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(b) (5)



LONG TERM: Continuing the Conversation

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POTENTIAL LARGER ACTIVITIES

- WORKSHOP/NASA SOCIAL: **b5**
Workshop between scientists/astronauts/rocket engineers and science fiction writers. **b5**
- SOCIAL: Humans of NASA vignettes
b5 (Hoping to lean into those **b5** but would depend on what we get.)
- VIDEO SERIES: **b5**
A series of 4-5 videos or recorded shows **b5**
- LIVE SHOTS CAMPAIGN



Re: FOR DISCUSSION: UAP plan draft

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Karen

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Karen C. Fox

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Sent: June 14, 2021 3:13:00 PM EDT
Received: June 14, 2021 3:13:03 PM EDT

I now believe that Thomas does not **b5**, as he learned that **b5** funding in its portfolio.

That having been said – the next round **b5** will come this summer, and there is a chance **b5** (though no one knows for sure yet as the decisions haven't been made).

That would be a nice hook to amplify if so, and I will keep tracking it.

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

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Cheers, all –

Per our discussions earlier this week, attached please find a slide deck with thoughts on how best to amplify NASA's role with the search for extraterrestrial life in the context of the upcoming report on UAPs. (Which I'm hearing is to be delivered to Congress by June 25.)

This represents ideas from the braintrust of most of the people on this email, as well as thoughts from Thomas Zurbuchen and the head of NASA's astrobiology program, Mary Voytek.

Also attached, please find the latest talking points on UAPs. While this document will surely continue to be updated, and is meant as a more staid, internal document – it serves as a good starter background.

Happy to discuss, adjust, add, etc. Let me know your thoughts!

Thanks,

Karen

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

NASA Headquarters

Karen.fox@nasa.gov

Attachment

1. TP 21-016 Search for Life_UAPs.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 47 KB (48,830 bytes)

2. UAPs draft plan.pptx

Type: application/vnd.openxmlformats-officedocument.presentationml.presentation
Size: 11 MB (11,607,193 bytes)

Re: Personal question-- coffee meet up (tomorrow?)

From: Fox, Karen C. (GSFC-1300) <karen.c.fox@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 14, 2021 10:19:26 PM EDT
Received: June 15, 2021 7:17:03 AM EDT

Marking my calendar!

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

From: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Date: Monday, June 14, 2021 at 7:06 AM
To: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Subject: Re: Personal question-- coffee meet up (tomorrow?)

Cool. Let's aim for Friday the 25th if that works for you.

From: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Date: Friday, June 11, 2021 at 6:02 PM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Subject: Re: Personal question-- coffee meet up (tomorrow?)

And unfortunately I can't do next week because I'm headed into Goddard bright and early to support the Sun Stamps roll out. . . But happy to do the Friday after that, or even Monday or Tuesday of this coming week. (b6
.)

Either way, I hope you have a great weekend!

UAP plan coming through in my next email. Happy to discuss, re-work, adjust etc. The good news is that we are doing SO SO much in the search for life. Less stuff on actual UFOs.

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

From: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Date: Thursday, June 10, 2021 at 9:04 PM
To: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Subject: Re: Personal question-- coffee meet up (tomorrow?)

Thanks Karen, I can't do tomorrow but should we aim for next Friday?

From: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Date: Thursday, June 10, 2021 at 11:25 AM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Subject: Re: Personal question-- coffee meet up (tomorrow?)

Oh – and one other thing – I was going to ask if you wanted to meet for coffee one morning bright and early at [REDACTED] b6 [REDACTED]. I'm not sure whether you're working from home any days, or going in everyday – but I could meet you there at 7:30 or 8 one morning.

(Indeed. . . I could do it tomorrow morning and can bring you up to speed on both the exciting and the less exciting aspects of NASA and UAPs. Have talked to many people, have some good ideas, have some other places where we don't have as much as one might like. . . Either way, planning to have suggestions for you tomorrow.)

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

From: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Date: Thursday, June 10, 2021 at 9:43 AM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Subject: Re: Personal question

So I never answered this because I recently switched and am not [REDACTED] b6 [REDACTED] b6 I had about trying to solve that problem.

That having been said, I have worked for years with a team of housekeepers [REDACTED] b6 [REDACTED] b6 [REDACTED] and [REDACTED] b6 [REDACTED]. I'm happy to connect you to them if that's interesting to you!

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

From: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Date: Monday, June 7, 2021 at 8:39 AM
To: "Fox, Karen C. (GSFC-1300)" <karen.c.fox@nasa.gov>
Subject: Personal question

Hey curious if you had a cleaning person? Thought you might know of someone who works in the neighborhood. Thx

Marc Etkind

Associate Administrator, Communications

NASA Headquarters

FW: FOIA Awareness (21-HQ-F-00542 and 21-HQ-F-00546)

From: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
To: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>, Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>
Cc: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 16, 2021 4:41:24 PM EDT
Received: June 16, 2021 4:41:25 PM EDT
Attachments: 21-HQ-F-00542 FOIA request.pdf, 21-HQ-F-00546 FOIA Request.pdf

Hi Susie and Bale – Flagging the attached for your awareness. BN has been FOIA'd for emails about UFOs. I will keep you updated on their findings (the FOIA group will provide us with whatever they are going to release a day or so before release).

Jackie

From: "Fox, Stephanie K. (HQ-NA040)" <stephanie.k.fox@nasa.gov>
Date: Wednesday, June 16, 2021 at 4:21 PM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Stephenson, Johnny F. (MSFC-NA000)" <johnny.f.stephenson@nasa.gov>, "Jacobs, Bob (HQ-NA000)" <bob.jacobs@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>, "Cremins, Tom (HQ-AJ000)" <tom.cremins-1@nasa.gov>, "Beutel, Allard (HQ-NA020)" <allard.beutel@nasa.gov>
Cc: "Gramian, Nikki N. (HQ-NA040)" <nikki.n.gramian@nasa.gov>
Subject: FOIA Awareness (21-HQ-F-00542 and 21-HQ-F-00546)

Good afternoon,

For your awareness, we received the attached FOIA requests from two individual requesters. Request 21-HQ-F-542 seeks the Senator's emails from 5/3/21 – 6/13/21 with specific keywords (UAP, UFO, unknown, and Rubio); and request 21-HQ-F-546 seeks emails, memos and any other records from 4/28/21 – 6/15/21 regarding any instructions or order made by Senator Nelson for NASA staff to investigate UFOs/UAPs.

While these requesters are simply interested citizens who do not represent media or interest groups, because the requests seek Senator Nelson's correspondence and involve a topic of current media interest, we wanted you to be aware. We've already initiated searches in the A-suite, IT (which will search the Senator's email account), and SMD. Kindly let me know if you have any questions about this matter.

Thank you,

Stephanie K. Fox

FOIA Team Lead

NASA Headquarters

Attachment

1. 21-HQ-F-00542 FOIA request.pdf

Type: application/pdf
Size: 106 KB (108,665 bytes)

2. 21-HQ-F-00546 FOIA Request.pdf

Type: application/pdf
Size: 160 KB (164,433 bytes)

Attachment #1

21-HQ-F-00542 FOIA request.pdf

Original view

1 page

From: noreply@nasa.gov on behalf of [NASA.gov](https://www.nasa.gov)
To: hq-foia@nasa.gov
Subject: NASA FOIA request
Date: Monday, June 14, 2021 12:02:59 AM

Submitted on Sunday, June 13, 2021 - 23:02

Submitted values are:

Name: Travis Roberts

Address:

(b) (6)

Phone:

Fax:

Email: (b) (6)

--Request Details--

Select a Center: Headquarters

Select type of document that you are requesting: Other

Enter Description: Emails from NASA chief Bill Nelson with key words "UAP" "UFO" "UNKNOWN" "RUBIO" Dated May, 3, 2021 through June, 13, 2021.

--Fee Category--

Select the following category to assist us in determining your fee category: Other

Enter description and purpose: Curious individual, with no scientific or media category.

--Assess Costs--

Enter maximum cost amount that you are willing to pay: \$200.00

If you are requesting a fee waiver, please check this box:

If you are requesting expedited processing, please check this box:

Additional comments: Thank you. I assume it has been very busy lately.

Attachment #2

21-HQ-F-00546 FOIA Request.pdf

Original view

1 page

Fox, Stephanie K. (HQ-NA040)

From: noreply@nasa.gov on behalf of NASA.gov <noreply@nasa.gov>
Sent: Monday, June 7, 2021 6:02 PM
To: hq-foia@nasa.gov
Subject: NASA FOIA request

Categories: Forwarded

Submitted on Monday, June 7, 2021 - 17:01 Submitted values are:

Name: Steve Theofanis

Address:

(b) (6)

Phone: (b) (6)

Fax:

Email: (b) (6)

--Request Details--

Select a Center: Headquarters

Select type of document that you are requesting: Other

Enter Description: All emails, memos and any other records from April 28, 2021 to June 15, 2021 regarding any requests, instructions or orders made by Mr. Bill Nelson, NASA's Administrator, for NASA's staff to investigate, study or analyze unidentified flying objects (or UFOs) or unidentified aerial phenomena (or UAP).

--Fee Category--

Select the following category to assist us in determining your fee category: Other

Enter description and purpose: i am an individual person (not associated with any media, commercial, nor educational entity). I am interested to understand the subject matter out of personal interest.

--Assess Costs--

Enter maximum cost amount that you are willing to pay: \$40.00

If you are requesting a fee waiver, please check this box:

If you are requesting expedited processing, please check this box:

Additional comments: thank you!

Fwd: [EXTERNAL] UAP's off of Florida's SpaceCoast

From: Nelson, Bill (HQ-AA000) <bill.nelson@nasa.gov>
To: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 19, 2021 9:51:33 AM EDT
Received: June 19, 2021 9:51:48 AM EDT
Attachments: MUFON CASE 87314 (copy to Rubio).pdf

Begin Forwarded Message:

From: "(b) (6)"
Subject: [EXTERNAL] UAP's off of Florida's SpaceCoast
Date: 18 June 2021 16:54
To: "Nelson, Bill (HQ-AA000)" <bill.nelson@nasa.gov>

Mr. Nelson,

First congratulations on your appointment with NASA. Your genuine enthusiasm, experience and desire for success is encouraging for NASA's future. I am a retired (b) (6) --I did get to meet you a few times in (b) (6) through the years at the (b) (6) facility when Governor Bush used to move around the state and hold meetings, and at a few other local functions. Thank you for your years of service in Florida's and the US congress and senate.

I am writing to you as I had captured some anomalies on VHS video in 1994 20 miles offshore fishing, between KSC and Sebastian inlet, and read the sun article (link below) on your interests to find out what these UAP's are. I held this video (who wanted to say out loud they had video of UFO's?) and never shared outside of my family until a few years ago after I saw what appeared to be a similar thing zip by as a space x on the pad exploded into flames. I digitized the original VHS tape and this allowed me to zoom in on the objects--which sent chills throughout my body. I felt compelled to share as a matter of civic duty I shared the attached pdf with info with Senator Rubio and met with one of his staff members well prior to his announcement that we need to learn more about these UAP's. I at least like to think I assisted him in his seeking more info and truths on what could be the most important revelation in man-kinds history, if not just technologically speaking. I have attached all of the documentation I sent to him and the intelligence committee about the matter. My concern is they are not benevolent and not sharing what I captured and saw when the objects were zoomed in on. Getting the detail I did when zoomed in also means these were uncomfortably closer to me than I had realized before as well. The zoomed in object is clearly a technology we are not familiar with. it is fuzzy--my apologies--however its from a VHS tape from my moving boat in the Atlantic ocean--so taking that into account, its not bad as it shows definite structures (I termed these "cluster crafts" as they seem to be composed of several spherical crafts) flying without technologies which we are accustomed to. Most disconcerting is the 2016 on pad space x explosion with the same anomaly flying by, meaning these are not our friends, whomever is flying these.

I'm glad to answer any questions by you or your staff, but I think the attached info covers most.

Thank you for taking these issues seriously,

(b) (6)

(b) (6)

Your recent article that lead me to contact you.

<https://www.the-sun.com/news/3020852/nasa-bill-nelson-ufo-investigating>
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.the-sun.com/news/3020852/nasa-bill-nelson-ufo-investigating/&data=04|01|marc.r.etkind@nasa.gov|ef4f7896ff0c4b8800d208d9332959b6|7005d45845be48ae8140d43da96dd17b|0|0|637597075086921356|Unknown|TWFpbGZsb3d8eyJWljoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWwiLCJXVCi6Mn0=|1000&sdata=KxSMpqz5YqMhQw7judfzePpKDjG8W7VW0gVdVa9dlaQ=&reserved=0>>

Attachment

1. MUFON CASE 87314 (copy to Rubio).pdf

Type: application/pdf
Size: 1 MB (1,371,470 bytes)

Attachment #1

MUFON CASE 87314 (copy to Rubio).pdf

Original view

10 pages (displayed on pages 5 to 14)

[REDACTED]

SENATOR RUBIO, THESE ARE REAL—THE TECHNOLOGY IS THERE—THERE IT IS. NOT PHOTOSHOPPED NOT FABRICATED. NOT FLARES OR HELICOPTERS

CONCERNS

1) I felt after seeing and zooming in on these to learn more—the air force lied to the Florida Today and has ignored several FOIA's by MUFON. There was a C-130 flying low prior to the video I assumed looking for survivors of a Cuban exodus by raft at that time in 94—please see full video of these and fishing earlier that afternoon.

2) I am coming to you due to Fox News 35 in Orlando's story—I had no idea that was happening---I am concerned as I believe there is a strong chance these are NOT benevolent. See video of Feb 2018 space X—next slides and two weeks ago offshore North Carolina—similar sighting.

I believe I would be remiss to NOT give you this further info as a citizen for you to investigate. I am NOT saying these are crafts from elsewhere than earth—I believe these are likely technologies another countries or “a group” possibly unfriendly to us. I say as the space x explosion is suspect in my opinion based on what I captured in 94, as well as what both Ben Rich of skunk works and Dr. Von Braun stated on their deathbeds (will provide on request).

[REDACTED]

(b) (6)

[REDACTED]

VIDEO OF CRAFTS AT SUNSET 15-20 MILES NE OF SEBASTIAN INLET



Copy was made direct from the original VHS using a Walmart off the shelf VHS to DVD
ON **b6** **(b) (6)**

MUFON CASE

b6

Mufon Case

b6

MUFON Case Management System - SEARCH

The search result is limited to max 50 returned Sighting Reports

Cases Found = 1

Date Submitted	Date/Time of Event	Short Description	Location of Event	Long Description	Attachments
1 2017-10-13	1994-08-31 8:30PM	(cak) First noted with seven lights which grew to groups of 2-4 then faded out just as they appeared	Indianlantic, FL, US	VIEW	

[ANOTHER SEARCH](#) [BACK TO MUFON SITE](#)

LONG DESCRIPTION OF SIGHTING REPORT - Google Chrome

Secure | https://mufoncms.com/cgi-bin/report_handler.pl?req=view_long_desc&id=87314&rnd=

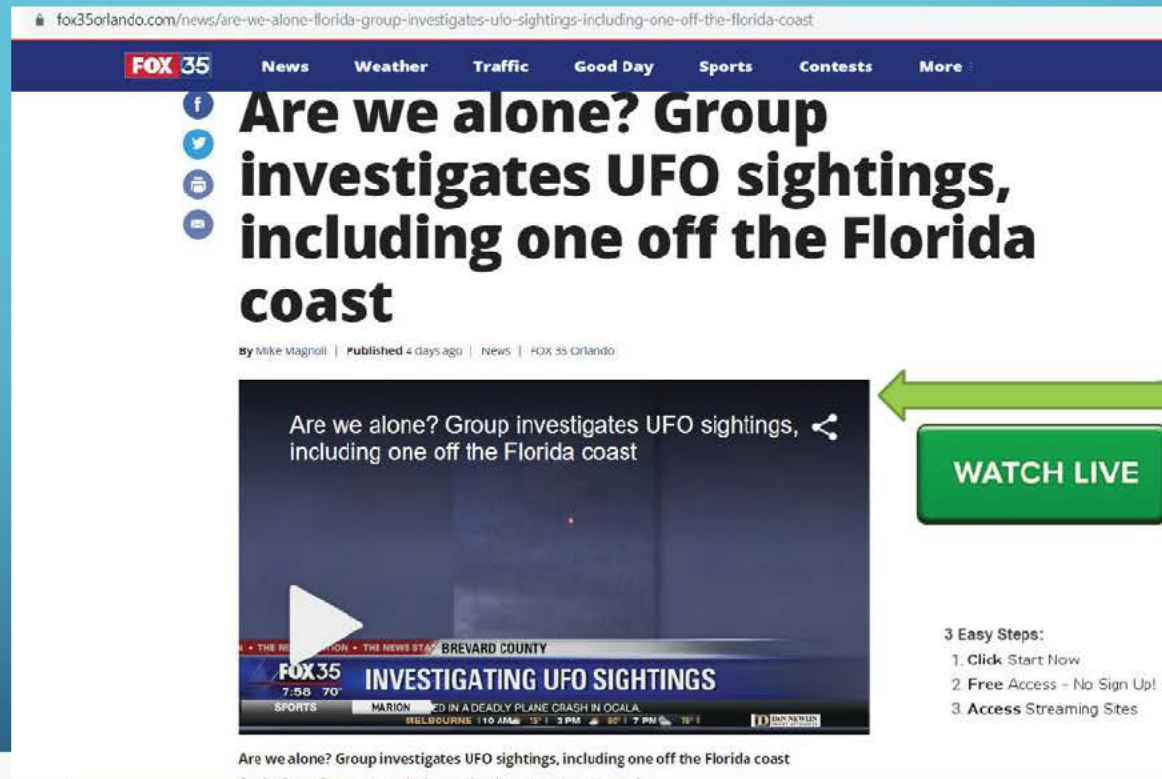
Long Description of Sighting Report

I have a video I took in the early 90's of what the air force said the next day in the Florida Today were helicopters off of indianlantic 20 miles offshore dropping flares in an excersize by a squadron that didn't exist any longer. Many people along the beaches apparently called in to the police. The issue with that story is I have video of the incident from 20 miles offshore- time and date documented as well as loran coordinates (before gps). The video shows the loran, the afternoon fishing activities, and clusters (5 clusters I believe) of 2-4 bright lights materializing and disappearing- fading in and out. There were no helicopters anyplace and I know what flares look like, these had no parachutes, no smoke trails and did not lose altitude -- they were not falling. I never shared publicly - I mean claim the airforce was lying??... and still don't want scoffing or ridicule.. however this video clearly shows it's NOT what the Air Force reported that day with an air force squadron that was disparaged years before as publicly announced in The Florida Today Sept 1 1994. I can't say what it was, but shows what it wasn't. An hour or so earlier there was a C-130 making low passes and circling in another area. I did not video that -- we were fishing. I suspect the military did know what this was, but flares they are not, or helicopters. These lights are in the same config as many other lights and sightings including the Phoenix lights and reports going back hundreds and thousands of years.

[CLOSE WINDOW](#)

Information requests (FOIA) made by MUFON have been ignored by the air force

1994 AUGUST 31 CRAFTS OFF MELBOURNE BEACH

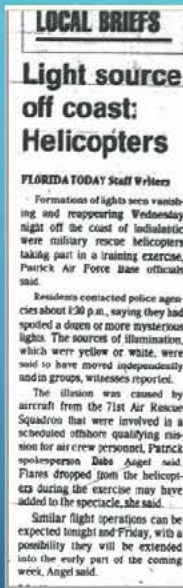


A screenshot of a news article from FOX 35 Orlando. The URL in the browser address bar is [fox35orlando.com/news/are-we-alone-florida-group-investigates-ufo-sightings-including-one-off-the-florida-coast](https://www.fox35orlando.com/news/are-we-alone-florida-group-investigates-ufo-sightings-including-one-off-the-florida-coast). The article title is "Are we alone? Group investigates UFO sightings, including one off the Florida coast". The author is Mike Magnoli, published 4 days ago. Below the title is a video player with a "WATCH LIVE" button. The video player shows a news broadcast with the text "INVESTIGATING UFO SIGHTINGS" and "BREVARD COUNTY". To the right of the video player is a "3 Easy Steps" list: 1. Click Start Now, 2. Free Access - No Sign Up!, 3. Access Streaming Sites.

Click-hyperlinked to
FOXNews 35 in
Slideshow mode—or
Click link below

<https://www.fox35orlando.com/news/are-we-alone-florida-group-investigates-ufo-sightings-including-one-off-the-florida-coast>

9-1-1994 FLORIDA TODAY NEWS CLIP



This article was in the Florida Today as a release by the airforce

Many witnesses called police from on shore viewing. The crafts Were 20 miles offshore and at dusk/sunset and the air force reply made it for the newspaper morning edition, which is questionable?

Three FOI's made by MUFON have been ignored the last 2 years.

The next photos were taken from the video (VHS) and zoomed in Using an just an I-phone 7 camera. Whatever these crafts are they are not flares and helicopters. No smoke –no movement-faded in and out over a 20+ minute or so period. Spheres in clusters with protruding structures like antennae

LOCATION OF VIDEO AND STILLS FROM VIDEO



We were on our way in to b6 from an b6 f approx. 20 miles offshore when the crafts were recorded. b6 an coordinates to lat and long yet b6 55 as it's not visible with throttles in the way.

STILLS TAKEN FROM VIDEO AND ZOOMED IN –IPHONE 7



Screen shot from digital
And slightly zoomed in
Shot on iPhone 7

No filtering, no photo
Shop.

*Note dark circles on
Bottom of spheres now
visible in this shot

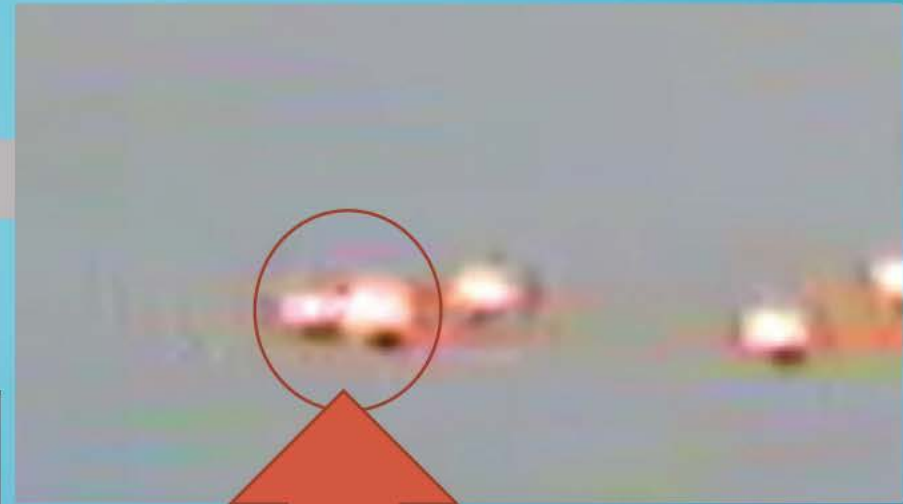
BREAK DOWN AND ZOOM IN OF CRAFTS



Note structure and shape of additional spheres now visible clustered together as these were zoomed in stills on my Iphone7 ---no editing or photoshop—
The lighting was filtered slightly on these which reduced glare from the normal iphone 7 feature--

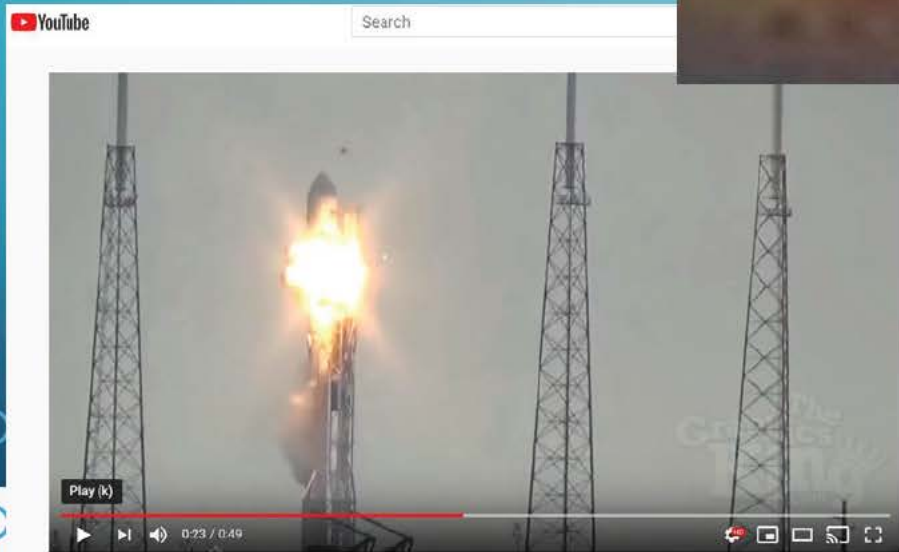


THERE THEY ARE—NOT FLARES
NOT HELICOPTERS. WHOSE
TECHNOLOGY IS THIS?
WHAT IS THE PURPOSE?

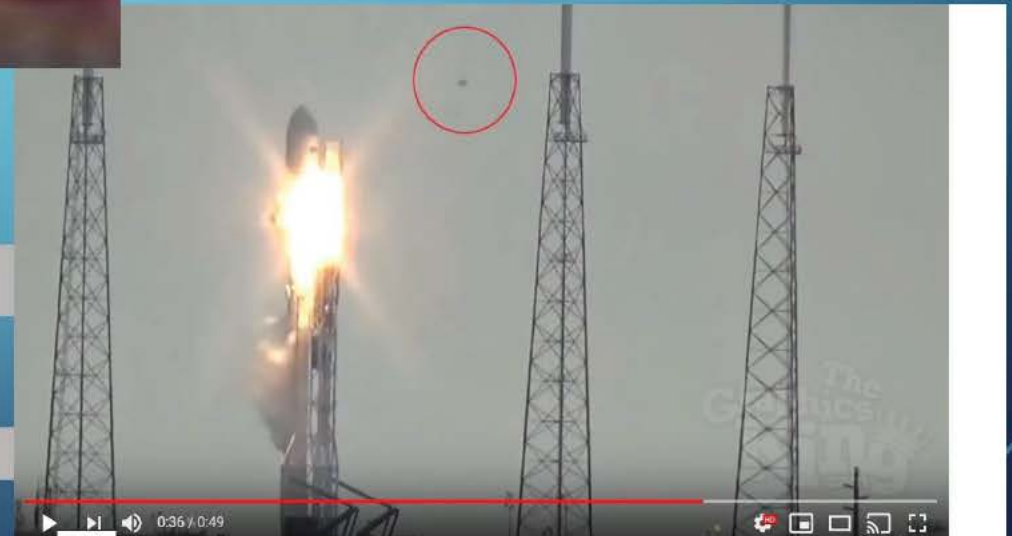


This is further zoomed in and light filtered in the same method on the iPhone 7. No smoke not moving, no parachutes, no helicopters. Clearly crafts of undisclosed technologies out of the realm of aerodynamic design. With better equipment than off of the shelf Walmart VHS to DVD and an iPhone 7—these should be able to be made more definitive and clearer.

SPACE X EXPLOSION SEPT 1 2016 BENEVOLENT CRAFTS?



SpaceX UFO Explosion - Slow Motion!



<https://www.youtube.com/watch?v=gric1NltvV0>

Re: National Academy review of UAP report

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: June 20, 2021 6:36:41 PM EDT
Received: June 20, 2021 6:36:41 PM EDT

Sure. My two cents... I like where he's headed—seems like a scientific approach, and the rigor that Spergel suggests, can add much to the discussion.

From: Bhavya Lal <bhavya.lal@nasa.gov>
Date: Sunday, June 20, 2021 at 6:31 PM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>
Subject: Re: National Academy review of UAP report

Thomas has asked to take point. Should we hand off to him? We have plenty on our plates. Thoughts?

Bhavya Lal, Ph.D.

(b) (6)

On: 20 June 2021 18:29, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

Just getting caught up and thanks for sharing... what's the next step?

From: Bhavya Lal <bhavya.lal@nasa.gov>
Date: Tuesday, June 15, 2021 at 5:52 AM
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Brown, Alicia N. (HQ-VA000)" <alicia.n.brown@nasa.gov>, "Quinn, Susie Perez (HQ-AH000)" <susie.p.quinn@nasa.gov>, "Dalton, Bale (HQ-AH000)" <bale.dalton@nasa.gov>
Subject: Fwd: National Academy review of UAP report

See below. Let's discuss! I think we should also talk to the authors of the report to understand how much of the data can be declassified.

Bhavya Lal, Ph.D.

(b) (6)

Begin Forwarded Message:

From: "Zurbuchen, Thomas H. (HQ-DA000)" <thomas.h.zurbuchen@nasa.gov>
Subject: RE: National Academy review of UAP report
Date: 14 June 2021 23:27
To: "Lal, Bhavya (HQ-AA000)" <bhavya.lal@nasa.gov>

Bhavya – we need to decide what we want to do. The Academy has struggled, over time, to be forward leaning and I

worry that asking too early for an Academy study would actually miss the point. It is not quite clear what we would want them to do- this is not a data-rich field. About data: here is my worry about the UAP work by the Intel community:

(b) (5)

(b) (5)

I do not know whether h5

Instead, I would like to focus on h5. I would like to pull together a group of experts within NASA and describe a h5 discussed in the UAP report. It might also make sense to do an h5 to see whether there is anything interesting there. My hope would be to turn this into a data-rich field. I would not be opposed to take that plan and let it be reviewed by the Academy and perhaps even h5”.

For reference, I am attaching two white papers that I had leading scholars write independently. One of them is perhaps the most influential Astrophysicist in the US, Dave Spergel, and the other one is perhaps the most forward leaning in the field, Avi Loeb. Google both if you want to know more. You see how much they overlap! Again – let’s make this data-rich!

You could ask, finally: why do anything? I would answer in three ways

1. Why miss a chance to demonstrate the power of science and the power of data to address a tough problem?
2. I DO want NASA to be a place where we focus on high-risk/high-impact science. We do not just walk away when something is sounding controversial
3. The administrator sounds like he would like us to do something

Best,

Thomas

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Monday, June 14, 2021 10:36 AM
To: Zurbuchen, Thomas H. (HQ-DA000) <thomas.h.zurbuchen@nasa.gov>
Subject: RE: National Academy review of UAP report

Thoughts on an Academies study on this topic?

From: Turner, Ron (HQ-UA000)[MIPSS SME] <ron.turner@nasa.gov>
Sent: Thursday, June 10, 2021 11:54 AM
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Cc: Turner, Ron h6
Subject: National Academy review of UAP report

Bhavya, I enjoyed our discussion this morning. Here are some thoughts about a NASA-sponsored, National Academy-led study following the release of the UAP report.

The public is going to be very interested in following up on the findings of the UAP report after it is released to Congress. A general concern with the classified nature of the report may be a sense that the government is still “hiding something”. I think there will be a natural expectation that NASA would respond in some fashion.

One possible response would be for NASA to direct the National Academies to do an independent review of the findings of the UAP report. NASA, working with the Academies, is uniquely positioned as a source of trust, imparting a

healthy dose of skepticism while open to hearing from the more eager advocates. It would be a way to establish confidence in the findings and to see if there is anything in the observations that warrant further examination or could improve future observations. It would be staffed by objective academic and industry experts who could bring a critical eye to the data and the limits of the available observations.

The task statement will evolve, as the report is released and in negotiation with Congress. But some specific objectives could be:

(b) (5)

I would be happy to continue to work with you to formulate a work statement. Let me know if I can help.

Hope to see you some time!

Ron T.

RE: National Academy review of UAP report

From: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>, Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>
Sent: June 15, 2021 6:37:12 AM EDT
Received: June 15, 2021 6:37:13 AM EDT

Two cents. Like his approach. Am curious why this hasn't been done before and how to also ensure we are not encroaching on current DOD or other agency activities. Also if there is room to coordinate w a civilian agency tho not sure who that would be.

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Tuesday, June 15, 2021 5:51 AM
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>; Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>
Subject: Fwd: National Academy review of UAP report

See below. Let's discuss! I think we should also talk to the authors of the report to understand how much of the data can be declassified.

Bhavya Lal, Ph.D.

(b) (6)

Begin Forwarded Message:

From: "Zurbuchen, Thomas H. (HQ-DA000)" <thomas.h.zurbuchen@nasa.gov>
Subject: RE: National Academy review of UAP report
Date: 14 June 2021 23:27
To: "Lal, Bhavya (HQ-AA000)" <bhavya.lal@nasa.gov>

Duplicate email already processed

Attachment

1. Microsoft Word - Extraterrestrial or Terrestrial origin.docx.pdf

Type: application/pdf
Size: 867 KB (887,863 bytes)

2. Thomas_Zurbuchen_AL.pdf

Type: application/pdf
Size: 229 KB (234,621 bytes)

Attachment #1

Microsoft Word - Extraterrestrial or Terrestrial origin.docx.pdf

Original view

3 pages (displayed on pages 6 to 8)

Thoughts on UFOs

David Spergel

The recent publication of observations of unidentified flying objects (UFOs) has stimulated a revived interest in the possibility of extraterrestrial visitors. This note describes possible hypotheses about the nature of UFOs, outlines key observables, and then suggests possible observing programs with an emphasis on approaches that will lead to interesting science even if UFOs have terrestrial origin.

What are they?

The most conservative hypothesis is that these UFOs are built by humans: experimental vehicles under development by the US military or by foreign militaries. In the past, famous UFO sites (e.g., Area 51) have turned out to be test sites for advanced technologies. Some of the “triangular shaped” objects that are capable of rapid accelerations and high speeds do seem remarkably similar to descriptions of hypersonic vehicles that are currently under development by the Army, [Navy](#), [Air Force](#), [DARPA](#) and the [NSA](#). The [Indian](#), [Chinese](#) and [Russian](#) military are all developing their own hypersonic vehicles. DARPA’s HTV-2 had test flights over a decade ago so that the recent appearance of flying triangular shaped objects that can reach high speeds seems consistent with this hypothesis. There is also extensive work on developing [drone swarms](#) by many nations (including even Armenia) whose properties match some UFO reports.



Image of the Indian HGV-2, one of many hypersonic vehicles that are being tested and deployed.

Another possible explanation for some of the events are natural phenomena such as [Ball lightning](#) or St. Elmo Fire. Plasma physicists and atmospheric physicists are still struggling to fully understand these phenomena. Recent work associates these events with lightning induced quasi-stable plasma effects (see e.g., [Skyrmion origin of ball lightning](#)). Some of the events could be optical illusions due to multiple reflections in airplane windows or atmospheric effects.

The most exciting hypothesis is that some of the UFOs are extraterrestrials visiting the Earth and studying the planet and its life forms. Aliens capable of interstellar space travel are not likely to be using technologies that are familiar to us (e.g., solar sails or hypersonic airbreathing vehicles). They would only be detectable if they wished to be seen. For example, they would likely want to miniaturize their probes and not likely to have familiar-looking vehicles. Given astronomical timescales, alien life is likely either a billion years less advanced than human life or a billion years more advanced technologically. As [Clarke's third law](#) states, "any sufficiently advanced technology is indistinguishable from magic".

Observables

What are the observables that can distinguish between these hypotheses? We would like to characterize the UFO events: What is their duration? What is the amplitude of the observed accelerations and velocities? How frequent are these events? Are they associated with weather phenomena? Where do the events occur? What are the properties of the objects? Do they have a surface or are they a plasma? Observations that can answer these questions can help identify the UFOs.

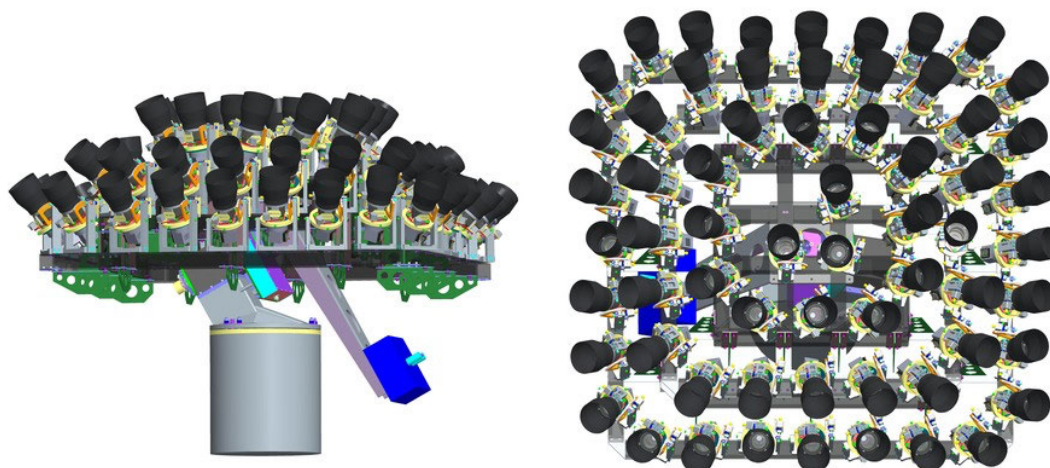
Potential observational program

An observational program that monitors the sky for rapidly moving objects and for time-variability would likely be able to help address the origin of these UFOs. Ideally, these telescopes would be monitoring much of the sky continuously so that they could simultaneously observe the events reported by pilots.

There are several existing observing programs that could be used to extrapolate to an all-sky monitoring program. In the optical, the [ASAS](#) telescope and the [HATPI](#) project monitor a significant fraction of the sky. ASAS operates a network of telescopes in South Africa, Texas, Hawaii, and Chile. HATPI uses a series of small cameras to monitor most of the sky visible from Chile. Currently, HATPI cover $\frac{3}{4}$ of the visible sky and detects 1% variations in 13th magnitude stars within 30 seconds. The approximate cost of HATPI was ~\$5 million, so that a program of making multiple copies of HATPI would not be overwhelmingly costly. This network would complement the Vera Rubin Observatory by enabling constant monitoring of transients, would detect transiting planets, and would be able to observe UFOs in clear weather. The telescopes are currently designed to operate at night and there would need to be significant modifications in the software for day-time operations. The biggest cost for these telescopes would be developing the software optimized for detecting fast moving objects and the ability to sort

through enormous databases and not be dominated by planes, birds, and human-made satellites.

Model of HATPI telescope



Microwave observations would be able to detect the thermal emission from objects in orbit or in the upper atmosphere. For example, consider a 0.5m telescope operating at 2mm with modern detectors. A one-meter diameter object at 20 km moving at 10 km/s subtends $10''$ and moves $2'$ in a millisecond. With a temperature of 300K, the UFO would appear as a 0.1K source. [Modern detectors](#) have noise variances of $\sim 1 \text{ (mK)}^2 \text{ s}$, so sources are > 10 sigma in a single detector in 1 millisecond. It would potentially be possible to build a set of small microwave telescopes that could monitor the sky and detect any moving satellite or plane. If these were also equipped with polarizers, they could be used for CMB polarization measurements. In the past year, CMB experiments have been repurposed to look for [astrophysical transients](#) and [planet IX](#). They have not been used to look for rapidly moving objects.

Another possibility would be to monitor the sky at radio wavelengths using observatories based on the design of [CHIME](#) or [HIRAX](#). These radio telescopes are already monitoring much of the sky (from Canada and eventually from South Africa) searching for [fast radio bursts](#).

Downward-looking satellites could also monitor the earth's atmosphere for fast moving events. One potential approach would be to design "hitchhiker" instruments for satellites that could be downward looking. There are likely national reconnaissance organization capabilities that can already monitor the Earth for fast moving planes and rockets and existing earth science observations likely contain data that could be used to look for anomalous fast-moving objects.

For all these observational approaches, one of the challenges would be to balance the desire to protect national security with the desire to reassure the public that all the relevant information on UFOs was being revealed. Any observing program that could detecting UFO would also detect other flying objects including many classified satellites.

Attachment #2

Thomas_Zurbuchen_AL.pdf

Original view

2 pages (displayed on pages 10 to 11)

Scientific Study of UAPs and Techno-Signatures

By Avi Loeb on June 5, 2021

A report on Unidentified Aerial Phenomena (UAP) is expected to be delivered by the Pentagon and various intelligence agencies to Congress this month. The reality of UAPs is beyond doubt but their nature requires further scientific study. It is therefore an opportune time for NASA and the scientific community to take a closer look at UAP by collecting and analyzing new data with state-of-the-art instrumentation and computers.

The new data can be collected by cameras, telescopes and audio sensors, with capabilities far exceeding the equipment that provided the existing UAP data. This program provides a unique opportunity for demonstrating the power of science in resolving a question that is of great interest to society, namely: *“is the nature of UAP natural, human-made or extraterrestrial?”* Finding a clear answer on the basis of open data will establish confidence from the general public in evidence-based knowledge, as well as in the transparency and integrity of NASA and the federal government. The societal appreciation of science will double up on the successful development of a messenger-RNA vaccine that triggered the desired immune response to COVID-19 using a synthetic chemical.

Currently, the UAP mystery surrounding the inconclusive findings of the Pentagon report fuels unsubstantiated speculations. A decisive scientific experiment that would clarify the nature of UAPs will demonstrate the power of scientific research in clarifying the fog on a subject of huge importance to society.

The required instrumentation will likely include state-of-the-art cameras installed on wide-field telescopes that scan the sky. The data stream will be processed by an advanced computer system that will store only the essential variable features. The focus on near-field aerial phenomenon is different from astronomical surveys of distant sources, such as the upcoming Legacy Survey of Space and Time (LSST) on the Vera C. Rubin Observatory.

The intriguing nature of UAP implies that irrespective of whether their origin is terrestrial or extraterrestrial, we will learn something new and exciting. Therefore, this research program is a win-win proposition.

The recommended instrumentation and observing plan will be defined by a scientific advisory committee, operating within a budgetary envelope defined by NASA.

The proposed initial members of the “UAP Task Force” are as follows:

Avi Loeb (Task Force Chair)
Pieter van Dokkum (Yale, optical/IR observer with expertise in wide field cameras)
Wendy Freedman (U. Chicago; former director of the Carnegie Observatories)
Andrea Ghez (UCLA; Optical/IR observer, adaptive optics expert; Nobel Laureate)
Andrew Howard (Caltech, optical/IR observer with interest in SETI)
Zeljko Ivezic (U. Washington, science director at LSST/VRO)
Vicky Kaspi (McGill; radio observer; Shaw Prize Laureate)
Ed Turner (Princeton, general purpose observer with interest in SETI)
Tony Tyson (LSST/VRO Chief Scientist)
Ravi Vikram (Caltech, radio observations with interest in SETI)
Shelley A. Wright (UCSD, optical/IR observer with interest in SETI)

In parallel to the effort to understand the nature of UAPs, a funding program should be established to explore technological signature of extraterrestrial civilizations. Novel research directions that can be explored in this program include:

- Flyby photography of unusual interstellar objects like `Oumuamua
- Artificial lights on nightside of planets
- Unusual reflectance on the dayside of planets
- Search for artificial megastructures around other stars
- Search for industrial pollution in planetary atmospheres

An extensive overview of the scientific background underlying these studies is provided in a new (1,061 pages long) textbook, titled: “[Life In the Cosmos](#)”, by Manasvi Lingam and Avi Loeb, to be published on June 29, 2021, by Harvard University Press.

ABOUT THE AUTHOR



Avi Loeb

Avi Loeb is the founding director of Harvard University's Black Hole Initiative, director of the Institute for Theory and Computation at the Harvard-Smithsonian Center for Astrophysics, and the former longest-serving chair of the astronomy department at Harvard University (2011-2020). He chairs the advisory board for the Breakthrough Starshot project, and is a former member of the President's Council of Advisors on Science and Technology and a former chair of the Board on Physics and Astronomy of the National Academies. He is the bestselling author of “[Extraterrestrial: The First Sign of Intelligent Life Beyond Earth](#)”.

Re: National Academy review of UAP report

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 12, 2021 12:08:02 PM EDT
Received: June 12, 2021 12:08:03 PM EDT

You can tell Bill it's a good idea :-). Reading now though **b5** my weekend.

Bhavya Lal, Ph.D.

(b) (6)

On: 12 June 2021 11:55, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

Love this idea of study. LMK how I can help support. Btw, thought this was a good read...

<https://www.cnet.com/news/that-ufo-report-has-us-thinking-all-wrong-about-the-military>
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.cnet.com/news/that-ufo-report-has-us-thinking-all-wrong-about-the-military&data=04|01|marc.r.etkind@nasa.gov|bbc56243c1e64a7d616608d92dbc4177|7005d45845be48ae8140d43da96dd17b|0|0|637591108838333222|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0=|1000&sdata=ayEYXvAsby4v2pbcV+JL41hLNDXD8YBy7MX5IZxEeYo=&reserved=0>>

From: "Quinn, Susie Perez (HQ-AH000)" <susie.p.quinn@nasa.gov>
Date: Thursday, June 10, 2021 at 2:14 PM
To: Bhavya Lal <bhavya.lal@nasa.gov>, "Brown, Alicia N. (HQ-VA000)" <alicia.n.brown@nasa.gov>, "Dalton, Bale (HQ-AH000)" <bale.dalton@nasa.gov>, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>
Subject: RE: National Academy review of UAP report

Bill will ask for input from Thomas Z- do you want to ask him for views?

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Sent: Thursday, June 10, 2021 1:14 PM
To: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Subject: FW: National Academy review of UAP report

As I had mentioned this am, see below. Would BN be interested in such a study? Brings NASA in more centrally, and also the scientific community.

From: Turner, Ron (HQ-UA000)[MIPSS SME] <ron.turner@nasa.gov>
Sent: Thursday, June 10, 2021 11:54 AM
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Cc: Turner, Ron <Ron.Turner@anser.org>
Subject: National Academy review of UAP report

RE: National Academy review of UAP report

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
To: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>, Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>, Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Sent: June 10, 2021 2:18:41 PM EDT
Received: June 10, 2021 2:18:43 PM EDT

I'll text him...

From: Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>
Sent: Thursday, June 10, 2021 2:15 PM
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>; Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>; Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
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Subject: FW: National Academy review of UAP report

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Sent: Thursday, June 10, 2021 11:54 AM
To: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
Cc: Turner, Ron **h6** >
Subject: National Academy review of UAP report

Bhavya, I enjoyed our discussion this morning. Here are some thoughts about a NASA-sponsored, National Academy-led study following the release of the UAP report.

The public is going to be very interested in following up on the findings of the UAP report after it is released to Congress. A general concern with the classified nature of the report may be a sense that the government is still "hiding something". I think there will be a natural expectation that NASA would respond in some fashion.

One possible response would be for NASA to direct the National Academies to do an independent review of the findings of the UAP report. NASA, working with the Academies, is uniquely positioned as a source of trust, imparting a healthy dose of skepticism while open to hearing from the more eager advocates. It would be a way to establish confidence in the findings and to see if there is anything in the observations that warrant further examination or could improve future observations. It would be staffed by objective academic and industry experts who could bring a critical eye to the data and the limits of the available observations.

The task statement will evolve, as the report is released and in negotiation with Congress. But some specific

DAILY REPORT 6-22-21 (draft)

From: Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>
To: Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>, Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>, Brown, Katherine M. (HQ-NA020) <katherine.m.brown@nasa.gov>, Dunbar, Brian (HQ-NA020) <brian.dunbar@nasa.gov>, Gramian, Nikki N. (HQ-NA040) <nikki.n.gramian@nasa.gov>, Hautaluoma, Grey (HQ-NA020) <grey.hautaluoma-1@nasa.gov>, HQ-DL-news-chiefs <news-chiefs@lists.hq.nasa.gov>, Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>, Stephenson, Johnny F. (MSFC-NA000) <johnny.f.stephenson@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, NORTHON, KAREN M. (HQ-NA020) <karen.northon@nasa.gov>, Odom, Brian C. (MSFC-CS20) <brian.c.odom@nasa.gov>, Potter, Sean (HQ-NA020) <sean.potter@nasa.gov>, Steele, Cindy (HQ-NA001) <cindy.steele-1@nasa.gov>, Wilson, Jim (HQ-NA020) <jim.wilson@nasa.gov>, Hill, Aubree N. (HQ-NA020) <aubree.hill@nasa.gov>, Greene, Tylar J. (HQ-NA020) <tylar.j.greene@nasa.gov>, Bielling, Patricia A. (KSC-PXC00) <patricia.a.bielling@nasa.gov>, Witt, Monica J. (HQ-NA020) <monica.j.witt@nasa.gov>, Kamlet, Matthew R. (AFRC-111) <matthew.r.kamlet@nasa.gov>, Vinas Garcia, Maria-jose (GSFC-606.4)[TELOPHASE CORP] <maria-jose.vinasgarcia@nasa.gov>, Johnson, Alana R. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS] <alana.r.johnson@nasa.gov>, Landau, Elizabeth R (HQ-1864)[ASRC FEDERAL SYSTEM SOLUTIONS] <elizabeth.r.landau@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Hunter, Reagan A. (HQ-VA000) <reagan.a.hunter@nasa.gov>, Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>, Gulley, Bryan F. (HQ-NA000) <bryan.f.gulley@nasa.gov>
Sent: June 21, 2021 6:41:36 PM EDT
Received: June 21, 2021 6:41:51 PM EDT
Attachments: DAILY REPORT 06-22-2021.docx

All – attached and below, please find the draft Communications Daily Report, detailing scheduled activities and content for Tuesday. Please send me any changes with Rob and Sean copied. Thank you!

NASA Communications Daily Report

Tuesday, June 22

Activities

-12:30 to 1:30 pm – NBC interview on NASA's search for life with Planetary Sciences Division Director Lori Glaze

oNBC's Tom Costello will interview Lori Glaze on NASA's ongoing work and research in the search for life beyond our own planet.

-3pm – NASA Administrator Bill Nelson live interview with Newsmax on vision for NASA

-Aviation Week interviews with Webb experts

o4:30 pm – Sandra Irish, Webb lead structures engineer; Begoña Vila, Webb instrument systems engineer; Bill Ochs, Webb project manager at Goddard; Scott Willoughby, Webb program manager at Northrop Grumman interview with Irene Klotz of Aviation Week at Northrop Grumman

o5 to 6 pm – Aviation Week interview of Webb team members Scott Willoughby and Bill Ochs

-7 to 8 pm – Virtual Tour: Space Environments Complex at Glenn

oVirtual tour followed by live Q&A with expert for registered guests. The SEC is home to the world's largest and most powerful Space Simulation Vacuum Chamber, which measures 100 ft. in diameter by 122 ft. high. It also boasts the Reverberant Acoustic Test Facility, which can simulate the noise of a spacecraft launch up to 163 decibels; and the Mechanical Vibration Facility, the world's most powerful spacecraft shaker system, which subjects test articles to the rigorous conditions of launch.

-Deutsche Welle interview with Dr. Ravi Kumar Kopparapu of Goddard for story on the UFO/UAP report.

-External Proctor & Gamble media release on NASA Space Act Agreement

-Webb Launch Readiness Exercise #4 concludes at the Space Telescope Science Institute in Baltimore

-Astronaut Jessica Meir for Emory University and Children's Healthcare of Atlanta

oResults of SpaceX's 20th Resupply Mission Research "How Growing Cardiac Stem Cells in Space Can Benefit our Cardiac Kids" in Atlanta.

-Astronaut Kate Rubins with Fox 40 Sacramento on her recent mission to the space station

NASA Television

On Air

-No new programming scheduled

NASA HQ In-Studio Shoots, Productions:

-12:30 pm – Lori Glaze interview with NBC's Tom Costello via Zoom

Social Media ActivitY

Agency

-Live coverage of Administrator Nelson's testimony before the House Science Committee on NASA's FY2022 Budget will air beginning at 10 a.m. EDT. Programming will air on NASA TV, the NASA App, nasa.gov/live and will be promoted on flagship social media accounts.

-Women@NASA posts with flagship amplification to commemorate science fiction author Octavia E. Butler's birthday. In March, NASA named the landing site of the Perseverance rover "Octavia E. Butler Landing," after the author.

Solar System and Beyond

-Flagship social media accounts will amplify posts for the Ask an Astrobiologist live show featuring Goddard scientist Heather Graham. The program will stream live at 1 p.m. EDT to the NASA Astrobiology Facebook page.

Other

-NASA Knowledge: The Golden Record in English / Johnson

HQ Products

Media Advisory

·NASA to Air Third Spacewalk to Install New Station Solar Arrays

·Northrop Grumman CRS-15 departure coverage advisory

Contract Release

·TBD –NASA Extends Cyclone Global Navigation Satellite System Mission Contract (notifications complete; held from Monday)

·4 pm – Contract Mechanical Integration Services and Technologies (MIST) II contract (held from Monday)

Center Products

Blog Post

·10 am – Artemis I LVSA Foaming and Integration / Kennedy

oBlog post on Artemis I Launch Vehicle Stage Adapter (LVSA) will be mated atop the core stage upon completion of thermal protection system (TPS) foaming.

·2 pm – Ingenuity Flight 8 Recap / JPL

oOperations lead Teddy Tzanetos recaps the flight from Sunday, June 20.

·2 pm – Rosie the Rocketeer in Starliner / Kennedy

oCommercial Crew Program image and short blog post on Rosie the Rocketeer inside the OFT-2 Starliner spacecraft with link to a longer feature by Boeing.

Image/Video

·UTM close-out image feature / Ames

oA multi-image feature marks the close-out of the Unmanned Aircraft Systems Traffic Management project, or UTM. One photo is featured from each year of testing for the four technical capability levels achieved.

Web Articles

·10 am – EPSCoR Feature / JPL

oFeature highlighting NASA's Established Program to Stimulate Competitive Research program with an overview of two of the recently funded projects.

·NASA Releases DRAFT RFP for xEVA spacesuits and services / Johnson

oNASA will release a DRAFT request for proposal for exploration extravehicular activity (xEVA) spacesuits and services, and post a web feature. NASA recently shifted its strategy for xEVA Artemis spacesuits to an industry-centered approach.

·NASA Satellites See Climate-Driven Upper Atmosphere Cooling and Shrink / Goddard

oThe sky isn't falling, but scientists have found the upper atmosphere is gradually dropping in response to rising human-produced greenhouse gas emissions. Combined data from three NASA satellites have produced the first long-term record that reveals a particular layer of the atmosphere, the mesosphere, is both cooling and shrinking.

Tabatha Tomes Thompson

Office of Communications

NASA Headquarters

300 E Street SW, Washington D.C. 20546

O: (202) 358-1052 | M: (b) (6)

Attachment

1. DAILY REPORT 06-22-2021.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 44 KB (45,799 bytes)

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 - Blog post on Artemis I Launch Vehicle Stage Adapter (LVSA) will be mated atop the core stage upon completion of thermal protection system (TPS) foaming.
- 2 pm – Ingenuity Flight 8 Recap / JPL
 - Operations lead Teddy Tzanetos recaps the flight from Sunday, June 20.
- 2 pm – Rosie the Rocketeer in Starliner / Kennedy
 - Commercial Crew Program image and short blog post on Rosie the Rocketeer inside the OFT-2 Starliner spacecraft with link to a longer feature by Boeing.

Image/Video

- UTM close-out image feature / Ames
 - A multi-image feature marks the close-out of the Unmanned Aircraft Systems Traffic Management project, or UTM. One photo is featured from each year of testing for the four technical capability levels achieved.

Web Articles

- 10 am – EPSCoR Feature / JPL
 - Feature highlighting NASA's Established Program to Stimulate Competitive Research program with an overview of two of the recently funded projects.
- NASA Releases DRAFT RFP for xEVA spacesuits and services / Johnson
 - NASA will release a DRAFT request for proposal for exploration extravehicular activity (xEVA) spacesuits and services, and post a web feature. NASA recently shifted its strategy for xEVA Artemis spacesuits to an industry-centered approach.
- NASA Satellites See Climate-Driven Upper Atmosphere Cooling and Shrink / Goddard
 - The sky isn't falling, but scientists have found the upper atmosphere is gradually dropping in response to rising human-produced greenhouse gas emissions. Combined data from three NASA satellites have produced the first long-term record that reveals a particular layer of the atmosphere, the mesosphere, is both cooling and shrinking.

New draft -- UAP talking points

From: Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Sent: June 24, 2021 12:57:26 PM EDT
Received: June 24, 2021 12:57:56 PM EDT
Attachments: Talking Points Search for Life_UAPs_v 2.docx

Chers, Marc and Jackie –

As we discussed, here is a draft of the updated talking points. Still some edits going around -- but this is close enough to final that I can share for your awareness at this point.

Thanks,

Karen

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

NASA Headquarters

Karen.fox@nasa.gov

Attachment

1. Talking Points Search for Life_UAPs_v 2.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 52 KB (53,593 bytes)

Attachment #1

Talking Points Search for Life_UAPs_v 2.docx

Original view

10 pages (displayed on pages 4 to 13)

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TP: XX-XXX

Date , 2021

SUBJECT: NASA's Interest in UAP/UFOs

BACKGROUND

Public and media interest in the topic of UAP/UFOs has seen an uptick in recent weeks following reports related to the Department of Defense's release of three unclassified U.S. Navy videos as well as an upcoming Congressional report led by Naval Intelligence on UAPs. The unclassified report is expected to be shared with Congress by Friday, June 25.

STATEMENT

One of NASA's key goals is the search for life in the universe. To date, NASA has yet to find any credible evidence of extraterrestrial life; however, NASA is exploring the solar system and beyond to help us answer fundamental questions, including whether we are alone in the universe. We lead the U.S. government's search for extraterrestrial life, be it close to home, on the planets or moons of our Solar System, or deeper into space. NASA does not actively search for UAPs and the lack of robust data is the central problem for scientific study of UAPs – there is no data to support that UAPs or UFOs are evidence of alien technologies.

KEY POINTS

- Most UAP sightings result in very limited data, usually video recordings from a single angle that can only be cross-validated with eyewitness testimony.
- The language of scientists is data. Without access to an extensive set of data, it is nearly impossible to verify or explain any observation. The lack of robust data, including the lack of access to some existing data, is the central problem for scientific study of UAPs.
- Exploring the unknown in space is at the heart of who we are. The nature of science is to better understand the unknown. Through our Earth-observing satellites, NASA collects extensive data about Earth's atmosphere, often in collaboration with the other space agencies of the world. While these data are not specifically collected to identify UAPs, they are publicly available and could be used by anyone to search our atmosphere.
- One of NASA's key goals is the search for life in the universe. Although we have yet to find signs of extraterrestrial life, NASA is exploring the solar system and beyond to help us answer fundamental questions, including whether we are alone in the universe.
- From studying water on Mars, probing promising "oceans worlds," such as Titan and Europa, to looking for biosignatures in the atmospheres of planets outside our solar system, NASA's science missions are working together with a goal to find unmistakable signs of life beyond Earth. We look for life in any form, not just intelligent life.

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- We lead the U.S. government's search for extraterrestrial life, be it close to home, on the planets or moons of our Solar System, or deeper into space. To date, NASA has yet to find any credible evidence of extraterrestrial life.
- NASA efforts include search for biosignatures (signs of biology) and technosignatures (signs of technology). Given that a planet might support life for billions of years before intelligent life evolves to create technology that can be spotted from other solar systems – our own planet has only been creating detectable technosignatures for a little over a century, for example – we have a much better chance of finding life by looking at a broad spectrum of biosignatures.

QUESTIONS AND ANSWERS

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Commented [A1]: Needs OIR review.

b5 [Redacted]

b5 [Redacted]

b5 [Redacted]

b5 [Redacted]

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ADDITIONAL INFORMATION

Exoplanet background

- An exoplanet is a planet outside our solar system. Exoplanets are too far away to visit but can be studied with space telescopes.
- So far, we've confirmed more than 4,300 exoplanets in our galaxy, which probably holds trillions. Thousands more are likely to be confirmed in the years ahead.
- About a fifth of the planets confirmed so far are in Earth's size range, some in the "habitable zone," the distance from the star that could allow liquid water on the planet's surface.
- We also know that the building blocks of life are present throughout the solar system and the cosmos, including water.
- Despite these encouraging signs, we have yet to find evidence of life anywhere but planet Earth, in our solar system or beyond. We also haven't yet found a planet like Earth orbiting a star like the Sun, with a "year" comparable to our own.
- We're now on the cusp of a potential revolution in the study of exoplanets: detecting their atmospheres and searching for chemical signatures that could indicate the presence of both microbial and more advanced or even intelligent life.
- In the near-term, the James Webb Space Telescope, and the next generation of ground-based telescopes, will be able to spread the light from a small sample of Earth-sized exoplanets into a spectrum, potentially revealing the presence of atmospheric gases.
- We'll probably begin with large, gaseous worlds unlikely to be habitable, but that will pave the way for future instruments that could look in on a small, rocky world – perhaps even one similar to our own.

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- We might see signs of oxygen, methane and carbon dioxide in such a planet's atmosphere – in other words, an atmosphere that reminds us of home.

Past Missions

Viking Project: 1 & 2

- *NASA's Viking Project was the first mission to reach the martian surface and the first to search for evidence of life on Mars. Viking was NASA's first attempt to search for life on another planet, and was thereby the **first** mission dedicated to astrobiology. The project found a place in history when it became the first U.S. mission to land a spacecraft safely on the surface of Mars and return images of the surface.*
 - Two identical spacecraft, each consisting of a lander and an orbiter, were built. Each orbiter-lander pair flew together and entered Mars orbit; the landers then separated and descended to the planet's surface.
 - The landers conducted three biology experiments designed to look for possible signs of life.
 - These experiments:
 - Discovered unexpected and enigmatic chemical activity in the Martian soil, but provided no clear evidence for the presence of living microorganisms in soil near the landing sites.
 - Taught scientists a great deal about how little we knew about life on Earth and how to detect it.
 - Continue to shape the development of life detection strategies and equipment at NASA and other international agencies.
 - NASA's Viking Project took place before NASA's Astrobiology Program was founded, but many scientists from its precursor, NASA's Exobiology Program, participated in the mission.

Kepler and K2 Mission

- *Kepler was a space observatory designed to survey a specific portion of our region of the Milky Way galaxy. An important part of Kepler's work was the identification of Earth-size planets that orbit in the habitable zone of their host star. Such observations are directly relevant to the study of life's potential in the Universe, and the search for life beyond Earth. Kepler discovered more than 2,600 exoplanets!*
- *Kepler's observations suggest that there may be nearly 2 billion potentially habitable planets in our galaxy around Sun-like stars. Not all of them may be*

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habitable, or inhabited, but the sheer number of them makes it likely that there could be life on worlds.

- Amongst the Kepler discoveries is Kepler-186f, the first validated Earth-size planet in the habitable zone of a star other than the Sun. The vast amount of data collected by Kepler will continue to be analyzed and used to help to guide the future direction of astrobiology science.
- Astrobiologists use this data to:
 - Develop new techniques for studying exoplanets in greater and greater detail.
 - Help inform future missions to characterize exoplanets and exomoons, and possibly identify signs of life by analyzing attributes of these distant worlds, such as atmospheric composition.

Current Missions

MAVEN

- *Data from MAVEN provides insight into the history of Mars' atmosphere, climate, liquid water, and planetary habitability. An important aspect of the MAVEN mission is studying how early Mars lost much of its atmosphere.*
- *This atmospheric loss may have been partially responsible for Mars' transition from a planet capable of supporting liquid surface water to the dry, desert world we know today.*
 - Astrobiologists are working with data from the MAVEN mission in order to understand how atmospheric loss led to the loss of liquid water on the surface of the planet.
 - This work is important in constraining how and when Mars lost its water and identifying periods in Mars' history when habitable environments were most likely to exist at the planet's surface.

Mars Odyssey

- *Mars Odyssey provides detailed maps of Mars that are used to determine the evolution of the Mars environment and its potential for life.*
 - Astrobiologists were directly involved in the development of the Thermal Emission Imaging System (THEMIS) instrument onboard Mars Odyssey. Visible and infrared observations by THEMIS are used to identify the distribution of minerals on Mars, allowing astrobiologists to study how the mineralogy of the planet relates to the landforms.
 - Astrobiologists also use data from Mars Odyssey to study the geochemical makeup of Mars. This information is useful for:
 - Studying the evolution of Mars' environment

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- Identifying locations that may have been habitable for life in the past
- Finding astrobiology-relevant landing sites for future Mars missions.

Mars Reconnaissance Orbiter

- *While other Mars missions have shown that water flowed across the surface in Mars' history, it remains a mystery whether water was ever around long enough to provide a habitat for life.*
 - Data from MRO:
 - Is essential to astrobiologists studying the potential for habitable environments on past and present Mars.
 - Provides invaluable data used in selecting landing sites for future Mars missions.
 - Is important in building climate models for Mars, and for use in comparative planetology studies performed by astrobiologists who study the potential habitability of exoplanets that orbit distant stars.

Mars Exploration Rovers (MER) Spirit & Opportunity

- *NASA's twin Mars Exploration Rovers, Spirit and Opportunity, were designed to last for 90 martian days, however both robotic explorers far outlasted their original missions and spent years collecting data at the surface of Mars. Spirit's sent data back for over six years, while Opportunity returned data for an incredible fifteen years.*
 - MER mission was to search for and characterize a wide range of rocks and soils that hold clues to past water activity on Mars. Studying the history of water on Mars is essential in determining whether or not the planet once supported environments that could have been habitable for life as we know it.
 - MER data has been used to identify environments that may have supported conditions suitable for life in Mars' past and will guide the future of Mars exploration for decades to come.

Mars Science Laboratory (Curiosity Rover)

- *MSL's Curiosity rover is studying whether or not Mars ever had environments capable of supporting microbial life. Data from MSL will be used to develop future missions to collect samples of the martian surface in the hopes of identifying signs of past or present life.*
 - The Curiosity rover is advancing the field of astrobiology by investigating Mars' habitability, studying its climate and geology.
 - Curiosity has provided evidence that liquid water once flowed at the surface of Mars in Gale Crater.

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- The rover also discovered a site dubbed 'Yellowknife bay,' which once supported an environment that was habitable for microbial life.

Mars 2020 Mission to Mars: Perseverance Rover

- *Mars 2020 is the next step in NASA's robotic exploration of Mars, a primary target of astrobiology research in the Solar System, and will build on the accomplishments of MSL. Many researchers supported by elements of the Astrobiology Program are involved in the design and development of the Mars 2020 mission and its scientific goals.*
 - The rover Perseverance is providing important data relevant to astrobiology research, along with a vast amount of geological information about the landing site and the planet at large that will help put the astrobiological data into context.
 - One of the mission's primary goals is to explore the geology of Jezero Crater in order to assess past habitability.
 - Jezero Crater is a geologically rich terrain, with many features and minerals formed by water that may date back as far as 3.6 billion years ago.
 - Studying the geology and mineralogy of this site will provide a window into the planet's climate history, and allows astrobiologists to determine if sites like these were persistent habitable environments that could have supported life in the past.
 - Perseverance will not be looking for organisms living on Mars today. However, the rover is collecting data that could be used to identify biosignatures of ancient microbial life.
 - Previous missions, from Pathfinder to Curiosity, have helped astrobiologists determine that habitable environments were present on Mars in the planet's ancient past.
 - While these environments may have been habitable, we do not know if they were inhabited (i.e. if life was ever present).
 - Perseverance will be collecting a suite of samples to be returned to Earth via a Mars Sample Return mission. The return samples from another planet will allow our researchers to interrogate them with all of the sophistication and thoroughness of Earth-based instrumentation, and will provide an immense opportunity to dramatically advance our scientific understanding of Mars.
 - Many of the goals for the Mars 2020 mission are directly relevant to Astrobiology. These include:
 - Determine whether life ever arose on Mars
 - Seeking signs of past life (biosignatures) in the geological record

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- Characterize the climate of Mars
- Characterize the geology of Mars

TESS Mission

- NASA's Transiting Exoplanet Survey Satellite is an all-sky survey mission that will discover thousands of exoplanets around nearby bright stars.
- TESS launched April 18, 2018 aboard a SpaceX Falcon 9 rocket.
- To date, TESS has discovered more than 120 confirmed exoplanets and more than 2,600 planet candidates
- TESS has identified, and will continue to find, exoplanets targets that Webb will study in further detail

Upcoming Missions

Dragonfly Mission to Titan

- *This revolutionary mission concept includes the capability to explore diverse locations to look for prebiotic chemical processes common on both Titan and Earth. Titan is an analog to the very early Earth, and can provide clues to how prebiotic chemistry under these conditions may have progressed.*
- *The NASA Astrobiology Program supports scientists involved at all stages of the mission. Projects supported by the program have helped to define Titan as prime target for astrobiology research in the Solar System.*
 - Analog research on Earth and comparative planetology studies in order to better understand the environment of Titan and to identify sites of astrobiological interest.
 - Development of instrumentation that can be used to perform scientific investigations at Titan.
 - Research in areas of prebiotic chemistry that inform our knowledge of organic chemistry on the moon.

Europa Clipper Mission to Europa

- *The Europa Clipper mission will place a spacecraft in orbit around Jupiter in order to perform a detailed investigation of the giant planet's moon Europa.*
 - Europa shows strong evidence for an ocean of liquid water beneath its icy crust and some astrobiologists believe that it could host conditions favorable for life.
 - Astrobiologists are involved in the definition of science goals for Europa Clipper and the design of scientific instruments for the mission.

James Webb Space Telescope (Webb)

- *Webb will be the premier space-based observatory of the next decade. Webb is a large infrared telescope with a 6.5-meter primary mirror. Data from Webb will be used to study the formation and evolution of habitable worlds, and will be*

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invaluable in understanding processes that have shaped habitability in our own Solar System.

- *Webb will be capable of making detailed observations that might allow astrobiologists to identify some potential signatures of life on Earth-like planets beyond our Solar System.*
 - Webb observations will be used to study:
 - Every phase in the history of the Universe, including the evolution of the Solar System
 - The formation of distant solar systems capable of supporting life on Earth-like exoplanets.
 - Observe the formation of stars from the first stages to the formation of planetary systems
 - Measure the physical and chemical properties of planetary systems and investigate the potential for life in those systems

PAOs:

- HQ: Alana Johnson, alana.r.johnson@nasa.gov / 202-358-1501
- HQ: Karen Fox, karen.fox@nasa.gov/301-286-6284
- HQ: Liz Landau, elizabeth.r.landau@nasa.gov

Concurrences:

- HQ: Mary Voytek, Senior Scientist for NASA Astrobiology
- HQ: Lori Glaze, Planetary Science Division director
- HQ: Michael New, Deputy AA for Research, Science Mission Directorate
- HQ: Eric Smith, JWST Program Scientist

Fwd: UAP report is out

From: Etkind, Marc R. (HQ-NA000) </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CB6EE6FC64104561BE6805548BB21326-ETKIND, MAR>
To: Massey, Natalie (HQ-AB000) <natalie.massey@nasa.gov>
Sent: June 25, 2021 6:09:51 PM EDT
Received: June 25, 2021 6:09:52 PM EDT

Begin Forwarded Message:

From: "Fox, Karen C. (HQ-1300)" <karen.c.fox@nasa.gov>
Subject: UAP report is out
Date: 25 June 2021 17:17
To: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "McGuinness, Jackie (HQ-NA000)" <jackie.mcginness@nasa.gov>, "Thompson, Tabatha T. (HQ-NA020)" <tabatha.t.thompson@nasa.gov>, "Beutel, Allard (HQ-NA020)" <allard.beutel@nasa.gov>, "Jacobs, Bob (HQ-NA000)" <bob.jacobs@nasa.gov>, "Brown, Brittany A. (HQ-NA030)" <brittany.a.brown@nasa.gov>

Cheers, all—

Just letting you know that the Congressional report on UAPs is out:

<https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-20210625.pdf>
<<https://gcc02.safelinks.protection.outlook.com/?url=https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-20210625.pdf&data=04|01|marc.r.etkind@nasa.gov|5049aefc2d5f48ed495608d9381eb0ae|7005d45845be48ae8140d43da96dd17b|0|0|637602526722146401|Unknown|TWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWwiLCJXVCi6Mn0=|1000&sdata=RH/5WrwD7P5Mrhim1ImW/C2e/ltVXDmv1yOPJ059lzs=&reserved=0>>

I have not spotted a mention of NASA, and it is very focused on Earth-driven (whether natural or human-made) reasons for such phenomena.

We're still poised for media inquiries -- and have also posted both a feature <<https://www.nasa.gov/feature/nasa-search-for-life-astrobiology-in-the-solar-system-and-beyond>> on how NASA looks for life, as well as a FAQ <<https://www.nasa.gov/feature/faq-unidentified-aerial-phenomena-uapsufos/>> on UAPs.

Thanks,

Karen

RE: UAP report is out

From: Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>
To: Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>, Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>, Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>
Sent: June 25, 2021 5:37:08 PM EDT
Received: June 25, 2021 5:37:10 PM EDT

You're all awesome. I needed to clear my cache.

From: Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>
Sent: Friday, June 25, 2021 5:27 PM
To: Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>; Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>; Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>
Subject: RE: UAP report is out

Bob, it's currently in the #2 spot on the homepage.

From: Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>
Sent: Friday, June 25, 2021 5:25 PM
To: Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>; Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>; Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>
Subject: RE: UAP report is out

Just as the plan... probably need to get the feature to the front of NASA.gov. Maybe not toe #1 slot... guess we can chat about that, if needed... but up there. It looks great. And posted quickly! And, no, there was no mention of NASA, as expected. However, it also gives us an opportunity to talk about exactly what everyone discussed.

And you're right. There may be additional Earth science discussions, opportunities.

From: Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>
Sent: Friday, June 25, 2021 5:18 PM
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>; Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>; Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>; Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>
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[20210625.pdf&data=04|01|marc.r.etkind@nasa.gov|447c2c8b6972450c7a5f08d9382162a8|7005d45845be48ae8140d](https://gcc02.safelinks.protection.outlook.com/?url=https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-20210625.pdf&data=04|01|marc.r.etkind@nasa.gov|447c2c8b6972450c7a5f08d9382162a8|7005d45845be48ae8140d)

RE: UAP report is out

From: Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>
To: Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>, Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>, Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>
Sent: June 25, 2021 5:26:22 PM EDT
Received: June 25, 2021 5:26:24 PM EDT
Attachments: Homepage.JPG

Hi Bob,

How does the current nasa.gov placement (#2 slot) look?

Happy to make any desired changes!

--

Brittany Brown

From: Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>
Sent: Friday, June 25, 2021 5:25 PM
To: Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>; Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>; McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>; Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>; Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>
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<https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-20210625.pdf>

<[https://gcc02.safelinks.protection.outlook.com/?url=https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-](https://gcc02.safelinks.protection.outlook.com/?url=https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-20210625.pdf&data=04|01|marc.r.etkind@nasa.gov|84b9d692874248b5644b08d9381fe198|7005d45845be48ae8140d43da96dd17b|0|637602531843054563|Unknown|TWFpbGZsb3d8eyJWIjojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJB)

[20210625.pdf&data=04|01|marc.r.etkind@nasa.gov|84b9d692874248b5644b08d9381fe198|7005d45845be48ae8140d43da96dd17b|0|637602531843054563|Unknown|TWFpbGZsb3d8eyJWIjojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJB](https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-20210625.pdf&data=04|01|marc.r.etkind@nasa.gov|84b9d692874248b5644b08d9381fe198|7005d45845be48ae8140d43da96dd17b|0|637602531843054563|Unknown|TWFpbGZsb3d8eyJWIjojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJB)

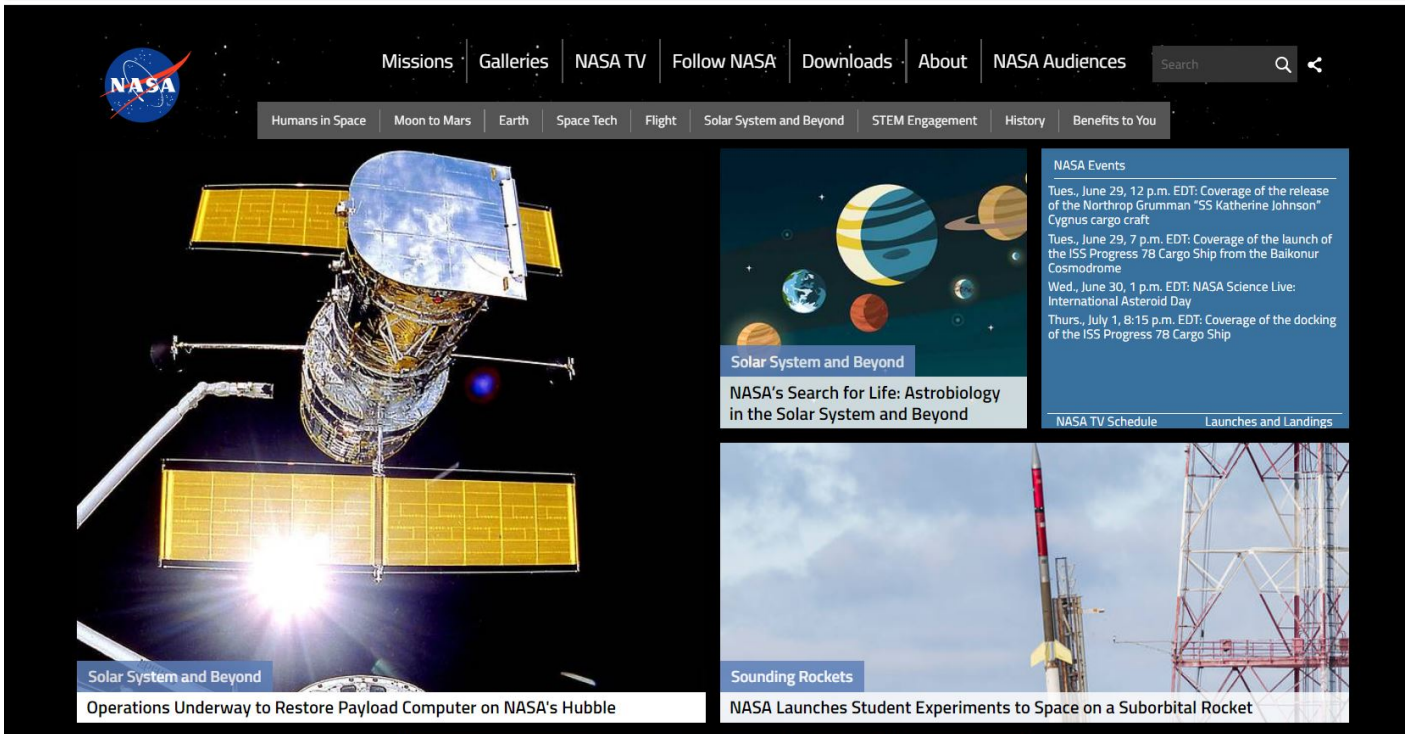
Attachment

1. Homepage.JPG

Type: image/jpeg
Size: 201 KB (206,424 bytes)

Attachment #1 Homepage.JPG Image

https://www.nasa.gov



UAP Report

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
To: Melroy, Pamela A. (HQ-AB000) <pamela.a.melroy@nasa.gov>
Sent: June 25, 2021 7:23:52 PM EDT
Received: June 25, 2021 7:23:52 PM EDT

Hi Pam

The Unclassified UAP Report was released late this afternoon and the link below.

<https://www.dni.gov/files/ODNI/documents/assessments/Preliminary-Assessment-UAP-20210625.pdf>

Marc Etkind

Associate Administrator, Communications

NASA Headquarters

Re: UAP Report

From: Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>
Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
Sent: June 25, 2021 3:57:07 PM EDT
Received: June 25, 2021 3:57:08 PM EDT

Ok. Using the time to reread the report.

Bhavya Lal, Ph.D.

(b) (6)

On: 25 June 2021 15:33, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

And looking like 430.

On: 25 June 2021 12:32, "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov> wrote:

Thanks Randy. Adding Bhavya to see if she can join.

On: 25 June 2021 12:21, "Cruz, Randy C. (HQ-AA000)[Affiliate]" <randy.c.cruz@nasa.gov> wrote:

Scheduled the 6th floor SCIF at 4:15 with the Administrator and Margaret Kieffer to answer any questions he has.

Randy

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: Friday, June 25, 2021 10:30 AM
To: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>; Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>
Subject: Re: UAP Report

Will find a time to call you. In the next hour.

On: 25 June 2021 10:21, "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov> wrote:

Hey Randy - if possible, would you mind providing some details before 11:30am? Nelson is doing a Washington Post interview at noon and it would be helpful for him to have a clearer understanding ahead of that.

Thank you!

Get Outlook for iOS

<<https://gcc02.safelinks.protection.outlook.com/?url=https://aka.ms/o0ukef&data=04|01|marc.r.etkind@nasa.gov|f71511513e50427eebcd08d938136970|7005d45845be48ae8140d43da96dd17b|0|0|637602478282234391|Unknown|TWFPbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQljojV2luMzliLCJBTiI6Ik1haWwiLCJXVCI6Mn0=|1000&sdata=NhFVeadrOZ3XrKtAy7CIWSMvtVq1uRSpiiRxPYWP1Xg=&reserved=0>>

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>

Sent: Friday, June 25, 2021 10:09:18 AM

To: Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>

Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>

Subject: UAP Report

Hi Randy. With the UAP report coming out today, the Administrator would like some background on NASA involvement in the report. I understand our involvement was minimal and that this is a DOD report. That said. Any chance I can get some quick facts we can give him, including timing of our input and areas of discussion. Lmk if phone is easier. Thanks.

RE: UAP Report

From: Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>
To: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: June 25, 2021 10:17:38 AM EDT
Received: June 25, 2021 10:17:39 AM EDT

(b) (6)

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: Friday, June 25, 2021 10:17 AM
To: Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>
Subject: Re: UAP Report

Sorry misspoke. Wasn't the administrator who asked. I'm traveling today. Can I call you. Lmk the number.

On: 25 June 2021 10:11, "Cruz, Randy C. (HQ-AA000)[Affiliate]" <randy.c.cruz@nasa.gov> wrote:

I'm in. Shall I come down to your office?

Vr,

Randy

From: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>
Sent: Friday, June 25, 2021 10:09 AM
To: Cruz, Randy C. (HQ-AA000)[Affiliate] <randy.c.cruz@nasa.gov>
Cc: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
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Re: USA TODAY request: Response to Congressional UFO report

From: McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>
To: Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>
Cc: Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, Handal, Joshua A. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS] <joshua.a.handal@nasa.gov>
Sent: June 28, 2021 2:08:31 PM EDT
Received: June 28, 2021 2:08:32 PM EDT

Hi Karen – Thank you for checking in. We're going to tap out of the UAP stories for now, so Ravi is good to take it!

Best,
Jackie

From: "Fox, Karen C. (HQ-1300)" <karen.c.fox@nasa.gov>
Date: Monday, June 28, 2021 at 2:07 PM
To: "McGuinness, Jackie (HQ-NA000)" <jackie.mcguinness@nasa.gov>
Cc: "Etkind, Marc R. (HQ-NA000)" <marc.r.etkind@nasa.gov>, "Handal, Joshua A. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS]" <joshua.a.handal@nasa.gov>
Subject: FW: USA TODAY request: Response to Congressional UFO report

Cheers, Jackie –

USA Today has reached out to Ravi K. about Friday's UAP report. Goddard is asking USA Today for more info about the scope and to let them know that regardless it's not NASA's job to comment on the report -- but we can certainly share information about what NASA does to search for life (and that we would need a lot more good data to study UAPs and that so far there's no evidence that they are extraterrestrial).

Regardless, is this an interview that the Administrator would like to take? Or leave it with Ravi?

Thanks,

Karen

--

Karen C. Fox

Senior Science Communications Officer

Office of Communications

From: "Shekhtman, Lonnie (GSFC-690.0)[ADNET SYSTEMS INC]" <lonnie.shekhtman@nasa.gov>
Date: Monday, June 28, 2021 at 12:48 PM
To: "Fox, Karen C. (HQ-1300)" <karen.c.fox@nasa.gov>
Cc: "Hautaluoma, Grey (HQ-NA020)" <grey.hautaluoma-1@nasa.gov>, "Gutro, Rob (GSFC-1300)" <robert.j.gutro@nasa.gov>, "Jones, Nancy N. (GSFC-1300)" <nancy.n.jones@nasa.gov>
Subject: USA TODAY request: Response to Congressional UFO report

Hi team,

Should we do USA Today or does HQ want it?

Lonnie

--

Lonnie Shekhtman
Senior Science Writer

Solar System Exploration

NASA's Goddard Space Flight Center

(b) (6)

----- Forwarded message -----

From: Kopparapu, Ravi Kumar (GSFC-6990) <ravikumar.kopparapu@nasa.gov>

Date: Mon, Jun 28, 2021, 12:37 PM

Subject: Re: [EXTERNAL] USA TODAY request: Response to Congressional UFO report

To: Barnes, Dustin <(b) (6)>

Cc: Lonnie Shekhtman <lonnie.shekhtman@gmail.com>, Gran, Rani C. (GSFC-1300) <rani.c.gran@nasa.gov>

Hi Dustin,

I am copying our Public Affairs Office representatives, Lonnie Shekhtman and Rani Gran to co-ordinate. I am available until 5pm today.

Best

Ravi

From: "Barnes, Dustin" <(b) (6)>

Date: Monday, June 28, 2021 at 12:33 PM

To: "Kopparapu, Ravi Kumar (GSFC-6990)" <ravikumar.kopparapu@nasa.gov>

Subject: [EXTERNAL] USA TODAY request: Response to Congressional UFO report

Good afternoon, Dr. Kopparapu,

I'm a reporter with USA TODAY and am working on a follow up story on the release of the congressional UFO report last Friday.

I wanted to reach out to see if you could talk with me about your perspective on the unclassified findings that were released. If so, I'd love to set up an interview with you over the phone today, or if you prefer, I could send over some questions via email.

Thank you for your time, and I hope to talk soon.

Dustin Barnes

NOW Reporter

h6

(b) (6)

----- Forwarded message -----

From: Kopparapu, Ravi Kumar (GSFC-6990) <ravikumar.kopparapu@nasa.gov>

Date: Mon, Jun 28, 2021, 12:37 PM

Subject: Re: [EXTERNAL] USA TODAY request: Response to Congressional UFO report

To: Barnes, Dustin <(b) (6)>

Cc: Lonnie Shekhtman <lonnie.shekhtman@gmail.com>, Gran, Rani C. (GSFC-1300) <rani.c.gran@nasa.gov>

Hi Dustin,

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Ravi

From: "Barnes, Dustin" <(b) (6)>

Date: Monday, June 28, 2021 at 12:33 PM

To: "Kopparapu, Ravi Kumar (GSFC-6990)" <ravikumar.kopparapu@nasa.gov>

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Thank you for your time, and I hope to talk soon.

Dustin Barnes

NOW Reporter

b6

(b) (6)

DAILY REPORT 6-29-21 (draft)

From: Thompson, Tabatha T. (HQ-NA020) <tabatha.t.thompson@nasa.gov>
To: Beutel, Allard (HQ-NA020) <allard.beutel@nasa.gov>, Brown, Brittany A. (HQ-NA030) <brittany.a.brown@nasa.gov>, Brown, Katherine M. (HQ-NA020) <katherine.m.brown@nasa.gov>, Dunbar, Brian (HQ-NA020) <brian.dunbar@nasa.gov>, Gramian, Nikki N. (HQ-NA040) <nikki.n.gramian@nasa.gov>, Hautaluoma, Grey (HQ-NA020) <grey.hautaluoma-1@nasa.gov>, HQ-DL-news-chiefs <news-chiefs@lists.hq.nasa.gov>, Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>, Stephenson, Johnny F. (MSFC-NA000) <johnny.f.stephenson@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, NORTHON, KAREN M. (HQ-NA020) <karen.northon@nasa.gov>, Odom, Brian C. (MSFC-CS20) <brian.c.odom@nasa.gov>, Potter, Sean (HQ-NA020) <sean.potter@nasa.gov>, Steele, Cindy (HQ-NA001) <cindy.steele-1@nasa.gov>, Wilson, Jim (HQ-NA020) <jim.wilson@nasa.gov>, Hill, Aubree N. (HQ-NA020) <aubree.hill@nasa.gov>, Greene, Tylar J. (HQ-NA020) <tylar.j.greene@nasa.gov>, Bielling, Patricia A. (KSC-PXC00) <patricia.a.bielling@nasa.gov>, Witt, Monica J. (HQ-NA020) <monica.j.witt@nasa.gov>, Kamlet, Matthew R. (AFRC-111) <matthew.r.kamlet@nasa.gov>, Vinas Garcia, Maria-jose (GSFC-606.4)[TELOPHASE CORP] <maria-jose.vinasgarcia@nasa.gov>, Johnson, Alana R. (HQ-DG000)[ASRC FEDERAL SYSTEM SOLUTIONS] <alana.r.johnson@nasa.gov>, Landau, Elizabeth R (HQ-1864)[ASRC FEDERAL SYSTEM SOLUTIONS] <elizabeth.r.landau@nasa.gov>, McGuinness, Jackie (HQ-NA000) <jackie.mcguinness@nasa.gov>, Hunter, Reagan A. (HQ-VA000) <reagan.a.hunter@nasa.gov>, Fox, Karen C. (HQ-1300) <karen.c.fox@nasa.gov>, Gulley, Bryan F. (HQ-NA000) <bryan.f.gulley@nasa.gov>
Sent: June 28, 2021 7:13:47 PM EDT
Received: June 28, 2021 7:14:05 PM EDT
Attachments: DAILY REPORT 06-29-2021.docx

All –

Attached and below, please find the draft Communications Daily Report for Tuesday, June 29, detailing scheduled activities and events. Please send any changes to Sean, Rob, and me. Thanks.

Tabatha

NASA Communications Daily Report

Tuesday, June 29

Activities

-9 am – Sen. Nelson at Best Places to Work Event

-10:30 am – Sen. Nelson Interview with Bloomberg TV on commercialization

-10:30 to 11 am – Phil McAlister, director of commercial spaceflight development, interview with AP's Marcia Dunn about the agency's efforts to grow a strong low-Earth orbit economy

-11 am – Sen. Nelson records NASA Science Live video for Asteroid Day and KSC Indian River Bridge video

-11 am to 1 pm – Kathy Lueders Artemis update to National Academy of Engineering

-12:25 pm – Northrop Grumman CRS-15 Cygnus departure from International Space Station; live coverage on NASA TV begins at 12 pm.

·2:00 pm – Sen. Nelson Interview with Discovery on UAP report

·7:27 pm – Progress 78 launch from Baikonur Cosmodrome in Kazakhstan; live coverage on NASA TV begins at 7 pm

·Astronaut Mike Barratt for 16th Annual Space Life Sciences Summer Institute in Houston

·Launch of SpaceX Transporter-2 with NASA CubeSats

oSpaceX Transporter-2 rideshare mission will launch from Cape Canaveral Space Force Station in Florida. Includes the TROPICS pathfinder CubeSat, as well as two technology demonstration missions – PACE-1, and TILE-3, that will fly on CubeSat platforms.

·Webb presentations at the European Astronomical Society

·Anniversary: Launch of first nuclear powered satellite (Transit 4A) (1961)

Social Media Activity

Agency

·Pride Month – New edition of Faces of NASA web feature released for Pride month.

Humans in Space

·Live coverage of the release of the Northrop Grumman “SS Katherine Johnson” Cygnus Cargo Craft from the International Space Station is scheduled for release at 12:25 pm. Coverage will be airing on NASA TV, the NASA App, nasa.gov/live and NASA flagship social media accounts.

·Live coverage of the launch of the ISS Progress 78 Cargo Ship to the International Space Station from the Baikonur Cosmodrome in Kazakhstan launch scheduled for 7:27 pm, airing on NASA TV, the NASA App, and nasa.gov/live.

Moon to Mars

·Flagship social media accounts will share communications products for the conclusion of the Purposeful Passengers – Name the Artemis Moonikin Challenge. Products include a news release and a Tumblr post.

Space Tech

·Flagship will amplify Space Tech social media products surrounding the newest edition of NASA’s Software catalog.

NASA Television

On Air

·12 pm – Coverage of the Release of the Northrop Grumman “SS Katherine Johnson” Cygnus Cargo Craft from the International Space Station (release scheduled at 12:25 p.m. EDT)

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In Production

·10:30 am – Sen. Nelson interview with Bloomberg

·11 am – Record Teleprompter Message for NASA Science Live

·11:15 am – Record Teleprompter Message for Indian River Bridge Award

·2 pm – Sen. Nelson interview with Discovery

HQ Products

Release

·Available for Download, NASA Software Benefits Earth

oNASA's computational innovations are readily available for applications beyond space, including benefiting our home planet. The agency's latest software catalog has dozens of new codes available for free download.

·Public Names 'Moonikin' Flying Around Moon on NASA's Artemis I Mission

Web Article

·9 am – After 60 Years, Nuclear Power for Spaceflight is Still Tried and True

oSix decades after the launch of the first nuclear-powered space mission, Transit IV-A, NASA is embarking on a bold future of human exploration and scientific discovery. This future builds on a proud history of safely launching and operating nuclear-powered missions in space.

·11 am – Abnormally High Alcohol, Mystery Heat Source Detected on Comet Wirtanen

oA study using Keck Observatory data finds that Comet 46P/Wirtanen was releasing an unusual amount of alcohol as it made its historic flyby of Earth two and a half years ago.

·12 pm – Black Holes Make Tsunamis in Computer Simulations

Center Products

Image / Video

·11:30 – Surface Water and Ocean Topography Spacecraft Arrives in France / JPL

oThe Surface Water and Ocean Topography (SWOT) spacecraft will help researchers understand and track the volume and location of water around the world, making NASA's first truly global survey of the planet's surface water. Set for launch in 2022, it recently moved from the assembly facility at JPL to a facility in France. The short image feature is coordinated with one from CNES.

Web Articles

·11 am – Scientists Closer to Explaining Mars Methane Mystery / Goddard

oScientists closer to settling the question: Why do some instruments detect methane on Mars while others don't?

·12 pm – Evergreen story about PACE series of CubeSat missions / Ames (held from Monday)

oEvergreen webpage about the Payload Accelerator for CubeSat Endeavors, or PACE, initiative's series of missions. The timing of the feature is tied to the launch of the first mission, PACE-1, on SpaceX's Transporter-2 rideshare mission.

·[TENTATIVE] 3:30 pm – NASA Launches First of Six Tiny Satellites to Keep a Near-constant Eye / Goddard

oNASA launched a test satellite or Pathfinder, ahead of a constellation of six small satellites that will work together to provide near hourly updates of hurricanes and tropical cyclones. Also tied to Transporter-2 rideshare launch.

·Endowing Satellite Swarms With a Hive Mind / Goddard

oUsing machine learning, swarms of SmallSats buzzing around Earth could coordinate amongst themselves to collect data on important weather patterns at different times of the day or year, and from multiple angles. Such swarms could revolutionize scientists' understanding of weather and climate changes.

·NASA Satellites See Climate-Driven Upper Atmosphere Cooling and Shrink / Goddard

oThe sky isn't falling, but scientists have found the upper atmosphere is gradually dropping in response to rising human-produced greenhouse gas emissions. Combined data from three NASA satellites have produced the first long-term record that reveals a particular layer of the atmosphere, the mesosphere, is both cooling and shrinking.

Tabatha Tomes Thompson

Office of Communications

NASA Headquarters

300 E Street SW, Washington D.C. 20546

O: (202) 358-1052 | M: (b) (6)

Attachment

1. DAILY REPORT 06-29-2021.docx

Type: application/vnd.openxmlformats-officedocument.wordprocessingml.document
Size: 44 KB (45,882 bytes)

Attachment #1

DAILY REPORT 06-29-2021.docx

Original view

3 pages (displayed on pages 7 to 9)

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CENTER PRODUCTS

Image / Video

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OIIR Weekly Update

From: Feldstein, Karen C. (HQ-TA000) <karen.c.feldstein@nasa.gov>
To: Cabana, Robert D. {HQ-Associate Administrator} (KSC-AI000) <robert.d.cabana@nasa.gov>
Cc: Melroy, Pamela A. (HQ-AB000) <pamela.a.melroy@nasa.gov>, Saunders, Melanie (HQ-AA000) <melanie.saunders-1@nasa.gov>, Quinn, Susie Perez (HQ-AH000) <susie.p.quinn@nasa.gov>, Dalton, Bale (HQ-AH000) <bale.dalton@nasa.gov>, Lal, Bhavya (HQ-AA000) <bhavya.lal@nasa.gov>, Cremins, Tom (HQ-AJ000) <tom.cremins-1@nasa.gov>, Etkind, Marc R. (HQ-NA000) <marc.r.etkind@nasa.gov>, Stephenson, Johnny F. (MSFC-NA000) <johnny.f.stephenson@nasa.gov>, Jacobs, Bob (HQ-NA000) <bob.jacobs@nasa.gov>, Kerwin, Mary D. (HQ-IA000) <mary.d.kerwin@nasa.gov>, Brown, Alicia N. (HQ-VA000) <alicia.n.brown@nasa.gov>, Flaherty, Christopher J. (HQ-VA030) <christopher.j.flaherty@nasa.gov>, Zurbuchen, Thomas H. (HQ-DA000) <thomas.h.zurbuchen@nasa.gov>, Lueders, Kathryn L. (KSC-CA000) <kathryn.l.lueders@nasa.gov>, McKay, Meredith (HQ-TA000) <meredith.mckay@nasa.gov>, Swails, Casey L. (HQ-LE030) <casey.l.swails@nasa.gov>
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Bob,

Below is a list of top-level, OIIR-supported activities of interest this week and some upcoming activities:

Public Meeting on NASA's Proposal to Withdrawal Land from Railroad Valley (RRV), Nevada: On July 19, NASA will participate in a virtual public meeting with an official from the Department of Interior's Bureau of Land Management to provide an overview of, and hear public comments regarding, NASA's request to withdraw nearly 23,000 acres of land from public use in RRV. NASA initiated the withdrawal application to preserve this land for satellite calibration activities. RRV is the best vicarious calibration site in the U.S. and one of the best in the world for Earth observing satellites because it has ideal and stable land characteristics, is well-instrumented, and can be relatively easily accessed by scientists. Representatives from SMD, OComm, and OIIR will attend.

ISS Multilateral Coordination Board (MCB): On July 19, HEOMD AA Lueders will chair the ISS MCB, the highest-level governing board of the program, with her counterparts from the Canadian Space Agency (CSA), Roscosmos, the European Space Agency (ESA), and Japan's Ministry of Education, Culture, Sports, Science and Technology (MEXT).

Norms of Behavior for National Security Space Activities: On July 20, the National Security Council (NSC) will kick off a series of biweekly Sub-Interagency Policy Committee (Sub-IPC) meetings to develop norms of behavior for national security space activities. The principal participants are DOD, the State Department, and the Intelligence Community. Civil departments and agencies are being included for awareness. OIIR will support.

NASA Annual Export Control Program Review: On July 20, the Deputy Administrator will provide welcoming remarks at this OIIR-sponsored agencywide event for 75 NASA civil servants and contractors responsible for assuring agency compliance with U.S. export control regulations. The Deputy Administrator's participation will reinforce the critical importance of protecting the nation's sensitive technologies.

NSC Restricted IPC meeting: On July 21, the NSC will hold the 2nd in a series of weekly in-person restricted IPC meetings to continue the development of strategic messaging and a diplomatic plan for Department of Defense space activities. OIIR will support.

Climate presentation at Japan event: On July 21, NASA Senior Climate Advisor (acting) Dr. Gavin Schmidt will provide a presentation on "NASA's Cooperation in Addressing the Climate Challenge" to a Japan Aerospace Exploration

Agency (JAXA)-hosted virtual event.

Launch of Russia's Nauka Multipurpose Laboratory Module (MLM) to ISS: On July 21, Roscosmos is scheduled to launch the Nauka MLM to ISS from Baikonur, Kazakhstan, on a Proton-M rocket. The Nauka MLM includes a robotic arm provided by the European Space Agency. NASA's Director of Human Space Flight Programs in Russia, Tricia Mack, traveled from Moscow to Baikonur for launch.

Potential Visit by Spain Prime Minister to JPL: On July 22, the mayor of Los Angeles, Eric Garcetti, is scheduled to host the Prime Minister of Spain, Pedro Sanchez, for a meeting and brief tour at JPL. The visit isn't yet confirmed.

Chief Scientist Lecture at Oxford: On July 23, NASA Chief Scientist Dr. Jim Green will give a virtual lecture at the University of Oxford's St. Cross College Center for the History and Philosophy of Physics on "The Future of Space Activities and Preservation on Mars."

Upcoming Activities

July 2021

July 27-Aug 1

Zurbuchen travel to Kourou, French Guiana for Ariane 5 launch

July TBD

Administrator meeting with SBA Administrator

August 2021

Aug 4-5

ISS Advisory Committee joint meeting with Roscosmos Advisory Expert Council (virtual)

Aug 4-5 (proposed)

Administrator meeting with President, Japan Aerospace Exploration Agency (JAXA) President

Aug 5

Administrator Nelson meeting with Director, National Reconnaissance Office (NRO)

August 17

Briefing on Task Force Report on Unidentified Aerial Phenomena

Aug 18

Administrator Nelson meeting with NOAA Administrator

Aug 22-26

36th Space Symposium, Colorado Springs

Aug 25-Sep 3

UN Committee on the Peaceful Uses of Outer Space (COPUOS)

Aug 29-Sep 4

SMD AA Zurbuchen travel to Europe for meetings with CNES and ESA and remarks at the Swiss Economic Forum

Please let me know if you have any questions or would like additional information.

Regards,

Karen

Karen C. Feldstein

Associate Administrator for

International and Interagency Relations

NASA Headquarters

300 E St SW, Washington DC 20546

Tel: (202) 358-0400

Mobile: (b) (6)