

# Weekly Science Report

June 28, 2024

**“To the stars through hardship. Which could also mean that the stars could deliver us from anything. That in the mysteries and vastness of space, we might not just satisfy our curiosity, our need for exploration. But in it we might each find salvation.”**

Star Trek: Strange New Worlds

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## Introduction

Steve Detwiler created this publication with the support of Graham Hancock and the late John Anthony West to share news and information on various disciplines to include but not limited to paleontology, space sciences, genetics, and archaeology. His goal behind sharing this publication has always been very simple, by sharing knowledge we can make our world a better place. This publication is Mr. Detwiler's contribution to bring people together and share ideas and discoveries with his fellow humans.

I hope you enjoy this publication and that the content challenges and inspires you!

The Weekly Science Report is also on social media at:

- Facebook: <https://www.facebook.com/weeklysciencertpt/>
- Twitter: <https://twitter.com/wklysciencertpt>

## News Articles

### Paleontology, Evolution and Prehistoric Studies

Fossil of Neanderthal child with Down's syndrome hints at early humans' compassion

[https://www.theguardian.com/science/article/2024/jun/26/fossil-of-neanderthal-child-with-downs-syndrome-hints-at-early-humans-compassion?CMP=fb\\_gu&utm\\_medium=Social&utm\\_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0W-BzfixrLCfvL6co\\_Pp5uRAqZFEG4PzoEsFwG6Tu2dqB3DVFxA2QUcw8\\_aem\\_9rXMZy9kb4mDNwygwJ7L7g#Echobox=1719497103](https://www.theguardian.com/science/article/2024/jun/26/fossil-of-neanderthal-child-with-downs-syndrome-hints-at-early-humans-compassion?CMP=fb_gu&utm_medium=Social&utm_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0W-BzfixrLCfvL6co_Pp5uRAqZFEG4PzoEsFwG6Tu2dqB3DVFxA2QUcw8_aem_9rXMZy9kb4mDNwygwJ7L7g#Echobox=1719497103)

A new look at Ötzi the Iceman's DNA reveals new ancestry and other surprises

[https://www.sciencenews.org/article/new-otzi-iceman-dna-ancestry-genome?fbclid=IwZXh0bgNhZW0CMTEAAR0PWFcnPxxwztzQ2QexL7beFUUAeUeeK5E5ZhbijrhGXgNDBWUZER3PdJSA\\_aem\\_48qiHya8PhfbzKalkaUBRQ](https://www.sciencenews.org/article/new-otzi-iceman-dna-ancestry-genome?fbclid=IwZXh0bgNhZW0CMTEAAR0PWFcnPxxwztzQ2QexL7beFUUAeUeeK5E5ZhbijrhGXgNDBWUZER3PdJSA_aem_48qiHya8PhfbzKalkaUBRQ)

The last woolly mammoths offer new clues to why the species went extinct

[https://www.sciencenews.org/article/last-woolly-mammoths-species-extinct?fbclid=IwZXh0bgNhZW0CMTEAAR0XVKEpQAHCYyUvXKaZw4qYOhI5ZFbBCQMzlyICL0lo12pSbz\\_Ai6IBJUY\\_aem\\_Po4ov\\_KUJekJxdOWCzbmA](https://www.sciencenews.org/article/last-woolly-mammoths-species-extinct?fbclid=IwZXh0bgNhZW0CMTEAAR0XVKEpQAHCYyUvXKaZw4qYOhI5ZFbBCQMzlyICL0lo12pSbz_Ai6IBJUY_aem_Po4ov_KUJekJxdOWCzbmA)

Human ancestor 'Lucy' was hairless, new research suggests. Here's why that matters.

[https://www.livescience.com/planet-earth/evolution/human-ancestor-lucy-was-a-naked-ape-new-research-suggests-heres-why-that-matters?utm\\_medium=social&utm\\_campaign=socialflow&utm\\_content=livescience&utm\\_source=facebook.com&fbclid=IwZXh0bgNhZW0CMTEAAR34LKscjzhicVomn8QXO7mG1XJ8PEmwFgWq1TIqoAU0TcxhROgUbQlzsTI\\_aem\\_j2mh0c-qbxGXTcMFTY-1pg](https://www.livescience.com/planet-earth/evolution/human-ancestor-lucy-was-a-naked-ape-new-research-suggests-heres-why-that-matters?utm_medium=social&utm_campaign=socialflow&utm_content=livescience&utm_source=facebook.com&fbclid=IwZXh0bgNhZW0CMTEAAR34LKscjzhicVomn8QXO7mG1XJ8PEmwFgWq1TIqoAU0TcxhROgUbQlzsTI_aem_j2mh0c-qbxGXTcMFTY-1pg)

World's oldest stone needles unearthed on Tibetan Plateau

[https://www.science.org/content/article/world-s-oldest-stone-needles-unearthed-tibetan-plateau?utm\\_campaign=SciMag&utm\\_source=Facebook&utm\\_medium=ownedSocial&fbclid=IwZXh0bgNhZW0CMTEAAR1Td-2rldrEk2jCI5J7UoD6Q74WeXMWxb3ZwiZ4NBggoT1CEShMMLq5ua8\\_aem\\_S-1DLLOzvcqt1KmMVc42bA](https://www.science.org/content/article/world-s-oldest-stone-needles-unearthed-tibetan-plateau?utm_campaign=SciMag&utm_source=Facebook&utm_medium=ownedSocial&fbclid=IwZXh0bgNhZW0CMTEAAR1Td-2rldrEk2jCI5J7UoD6Q74WeXMWxb3ZwiZ4NBggoT1CEShMMLq5ua8_aem_S-1DLLOzvcqt1KmMVc42bA)

NEOLITHIC COMMUNITY IN SWITZERLAND MAY HAVE BEEN EGALITARIAN

<https://archaeology.org/news/2023/10/06/neolithic-community-in-switzerland-may-have-been-egalitarian/>

When did humans start wearing clothes?

<https://www.livescience.com/archaeology/when-did-humans-start-wearing-clothes>

## History

This Apache rite of passage was once banned. Today, it helps empower girls.

[https://www.csmonitor.com/The-Culture/2024/0625/apache-mescalero-ceremony-girls-adulthood?utm\\_term=Autofeed&utm\\_medium=Social&cmpid=FB&utm\\_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0OtPdWHSbZIAJH384IKJ8ZjEXWAI\\_CmT8Lfh9qF4Yar1jsQwTISgPohlM\\_aem\\_uD5WHvMjBpij8AonbTNHpg#Echobox=1719331531](https://www.csmonitor.com/The-Culture/2024/0625/apache-mescalero-ceremony-girls-adulthood?utm_term=Autofeed&utm_medium=Social&cmpid=FB&utm_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0OtPdWHSbZIAJH384IKJ8ZjEXWAI_CmT8Lfh9qF4Yar1jsQwTISgPohlM_aem_uD5WHvMjBpij8AonbTNHpg#Echobox=1719331531)

Has the Mystery of the 'Mona Lisa' Background Been Solved?

[https://www.smithsonianmag.com/smart-news/mona-lisa-background-mystery-180984377/?utm\\_medium=email&utm\\_content=DF-bpskdwLAeVr-aEELSVw3lr4Le81oHC0-itve7wj5tYnWfKS3FYD4IL2ROKn\\_U](https://www.smithsonianmag.com/smart-news/mona-lisa-background-mystery-180984377/?utm_medium=email&utm_content=DF-bpskdwLAeVr-aEELSVw3lr4Le81oHC0-itve7wj5tYnWfKS3FYD4IL2ROKn_U)

DNA suggests ancient Celtic royalty was matrilineal

[https://www.popsci.com/science/celtic-burial-gender/?fbclid=IwZXh0bgNhZW0CMTEAAR3tYGRx13oHARQXumf7zF9mT3XO01\\_zyb\\_qw1p6Shq03VLPdPWzLsgOW8\\_aem\\_9m\\_ZosxYKBn6i4VBURRYhw&sfnsn=mo](https://www.popsci.com/science/celtic-burial-gender/?fbclid=IwZXh0bgNhZW0CMTEAAR3tYGRx13oHARQXumf7zF9mT3XO01_zyb_qw1p6Shq03VLPdPWzLsgOW8_aem_9m_ZosxYKBn6i4VBURRYhw&sfnsn=mo)

Study challenges popular idea that Easter islanders committed 'ecocide'

[https://phys.org/news/2024-06-popular-idea-easter-islanders-committed.html?fbclid=IwZXh0bgNhZW0CMTEAAR3WbSJVgvw8UXCjggPP-M8C6zyi5jiTk\\_6RBKHmAVbtS00jycXEQ3Ij6hw\\_aem\\_55U\\_DfK9KdMZ54aLsREZ2A&sfnsn=mo](https://phys.org/news/2024-06-popular-idea-easter-islanders-committed.html?fbclid=IwZXh0bgNhZW0CMTEAAR3WbSJVgvw8UXCjggPP-M8C6zyi5jiTk_6RBKHmAVbtS00jycXEQ3Ij6hw_aem_55U_DfK9KdMZ54aLsREZ2A&sfnsn=mo)

Juneau man's 70-year-old photos could help preserve cultural knowledge for King Island Inupiat community

<https://www.ktoo.org/2024/06/26/juneau-mans-70-year-old-photos-could-help-preserve-cultural-knowledge-for-king-island-inupiat-community/>

As political fervor for New Zealand's Māori resurgence wanes, a new Indigenous holiday comes of age

<https://apnews.com/article/matariki-maori-zealand-indigenous-stars-language-43161d0ab7466fd3e4cceb8f8dc29c7b#>

Low staffing, space crunch hobble Arizona museum's repatriation work

[https://ictnews.org/news/low-staffing-space-crunch-hobble-arizona-museums-repatriation-work?fbclid=IwZXh0bgNhZW0CMTEAAR1Jrzij64xCzSW1dNEH0EJCytfUrhjiDNAHcGaQty7ECGRuCy-O8hjs958\\_aem\\_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo](https://ictnews.org/news/low-staffing-space-crunch-hobble-arizona-museums-repatriation-work?fbclid=IwZXh0bgNhZW0CMTEAAR1Jrzij64xCzSW1dNEH0EJCytfUrhjiDNAHcGaQty7ECGRuCy-O8hjs958_aem_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo)

In Normandy, a Jewish veteran buried in a Nazi mass grave will receive a proper burial 80 years later

<https://www.jta.org/2024/06/06/religion/in-normandy-a-jewish-d-day-veteran-buried-in-a-nazi-mass-grave-will-receive-a-proper-burial-80-years-later?sfnsn=mo>

A peek inside London's old war office, the place of inspiration for James Bond

<https://www.npr.org/2024/06/16/nx-s1-5001782/a-peek-inside-londons-old-war-office-the-place-of-inspiration-for-james-bond?ft=nprml&f=1001>

A lost civilization's partial alphabet was discovered in a social media post

<https://www.sciencenews.org/article/lost-civilization-alphabet-social-media>

Investigators for 9/11 families examine video taken by man with ties to Saudi intelligence referencing a "plan"

<https://www.cbsnews.com/news/bayoumi-video-examined-as-september-11-evidence-60-minutes/>

Germany: 93-year-old Holocaust denier sent back to jail

<https://www.dw.com/en/germany-93-year-old-holocaust-denier-sent-back-to-jail/a-61336650>

THE ASSYRIAN RENAISSANCE

<https://archaeology.org/issues/july-august-2024/features/the-assyrian-renaissance/>

Who Was 'Lisa Ben,' the Woman Behind the U.S.'s First Lesbian Magazine?

<https://www.smithsonianmag.com/history/who-was-lisa-ben-the-woman-behind-the-uss-first-lesbian-magazine-180984596/>

The Forgotten Black Explorers Who Transformed Americans' Understanding of the Wilderness

<https://www.smithsonianmag.com/history/the-forgotten-black-explorers-who-transformed-americans-understanding-of-the-wilderness-180984607/>

How Indigenous Communities Preserve and Practice Heritage at the 2024 Smithsonian Folklife Festival

<https://www.smithsonianmag.com/smithsonian-institution/how-indigenous-communities-preserve-and-practice-heritage-at-the-2024-smithsonian-folklife-festival-180984598/>

## Archaeology

Treasure hunters say they recovered hundreds of silver coins from iconic 1715 shipwrecks off Florida

[https://www.cbsnews.com/news/treasure-hunters-recovered-silver-coins-1715-shipwrecks-florida/?ftag=CNM-00-10aab6a&linkId=480604062&fbclid=IwZXh0bgNhZW0CMTEAAR2wY1tWigu64mvF7beieU6G-4Q1FeOid1ryX8Dye1Jym0Ous-0Mc17QGxl\\_aem\\_KeBktVTIupzE5gyMKIckK5A](https://www.cbsnews.com/news/treasure-hunters-recovered-silver-coins-1715-shipwrecks-florida/?ftag=CNM-00-10aab6a&linkId=480604062&fbclid=IwZXh0bgNhZW0CMTEAAR2wY1tWigu64mvF7beieU6G-4Q1FeOid1ryX8Dye1Jym0Ous-0Mc17QGxl_aem_KeBktVTIupzE5gyMKIckK5A)

Underwater Road Leads to Ancient Hvar Settlement

[https://www.discovermagazine.com/the-sciences/underwater-road-leads-to-ancient-hvar-settlement?utm\\_campaign=organicsocial&utm\\_content=%F0%9F%97%84%EF%B8%8Ffrom\\_the\\_archive%3A\\_dive\\_&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3vkfhY860fRdczxfBoif9BAvStBq97nwnFZ6t5urUfU66eqtqIU9Fo\\_aem\\_ikKJAL5JGqgspXt1P3QOjQ](https://www.discovermagazine.com/the-sciences/underwater-road-leads-to-ancient-hvar-settlement?utm_campaign=organicsocial&utm_content=%F0%9F%97%84%EF%B8%8Ffrom_the_archive%3A_dive_&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3vkfhY860fRdczxfBoif9BAvStBq97nwnFZ6t5urUfU66eqtqIU9Fo_aem_ikKJAL5JGqgspXt1P3QOjQ)

Researchers unearth the long-lost homestead of King Pompey in Lynn

[https://www.boston.com/news/local-news/2024/06/25/researchers-unearth-the-long-lost-homestead-of-king-pompey-in-lynn/?s\\_campaign=bcom%3Asocialflow%3Afacebook&utm\\_campaign=bdc\\_Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3Aq38Og6xATFMV6OdAyz\\_fyU5la3KGquDHJ-c6YBu4Qyov9ZBQdetwMvE\\_aem\\_R-aaVO3uHx0zd0\\_2FKxKvg](https://www.boston.com/news/local-news/2024/06/25/researchers-unearth-the-long-lost-homestead-of-king-pompey-in-lynn/?s_campaign=bcom%3Asocialflow%3Afacebook&utm_campaign=bdc_Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3Aq38Og6xATFMV6OdAyz_fyU5la3KGquDHJ-c6YBu4Qyov9ZBQdetwMvE_aem_R-aaVO3uHx0zd0_2FKxKvg)

Almonds, pottery, wood help date famed Kyrenia shipwreck

[https://phys.org/news/2024-06-almonds-pottery-wood-date-famed.html?fbclid=IwZXh0bgNhZW0CMTEAAR1ea9g8eVUtvlo-st3PYgKTz1kF8TSuH3\\_VKEXLe6Ud5HYhFyU5atxVS9E\\_aem\\_OEBTjcyh49PdezRvhrLKpw&sfnsn=mo](https://phys.org/news/2024-06-almonds-pottery-wood-date-famed.html?fbclid=IwZXh0bgNhZW0CMTEAAR1ea9g8eVUtvlo-st3PYgKTz1kF8TSuH3_VKEXLe6Ud5HYhFyU5atxVS9E_aem_OEBTjcyh49PdezRvhrLKpw&sfnsn=mo)

After ISIS bombs, an urgent call to preserve an ancient Syrian temple

<https://phys.org/news/2024-06-isis-urgent-ancient-syrian-temple.html>

Tourist Carves His Name Into Ancient House in Pompeii

[https://www.smithsonianmag.com/smart-news/a-tourist-vandalized-this-ancient-house-in-pompeii-now-he-must-pay-for-the-damage-180984611/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=6282024&utm\\_content=new&fbclid=IwZXh0bgNhZW0CMTEAAR3CRZ2bNZ3yMzSJhiTVOUn3yqfvYIJQICQ5cKaw-OhBX3e3SUTQbDXDTxE\\_aem\\_GgkRNcGE7QNSGIO-tEpGxw&sfnsn=mo](https://www.smithsonianmag.com/smart-news/a-tourist-vandalized-this-ancient-house-in-pompeii-now-he-must-pay-for-the-damage-180984611/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=6282024&utm_content=new&fbclid=IwZXh0bgNhZW0CMTEAAR3CRZ2bNZ3yMzSJhiTVOUn3yqfvYIJQICQ5cKaw-OhBX3e3SUTQbDXDTxE_aem_GgkRNcGE7QNSGIO-tEpGxw&sfnsn=mo)

A Cave in the Pyrenees was Used as a Refuge During the Fall of the Western Roman Empire

<https://www.labrujulaverde.com/en/2024/06/a-cave-in-the-pyrenees-was-used-as-a-refuge-during-the-fall-of-the-western-roman-empire/>

Antikythera mechanism, world's oldest computer, followed Greek lunar calendar

<https://www.livescience.com/archaeology/antikythera-mechanism-worlds-oldest-computer-followed-greek-lunar-calendar>

Lost Assyrian camp uncovered: Could it prove the biblical siege of Jerusalem?

<https://www.jpost.com/archaeology/article-807525>

1,500-year-old reliquary discovered

<https://phys.org/news/2024-06-year-reliquary.html>

## Egyptology

Embalming Facilities Discovered at Famous Egyptian Site

[https://www.discovermagazine.com/the-sciences/embalming-facilities-discovered-at-famous-egyptian-site?utm\\_campaign=organicsocial&utm\\_content=%F0%9F%93%9C\\_unveiling\\_the\\_mysteries&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0P16jEsM3SAZqGH-hzPgO8nPPznGJbtINQQKePrf8nXkHmN7qAVqUgk08\\_aem\\_YM4jpFhcbqFgWleINaq0BQ](https://www.discovermagazine.com/the-sciences/embalming-facilities-discovered-at-famous-egyptian-site?utm_campaign=organicsocial&utm_content=%F0%9F%93%9C_unveiling_the_mysteries&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0P16jEsM3SAZqGH-hzPgO8nPPznGJbtINQQKePrf8nXkHmN7qAVqUgk08_aem_YM4jpFhcbqFgWleINaq0BQ)

Over 30 Ancient Greco-Roman Graves Found in Egyptian City of Aswan

<https://www.artnews.com/art-news/news/ancient-greco-roman-graves-found-egypt-aswan-1234710686/>

A Buried Ancient Egyptian Port Reveals the Hidden Connections Between Distant Civilizations

<https://www.smithsonianmag.com/history/hidden-ancient-egyptian-port-reveals-180984485/>

ANCIENT EGYPTIAN CAREGIVERS

<https://archaeology.org/issues/may-june-2024/digs-discoveries/ancient-egyptian-caregivers/>

## General Science

A Supreme Court Ruling May Make It Harder for Government Agencies to Use Good Science  
<https://www.scientificamerican.com/article/supreme-courts-chevron-deference-decision-could-make-science-based/>



## Physics, Earth and Space Sciences

Can AI Save Schrödinger's Cat?

[https://www.scientificamerican.com/article/can-ai-save-schroedingers-cat/?utm\\_medium=social&utm\\_campaign=socialflow&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0H5EJ4YMzrOgTBn4S69hYfPYj4uzx3pnjCj4nsTTQePN7DRBcQaulx\\_TI\\_aem\\_63jeQ9UqY\\_FQsxtg07YFA](https://www.scientificamerican.com/article/can-ai-save-schroedingers-cat/?utm_medium=social&utm_campaign=socialflow&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0H5EJ4YMzrOgTBn4S69hYfPYj4uzx3pnjCj4nsTTQePN7DRBcQaulx_TI_aem_63jeQ9UqY_FQsxtg07YFA)

Mars rover discovers a strange Red Planet rock

[https://www.astronomy.com/space-exploration/mars-rover-discovers-a-strange-red-planet-rock/?utm\\_campaign=organicsocial&utm\\_content=A%20peculiar%2C%20white-colored&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR1c2KdQCmkQ0EOFQhsFxFjkb\\_yCNKlRjtfmfkuYC42LX1S3Z3DSqj1fGZmU\\_aem\\_fjI9MJ6pU6eQ-7WtstOzeA](https://www.astronomy.com/space-exploration/mars-rover-discovers-a-strange-red-planet-rock/?utm_campaign=organicsocial&utm_content=A%20peculiar%2C%20white-colored&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR1c2KdQCmkQ0EOFQhsFxFjkb_yCNKlRjtfmfkuYC42LX1S3Z3DSqj1fGZmU_aem_fjI9MJ6pU6eQ-7WtstOzeA)

Explore Gateway: The first space station to orbit the Moon

[https://www.astronomy.com/space-exploration/explore-gateway-the-first-space-station-to-orbit-the-moon/?utm\\_campaign=organicsocial&utm\\_content=This%20first-of-its-kind%20st&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR24HoomilUV48gjlI6L3I6C4JdIncJOVXrnaCg3CiNtrpZlgnSTCtyosOI\\_aem\\_pewvecbT4Ie4q2jjmW1LQ](https://www.astronomy.com/space-exploration/explore-gateway-the-first-space-station-to-orbit-the-moon/?utm_campaign=organicsocial&utm_content=This%20first-of-its-kind%20st&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR24HoomilUV48gjlI6L3I6C4JdIncJOVXrnaCg3CiNtrpZlgnSTCtyosOI_aem_pewvecbT4Ie4q2jjmW1LQ)

Planet Nine: Is the search for this elusive world nearly over?

[https://www.livescience.com/space/planets/planet-nine-is-the-search-for-this-elusive-world-nearly-over?utm\\_source=facebook.com&utm\\_medium=social&utm\\_content=livescience&utm\\_campaign=socialflow&fbclid=IwZXh0bgNhZW0CMTEAAR397X9Sh\\_SVNHGslsdbtHHrMYIcSHqDB-IXvK\\_cUbiQfSKa30GRLZn3ek8\\_aem\\_v\\_k-CBBFujc\\_UjS0dUPdmw](https://www.livescience.com/space/planets/planet-nine-is-the-search-for-this-elusive-world-nearly-over?utm_source=facebook.com&utm_medium=social&utm_content=livescience&utm_campaign=socialflow&fbclid=IwZXh0bgNhZW0CMTEAAR397X9Sh_SVNHGslsdbtHHrMYIcSHqDB-IXvK_cUbiQfSKa30GRLZn3ek8_aem_v_k-CBBFujc_UjS0dUPdmw)

A missing link in the timeline of Earth's chemistry may have been found

[https://www.space.com/earth-modern-biochemistry-timeline-metabolic-reactions?utm\\_source=facebook.com&utm\\_campaign=socialflow&utm\\_medium=social&utm\\_content=space.com&fbclid=IwZXh0bgNhZW0CMTEAAR3qK5RX9ltbBLO5cyiO8VOEqwSUNDETHZHDm3oJO71UZ58TWhU-tADp6Cl\\_aem\\_5OQPFjIIPnnQ2Dy-x9CQ64g](https://www.space.com/earth-modern-biochemistry-timeline-metabolic-reactions?utm_source=facebook.com&utm_campaign=socialflow&utm_medium=social&utm_content=space.com&fbclid=IwZXh0bgNhZW0CMTEAAR3qK5RX9ltbBLO5cyiO8VOEqwSUNDETHZHDm3oJO71UZ58TWhU-tADp6Cl_aem_5OQPFjIIPnnQ2Dy-x9CQ64g)

Starliner Astronauts Will Remain on Space Station Until July Amid Technical Issues

[https://www.smithsonianmag.com/smart-news/starliner-astronauts-will-remain-on-space-station-until-july-amid-technical-issues-180984589/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=6242024&utm\\_content=new&fbclid=IwZXh0bgNhZW0CMTEAAR3SoaT7OI1WJz9h8UUgC-7G64BPs5mbJ7xpxN3HgKJbEldLfrG8IWzwa4\\_aem\\_71hVC4yK8lp-LFYJRetI7w](https://www.smithsonianmag.com/smart-news/starliner-astronauts-will-remain-on-space-station-until-july-amid-technical-issues-180984589/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=6242024&utm_content=new&fbclid=IwZXh0bgNhZW0CMTEAAR3SoaT7OI1WJz9h8UUgC-7G64BPs5mbJ7xpxN3HgKJbEldLfrG8IWzwa4_aem_71hVC4yK8lp-LFYJRetI7w)

A Chinese lunar probe returns to Earth with the world's first samples from the far side of the moon

[https://apnews.com/article/china-far-side-of-moon-probe-samples-c2dd59505402c07f9382bbca14eed4cf?utm\\_campaign=TrueAnthem&utm\\_medium=AP&utm\\_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2cLPuvED3KIQRa-cu2UQxAXEXK8QVDr4V8kZMYXXLE6neZOur75Q8GuSA\\_aem\\_S-6NWRReNJPPXIEdjNg3REA](https://apnews.com/article/china-far-side-of-moon-probe-samples-c2dd59505402c07f9382bbca14eed4cf?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2cLPuvED3KIQRa-cu2UQxAXEXK8QVDr4V8kZMYXXLE6neZOur75Q8GuSA_aem_S-6NWRReNJPPXIEdjNg3REA)

From planets to black holes, we look at the oddities of space

<https://www.npr.org/2024/06/25/g-s1-5734/universe-space-star-planets-nasa?ft=nprml&f=1001>

New study reveals comet airburst evidence from 12,800 years ago

[https://phys.org/news/2024-06-reveals-comet-airburst-evidence-years.html?fbclid=IwZXh0bgNhZW0CMTEAAR2bC3nEie-XRwIYwquLTXGAKI1wJbZNM8Er6E6uZ3fo48fvLA9BmQLGYOo\\_aem\\_O8tvr\\_giA9dkK85\\_PC8L8Q](https://phys.org/news/2024-06-reveals-comet-airburst-evidence-years.html?fbclid=IwZXh0bgNhZW0CMTEAAR2bC3nEie-XRwIYwquLTXGAKI1wJbZNM8Er6E6uZ3fo48fvLA9BmQLGYOo_aem_O8tvr_giA9dkK85_PC8L8Q)

Astronauts take cover as defunct Russian satellite splits into nearly 200 pieces

[https://www.theguardian.com/science/article/2024/jun/27/russian-satellite-debris-international-space-station?CMP=fb\\_gu&utm\\_medium=Social&utm\\_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2c4rw2gplP7XFF79HJQDIxk7-okpg0E8cknNGZ861RHCTQcHPiB263j2g\\_aem\\_PKz8K4-fsNzJgyR2hdvCxg#Echobox=1719554580](https://www.theguardian.com/science/article/2024/jun/27/russian-satellite-debris-international-space-station?CMP=fb_gu&utm_medium=Social&utm_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2c4rw2gplP7XFF79HJQDIxk7-okpg0E8cknNGZ861RHCTQcHPiB263j2g_aem_PKz8K4-fsNzJgyR2hdvCxg#Echobox=1719554580)

Asteroid headed toward Earth? NASA simulation explores how the nation might respond

[https://www.npr.org/2024/06/21/nx-s1-5013508/asteroid-hit-earth-nasa-simulation-emergency-response?utm\\_source=facebook.com&utm\\_medium=social&utm\\_campaign=npr&utm\\_term=nprnews&fbclid=IwZXh0bgNhZW0CMTEAAR2ORB\\_5Oxu9OBIxkWSzmU0mZ7kFgd9QTT6wGMh4tG\\_Ep9hpX3ewp28O-WIq\\_aem\\_xxjLF7\\_2q6fyb-F0DLsY9A&sfnsn=mo](https://www.npr.org/2024/06/21/nx-s1-5013508/asteroid-hit-earth-nasa-simulation-emergency-response?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&fbclid=IwZXh0bgNhZW0CMTEAAR2ORB_5Oxu9OBIxkWSzmU0mZ7kFgd9QTT6wGMh4tG_Ep9hpX3ewp28O-WIq_aem_xxjLF7_2q6fyb-F0DLsY9A&sfnsn=mo)

Analysis of NASA InSight data suggests Mars hit by meteoroids more often than thought

[https://phys.org/news/2024-06-analysis-nasa-insight-mars-meteoroids.html?fbclid=IwZXh0bgNhZW0CMTEAAR0K65bKd0zIjENrA-NLSEIZ8sjMAomXO8I5k2HLVSi09wtHR5d1reUcDKM\\_aem\\_Hh3xz7FI0H9FnyiU0efTuA](https://phys.org/news/2024-06-analysis-nasa-insight-mars-meteoroids.html?fbclid=IwZXh0bgNhZW0CMTEAAR0K65bKd0zIjENrA-NLSEIZ8sjMAomXO8I5k2HLVSi09wtHR5d1reUcDKM_aem_Hh3xz7FI0H9FnyiU0efTuA)

Study confirms the rotation of Earth's inner core has slowed

[https://phys.org/news/2024-06-rotation-earth-core.html?fbclid=IwZXh0bgNhZW0CMTEAAR0bZNg8WhhZvb7sCFwWa5hDq\\_NrImmgp3xY38Qo1PiiJmch8bpG4PgmaJ4\\_aem\\_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo](https://phys.org/news/2024-06-rotation-earth-core.html?fbclid=IwZXh0bgNhZW0CMTEAAR0bZNg8WhhZvb7sCFwWa5hDq_NrImmgp3xY38Qo1PiiJmch8bpG4PgmaJ4_aem_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo)

Artemis I's solar panels harvested a lot more energy than expected

[https://www.popsci.com/science/artemis-solar-panels/?fbclid=IwZXh0bgNhZW0CMTEAAR2ScBCRv7vrjHCjll90lc-RT\\_WO3ETu3XID5mpJzORT-r9fXws6W3PA90U\\_aem\\_HChjOOivMwb5Bv60ZV878Q](https://www.popsci.com/science/artemis-solar-panels/?fbclid=IwZXh0bgNhZW0CMTEAAR2ScBCRv7vrjHCjll90lc-RT_WO3ETu3XID5mpJzORT-r9fXws6W3PA90U_aem_HChjOOivMwb5Bv60ZV878Q)

Groundbreaking discovery: How researchers found remnants of Earth's primordial crust near Perth

[https://phys.org/news/2024-06-groundbreaking-discovery-remnants-earth-primordial.html?fbclid=IwZXh0bgNhZW0CMTEAAR33cVISG2RBOIUrhjS2sGCJtF4GMW6wZ9f9cQoZv2\\_xiTzhINPyH-EU4Rc\\_aem\\_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo](https://phys.org/news/2024-06-groundbreaking-discovery-remnants-earth-primordial.html?fbclid=IwZXh0bgNhZW0CMTEAAR33cVISG2RBOIUrhjS2sGCJtF4GMW6wZ9f9cQoZv2_xiTzhINPyH-EU4Rc_aem_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo)

Establishing age and origin of Jupiter's Great Red Spot

<https://www.ehu.eus/en/web/campus-magazine/-/establishing-age-and-origin-of-jupiter-s-great-red-spot>

Antarctic ice shelves hold twice as much meltwater as previously thought

<https://www.eurekalert.org/news-releases/1049220>

Tiny bright objects discovered at dawn of universe baffle scientists

<https://phys.org/news/2024-06-tiny-bright-dawn-universe-baffle.html>

Investigating newly discovered hydrothermal vents at depths of 3,000 meters off Svalbard

<https://phys.org/news/2024-06-newly-hydrothermal-vents-depths-meters.html>

Astronomers discover two new Milky Way satellite galaxy candidates

<https://phys.org/news/2024-06-astronomers-milky-satellite-galaxy-candidates.html>

NASA Selects SpaceX to Destroy the International Space Station

<https://www.scientificamerican.com/article/spacex-wins-nasa-contract-to-destroy-the-international-space-station/>

## Environment, Climate Change and Alternative Energy Sources

Researchers identify potential hazards in biosolid fertilizers

[https://phys.org/news/2024-06-potential-hazards-biosolid-fertilizers.html?fbclid=IwZXh0bgNhZW0CMTEAAR2BWljor-QsGOQaFC4SuOR46a24qUuo79W5NmdXmfvv3QfhgUseEq2-tW8\\_aem\\_rQt0XNStuyWTuSIRf4HYtQ](https://phys.org/news/2024-06-potential-hazards-biosolid-fertilizers.html?fbclid=IwZXh0bgNhZW0CMTEAAR2BWljor-QsGOQaFC4SuOR46a24qUuo79W5NmdXmfvv3QfhgUseEq2-tW8_aem_rQt0XNStuyWTuSIRf4HYtQ)

The world's future energy wars will be fought under the sea

[https://us.cnn.com/2024/06/26/climate/green-energy-wars-undersea-cables-intl/index.html?Date=20240626&Profile=CNN&utm\\_content=1719424863&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR1yxlocFv6DH53O9Lcx6WfX\\_34YOQP\\_AJNM5TyyHCOHArvbrXKw6jQ\\_SsjM\\_aem\\_BJl6eB84u0YNeLCCMkkGsg](https://us.cnn.com/2024/06/26/climate/green-energy-wars-undersea-cables-intl/index.html?Date=20240626&Profile=CNN&utm_content=1719424863&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR1yxlocFv6DH53O9Lcx6WfX_34YOQP_AJNM5TyyHCOHArvbrXKw6jQ_SsjM_aem_BJl6eB84u0YNeLCCMkkGsg)

Gassy cows and pigs will face a carbon tax in Denmark, the first country to do so

<https://www.npr.org/2024/06/27/nx-s1-5021147/denmark-carbon-tax-cows-pigs-farms-worlds-first>

Earth Has a Third Form of Life—and It Could Change How We Generate Power

[https://www.popularmechanics.com/science/animals/a61078291/third-form-life-hydrogen-enzyme-energy-breakthrough/?utm\\_campaign=trueanthemFBPOP&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2xXw3G41Ng6l\\_05Znstz\\_O9AMZjNZpcYAvUvjOnld3yICaAFaPES9fzjc\\_aem\\_A19wTzcxUGAN5th-pvfBlw&sfnsn=mo](https://www.popularmechanics.com/science/animals/a61078291/third-form-life-hydrogen-enzyme-energy-breakthrough/?utm_campaign=trueanthemFBPOP&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2xXw3G41Ng6l_05Znstz_O9AMZjNZpcYAvUvjOnld3yICaAFaPES9fzjc_aem_A19wTzcxUGAN5th-pvfBlw&sfnsn=mo)

Bacterial batteries harvest energy from soil

[https://www.scidev.net/global/news/bacterial-batteries-harvest-energy-from-soil/?utm\\_source=SciDev.Net&utm\\_medium=email&utm\\_campaign=14533470\\_2024-06-17%20Weekly%20Email%20Digest%20-%20Global%20Template.%20For%20no%20topic%20preferences&dm\\_i=1SCG,8NI3I,V1AOM,ZWCJI,1](https://www.scidev.net/global/news/bacterial-batteries-harvest-energy-from-soil/?utm_source=SciDev.Net&utm_medium=email&utm_campaign=14533470_2024-06-17%20Weekly%20Email%20Digest%20-%20Global%20Template.%20For%20no%20topic%20preferences&dm_i=1SCG,8NI3I,V1AOM,ZWCJI,1)

Beneath offshore wind turbines, researchers grow seafood and seaweed

[https://apnews.com/article/denmark-offshore-wind-farm-seafood-seaweed-de4ba2917ab54939b2b06102679be4b9?utm\\_campaign=TrueAnthem&utm\\_medium=AP&utm\\_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3aN8tXp5bureV6bhp1TkCAXteRjLGLQCvs3gRpTqLLze\\_tK8ds\\_qnB-X4\\_aem\\_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo](https://apnews.com/article/denmark-offshore-wind-farm-seafood-seaweed-de4ba2917ab54939b2b06102679be4b9?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3aN8tXp5bureV6bhp1TkCAXteRjLGLQCvs3gRpTqLLze_tK8ds_qnB-X4_aem_ZmFrZWR1bW15MTZieXRlcw&sfnsn=mo)

Groundbreaking discovery: Zinc can make crop yields more climate-resilient

<https://www.eurekalert.org/news-releases/1049505>

Drowning in waste: Pollution hotspots in aquatic environments

<https://phys.org/news/2024-06-pollution-hotspots-aquatic-environments.html>

## Biological, Genetics and Medical Sciences

AI Plus Gene Editing Promises to Shift Biotech Into High Gear

[https://www.discovermagazine.com/technology/ai-plus-gene-editing-promises-to-shift-biotech-into-high-gear?utm\\_campaign=organicsocial&utm\\_content=AI%20and%20gene%20editing%20are%20r&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0zTWc3DNh7zGmnP6txUYQvTqvXKiX6X3S\\_rDQNAVfzZnwtRXmUI8L6NM\\_aem\\_L7LNQ\\_Z771w6z765wrSI3g](https://www.discovermagazine.com/technology/ai-plus-gene-editing-promises-to-shift-biotech-into-high-gear?utm_campaign=organicsocial&utm_content=AI%20and%20gene%20editing%20are%20r&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR0zTWc3DNh7zGmnP6txUYQvTqvXKiX6X3S_rDQNAVfzZnwtRXmUI8L6NM_aem_L7LNQ_Z771w6z765wrSI3g)

Plant-based meat substitutes may be healthier for the heart than real meat

<https://www.nbcnews.com/health/heart-health/plant-based-meat-alternatives-heart-healthier-study-rcna158693>

Scientists look at the connection between gut health and resilience to stress

<https://www.npr.org/2024/06/24/nx-s1-5013626-e1/scientists-look-at-the-connection-between-gut-health-and-resilience-to-stress?ft=nprml&f=1001>

There's been a breakthrough in organ transplants

<https://www.npr.org/2024/06/24/nx-s1-5015116/theres-been-a-breakthrough-in-organ-transplants?ft=nprml&f=1001>

The brain makes a lot of waste. Now scientists think they know where it goes

<https://www.npr.org/sections/shots-health-news/2024/06/26/g-s1-6177/brain-waste-removal-system-amyloid-alzheimer-toxins>

Tissue bridges as predictors of recovery from cervical spine injuries

[https://medicalxpress.com/news/2024-06-tissue-bridges-predictors-recovery-cervical.html#google\\_vignette](https://medicalxpress.com/news/2024-06-tissue-bridges-predictors-recovery-cervical.html#google_vignette)

Gene therapy halts progression of rare genetic condition in young boy

<https://medicalxpress.com/news/2024-06-gene-therapy-halts-rare-genetic.html>

## Other

Right-wing activists are targeting Black scholars, and the scholars are pushing back

<https://www.wgbh.org/news/local/2024-06-27/right-wing-activists-are-targeting-black-scholars-and-the-scholars-are-pushing-back>

In Lebanon, the 'Amber Man' digs up golden time capsules from the age of the dinosaurs

<https://www.npr.org/2024/06/28/g-s1-5121/lebanon-ancient-amber-cretaceous-dinosaurs-flowers>

How one county is reimagining libraries, from teaching kitchens to woodworking shops

[https://www.cbsnews.com/news/how-one-county-is-reimagining-libraries-from-teaching-kitchens-to-woodworking-shops/?linkId=476673725&fbclid=IwZXh0bgNhZW0CMTEAAR2M3ce4Yt2yFdfK80oPtUHCJAs6HkW5TBcruMhtefjo5W0NE7qa19AxnsU\\_aem\\_ZmFrZWV1bW15MTZieXRlcw&sfnsn=mo](https://www.cbsnews.com/news/how-one-county-is-reimagining-libraries-from-teaching-kitchens-to-woodworking-shops/?linkId=476673725&fbclid=IwZXh0bgNhZW0CMTEAAR2M3ce4Yt2yFdfK80oPtUHCJAs6HkW5TBcruMhtefjo5W0NE7qa19AxnsU_aem_ZmFrZWV1bW15MTZieXRlcw&sfnsn=mo)

## Additional Informational

June 2024 AOM: Lost Knowledge

[https://grahamhancock.com/cruttendenw4/?fbclid=IwZXh0bgNhZW0CMTEAAR3rYI08glx6PCGv5T\\_2WFvKmYeRFSUbdWwWrTgqd-MD2incR\\_oPPEvPHjY\\_aem\\_GTPETym5dDuLudXSMPkq2Q](https://grahamhancock.com/cruttendenw4/?fbclid=IwZXh0bgNhZW0CMTEAAR3rYI08glx6PCGv5T_2WFvKmYeRFSUbdWwWrTgqd-MD2incR_oPPEvPHjY_aem_GTPETym5dDuLudXSMPkq2Q)

Mountain building linked to major extinction event half a billion years ago

[https://new.nsf.gov/news/mountain-building-linked-major-extinction-event?sf192292817=1&fbclid=IwZXh0bgNhZW0CMTEAAR3pvZNU0-401MuEz2YzBj1XZeU2RcNRep8JpktdUza4MtpxluUbPzCRY80\\_aem\\_2knNewaXINE-ksdbNCY3nA](https://new.nsf.gov/news/mountain-building-linked-major-extinction-event?sf192292817=1&fbclid=IwZXh0bgNhZW0CMTEAAR3pvZNU0-401MuEz2YzBj1XZeU2RcNRep8JpktdUza4MtpxluUbPzCRY80_aem_2knNewaXINE-ksdbNCY3nA)

Understanding Imperiled Earth: How Archaeology and Human History Can Inform Our Planet's Future

[https://www.amazon.com/Understanding-Imperiled-Earth-Archaeology-Sustainable/dp/1588347591/ref=sr\\_1\\_1?tag=smithsonianco-20crid%3D10WQG9EKUO5D8&dib=eyJ2IjojMSJ9.K8CTCLg5At9GS6\\_JxWjBGs4YwTL4IUyMI2kZdmiDA\\_k681IJxl2YMok\\_oMaDSZybNxmJM1rrwtVFIMQJ661rGzHnAqo-YwtXdXe8iU6Cco90.RNSCZfHUDQB32\\_QQoDvdYIjGmSs09zvRKQp-BOWNS6Q&dib\\_tag=se&keywords=understanding%20imperiled%20earth&qid=1709151145&sprifix=understanding%20imperiled%20earth%2Caps%2C326&sr=8-1&fbclid=IwZXh0bgNhZW0CMTEAAR0vlddV1MmXA-DSmnb4dM-InlnCxRIJgDeKXbr8hxAPZb5DsKQdjmB7oBE\\_aem\\_PKNrYKS9YsVR7P3P3yur-Q](https://www.amazon.com/Understanding-Imperiled-Earth-Archaeology-Sustainable/dp/1588347591/ref=sr_1_1?tag=smithsonianco-20crid%3D10WQG9EKUO5D8&dib=eyJ2IjojMSJ9.K8CTCLg5At9GS6_JxWjBGs4YwTL4IUyMI2kZdmiDA_k681IJxl2YMok_oMaDSZybNxmJM1rrwtVFIMQJ661rGzHnAqo-YwtXdXe8iU6Cco90.RNSCZfHUDQB32_QQoDvdYIjGmSs09zvRKQp-BOWNS6Q&dib_tag=se&keywords=understanding%20imperiled%20earth&qid=1709151145&sprifix=understanding%20imperiled%20earth%2Caps%2C326&sr=8-1&fbclid=IwZXh0bgNhZW0CMTEAAR0vlddV1MmXA-DSmnb4dM-InlnCxRIJgDeKXbr8hxAPZb5DsKQdjmB7oBE_aem_PKNrYKS9YsVR7P3P3yur-Q)

Europe goes to Mars

[https://www.planetary.org/articles/europe-goes-to-mars?autologin=true&utm\\_campaign=downlink&utm\\_medium=email&utm\\_source=20240621&src=downlink&s\\_subsrc=20240621](https://www.planetary.org/articles/europe-goes-to-mars?autologin=true&utm_campaign=downlink&utm_medium=email&utm_source=20240621&src=downlink&s_subsrc=20240621)

What are asteroids made of?

[https://www.planetary.org/articles/what-are-asteroids-made-of?autologin=true&utm\\_campaign=downlink&utm\\_medium=email&utm\\_source=20240621&s\\_src=downlink&s\\_subsrc=20240621](https://www.planetary.org/articles/what-are-asteroids-made-of?autologin=true&utm_campaign=downlink&utm_medium=email&utm_source=20240621&s_src=downlink&s_subsrc=20240621)

NASA Watches Mars Light Up During Epic Solar Storm

<https://www.jpl.nasa.gov/news/nasa-watches-mars-light-up-during-epic-solar-storm>

The Naked Neanderthal: A New Understanding of the Human Creature

[https://www.amazon.com/gp/product/B0C7RNLJ66?ref\\_=pe\\_92649750\\_951676690\\_ssub&dib=eyJ2IjojMSJ9.e1-aTij82nSxvro71bY8FP62RjiF9xzcvffCF5FY86ELNpUROorL\\_R67aAbtuLb-2ewendLQPvXjnPCYUnDPYc74NLAf3jCtmGmewjHJWWiLUUXjFQDgt5qQK-XUEK0nxYFVTKJeEt8HW-AnPEpL4gB8SC8wIN66udOSt4AJAHxp5IM7LDLN5alpiYdCr2HRAxqqPDAktL\\_znkU-TRTPZ7PvIY7FetoYZTsTAR9b0.b6WaQl3VwkjEg7\\_s8kVvVTdablHoUijuT2T5RWw7hg8&dib\\_tag=sseb&pd\\_rd\\_i=B0C7RNLJ66&pd\\_rd\\_w=BEpe3&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf\\_rd\\_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pf\\_rd\\_r=null&pd\\_rd\\_wg=oRqdk&pd\\_rd\\_r=1e979c5e-7d53-420e-83e0-23873c63e8a2](https://www.amazon.com/gp/product/B0C7RNLJ66?ref_=pe_92649750_951676690_ssub&dib=eyJ2IjojMSJ9.e1-aTij82nSxvro71bY8FP62RjiF9xzcvffCF5FY86ELNpUROorL_R67aAbtuLb-2ewendLQPvXjnPCYUnDPYc74NLAf3jCtmGmewjHJWWiLUUXjFQDgt5qQK-XUEK0nxYFVTKJeEt8HW-AnPEpL4gB8SC8wIN66udOSt4AJAHxp5IM7LDLN5alpiYdCr2HRAxqqPDAktL_znkU-TRTPZ7PvIY7FetoYZTsTAR9b0.b6WaQl3VwkjEg7_s8kVvVTdablHoUijuT2T5RWw7hg8&dib_tag=sseb&pd_rd_i=B0C7RNLJ66&pd_rd_w=BEpe3&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf_rd_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pf_rd_r=null&pd_rd_wg=oRqdk&pd_rd_r=1e979c5e-7d53-420e-83e0-23873c63e8a2)