

# Weekly Science Report

October 18, 2024

**“Better a cautious commander, and not a rash one.”**

Augustus

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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

Ancient DNA from South Africa rock shelter reveals the same human population stayed there for 9,000 years

[https://www.livescience.com/archaeology/ancient-dna-from-south-africa-rock-shelter-reveals-the-same-human-population-stayed-there-for-9000-years?utm\\_content=livescience&utm\\_medium=social&utm\\_campaign=socialflow&utm\\_source=facebook.com&fbclid=IwY2xjawFwuY9leHRuA2FibQIxMQABHaZ4\\_ArXQXfZVYUNK2mgOk7ExYOIM67YaOyxKX6xCNCV34eHebgJmXvHvw\\_aem\\_C8TOH-bfT4PtWPuU5wy31g](https://www.livescience.com/archaeology/ancient-dna-from-south-africa-rock-shelter-reveals-the-same-human-population-stayed-there-for-9000-years?utm_content=livescience&utm_medium=social&utm_campaign=socialflow&utm_source=facebook.com&fbclid=IwY2xjawFwuY9leHRuA2FibQIxMQABHaZ4_ArXQXfZVYUNK2mgOk7ExYOIM67YaOyxKX6xCNCV34eHebgJmXvHvw_aem_C8TOH-bfT4PtWPuU5wy31g)

Advanced technology discovered under Neolithic dwelling in Denmark

[https://phys.org/news/2024-10-advanced-technology-neolithic-denmark.html?fbclid=IwY2xjawF00jFleHRuA2FibQIxMQABHdiqIxqWtg9bf4MiFn\\_4jwig4Me3xQ4K6c3oLpSMjqFPNf1h1Q5v1Rpyeg\\_aem\\_umAewKv7WsqK1g0gELNNJQ](https://phys.org/news/2024-10-advanced-technology-neolithic-denmark.html?fbclid=IwY2xjawF00jFleHRuA2FibQIxMQABHdiqIxqWtg9bf4MiFn_4jwig4Me3xQ4K6c3oLpSMjqFPNf1h1Q5v1Rpyeg_aem_umAewKv7WsqK1g0gELNNJQ)

Humanity's Origins Paint Our Ancestors as Lovers, Not Fighters

[https://www.scientificamerican.com/article/human-origins-look-ever-more-tangled-with-gene-and-fossil-discoveries/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=socialflow&fbclid=IwY2xjawF6bNVleHRuA2FibQIxMQABHXkgafEJcfOAUWE87GOHOpGXNOD-n1WkFfoqiWEZKs4TyR\\_G287GJtrTBA\\_aem\\_cITHE0B76ETAZ7eiMw5Apg](https://www.scientificamerican.com/article/human-origins-look-ever-more-tangled-with-gene-and-fossil-discoveries/?utm_medium=social&utm_source=facebook&utm_campaign=socialflow&fbclid=IwY2xjawF6bNVleHRuA2FibQIxMQABHXkgafEJcfOAUWE87GOHOpGXNOD-n1WkFfoqiWEZKs4TyR_G287GJtrTBA_aem_cITHE0B76ETAZ7eiMw5Apg)

Ancient hominins had humanlike hands, indicating earlier tool use, study reveals

[https://phys.org/news/2024-10-ancient-hominins-humanlike-indicating-earlier.html?fbclid=IwZXh0bgNhZW0CMTEAAR19\\_L70KKoWikbl2SAPpEEKqLjDmJt7NeVkhEdxRBOlfnYICB\\_6VJu8Qus\\_aem\\_J44DIC6OhAmckz\\_ZrCfpgw&sfnsn=mo](https://phys.org/news/2024-10-ancient-hominins-humanlike-indicating-earlier.html?fbclid=IwZXh0bgNhZW0CMTEAAR19_L70KKoWikbl2SAPpEEKqLjDmJt7NeVkhEdxRBOlfnYICB_6VJu8Qus_aem_J44DIC6OhAmckz_ZrCfpgw&sfnsn=mo)

Ancient humans waited out last ice age in frigid Central Europe, surprising study finds

[https://www.livescience.com/archaeology/ancient-humans-waited-out-last-ice-age-in-frigid-central-europe-surprising-study-finds?utm\\_medium=social&utm\\_content=livescience&utm\\_campaign=socialflow&utm\\_source=facebook.com&fbclid=IwY2xjawF-DoZleHRuA2FibQIxMQABHd-C4Y0Gm0grCmi1Q3nb0nFOalgxzcE7uVC9ZsEN48mqFW-jRSnSKIs-Tw\\_aem\\_46YMe6HyBEiZho6CqH7VA](https://www.livescience.com/archaeology/ancient-humans-waited-out-last-ice-age-in-frigid-central-europe-surprising-study-finds?utm_medium=social&utm_content=livescience&utm_campaign=socialflow&utm_source=facebook.com&fbclid=IwY2xjawF-DoZleHRuA2FibQIxMQABHd-C4Y0Gm0grCmi1Q3nb0nFOalgxzcE7uVC9ZsEN48mqFW-jRSnSKIs-Tw_aem_46YMe6HyBEiZho6CqH7VA)

17,000-year-old remains of blue-eyed baby boy unearthed in Italy

<https://www.livescience.com/archaeology/17-000-year-old-remains-of-blue-eyed-baby-boy-unearthed-in-italy>

Study of Cave Conditions Offers Clues to Early Modern Humans in Southeast Asia

<https://archaeology.org/news/2024/10/14/study-of-cave-conditions-offers-clues-to-early-modern-humans-in-southeast-asia/>

Jade Artifacts Suggest Long-Distance Trade in China

<https://archaeology.org/news/2024/10/14/jade-artifacts-suggest-long-distance-trade-in-china-5000-years-ago/>

In search of evidence of ancient human existence, researchers traverse the inhospitable Namib desert

<https://phys.org/news/2024-10-evidence-ancient-human-traverse-inhospitable.html>

## History

Human remains found on Mount Everest apparently belong to famed climber who vanished 100 years ago

[https://www.cbsnews.com/news/mount-everest-human-remains-andrew-irvine-vanished-1924/?ftag=CNM-00-10aab6a&linkId=619044946&fbclid=IwY2xjawF2CZ1leHRuA2FibQIxMQABHXAc7QrtRp-u9OydLMcGUkHEXoaLIKq1vYvwX-Y5mrlDLfzrMhVfpQzB4Q\\_aem\\_fIN-63sLX1-amFiuKvOUlw](https://www.cbsnews.com/news/mount-everest-human-remains-andrew-irvine-vanished-1924/?ftag=CNM-00-10aab6a&linkId=619044946&fbclid=IwY2xjawF2CZ1leHRuA2FibQIxMQABHXAc7QrtRp-u9OydLMcGUkHEXoaLIKq1vYvwX-Y5mrlDLfzrMhVfpQzB4Q_aem_fIN-63sLX1-amFiuKvOUlw)

'It went horribly wrong': DNA analysis sheds light on lost Arctic expedition's grisly end

[https://www.cnn.com/2024/10/11/science/franklin-lost-expedition-cannibalism/index.html?Date=20241011&Profile=CNN&utm\\_content=1728678540&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3W63Uqv4Cvb9X4z7wooCpEK7-by0y-3FVliB83npAzeXNQXt1zsOJ2rvq\\_aem\\_0P5NVF1uGIgKz43KXWwz2A&sfnsn=mo](https://www.cnn.com/2024/10/11/science/franklin-lost-expedition-cannibalism/index.html?Date=20241011&Profile=CNN&utm_content=1728678540&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3W63Uqv4Cvb9X4z7wooCpEK7-by0y-3FVliB83npAzeXNQXt1zsOJ2rvq_aem_0P5NVF1uGIgKz43KXWwz2A&sfnsn=mo)

Hereditary nobles have sat in Britain's Parliament for centuries. Their time may be up

<https://apnews.com/article/uk-lords-hereditary-aristocrats-eebad806ed864e2da361c94e9526822e>

Socially distanced layout of the world's oldest cities helped early civilization evade diseases

<https://theconversation.com/socially-distanced-layout-of-the-worlds-oldest-cities-helped-early-civilization-evade-diseases-239586>

DNA study confirms Christopher Columbus's remains are entombed in Seville

<https://www.theguardian.com/world/2024/oct/11/dna-study-christopher-columbus-remains-seville-cathedral>

Celebrate Indigenous Peoples' Day With 20 Beautiful Photos That Capture the Richness of Native Culture

[https://www.smithsonianmag.com/arts-culture/celebrate-indigenous-peoples-day-with-15-stunning-photos-180983030/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=10142024&utm\\_content=archival&fbclid=IwZXh0bgNhZW0CMTEAAR1og5ja2qLL6rMP-il6jyZeSgZGXRr6D-irKqyER\\_BFioKvzfUY3MOJgDs\\_aem\\_riZVbTIZqj6Te7EASOikXA&sfnsn=mo](https://www.smithsonianmag.com/arts-culture/celebrate-indigenous-peoples-day-with-15-stunning-photos-180983030/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=10142024&utm_content=archival&fbclid=IwZXh0bgNhZW0CMTEAAR1og5ja2qLL6rMP-il6jyZeSgZGXRr6D-irKqyER_BFioKvzfUY3MOJgDs_aem_riZVbTIZqj6Te7EASOikXA&sfnsn=mo)

In Chile a language on the verge of extinction, stirs into life

[https://www.npr.org/2024/10/14/nx-s1-5148780/chile-lost-language-atacama-desert?utm\\_term=nprnews&utm\\_medium=social&utm\\_source=facebook.com&utm\\_campaign=npr&fbclid=IwZXh0bgNhZW0CMTEAAR2G-j1ZpVx-cldkNbNIW8nGmWlQVJ0JqwjlV0LXPan98IJ\\_8ZVkiXo0\\_cM\\_aem\\_FCYht1AFRONvrhjeUVgTiw&sfnsn=mo](https://www.npr.org/2024/10/14/nx-s1-5148780/chile-lost-language-atacama-desert?utm_term=nprnews&utm_medium=social&utm_source=facebook.com&utm_campaign=npr&fbclid=IwZXh0bgNhZW0CMTEAAR2G-j1ZpVx-cldkNbNIW8nGmWlQVJ0JqwjlV0LXPan98IJ_8ZVkiXo0_cM_aem_FCYht1AFRONvrhjeUVgTiw&sfnsn=mo)

Two Lions Went on a Man-Eating Spree in 1898. Now, DNA Evidence Reveals Their Diets

[https://www.smithsonianmag.com/smart-news/two-lions-went-on-a-man-eating-spree-in-1898-now-dna-evidence-reveals-their-diets-180985269/?utm\\_medium=social&utm\\_source=facebook&utm\\_campaign=editorial&utm\\_term=10162024&utm\\_content=new&fbclid=IwY2xjawF843tleHRuA2FibQIxMQABHfkVpAr-rRZcQW1CCJr0gSLTNKmOLKmZ6i7wpWCdwM9YIGr04mD1yeXdJg\\_aem\\_Knce7OxwXbBBBH\\_eer5ANUg](https://www.smithsonianmag.com/smart-news/two-lions-went-on-a-man-eating-spree-in-1898-now-dna-evidence-reveals-their-diets-180985269/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=10162024&utm_content=new&fbclid=IwY2xjawF843tleHRuA2FibQIxMQABHfkVpAr-rRZcQW1CCJr0gSLTNKmOLKmZ6i7wpWCdwM9YIGr04mD1yeXdJg_aem_Knce7OxwXbBBBH_eer5ANUg)

## Archaeology

Restorers complete work on the canopy covering St. Peter's main altar ahead of the 2025 Jubilee  
<https://apnews.com/article/vatican-art-work-bernini-restoration-baldachin-5b5b26e1ba072b3e21c08fc0a6145e99>

Phaistos Disk: 3,000-year-old inscriptions from Crete that have never been deciphered  
<https://www.livescience.com/archaeology/phaistos-disk-3-000-year-old-inscriptions-from-crete-that-have-never-been-deciphered>

Archaeologists Uncovered a Community Lost to Time for 5,000 Years  
[https://www.popularmechanics.com/science/archaeology/a62470206/community-lost-to-time-for-5000-years/?utm\\_campaign=trueanthemFBPOP&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3t1sfMwQuK3gGpFp4D1uoG8w-QHKYWPFA0qZyMewDqjIRexg0frQK3M1A\\_aem\\_-8rxqOHj3z1IBkDXxOUqkw&sfnsn=mo](https://www.popularmechanics.com/science/archaeology/a62470206/community-lost-to-time-for-5000-years/?utm_campaign=trueanthemFBPOP&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR3t1sfMwQuK3gGpFp4D1uoG8w-QHKYWPFA0qZyMewDqjIRexg0frQK3M1A_aem_-8rxqOHj3z1IBkDXxOUqkw&sfnsn=mo)

Archaeologists uncover one of the world's oldest churches: "Sensational testimony to early Christianity"  
[https://www.cbsnews.com/news/archaeologists-one-of-worlds-oldest-churches-armenia/?ftag=CNM-00-10aab6a&linkId=622996626&fbclid=IwY2xjawF6bF5leHRuA2FbQlxMQABHbNL0ovaXVguWLwMio8QJD2R5d-qA\\_zr05HqmCubX\\_eoVuD7mULmNLdM1w\\_aem\\_5GPjSJSt61PUDeRMNdCcQ](https://www.cbsnews.com/news/archaeologists-one-of-worlds-oldest-churches-armenia/?ftag=CNM-00-10aab6a&linkId=622996626&fbclid=IwY2xjawF6bF5leHRuA2FbQlxMQABHbNL0ovaXVguWLwMio8QJD2R5d-qA_zr05HqmCubX_eoVuD7mULmNLdM1w_aem_5GPjSJSt61PUDeRMNdCcQ)

Secret tomb found under 'Indiana Jones' filming location in Petra  
[https://www.cnn.com/2024/10/12/science/petra-tomb-indiana-jones-discovery/index.html?Date=20241012&Profile=CNM&utm\\_content=1728756011&utm\\_medium=social&utm\\_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR1sRIGfU7udPiElg5\\_nKcZSFPgu-16uFpACI\\_U33QAMNXeVrVqBvhwJHA\\_aem\\_QFz5A3TPtCcV7pUY9dxxBq&sfnsn=mo](https://www.cnn.com/2024/10/12/science/petra-tomb-indiana-jones-discovery/index.html?Date=20241012&Profile=CNM&utm_content=1728756011&utm_medium=social&utm_source=facebook&fbclid=IwZXh0bgNhZW0CMTEAAR1sRIGfU7udPiElg5_nKcZSFPgu-16uFpACI_U33QAMNXeVrVqBvhwJHA_aem_QFz5A3TPtCcV7pUY9dxxBq&sfnsn=mo)

The archaeologist fighting claims about an advanced lost civilization  
[https://www.newscientist.com/article/mg26435130-400-the-archaeologist-fighting-claims-about-an-advanced-lost-civilisation/?utm\\_term=Autofeed&utm\\_campaign=echobox&utm\\_medium=social&utm\\_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2g32rCL8v2ezMu6YzN9QoOSs5VF2LPP0o8\\_Q4c9z-hDbZ1n4rauZz8nf0\\_aem\\_0IHbgAiWBzPri9kGjNjtKA&sfnsn=mo#Echobox=1728923247](https://www.newscientist.com/article/mg26435130-400-the-archaeologist-fighting-claims-about-an-advanced-lost-civilisation/?utm_term=Autofeed&utm_campaign=echobox&utm_medium=social&utm_source=Facebook&fbclid=IwZXh0bgNhZW0CMTEAAR2g32rCL8v2ezMu6YzN9QoOSs5VF2LPP0o8_Q4c9z-hDbZ1n4rauZz8nf0_aem_0IHbgAiWBzPri9kGjNjtKA&sfnsn=mo#Echobox=1728923247)

Ancient Tomb May Belong to Early Chinese King  
<https://www.newsweek.com/ancient-tomb-may-belong-early-chinese-king-1970582>

Remains of 1,600-year-old Roman fort unearthed in Turkey  
<https://www.livescience.com/archaeology/romans/remains-of-1-600-year-old-roman-fort-unearthed-in-turkey>

Evidence of Assyrians' conquest of Holy Land discovered in Jerusalem  
<https://www.livescience.com/archaeology/evidence-of-assyrians-conquest-of-holy-land-discovered-in-jerusalem>

Volunteers help identify hundreds of undiscovered prehistoric barrows  
<https://phys.org/news/2024-10-volunteers-hundreds-undiscovered-prehistoric-barrows.html>

Rare hoard of Roman-era coins discovered in German mountains — miles from the empire's frontlines  
<https://www.livescience.com/archaeology/romans/rare-hoard-of-roman-era-coins-discovered-in-german-mountains-miles-from-the-empires-frontlines>

## Egyptology

Egypt recovers three artefacts from Germany  
<https://english.ahram.org.eg/News/533364.aspx>

## General Science

Stretchable transistors used in wearable devices enable in-sensor edge computing  
[https://techxplore.com/news/2024-10-stretchable-transistors-wearable-devices-enable.html#google\\_vignette](https://techxplore.com/news/2024-10-stretchable-transistors-wearable-devices-enable.html#google_vignette)

## Physics, Earth and Space Sciences

European 'crash scene investigation' spacecraft is ready to follow up on NASA's asteroid impact mission

[https://www.cnn.com/2024/10/07/science/hera-mission-launch-dart/index.html?Date=20241007&Profile=CNN+International&utm\\_content=1728307806&utm\\_medium=social&utm\\_source=facebook&fbclid=IwY2xjawFwy3VleHRuA2FibQIxMQABHaC8I7w6weVuHbXZEgDpWH8egy1taEc6Qd3oCApvK1St2ILJhXk2F-W6g\\_aem\\_62Or10JiRxNNHidVob8AvQ](https://www.cnn.com/2024/10/07/science/hera-mission-launch-dart/index.html?Date=20241007&Profile=CNN+International&utm_content=1728307806&utm_medium=social&utm_source=facebook&fbclid=IwY2xjawFwy3VleHRuA2FibQIxMQABHaC8I7w6weVuHbXZEgDpWH8egy1taEc6Qd3oCApvK1St2ILJhXk2F-W6g_aem_62Or10JiRxNNHidVob8AvQ)

Mystery iron-rich magma entombed in dead volcanoes could be rich source of rare earth elements

[https://www.livescience.com/planet-earth/geology/mystery-iron-rich-magma-entombed-in-dead-volcanoes-could-be-rich-source-of-rare-earth-elements?utm\\_source=facebook.com&utm\\_campaign=socialflow&utm\\_content=livescience&utm\\_medium=social&fbclid=IwY2xjawFzegJleHRuA2FibQIxMQABHbvA\\_YhFgECm614WFX5oA5pzrsXGjXAz3niQiBjmhDX6OLcxFQV28R8p\\_w\\_aem\\_N1IATANVWUpXZb1XuBXybQ](https://www.livescience.com/planet-earth/geology/mystery-iron-rich-magma-entombed-in-dead-volcanoes-could-be-rich-source-of-rare-earth-elements?utm_source=facebook.com&utm_campaign=socialflow&utm_content=livescience&utm_medium=social&fbclid=IwY2xjawFzegJleHRuA2FibQIxMQABHbvA_YhFgECm614WFX5oA5pzrsXGjXAz3niQiBjmhDX6OLcxFQV28R8p_w_aem_N1IATANVWUpXZb1XuBXybQ)

China unveils its plans to turn its feats in space exploration into scientific advances

<https://apnews.com/article/china-space-moon-research-plan-5934ecd95ac9675d0ed367615f293b9c>

Scientists confirm there are 40 huge craters at the bottom of Lake Michigan

[https://www.livescience.com/planet-earth/geology/scientists-confirm-there-are-40-huge-craters-at-the-bottom-of-lake-michigan?utm\\_source=facebook.com&utm\\_campaign=socialflow&utm\\_medium=social&utm\\_content=livescience&fbclid=IwY2xjawF32IBleHRuA2FibQIxMQABHcEsp84PjBk8kg6sWpOagnOzKwmNVggBnyyPBT0j6nFZmBRDMUnl08cUA\\_aem\\_ZNds4AAthZKND74VMnAMWw](https://www.livescience.com/planet-earth/geology/scientists-confirm-there-are-40-huge-craters-at-the-bottom-of-lake-michigan?utm_source=facebook.com&utm_campaign=socialflow&utm_medium=social&utm_content=livescience&fbclid=IwY2xjawF32IBleHRuA2FibQIxMQABHcEsp84PjBk8kg6sWpOagnOzKwmNVggBnyyPBT0j6nFZmBRDMUnl08cUA_aem_ZNds4AAthZKND74VMnAMWw)

China races to unlock one of the biggest mysteries in particle physics

[https://www.popsci.com/science/neutrino-china/?fbclid=IwY2xjawF-FnlleHRuA2FibQIxMQABHQUiqCoicZaKR\\_Imz6DJmtzj\\_YgRvUIn8oSqpsPQqtnC0dXQwr-TtWsTWw\\_aem\\_Hzh7YjpD9E-3b6Yyy-92w](https://www.popsci.com/science/neutrino-china/?fbclid=IwY2xjawF-FnlleHRuA2FibQIxMQABHQUiqCoicZaKR_Imz6DJmtzj_YgRvUIn8oSqpsPQqtnC0dXQwr-TtWsTWw_aem_Hzh7YjpD9E-3b6Yyy-92w)

Astronauts could mine asteroids for food someday, scientists say

[https://www.livescience.com/space/asteroids/asteronauts-could-mine-asteroids-for-food-someday-scientists-say?utm\\_medium=social&utm\\_source=facebook.com&utm\\_campaign=socialflow&utm\\_content=livescience&fbclid=IwZXh0bgNhZW0CMTEAAR3WRqyZ1cxPc7XxArnft2fTDoueJ4MUTFz2co4hsE6-QDSShhavgdAKmSU\\_aem\\_rowhidIHPsyVq6myawWt5Q&sfnsn=mo](https://www.livescience.com/space/asteroids/asteronauts-could-mine-asteroids-for-food-someday-scientists-say?utm_medium=social&utm_source=facebook.com&utm_campaign=socialflow&utm_content=livescience&fbclid=IwZXh0bgNhZW0CMTEAAR3WRqyZ1cxPc7XxArnft2fTDoueJ4MUTFz2co4hsE6-QDSShhavgdAKmSU_aem_rowhidIHPsyVq6myawWt5Q&sfnsn=mo)

The Untold Story of Marie Curie's Network of Female Scientists

<https://www.scientificamerican.com/article/how-marie-curie-helped-a-generation-of-women-break-into-science/>



## Environment, Climate Change and Alternative Energy Sources

'Groundbreaking' stocking brings freshwater mussels to the Kiski and Clarion rivers

[https://www.post-gazette.com/life/outdoors/2024/10/12/stocking-freshwater-mussels-kiski-clarion-rivers/stories/202410100113?fbclid=IwZXh0bgNhZW0CMTEAAR3fdWgW3P9RF\\_4TvS7cO4OaVjcWT3uWZUOvIPwW9pid7oa7ZwUDJtSiXis\\_aem\\_4XzKem1N4hValv\\_2iKxTFg&sfnsn=mo](https://www.post-gazette.com/life/outdoors/2024/10/12/stocking-freshwater-mussels-kiski-clarion-rivers/stories/202410100113?fbclid=IwZXh0bgNhZW0CMTEAAR3fdWgW3P9RF_4TvS7cO4OaVjcWT3uWZUOvIPwW9pid7oa7ZwUDJtSiXis_aem_4XzKem1N4hValv_2iKxTFg&sfnsn=mo)

Scientists successfully breed corals to improve their heat tolerance

[https://phys.org/news/2024-10-scientists-successfully-corals-tolerance.html?fbclid=IwZXh0bgNhZW0CMTEAAR3T8djWzFj-cki1i8r49zIJXcA1npxeizAB2\\_UsueTTraJRmHLSxPLqIyc\\_aem\\_sFYP0uaP9jFAR4sPlfynVw&sfnsn=mo](https://phys.org/news/2024-10-scientists-successfully-corals-tolerance.html?fbclid=IwZXh0bgNhZW0CMTEAAR3T8djWzFj-cki1i8r49zIJXcA1npxeizAB2_UsueTTraJRmHLSxPLqIyc_aem_sFYP0uaP9jFAR4sPlfynVw&sfnsn=mo)

Geoengineering: Can we control the weather?

[https://www.livescience.com/geoengineering-the-weather?utm\\_medium=social&utm\\_campaign=socialflow&utm\\_source=facebook.com&utm\\_content=livescience&fbclid=IwY2xjawF-FIpleHRuA2FibQlxMQABHZevBxTfKhGZsY678t5bp5iArXXr8oOyeURjuraJ0vHPKi2CNo-KV2VCDQ\\_aem\\_TJnExmBwQA-wyTzTLE5q-Q](https://www.livescience.com/geoengineering-the-weather?utm_medium=social&utm_campaign=socialflow&utm_source=facebook.com&utm_content=livescience&fbclid=IwY2xjawF-FIpleHRuA2FibQlxMQABHZevBxTfKhGZsY678t5bp5iArXXr8oOyeURjuraJ0vHPKi2CNo-KV2VCDQ_aem_TJnExmBwQA-wyTzTLE5q-Q)

Better ocean connectivity boosts reef fish populations

<https://www.eurekalert.org/news-releases/1061529>

Scientists identify potential deep-ocean greenhouse gas storage solution

<https://phys.org/news/2024-10-scientists-potential-deep-ocean-greenhouse.html>

## Biological, Genetics and Medical Sciences

An out-of-warranty battery almost left this paralyzed man's exoskeleton useless

<https://www.theverge.com/2024/9/26/24255074/former-jockey-michael-straight-exoskeleton-repair-battery>

Tubeworms, snails and other weird creatures found under the seafloor

<https://apnews.com/article/hydrothermal-vents-seafloor-tubeworms-aa4e81dbb57009291c8747f025400c5d>

Dementia surge in Africa demands research, innovation

[https://www.scidev.net/global/explainer/dementia-surge-in-africa-demands-research-innovation/?utm\\_source=SciDev.Net&utm\\_medium=email&utm\\_campaign=14704322\\_2024-10-14%20Weekly%20Email%20Digest%20-%20Global%20Template.%20For%20no%20topic%20preferences&dm\\_i=1SCG,8R5XE,V1AOM,10E089,1](https://www.scidev.net/global/explainer/dementia-surge-in-africa-demands-research-innovation/?utm_source=SciDev.Net&utm_medium=email&utm_campaign=14704322_2024-10-14%20Weekly%20Email%20Digest%20-%20Global%20Template.%20For%20no%20topic%20preferences&dm_i=1SCG,8R5XE,V1AOM,10E089,1)

Scientists find southern killer whales of the Pacific have access to enough food, deepening mystery of their struggles

<https://phys.org/news/2024-10-scientists-southern-killer-whales-pacific.html>

## Other

Oklahoma amends request for Bibles that initially appeared to match only version backed by Trump

<https://apnews.com/article/oklahoma-bible-schools-trump-amend-99bec8ed6b67acd2d836913783c4fe7b>

A Century-Old Question Is Still Revealing Answers in Fundamental Math

[https://www.scientificamerican.com/article/a-century-old-question-is-still-revealing-answers-in-fundamental-math/?utm\\_campaign=socialflow&utm\\_medium=social&utm\\_source=facebook&fbclid=IwY2xjawFzUKxleHRuA2FibQIxMQABHY6IJ5Ze8YF-JnippJhzXVrPColu7o1DnGP-w\\_Q00UaGiASJhg\\_a0Tlmyw\\_aem\\_0YAoOQTV-quv1szLYP4Zyg](https://www.scientificamerican.com/article/a-century-old-question-is-still-revealing-answers-in-fundamental-math/?utm_campaign=socialflow&utm_medium=social&utm_source=facebook&fbclid=IwY2xjawFzUKxleHRuA2FibQIxMQABHY6IJ5Ze8YF-JnippJhzXVrPColu7o1DnGP-w_Q00UaGiASJhg_a0Tlmyw_aem_0YAoOQTV-quv1szLYP4Zyg)

Envisioning Crazy Horse's prophecy coming true

[https://navajotimes.com/opinion/essay/guest-column-envisioning-crazy-horses-prophecy-coming-true/?fbclid=IwY2xjawF93L9leHRuA2FibQIxMQABHRaMg7T5ByBGKu63rSIDiocJ2CP\\_vfrWckRj\\_u6f544Osf-0AYQjQHtQp4Q\\_aem\\_OfyL9tS0TVpd7cZ6DwQCcQ&sfnsn=mo#google\\_vignette](https://navajotimes.com/opinion/essay/guest-column-envisioning-crazy-horses-prophecy-coming-true/?fbclid=IwY2xjawF93L9leHRuA2FibQIxMQABHRaMg7T5ByBGKu63rSIDiocJ2CP_vfrWckRj_u6f544Osf-0AYQjQHtQp4Q_aem_OfyL9tS0TVpd7cZ6DwQCcQ&sfnsn=mo#google_vignette)

## Additional Informational

X-37B begins novel space maneuver

<https://www.spaceforce.mil/News/Article-Display/Article/3932137/x-37b-begins-novel-space-maneuver/>

NASA's LRO: Lunar Ice Deposits are Widespread

<https://science.nasa.gov/solar-system/moon/nasas-lro-lunar-ice-deposits-are-widespread/>

NASA Turns Off Science Instrument to Save Voyager 2 Power

<https://blogs.nasa.gov/voyager/2024/10/01/nasa-turns-off-science-instrument-to-save-voyager-2-power/>

NASA, SpaceX Secure Europa Clipper Ahead of Hurricane

<https://blogs.nasa.gov/europaclipper/2024/10/06/nasa-spacex-secure-europa-clipper-ahead-of-hurricane/>

The Undersea Vision of Fabien Cousteau

[https://ncseagrant.ncsu.edu/coastwatch/fall-2024-undersea-cousteau/?fbclid=IwZXh0bgNhZW0BMAABHdTAE0jehYogVUO6g9SshDrekXCQ8ldGI9bgLF9GOt8cfp7O0aaRu2jfSg\\_aem\\_Mx-ZEINWO6KHudiCnbLtQw&utm\\_medium=paid&utm\\_source=fb&utm\\_id=6620224136981&utm\\_content=6620224139581&utm\\_term=6620224138581&utm\\_campaign=6620224136981&sfnsn=mo](https://ncseagrant.ncsu.edu/coastwatch/fall-2024-undersea-cousteau/?fbclid=IwZXh0bgNhZW0BMAABHdTAE0jehYogVUO6g9SshDrekXCQ8ldGI9bgLF9GOt8cfp7O0aaRu2jfSg_aem_Mx-ZEINWO6KHudiCnbLtQw&utm_medium=paid&utm_source=fb&utm_id=6620224136981&utm_content=6620224139581&utm_term=6620224138581&utm_campaign=6620224136981&sfnsn=mo)

Time travels and touching stories

[https://courier.unesco.org/en/articles/time-travels-and-touching-stories?fbclid=IwY2xjawF-F-9leHRuA2FibQIxMAABHWxBTMaph5AA3CfanugtVKUlr4W5YrMW5g4Wp8j0ok\\_OP-rl4\\_fAol8ziw\\_aem\\_z8ngNLeB7Sf3cOD6dqEr8g](https://courier.unesco.org/en/articles/time-travels-and-touching-stories?fbclid=IwY2xjawF-F-9leHRuA2FibQIxMAABHWxBTMaph5AA3CfanugtVKUlr4W5YrMW5g4Wp8j0ok_OP-rl4_fAol8ziw_aem_z8ngNLeB7Sf3cOD6dqEr8g)

Museum of Looted Antiquities, STEVE GREEN COLLECTION

<https://mola.omeka.net/items/show/1264>

Does Distant Planet Host Volcanic Moon Like Jupiter's Io?

<https://www.nasa.gov/universe/exoplanets/does-distant-planet-host-volcanic-moon-like-jupiters-io/>

NASA, NOAA: Sun Reaches Maximum Phase in 11-Year Solar Cycle

<https://science.nasa.gov/science-research/heliophysics/nasa-noaa-sun-reaches-maximum-phase-in-11-year-solar-cycle/>

Europa Clipper launches on its journey to Jupiter's icy moon

[https://www.planetary.org/articles/europa-clipper-launches?utm\\_campaign=downlink&utm\\_medium=email&utm\\_source=20241018&s\\_src=downlink&s\\_subsrc=20241018](https://www.planetary.org/articles/europa-clipper-launches?utm_campaign=downlink&utm_medium=email&utm_source=20241018&s_src=downlink&s_subsrc=20241018)

Interior Department Signs Three Landmark Co-Stewardship Agreements with Alaska Native Tribes and Corporations

<https://www.doi.gov/pressreleases/interior-department-signs-three-landmark-co-stewardship-agreements-alaska-native>

Biden-Harris Administration Takes Major Steps to Accelerate Clean Energy Geothermal Development on Public Lands

<https://www.doi.gov/pressreleases/biden-harris-administration-takes-major-steps-accelerate-clean-energy-geothermal>