

Weekly Science Report

November 1, 2024

“Until lions have their historians, tales of the hunt shall always glorify the hunters.”

African Proverb

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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

'Very lucky': Hong Kong discovers dinosaur fossils for the first time

https://www.nbcnews.com/news/world/hong-kong-discovers-dinosaur-fossils-first-time-rcna176980?utm_campaign=trueanthem&utm_medium=trueanthem&utm_source=facebook&fbclid=IwY2xjawGHmVVleHRuA2FibQlXMQABHWGv6OyqBKJ-H0PFF8yv4xBGOdb9XmWs75WsrJnmQ4WStBdemP74g7Ym_w_aem_gFnJbRqli-OHu_Wtzj554g&branch_match_id=1195686125552732090&branch_referrer=H4sIAAAAAAAAAAwXB2w6CIAAAOL%2FpTW3OS7W5pm2KtjKrRT4xUTRKUMHEeujbO%2Bcxjr3cGAbHJSdK6kXf6y3IL%2BPbOXPF6fV%2BxNsaly2tvFjl5vwsVATY7dYScH77ZtjiLJ4PmR8AGE1O%2BhmCfaKB5SkMV5%2FJmoMorfD6zqB0bShFwllmwcsYVISdXKtxc4YUKghDQ8gTfB5iqqXgieD4fdq21Sx%2BgtRECMobhEWnJBHe7IE6Rv5de9hBuQAAAA%3D%3D

The Amazon forest is the result of an 8,000-year experiment

<https://arstechnica.com/science/2017/03/the-amazon-forest-is-the-result-of-a-8000-year-experiment/>

Geochemical fingerprints trace ochre origins to world's oldest mine

https://phys.org/news/2024-10-geochemical-fingerprints-ochre-world-oldest.html#google_vignette

Ancient graves reveal distinct burial practices of Neanderthals and early humans in the Levant

<https://phys.org/news/2024-10-ancient-graves-reveal-distinct-burial.html>

Oldest tadpole on record was a Jurassic giant

<https://www.livescience.com/animals/extinct-species/oldest-tadpole-on-record-was-a-jurassic-giant>

Not too big, not too small: Why modern humans are the ideal size for speed

<https://phys.org/news/2024-10-big-small-modern-humans-ideal.html>

History

One of the last Navajo Code Talkers from World War II dies at 107

https://abcnews.go.com/US/wireStory/navajo-code-talkers-world-war-ii-dies-107-114972672?fbclid=IwY2xjawGDKM5leHRuA2FlbQlXMQABHWyxVF7NCBXa3UvhVkaXKtdxwprNYSQHjIYTCr49FQaSfoLkeb-T53AE4w_aem_IM-P0Fd1VyB2HKIISwRyNQ

Pope Francis canonizes 14 new saints, including priests martyred in Syria

<https://www.catholicnewsagency.com/news/259965/pope-francis-canonizes-14-new-saints-including-martyrs-from-syria>

Man browsing library discovers lost story by "Dracula" author Bram Stoker, buried in the archives for over 130 years

<https://www.cbsnews.com/news/lost-story-dracula-author-bram-stoker-found-gibbet-hill/>

'You are not my king,' Indigenous Australian senator yells at visiting King Charles

<https://apnews.com/article/australia-canberra-king-charles-visit-4ea87d39d17c4a9fe3cbfab3455fb8f7>

President Biden to apologize for 150-year Indian boarding school policy

https://apnews.com/article/indian-border-schools-apology-biden-haaland-701872132d7f191973d54cd05286ef75?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwY2xjawGHgfBleHRuA2FlbQlXMQABHVYBBvtNuZQWZci09rcadS0ctglwZml4mGXefGpK6sBubeH5jP2QFPGE-g_aem_P_J6jra4CH1CAIxNqSkL5Q

Rescued diary in Hong Kong sheds light on Chinese involvement in D-Day

<https://www.nbcnews.com/news/world/rescued-diary-hong-kong-sheds-light-chinese-involvement-d-day-rcna171766>

Skeletal remains in a castle well lend credence to a centuries-old Norse saga

<https://www.nbcnews.com/news/world/skeletal-remains-castle-well-man-norse-saga-rcna177551>

The true story of a famed librarian and the secret she guarded closely

https://www.npr.org/2024/10/28/nx-s1-5159998/the-true-story-of-a-famed-librarian-and-the-secret-she-guarded-closely?utm_source=facebook.com&utm_campaign=npr&utm_term=nprnews&utm_medium=social&fbclid=IwY2xjawGN-LxleHRuA2FlbQlXMQABHYuThPKKXXANSM6vRblhfeeU7XFQjNfpWfRt6R6PCuypt4MmpBWbY M688Q_aem_Mk3Fy4YVBjmrPZasmyhDwQ

America's first Native American cabinet secretary says she's righting historical wrongs

<https://www.npr.org/2024/10/30/g-s1-29217/americas-first-native-american-cabinet-secretary-says-shes-righting-historical-wrongs>

5 missing persons cases remain unsolved in the Great Smoky Mountains National Park

<https://www.wate.com/news/lonely-bones/5-missing-persons-cases-remain-unsolved-in-the-great-smoky-mountains-national-park/>

Stop taking Bonhoeffer's name in vain, his relatives and scholars warn Eric Metaxas, Project 2025

<https://religionnews.com/2024/10/21/stop-taking-bonhoeffers-name-in-vain-scholars-warn-eric-metaxas-and-other-christian-nationalists/>

Isotope study reveals medieval people prioritized cereal farming, used fertilization, and organized land efficiently

https://phys.org/news/2024-11-isotope-reveals-medieval-people-prioritized.html#google_vignette

How far south did Polynesian seafarers sail?

<https://phys.org/news/2024-10-south-polynesian-seafarers.html>

This 19th-Century 'Toy Book' Used Science to Prove That Ghosts Were Simply an Illusion

<https://www.smithsonianmag.com/history/this-19th-century-toy-book-used-science-to-prove-that-ghosts-were-simply-an-illusion-180985347/>

The Enterprising Woman Who Built—and Lost, and Rebuilt—a Booming Empire During the Klondike Gold Rush

<https://www.smithsonianmag.com/history/enterprising-woman-belinda-mulrooney-built-booming-empire-klondike-gold-rush-180985221/>

These Rare Artifacts Tell Medieval Women's Stories in Their Own Words

<https://www.smithsonianmag.com/history/these-rare-artifacts-tell-medieval-womens-stories-in-their-own-words-180985317/>

When the Nazis Seized Power, This Jewish Actor Took on the Role of His Life

<https://www.smithsonianmag.com/history/when-nazis-seized-power-this-jewish-actor-took-on-role-life-180985228/>

Archaeology

Lost Maya city with temple pyramids and plazas discovered in Mexico

<https://www.theguardian.com/world/2024/oct/29/lost-maya-city-valeriana-mexico-temple-pyramids-plazas>

Sunken Temple of Ancient Arabian Civilization Found off Italy

https://www.scientificamerican.com/article/underwater-temple-from-indiana-jones-civilization-discovered/?utm_source=facebook&utm_campaign=socialflow&utm_medium=social&fbclid=IwY2xjawGPGCFleHRuA2FlbQIxMQABHe3H2iDUmYY8tKD_9C33D96cqtefgCCATtPZn0wrdcXsOiY6JShov6zJQg_aem_Ljbt4gc8diLIMkrpFN-JwQ

Tunic found in one of the Royal Tombs at Vergina identified as Alexander the Great's

https://phys.org/news/2024-10-tunic-royal-tombs-vergina-alexander.html?fbclid=IwY2xjawGPa0xleHRuA2FlbQIxMQABHYHqfwWJJN-HmHsB1EIVjyUKYwneHtaCSDpSTry2NrP4aFfNdGe_FyN17g_aem_VDPbRBgHhrwUkc4hAyy5bw#google_vignette

Ancient Babylonian Tablet May Reveal the Location of Noah's Ark

<https://news.artnet.com/art-world/ancient-babylonian-tablet-noah-ark-2561994>

Archaeologists discover 4,000-year-old Bronze Age settlement hidden in Saudi Arabian oasis

https://www.livescience.com/archaeology/archaeologists-discover-4-000-year-old-bronze-age-settlement-hidden-in-saudi-arabian-oasis?utm_source=facebook.com&utm_content=livescience&utm_campaign=socialflow&utm_medium=social&fbclid=IwY2xjawGQortleHRuA2FlbQIxMQABHW4hjltTzM0klGLp_9Ezk14-vz1s9U8ocxXsHTVQd79WfEbWvCYlvqGStA_aem_1KdPsXvgX0ti1zs8fwlWWQ

Archaeologists uncover underground tunnels beneath Mexican city associated with the god of death

<https://www.ipost.com/archaeology/archaeology-around-the-world/article-826619>

Human Skeletal Remains of the Mary Rose Shipwreck Give Insight to Health of the Crew

<https://www.discovermagazine.com/the-sciences/human-skeletal-remains-of-the-mary-rose-shipwreck-give-insight-to-health-of>

International team uncovers long-sought sanctuary of Poseidon near Samikon, Greece

https://www.ipost.com/archaeology/archaeology-around-the-world/article-827006#google_vignette

Gate sanctuary discovered at Minoan palace excavation

<https://www.ekathimerini.com/news/1251725/gate-sanctuary-found-at-minoan>

Appeals made after WW2 plane crash discovery

<https://www.bbc.com/news/articles/ckqv28vlnpvo>

Ancient pottery with bright colours reveal unknown civilization from the banks of the Danube

<https://bnt.bg/news/ancient-pottery-with-bright-colours-reveal-unknown-civilization-from-the-banks-of-the-danube-333413news.html>

The Many Faces of the Kingdom of Shu

<https://archaeology.org/issues/november-december-2024/features/the-many-faces-of-the-kingdom-of-shu/>

Egyptology

Archaeologists Uncover Long-Hidden Details in Ancient Egyptian Temple Art

<https://www.newsweek.com/archaeologists-uncover-details-temple-esna-egypt-1975111>

1st Egyptian Middle Kingdom era tomb uncovered in Asasif necropolis

<https://english.ahram.org.eg/News/534510.aspx>

Egyptian Crocodile Hunt

<https://archaeology.org/issues/november-december-2024/digs-discoveries/egyptian-crocodile-hunt/>

General Science

UCLA chemists just broke a 100-year-old rule and say it's time to rewrite the textbooks

<https://www.eurekalert.org/news-releases/1062561>

Quantum computers are here — but why do we need them and what will they be used for?

<https://www.livescience.com/technology/computing/quantum-computers-are-here-but-why-do-we-need-them-and-what-will-they-be-used-for>

Physics, Earth and Space Sciences

Venus atmosphere sample return noted in China's long-term space science roadmap

<https://spacenews.com/venus-atmosphere-sample-return-noted-in-chinas-long-term-space-science-roadmap/>

NASA astronaut hospitalized after return from space station

<https://www.nbcnews.com/science/space/nasa-astronaut-hospitalized-return-space-station-rcna177386>

The leaders of India and Spain launch India's first private military aircraft plant

<https://apnews.com/article/india-spain-modi-pedro-sanchez-tata-airbus-c2fa7e510dcfd5d4c4249b56e333e593>

Satellites making up China's 'Thousand Sails' found to be exceeding brightness limits

https://phys.org/news/2024-10-satellites-china-thousand-exceeding-brightness.html?fbclid=IwY2xjawGN-PtleHRuA2FlbQlXMQABHZbBXeiWc1PeQswIaczYArFvSgkd91lirHQ1nnqjCTgnYmi4MoVcEZwZJg_aem_tT83BKclqYajC1nax6ZCSA

NASA delays decision on Chandra and Hubble cuts

<https://spacenews.com/nasa-delays-decision-on-chandra-and-hubble-cuts/>

India to target moon's south pole with sample return mission

<https://spacenews.com/india-to-target-moons-south-pole-with-sample-return-mission/>

Most space travelers face the same debilitating ailment. The experience of 4 civilian astronauts could offer answers

<https://www.cnn.com/2024/10/25/science/spacex-polaris-dawn-astronaut-health/index.html>

A near-Earth microquasar emerges as a source of powerful radiation

<https://phys.org/news/2024-10-earth-microquasar-emerges-source-powerful.html>

African Sahara 'greening' can alter Northern Hemisphere climate, modeling study finds

<https://phys.org/news/2024-11-african-sahara-greening-northern-hemisphere.html>

Scientists prepare for the most ambitious sky survey yet, anticipating new insight on dark matter and dark energy

<https://phys.org/news/2024-11-scientists-ambitious-sky-survey-insight.html>

Chinese space station crew returns after six months in orbit

<https://phys.org/news/2024-11-chinese-space-station-crew-months.html>

The International Space Station Has Been Leaking for Five Years

<https://www.scientificamerican.com/article/the-international-space-station-has-been-leaking-for-five-years/>

Environment, Climate Change and Alternative Energy Sources

To save nature, world leaders aim to turn words into action at biodiversity summit

<https://www.npr.org/2024/10/18/nx-s1-5147426/cop16-biodiversity-summit>

More than a third of all trees species at risk of extinction, global assessment finds

<https://www.cbsnews.com/news/tree-species-extinction-risk-global-assessment-finds/>

Offshore wind looked like a sure thing for Oregon — until it wasn't. What went wrong?

<https://www.opb.org/article/2024/10/23/oregon-wind-energy-offshore-turbine-technology-climate-renewable-boem-greenhouse-gas-emissions/?s=09>

Biological, Genetics and Medical Sciences

Florida's declining lovebug population may make for cleaner windshields — but it signals a troubling trend

<https://www.wuft.org/environment/2024-10-21/floridas-declining-lovebug-population-may-make-for-cleaner-windshields-but-it-signals-a-troubling-trend?s=09>

Right whale population grows 4% but extinction remains a threat

https://apnews.com/article/Endangered-right-whales-deaths-oceans-fishing-af43c6116421e7eff9ede5f9ca9a5066?utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Facebook&fbclid=IwY2xjawGEiW5leHRuA2FlbQlXMQABHc2mJxktx1RqrZvhQnUn2rWILBb7qrm17ux6asTpg7LxQUgZDRRCd79P7Q_aem_GrW_S9yP32_VUnBZudOn8w

DNA stores data in bits after epigenetic upgrade

https://www.nature.com/articles/d41586-024-03443-w?fbclid=IwY2xjawGHfcleHRuA2FlbQlXMAABHS-U7npib2PVOjEj-i5uP7ONcP0BTEHY16DfJBRjjsw2TEzd4uxWvzerVA_aem_x-OkfotEOhza0dluRYFmMw

Avatars and AI to tackle mental health

https://www.scidev.net/global/news/avatars-and-ai-to-tackle-mental-health/?utm_source=SciDev.Net&utm_medium=email&utm_campaign=14727493_2024-10-28%20Weekly%20Email%20Digest%20-%20Global%20Template.%20For%20no%20topic%20preferences&dm_i=1SCG,8RNT1,V1AOM,10GB3P,1

In a 1st, scientists reversed type 1 diabetes by reprogramming a person's own fat cells

<https://www.livescience.com/health/diabetes/in-a-1st-scientists-reversed-type-1-diabetes-by-reprogramming-a-persons-own-fat-cells>

What really caused encephalitis lethargica, the mysterious disease described in the movie "Awakenings"?

<https://www.livescience.com/health/neuroscience/what-really-caused-encephalitis-lethargica-the-mysterious-disease-described-in-the-movie-awakenings>

Something to sniff at: Lab-engineered receptors illuminate odor detection

<https://phys.org/news/2024-11-lab-receptors-illuminate-odor.html>

Report reveals how the state of our oceans is intrinsically linked to human health

<https://phys.org/news/2024-11-reveals-state-oceans-intrinsically-linked.html>

Other

Nothing to report

Additional Informational

FOR STUDENTS AND TEACHERS: KRISTALLNACHT, KINDERTRANSPORT, AND RETURN TO LIFE: A CONVERSATION WITH HOLOCAUST SURVIVOR RENATE ZELOVIC Webinar, Nov 7

<https://info.echoesandreflections.org/renate-survivor-krstl>

Space in the 2024 elections

https://www.planetary.org/articles/space-in-the-2024-elections?utm_campaign=downlink&utm_medium=email&utm_source=20241025&s_src=downlink&s_subsrc=20241025

Columbia University, Master of Science (MS) in Climate Program

<https://www.climate.columbia.edu/ms-climate>

Biden-Harris Administration Announces Nearly \$82 Million To Bring Clean Drinking Water to Tribal Communities

<https://content.govdelivery.com/accounts/USDOJ/bulletins/3bf39cc>

WMO Greenhouse Gas Bulletin No. 20

<https://wmo.int/publication-series/wmo-greenhouse-gas-bulletin-no-20>

Asteroid Institute Annual Progress Report 2024

https://b612foundation.org/wp-content/grand-media/application/2024_Asteroid_Institute_AnnualProgressReport.pdf

Identities Destroyed, Histories Revised: The Targeting of Cultural Heritage and Soft Targets by Illicit Actors

<https://thesoufancenter.org/research/identities-destroyed-histories-revised-the-targeting-of-cultural-heritage-and-soft-targets-by-illicit-actors/>

Splat or subsurface ocean? The mysterious positioning of Pluto's heart

https://www.planetary.org/planetary-radio/2024-pluto-splat?utm_campaign=downlink&utm_medium=email&utm_source=20241101&s_src=downlink&s_subsrc=20241101

New Report Shows NASA's \$75.6 Billion Boost to US Economy

<https://www.nasa.gov/news-release/new-report-shows-nasas-75-6-billion-boost-to-us-economy/>

ACS3, NASA's Advanced Composite Solar Sail System

https://www.planetary.org/space-missions/acs3?utm_campaign=downlink&utm_medium=email&utm_source=20241101&s_src=downlink&s_subsrc=20241101

New use cases highlight critical role of seabed mapping in driving ocean sustainability and innovation

https://seabed2030.org/2024/10/07/new-use-cases-highlight-critical-role-of-seabed-mapping-in-driving-ocean-sustainability-and-innovation/?fbclid=IwY2xjawGRzs1leHRuA2FlbQlXMQABHZ7fNBAAQJeBIXcKQNRLDqAJjJlbi_017C56NL85Lw_qECuBe8mp2TOKrg_aem_XPU8BP_EA6Jl67gEMFbhTw

Fifteen Colonial Thefts: A Guide to Looted African Heritage in Museums

<https://www.jstor.org/stable/jj.13286162>

International Bonhoeffer Society, Stop Misusing Dietrich Bonhoeffer to Support Political Violence and Christian Nationalism Petition

https://www.change.org/p/stop-misusing-dietrich-bonhoeffer-to-support-political-violence-and-christian-nationalism?utm_medium=custom_url&utm_source=share_petition&recruited_by_id=992a96d8-c074-43b6-a993-92f8c898643a

New Report Documents Damage to Ancient Ukrainian Burial Mounds

https://uscbs.org/report-damage-kurgans/?fbclid=IwY2xjawF498hleHRuA2FlbQlXMQABHVjEHTM8rV8F3-FXfSumWzE49ovN_BzeukcMYcpsjIAfLc-myxqBSGpxcQ_aem_xQrD04EAEcSc7ODRvX_P1w&sfnsn=mo

Earth observation technology trends for climate intelligence

https://www.media.mit.edu/projects/earth-observation-technology-trends-for-climate-intelligence/overview/?fbclid=IwY2xjawGDpV9leHRuA2FlbQlXMQABHenvKtfX8hAJRvqsDGvS5Z-54A8eN6tphTd23e49uWkdn-RHnvxsmr855Q_aem_DjS-8URenKxYofW9zJ28cg

ALIPH: First emergency measures to protect cultural heritage in Lebanon

https://www.aliph-foundation.org/storage/wsm_presse/Vnrj1EBKW3HEXyfqFUjaDufNO2QN21W697qqvYNs.pdf

Woods Hole Oceanographic Institute Ocean Insights

https://explore.whoi.edu/the-immersive-twilight-zone-extreme-divers-creep-it-weird-merch?ecid=ACsprvuOYAL3EcrKDvyYsiX1K8l_KL0rSoOL_GUSd7Xg8tm6pm9gBwsTrG-ahOQQPZ4dSxapuHQ&utm_campaign=Ocean%20Insights%202024&utm_medium=email&hse_nc=p2ANqtz-_pxp9WPLaND7aDrgRA8NEPGCqAi51ntECZPxfEHISldQY4IaxrKMZ61sPJNbsEx3N4ftjeXY9sz3O1xAiD8yl4Xj2-PjLaJmcm42l_TBubic8V_Ms&hsmi=331818160&utm_content=331818160&utm_source=hs_email