



Sharing Knowledge to create a Better World!



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Weekly Science Report

July 28, 2023

“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/weeklysciencertp/>
- Twitter: <https://twitter.com/wklysciencertp>

News Articles

Paleontology, Evolution and Prehistoric Studies

Ancient DNA reveals the earliest evidence of the last massive human migration to Western Europe

https://theconversation.com/ancient-dna-reveals-the-earliest-evidence-of-the-last-massive-human-migration-to-western-europe-210056?utm_medium=Social&utm_source=Twitter#EchoBox=1689809940-1

The Gravettian Culture that Survived an Ice Age

https://www.discovermagazine.com/the-sciences/the-gravettian-culture-that-survived-an-ice-age?utm_campaign=organicsocial&utm_content=new_research_sheds_lights&utm_medium=social&utm_source=facebook&fbclid=IwAR0a-U4dAaFtF74A1DxJ2bCgtviGenZJepxVNDQqIKItlo_00d66lgkhfEA

Humans May Have Arrived in the Americas Earlier Than Previously Thought

<https://www.smithsonianmag.com/smart-news/humans-south-america-sloth-bones-180982531/>

Deadly Stick Recovered from Germany Dates to 300,000 Years Ago

<https://www.discovermagazine.com/the-sciences/deadly-stick-recovered-from-germany-dates-to-300-000-years-ago>

Surviving a Windswept Land

<https://www.archaeology.org/issues/518-2307/letter-from/11524-patagonia-hunter-gatherers>

DNA Reveals Neolithic Family Tree in France

<https://www.archaeology.org/news/11616-230727-france-neolithic-family>

New insights into the origin of the Indo-European languages

<https://www.eurekalert.org/news-releases/996768>

New dinosaur species discovered in Thailand

<https://phys.org/news/2023-07-dinosaur-species-thailand.html>

History

Yet again, a US court dismisses Nazi-era Guelph Treasure art lawsuit

<https://www.theartnewspaper.com/2023/07/18/once-again-a-us-court-dismisses-guelph-treasure-art-lawsuit>

Meet The Brothers Who Created An Alphabet To Preserve Language And Culture Across West Africa

https://www.essence.com/culture/preserve-language-west-africa/?utm_source=flipboard&utm_content=tika5%2Fmagazine%2FOdd+Things

Maine calls to restore 19th century tribal obligations to the constitution. Voters must now decide

<https://apnews.com/article/maine-constitution-wabanaki-tribe-obligations-referendum-ad27cf703b973879fa3175d8e6633424>

DNA Analysis Reveals Minoan and Mycenaean Genetic Origins

<https://greekreporter.com/2023/07/21/minoan-mycenaean-dna/>

Black deaf students who attended 1950s segregated school will finally get their high school diplomas

<https://wtop.com/dc/2023/07/black-deaf-students-who-attended-1950s-segregated-school-will-finally-get-their-high-school-diplomas/>

White House to establish national monument honoring Emmett Till

<https://www.cbsnews.com/news/national-monument-honoring-emmett-till-to-be-established-mississippi-illinois-biden-administration/>

Calls to protect Sudan's rich and ancient heritage amid ongoing war

<https://www.irishtimes.com/world/africa/2023/07/21/calls-to-protect-sudans-rich-and-ancient-heritage-amid-ongoing-war/>

Sophia Duleep Singh: Indian princess who fought for women to vote in UK

<https://www.bbc.com/news/world-asia-india-66220501>

Wounded Knee 'killing fields' one step closer to return to tribes

<https://ictnews.org/news/wounded-knee-killing-fields-one-step-closer-to-return-to-tribes?fbclid=IwAR2Jrwpdxz492dfmrEhgZ2aRglFdxareEoZLKzWYSMPqne38OcjYMhpNac>

Rumi: Why show about the Sufi mystic could be Turkish television's next Ertugrul

https://www.middleeasteye.net/discover/turkey-rumi-tv-series-ertugrul-success?utm_source=facebook&utm_medium=social&utm_campaign=Social+Traffic&utm_content=ap_81zj020trm&fbclid=IwAR0LRzYzvR2yb_UqZtLnnsJ932QWnM-TOA2r0BYdAZhPDc8K0rc3Njef_fU

Ancient DNA reveals diverse community in 'Lost City of the Incas'

<https://phys.org/news/2023-07-ancient-dna-reveals-diverse-community.html>

How an English Exile Ended Up at the Court of Genghis Khan's Grandson

<https://www.smithsonianmag.com/history/how-an-english-exile-ended-up-at-the-court-of-genghis-khans-grandson-180982598/>

How Many Died in Nazi Concentration Camps on British Soil?

<https://www.smithsonianmag.com/smart-news/alderney-channel-islands-nazi-concentration-camps-180982609/>

Archaeology

'Thunder floor' found at ancient Andean site in Peru

<https://www.theartnewspaper.com/2023/07/18/ancient-dance-floor-sounding-platform-andes-peru-archaeological-discovery>

Israeli Antiquities Are Stranded at Trump's Florida Estate as Authorities Fail to Retrieve Them

<https://www.haaretz.com/israel-news/2023-07-18/ty-article/.highlight/israeli-antiquities-remain-stranded-at-trumps-estate-as-authorities-fail-to-retrieve/00000189-6448-dc6b-a3f9-ee593e850000>

Mysterious 2,500-Year-Old Skeletons Found in Israel's Negev Desert

https://www.smithsonianmag.com/smart-news/2500-year-old-skeletons-israel-negev-desert-180982505/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=7162023&utm_content=recent&fbclid=IwAR2tQfdXwiEEfXAY5XRMskF_xn_xTYV8Gdjs1AdKEMKxS9LymEDkAlxGMYc

Why Do Archaeologists Rebury Their Excavations?

<https://www.smithsonianmag.com/history/why-do-archaeologists-rebury-their-excavations-180982542/>

74 Years Later, the Wreck of an Aircraft Carrier Disabled by Kamikazes Has Finally Been Found

<https://www.popularmechanics.com/military/navy-ships/a44532547/uss-ommaney-bay-wreck-discovered/>

Bronze Age discovery made at Shetland spaceport site

<https://www.bbc.com/news/uk-scotland-north-east-orkney-shetland-66259713>

Unproven numbers distract from the real harm of the illicit antiquities trade, says study

<https://phys.org/news/2023-07-unproven-distract-real-illicit-antiquities.html>

In new space race, scientists propose geoarchaeology can aid in preserving space heritage

<https://www.sciencedaily.com/releases/2023/07/230721113214.htm>

Researchers reconstruct earliest known composite-tiled roofs

<https://phys.org/news/2023-07-reconstruct-earliest-composite-tiled-roofs.html>

Archaeologists Uncover Oldest Evidence of 'Curry' Outside of India

<https://www.smithsonianmag.com/smart-news/archaeologists-uncover-oldest-evidence-of-curry-outside-of-india-180982589/>

Ancient human remains found in County Armagh

<https://www.bbc.com/news/uk-northern-ireland-66325262>

Isles of Scilly Iron Age warrior was probably a woman

<https://www.bbc.com/news/uk-england-cornwall-66314179>

The Palace on Tablet Hill

<https://www.archaeology.org/issues/516-2307/digs/11508-iraq-girsu-tablet-hill-palace>

Egyptology

X-Rays Uncover the Secrets of 3,000-Year-Old Egyptian Paintings

https://www.smithsonianmag.com/smart-news/x-rays-egyptian-necropolis-paintings-180982535/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=7172023&utm_content=new&fbclid=IwAR3TSLz0IA7sU9dDaJQhbr3ANwdgZdbyL8YIISHYVQsMPybS21DGGQ3xAIW0

A Surprise in Sudan

<https://www.archaeology.org/issues/516-2307/digs/11507-sudan-old-dongola-inscriptions>

General Science

Nothing to report

Physics, Earth and Space Sciences

Returning to the Moon can benefit commercial, military and political sectors – a space policy expert explains

<https://theconversation.com/returning-to-the-moon-can-benefit-commercial-military-and-political-sectors-a-space-policy-expert-explains-209300>

Mars rover is spying on the sun's far side to hunt for hidden, dangerous sunspots

https://www.livescience.com/space/mars/mars-rover-is-spying-on-the-suns-far-side-to-hunt-for-hidden-dangerous-sunspots?utm_campaign=socialflow&utm_source=facebook.com&utm_content=livescience&utm_medium=social&fbclid=IwAR1Z_Et0a8PbkQX1OYW9x7TtsNXHkvUUDQjzm2xF2mT5Of4JZHO5j00PkNw

Researchers operating Gamma-ray Burst Monitor discover brightest gamma-ray burst ever detected

<https://phys.org/news/2023-07-gamma-ray-brightest.html?fbclid=IwAR1xsEi2D72HAyfsj8xzOh5rzd59YAc4UElt9oRQpuJJTTf5nl9fRmMRkk>

“The Little Book of Aliens” is your guide to the biggest question ever asked

https://bigthink.com/13-8/little-book-aliens-adam-frank/?fbclid=IwAR1MW4hxG2EEw8MEQzBttJatCEE2bZO7d--NecfCqBk_UvRV3jItBCk3ZKw

Russia proposes joint research module on space station for China, India, Brazil and South Africa

<https://www.cnn.com/2023/07/25/europe/russia-space-station-module-for-brics-intl-scn-hnk/index.html>

Boeing's Starliner losses total \$1.5 billion with NASA astronauts still waiting to fly

https://www.cnn.com/2023/07/26/boeing-has-lost-1point5-billion-developing-starliner-spacecraft-for-nasa.html?utm_content=Main&utm_medium=Social&utm_source=facebook%7Cmain&fbclid=IwAR38_CCHaCI5OtAEhopJlwnsBUYfmeoK8wyvI3YJxhO7hFo49GC7ye3U1XE

'Building blocks of life' discovered on Mars in 10 different rock samples

https://www.livescience.com/space/mars/building-blocks-of-life-discovered-on-mars-in-10-different-rock-samples?utm_campaign=socialflow&utm_source=facebook.com&utm_content=livescience&utm_medium=social&fbclid=IwAR1cza94YcZYx9PkykU8koib87_MBva_2AbO-Ojd-AOehmqz4tl2O5qiVlg

Researchers discover stardust sprinkled on a nearby asteroid

<https://www.npr.org/2023/07/14/1187815750/ryugu-hayabusa-stardust-sprinkled-asteroid?sc=18&f=1001>

India launches a lander and rover to explore the moon's south pole

<https://www.npr.org/2023/07/14/1187650586/india-launches-mission-to-moon?sc=18&f=1001>

New analysis of SuperCDMS data sets tighter detection limits for dark matter

<https://phys.org/news/2023-07-analysis-supercdms-tighter-limits-dark.html>

Astronomers shed new light on formation of mysterious fast radio bursts

<https://phys.org/news/2023-07-astronomers-formation-mysterious-fast-radio.html>

Environment, Climate Change and Alternative Energy Sources

Hops for beer flourish under solar panels. They're not the only crop thriving in the shade.

https://apnews.com/article/climate-beer-solar-panels-hops-germany-ee3d00a1877837eb85053335e3b68a00?taid=64bd63a118b8f8000134c89e&utm_campaign=TrueAnthem&utm_medium=AP&utm_source=Twitter

UN watchdog delays deep-sea mining to 2024

<https://www.reuters.com/markets/commodities/un-watchdog-delays-deep-sea-mining-2024-2023-07-25/>

Tribes object. But a federal ruling approves construction of the largest lithium mine

<https://www.npr.org/2023/07/17/1188204958/tribes-object-federal-ruling-approves-lithium-mine?sc=18&f=1001>

Research highlights importance of including Indigenous cultural perspectives in coastal restoration plans

<https://phys.org/news/2023-07-highlights-importance-indigenous-cultural-perspectives.html>

Billions in conservation spending fail to improve wild fish stocks in Columbia Basin

<https://phys.org/news/2023-07-billions-wild-fish-stocks-columbia.html>

Researchers use quantum computer to identify molecular candidate for development of more efficient solar cells

<https://phys.org/news/2023-07-quantum-molecular-candidate-efficient-solar.html>

Pressure-driven distillation for fast and selective water purification

<https://techxplre.com/news/2023-07-pressure-driven-distillation-fast-purification.html>

Biological, Genetics and Medical Sciences

Undetectable HIV poses 'zero risk' of sexual transmission, WHO says

<https://www.devex.com/news/undetectable-hiv-poses-zero-risk-of-sexual-transmission-who-says-105965>

78 pilot whales were slaughtered near a cruise ship carrying marine conservationists

<https://www.npr.org/2023/07/14/1187691372/pilot-whales-cruise-ship-faroe-islands?sc=18&f=1001>

Ancient pathogens emerging from melting ice and permafrost risk eroding ecosystems

<https://www.eurekalert.org/news-releases/996618>

Researchers find an epigenetic key that unlocks common deadly cancers

<https://medicalxpress.com/news/2023-07-epigenetic-key-common-deadly-cancers.html>

A wearable ultrasound scanner could detect breast cancer earlier

<https://medicalxpress.com/news/2023-07-wearable-ultrasound-scanner-breast-cancer.html>

Other

U.S. recovered non-human 'biologics' from UFO crash sites, former intel official says
<https://www.npr.org/2023/07/27/1190390376/ufo-hearing-non-human-biologics-uaps>

Stop building giant rock cairns, Yosemite Park Rangers warn visitors
https://www.foxla.com/news/yosemite-park-service-rangers-hikers-warning-cairns-rock-formations?fbclid=IwAR1VBhAqpXzVwlp1_W68oiYLAaOjOE6FCvBFYvVE2Lc6uPaX42iEMRsY

Additional Informational

USGS and partners deploy autonomous vehicles on Lake Erie to improve fishery assessments
<https://www.usgs.gov/news/state-news-release/usgs-and-partners-deploy-autonomous-vehicles-lake-erie-improve-fishery>

Secretary Haaland Visits Northern Mariana Islands, Highlights Investments to Protect Cultural and Natural Resources
<https://www.doi.gov/pressreleases/secretary-haaland-visits-northern-mariana-islands-highlights-investments-protect#:~:text=SAIPAN%2C%20NORTHERN%20MARIANA%20ISLANDS%20%E2%80%94%20Secretary,investing%20in%20the%20natural%20and>

6 Strangest Towns in the U.S.
https://www.thediscoverer.com/blog/the-strangest-towns-in-the-us/Y_js8R6QgAAH77Jc?utm_source=blog&utm_medium=email&utm_campaign=1861071282

63 U.S. National Parks Ranked
https://www.thediscoverer.com/blog/every-us-national-park-ranked/XvHyVpKgiwAG5anO?utm_source=blog&utm_medium=email&utm_campaign=1861071282

Oppie “A very mysterious and delphic character.” Interview with Kai Bird, co-author of American Prometheus
https://thebulletin.org/premium/2023-07/oppie-a-very-mysterious-and-delphic-character-interview-with-kai-bird-co-author-of-american-prometheus/?utm_source=Twitter&utm_medium=SocialMedia&utm_campaign=TwitterPost072023&utm_content=SpecialTopics_KaiBird_07172023

Interstellar: The Search for Extraterrestrial Life and Our Future in the Stars
https://www.amazon.com/gp/product/B0BNJ4SDZT/ref=pe_851910_732165820_em_1p_1_lm

Pathogenesis: A History of the World in Eight Plagues
https://www.amazon.com/dp/B0B44VNCJQ?pd_rd_i=B0B44VNCJQ&pd_rd_w=S9k0p&content-id=amzn1.sym.68b0540f-0d07-4e54-aeb7-11c57c219a17&pf_rd_p=68b0540f-0d07-4e54-aeb7-11c57c219a17&pd_rd_wg=VYHIZ&pd_rd_r=36c58f8f-cbbe-48dd-9959-480c82c67bee&ref=pe_26987910_733141340_ssub

The Last Remaining Monuments Man Dies at 98
<https://www.monumentsmenandwomenfnd.org/post/the-last-remaining-monuments-man-dies-at-98>

Yazidi Cultural Preservation, Oral Tradition Videos
<https://www.yazda.org/culture>

The Empires of Atlantis: The Origins of Ancient Civilizations and Mystery Traditions throughout the Ages
https://www.amazon.com/gp/product/B0929J4XG6/ref=pe_851910_734091040_em_1p_1_lm

Under Alien Skies: A Sightseer's Guide to the Universe
https://www.amazon.com/dp/B0B3KJVKHC?pd_rd_i=B0B3KJVKHC&pd_rd_w=Uzjcl&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf_rd_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pd_rd_wg=OHX6q&pd_rd_r=93a3f792-5449-499a-979c-5290d0d5679d&ref=pe_26987910_734739120_ssub

The Rise and Reign of the Mammals: A New History, from the Shadow of the Dinosaurs to Us
https://www.amazon.com/dp/B09FK3FB79?pd_rd_i=B09FK3FB79&pd_rd_w=BWQ7j&content-id=amzn1.sym.68b0540f-0d07-4e54-aeb7-11c57c219a17&pf_rd_p=68b0540f-0d07-4e54-aeb7-11c57c219a17&pd_rd_wg=OHX6q&pd_rd_r=93a3f792-5449-499a-979c-5290d0d5679d&ref=pe_26987910_734739120_ssub

The Immortal Irishman: The Irish Revolutionary Who Became an American Hero
https://www.amazon.com/gp/product/B011H55RD6/ref=pe_27541010_735489010_em_2p_5_lm

The Ends of the World: Volcanic Apocalypses, Lethal Oceans, and Our Quest to Understand Earth's Past Mass Extinctions
https://www.amazon.com/dp/B01LZ6RXS6?pd_rd_i=B01LZ6RXS6&pd_rd_w=SQsgb&content-id=amzn1.sym.68b0540f-0d07-4e54-aeb7-11c57c219a17&pf_rd_p=68b0540f-0d07-4e54-aeb7-11c57c219a17&pd_rd_wg=aAZxe&pd_rd_r=eee39f9f-5028-499d-baa3-a673b56f25f1&ref=pe_26987910_735747270_ssub

American Prometheus: The Triumph and Tragedy of J. Robert Oppenheimer
https://www.amazon.com/dp/B000XUBEYS?pd_rd_i=B000XUBEYS&pd_rd_w=oT1OF&content-id=amzn1.sym.68b0540f-0d07-4e54-aeb7-11c57c219a17&pf_rd_p=68b0540f-0d07-4e54-aeb7-11c57c219a17&pd_rd_wg=dGZMt&pd_rd_r=63de472a-80ad-45c2-a810-e2dfba2e6216&ref=pe_26987910_736663100_ssub

Cave of Bones: A True Story of Discovery, Adventure, and Human Origins
https://www.amazon.com/dp/B0BWL6T4?pd_rd_i=B0BWL6T4&pd_rd_w=aQVfl&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf_rd_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pd_rd_wg=dGZMt&pd_rd_r=63de472a-80ad-45c2-a810-e2dfba2e6216&ref=pe_26987910_736663100_ssub

Monuments Men and Women Foundation Newsletter
<https://bos.etapestry.com/prod/viewEmailAsPage.do?erRef=1237.0.5911409&databaseld=MonumentsMenFoundationFortheP&mailingId=45065630&jobRef=1237.0.87829642&key=4e8412ad48562e3c9934f45c3e144d48&personaRef=1237.0.5911408&memberId=1638661242>

Q&A: HOW THE IMO IS WORKING TO MAKE GLOBAL SHIPPING GREENER
https://unfoundation.org/blog/post/qa-how-the-imo-is-working-to-make-global-shipping-greener/?utm_source=newsletter&utm_medium=email&utm_campaign=July

The Edge of Knowledge: Unsolved Mysteries of the Cosmos
https://www.amazon.com/dp/B0BQJV98KB?pd_rd_i=B0BQJV98KB&pd_rd_w=Kuz6X&content-id=amzn1.sym.e87276dc-ecb8-4d8d-8a65-389f2526c357&pf_rd_p=e87276dc-ecb8-4d8d-8a65-389f2526c357&pd_rd_wg=VYHIZ&pd_rd_r=36c58f8f-ccbe-48dd-9959-480c82c67bee&ref=pe_26987910_733141340_ssub

The Ancient Language of Sacred Sound: The Acoustic Science of the Divine
https://www.amazon.com/gp/product/B08KRL8QND/ref=pe_851910_734091040_em_1p_7_lm

The Little Book of Aliens
https://www.amazon.com/Little-Book-Aliens-Adam-Frank/dp/0063279738/ref=sr_1_1?crid=3RL0DFVZK8303&keywords=The+Little+Book+of+Aliens&qid=1690290507&prefix=the+little+book+of+aliens%2Caps%2C61&sr=8-1