

**Weekly Science Report
December 3, 2021**

“To say you have no choice is a failure of imagination.”
Jean Luc Picard

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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

Giant moa find suggests moa were native to Rakiura

<https://phys.org/news/2021-11-giant-moa-native-rakiura.html?fbclid=IwAR3QWR0OLy5P0xJ9jOP65ZfuoTODaVUKo7NspwQbgaTbyxpa48QMePU1Yic>

10,800 Years Ago, Early Humans Planted Forest Islands in Amazonia's Grasslands

https://www.discovermagazine.com/planet-earth/10-800-years-ago-early-humans-planted-forest-islands-in-amazonias-grasslands?utm_source=dscfb&utm_medium=social&utm_campaign=dscfb&fbclid=IwARONWMO0tWAsFf1uXttl7dxj8Uz63IU_RshYDObhCQ6MFHT-PuMHbgwtHGo

Ancient Mammoth Tusk discovered 10,000 feet deep in ocean off California coast

https://thehill.com/changing-america/enrichment/583430-ancient-mammoth-tusk-discovered-10000-feet-deep-in-ocean-off?fireglass_rsn=true#fireglass_params&tabid=a0d37c7f9a282cba&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Grad student finds a new saber-toothed species in a museum collection

https://phys.org/news/2021-12-grad-student-saber-toothed-species-museum.html?fbclid=IwAR3W5Zk5V3laMqRWdb8NoKbR-VRPMY5eG_ApS4vp_sePv2T7A4TfbXliFWs

Humans Are Doomed to Go Extinct

https://www.scientificamerican.com/article/humans-are-doomed-to-go-extinct/?fbclid=IwAR23roMUIGjJMY--CptomwkUNdatoh9STGJEUSn6g6g6c0UxW8XAD_quc

Duck-billed dinosaur may be one of many at Missouri site

https://apnews.com/article/science-travel-lifestyle-dinosaurs-fossils-562f56dc531e1e71a2df85c30a032d1b?utm_source=Facebook&utm_campaign=SocialFlow&utm_medium=AP&fbclid=IwAR3ZG2cu-jpUzeotu-Mjxsz5rsQO0tRdG0dNZkEMesep3BkxypOYG_LAbdY&fireglass_rsn=true#fireglass_params&tabid=aecf2ba6ba2dd173&start_with_session_counter=2&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Molecular analysis reveals the oldest Denisovan fossils yet

https://phys.org/news/2021-11-molecular-analysis-reveals-oldest-denisovan.html?fbclid=IwAR3huzLKIbjvf74_Cv9W9xQMfaPFrK4ahZ4DSMJ0jKqN_7828p1bu1D_Upo

Ancient footprints suggest a mysterious hominid lived alongside Lucy's kind

https://www.sciencenews.org/article/ancient-footprints-mysterious-hominid-lucy-species?fbclid=IwAR0AGLJ_Dhv2fpd4GEpv54tbR5VimYTjvDamQc-E57-uHJVL3f20mWAOc_s

Mammoth ivory pendant is oldest decorated jewellery found in Eurasia

<https://www.newscientist.com/article/2299071-mammoth-ivory-pendant-is-oldest-decorated-jewellery-found-in-eurasia/>

New Australopithecus sediba bones suggest extinct hominin was bipedal

<https://www.newscientist.com/article/2298635-new-australopithecus-sediba-bones-suggest-extinct-hominin-was-bipedal/>

Evidence found of genetic evolution in Europeans over past several thousand years
<https://phys.org/news/2021-11-evidence-genetic-evolution-europeans-thousand.html>

Prehistoric moms cared for kids better than we thought
<https://phys.org/news/2021-11-prehistoric-moms-kids-thought.html>

Ancient case of disease spillover discovered in Neanderthal man who got sick butchering raw meat
<https://www.cnn.com/2021/11/25/europe/ancient-spillover-neanderthal-brucellosis-disease-human-scn/index.html>

History

How a New Accent Overtaken BBC Tradition and Messed With the Nazis

https://www.smithsonianmag.com/smart-news/how-north-england-voice-overtaken-bbc-tradition-180967208/?utm_source=facebook.com&utm_medium=socialmedia&fbclid=IwAR1ubfwALIXh3uZRm0HYpyMR83oPe0zhpY7xyYKSotJvGduD_oZ6fD9vS0

Documentary 'Bounty' confronts colonial death warrants against Indigenous people

<https://www.wbur.org/news/2021/11/15/documentary-bounty-colonialism-death-warrants-indigenous-people>

YIVO is professionalizing, growing and reviving a lost world

https://ejewishphilanthropy.com/yivo-is-professionalizing-and-in-part-due-to-the-pandemic-growing/?fbclid=IwAR0Z-T7TpTkOc-S6U6Vunwsulfz7C43WWKabtX2SQhdgNrzS9RxIkbKwyw&fireglass_rsn=true#fireglass_params&tabid=a8cbe0c8bb703315&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

The destruction of Yazidi heritage under ISIS: Report

<https://www.rudaw.net/english/middleeast/iraq/151120212?s=09>

2 men convicted of killing Malcolm X expected to be exonerated

<https://www.nbcnews.com/news/us-news/two-men-convicted-killing-malcolm-x-expected-exonerated-rcna5891>

After a 52-year chase, authorities ID the man behind an infamous Ohio bank heist

<https://www.npr.org/2021/11/14/1055659885/cleveland-ohio-bank-robber-identified-marshals-service?sc=18&f=1001>

More Republican leaders try to ban books on race, LGBTQ issues

<https://www.npr.org/2021/11/13/1055524205/more-republican-leaders-try-to-ban-books-on-race-lgbtq-issues?sc=18&f=1001>

DNA analysis confirms 2,000-year-old sustainable fishing practices of Tsleil-Waututh Nation

<https://phys.org/news/2021-11-dna-analysis-year-old-sustainable-fishing.html>

Justinianic Plague was nothing like flu and may have struck England before it reached Constantinople, new study suggests

<https://phys.org/news/2021-11-justinianic-plague-flu-struck-england.html>

Why Did This Chinese City of Canals Collapse in the Third Millennium B.C.E.?

https://www.smithsonianmag.com/smart-news/climate-change-was-culprit-in-collapse-of-ancient-chinese-culture-180979149/?utm_source=facebook.com&utm_medium=socialmedia&fbclid=IwAR1woZ0L9TsdjVsaZ0GQXCbqFfK2I9hsXCPRVWxjoZiRrO4c_TctdtjS2o

German Museum Acquires 15,000 Artifacts Documenting the History of Anti-Semitism

https://www.smithsonianmag.com/smart-news/german-museum-acquires-15000-artifacts-reflecting-history-of-antisemitism-180979050/?utm_source=facebook.com&utm_medium=socialmedia&fbclid=IwAR1eL2CRAFm1mx6F3i2QTu99MAILgYfcq0gKh1d_hjnlh8bYkHRSyuuKlw

A journey to Cherokee, the sovereign nation in N.C.

https://abc11.com/native-american-heritage-month-nahm-chokeee-covid-19/11246940/?fireglass_rsn=true#fireglass_params&tabid=af23b9c0bf688556&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

What really happened at Wounded Knee, the site of a historic massacre

https://www.nationalgeographic.com/history/article/what-really-happened-at-wounded-knee-the-site-of-a-historic-massacre?cmpid=org=ngp::mc=social::src=facebook::cmp=editorial::add=fb20211119history-woundedkneehistory&linkId=140839641&fbclid=IwAR0qAP_yWzrHlq6OWni9CJg01neRG2WxAfOm6Es1Ky1daQJ8nOmh367eXQ&fireglass_rsn=true#fireglass_params&tabid=a89eb425cd83f0d2&start_with_session_counter=2&application_server_address=isolation1-eu-central-1.wss.prod.fire.glass

Florida clears Groveland Four of 1949 rape of white woman

https://apnews.com/article/florida-fort-lauderdale-race-and-ethnicity-racial-injustice-3615a4656453cd59761ae314d3f456fc?utm_campaign=SocialFlow&utm_source=Facebook&utm_medium=AP&fbclid=IwAR3oGsjz_kHQxG9SY13KsfKBvwZMfvESDFooOJG3Kmk5ghG8GuQU-QLDK2Q&fireglass_rsn=true#fireglass_params&tabid=aae21b246d624f00&start_with_session_counter=2&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Man Who Raped And Killed 9-Year-Old Girl In 1959 Is Finally Identified

https://www.huffpost.com/entry/cold-case-murder-spokane-1959_n_6198d882e4b07fe2010c2744?d_id=2873303&ref=bffbhuffpost&ncid_tag=fcbkinkushpmg00000063&utm_medium=Social&utm_source=Facebook&utm_campaign=us_main

After a century and a half, Ethiopian artefacts return home

https://www.reuters.com/world/africa/after-century-half-ethiopian-artefacts-return-home-2021-11-22/?utm_campaign=trueAnthem%3A+Trending+Content&utm_medium=trueAnthem&utm_source=facebook

'He left in peace': Trappist monk, last survivor of the Algerian monastery massacre, dies at 97

<https://www.americamagazine.org/faith/2021/11/22/algeria-trappist-monk-schumacher-death-241891>

Ken Burns: Being American means reckoning with our violent history

https://www.washingtonpost.com/opinions/2021/11/22/ken-burns-sand-creek-massacre-american-violent-history/?utm_content=bufferac0c&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

Bison in Canada Discover Ancient Petroglyphs, Fulfilling an Indigenous Prophecy

<https://www.smithsonianmag.com/history/bison-in-canada-discover-ancient-petroglyphs-fulfilling-an-indigenous-prophecy-180979119/>

Everyone's history matters: The Wampanoag Indian Thanksgiving story deserves to be known

<https://www.smithsonianmag.com/blogs/national-museum-american-indian/2017/11/23/everyones-history-matters-and-wampanoag-indian-thanksgiving-story-deserves-be-known/>

Native American tribes are gathering in Plymouth to mourn on Thanksgiving

<https://www.npr.org/2021/11/25/1059212893/native-american-tribes-are-gathering-in-plymouth-to-mourn-on-thanksgiving?sc=18&f=1001>

Former slaves brought Thanksgiving to Liberia — and rebooted it

<https://www.npr.org/sections/goatsandsoda/2021/11/24/1057267834/former-slaves-brought-thanksgiving-to-liberia-and-rebooted-it?sc=18&f=1001>

Alaskan museum uncovers unique art from the indigenous Tlingit tribe

<https://www.npr.org/2021/11/27/1059490241/alaskan-museum-uncovers-unique-art-from-the-indigenous-tingit-tribe>

The superfoods that fueled ancient Andeans through 2,500 years of turmoil

<https://phys.org/news/2021-11-superfoods-fueled-ancient-andeans-years.html>

New Memorials in Berlin Honor the Holocaust's Overlooked Black Victims

<https://www.smithsonianmag.com/smart-news/berlin-memorials-honor-black-holocaust-victims-180979156/>

A Behind-the-Scenes Look at the New National Museum of the American Latino

<https://www.smithsonianmag.com/smithsonian-institution/a-behind-the-scenes-look-at-the-new-national-museum-of-the-american-latino-180978963/>

Archaeology

An Archaeological Dig Reignites the Debate Over the Old Testament's Historical Accuracy
https://www.smithsonianmag.com/history/archaeological-dig-reignites-debate-old-testament-historical-accuracy-180979011/?utm_source=facebook.com&utm_medium=socialmedia

The mysterious symbols found carved in Qatar's deserts
https://edition.cnn.com/travel/article/qatar-al-jassasiya-petroglyphs-cmd/index.html?utm_medium=social&utm_source=fbCNNi&utm_content=2021-11-22T16%3A03%3A04&utm_term=link&fbclid=IwAR0yp4dOdZbTC8XXtbxXiSGIf6pVPnydIHdf1SUWqykjOQbCkboVPxrlLx0&fireglass_rsn=true#fireglass_params&tabid=a6c40bc670442719&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Native American leaders say Chaco prayers being answered
https://www.washingtonpost.com/business/native-american-leaders-say-chaco-prayers-being-answered/2021/11/25/f0545624-4e09-11ec-a7b8-9ed28bf23929_story.html?fireglass_rsn=true#fireglass_params&tabid=a623a99838d7cfad&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

A Botched Restoration Left These Ancient Cambodian Statues With Swapped Limbs
<https://www.smithsonianmag.com/smart-news/museums-swap-stone-limbs-and-restore-two-cambodian-masterpieces-to-their-former-glory-180979072/>

Found: One of the Oldest Burial Sites in the Amazon
https://www.atlasobscura.com/articles/ancient-skeletons-amazon-rainforest?utm_medium=atlas-page&utm_source=facebook&fbclid=IwAR0LmH0J4op8V68G8gQ2fKxv_u4MltNcvf9XAOWJwxiiyf2BCqTTxdQemnk

Peruvian mummy that's at least 800 years old found by archeologists in Lima
https://www.cnn.com/2021/11/28/americas/peru-mummy-discovery-archeology-funeral-scn-scli-intl/index.html?utm_source=fbCNN&utm_medium=social&utm_content=2021-11-28T22%3A00%3A05&utm_term=link&fbclid=IwAR07-KUPylf5dmWy3Kdnwdz1JEYLeQkSkAYCdnHC3dhUj43jEtWSaEnmitA&fireglass_rsn=true#fireglass_params&tabid=aa65da2a74355dfd&start_with_session_counter=2&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Samurai Nest Egg
https://www.archaeology.org/issues/304-1807/from-the-trenches/6693-trenches-japan-samurai-coin-hoard?fbclid=IwAR2jytKXM9068u9ATJr58hxBXchUzVpPDKJ_jQic3SnpTtRFAHvZOr_zNI8

Boston moves to protect ancient Native American quarry in Mattapan
<https://www.wbur.org/news/2021/11/24/boston-moves-to-protect-ancient-native-american-quarry-in-mattapan>

Global heating is destroying rock art tens of thousands of years old, experts warn
https://www.theguardian.com/artanddesign/2021/nov/16/global-heating-is-destroying-rock-art-tens-of-thousands-of-years-old-experts-warn?fireglass_rsn=true#fireglass_params&tabid=a4e7b8e291141ee7&start_with_session_counter=3&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Archaeologists discover salt workers' residences at underwater Maya site
<https://www.sciencedaily.com/releases/2021/11/211119171224.htm>

Archaeologists uncover post-conquest Aztec altar in Mexico City
<https://www.reuters.com/lifestyle/archaeologists-uncover-post-conquest-aztec-altar-mexico-city-2021-12-01/>

Egyptology

Archaeologists say they've found a lost 4,500-year-old sun temple in Egypt

https://www.cnn.com/travel/article/egypt-sun-temple-scli-intl-scn/index.html?utm_source=fbCNNi&utm_medium=social&utm_content=2021-11-15T22%3A00%3A57&utm_term=link&fireglass_rsn=true#fireglass_params&tabid=a3d44189f2bff235&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Master Artisans Fixed Mistakes Made by Apprentices at Ancient Egyptian Temple

https://www.smithsonianmag.com/smart-news/master-artisans-fixed-mistakes-by-ancient-apprentices-at-temple-in-egypt-180979097/?utm_source=facebook.com&utm_medium=socialmedia&fbclid=IwAR06j-mbcwrkJ7x4EoTEHKtiW5AXw0MCB5-2iaevQvtOIZBVXghlcysH_k

Egypt unveils renovated 'Avenue of the Sphinxes' in Luxor

<https://apnews.com/article/science-africa-middle-east-egypt-nile-river-1beac6181f4e599331510557c14343fc>

General Science

Xenobots: Team builds first living robots that can reproduce

<https://techxplore.com/news/2021-11-xenobots-team-robots.html>

Artificial intelligence helps speed up ecological surveys

https://phys.org/news/2021-12-artificial-intelligence-ecological-surveys.html?fbclid=IwAR1IqJmXdlv5ytw4EL2eqfTecYmlpX2ySygeSw3wO_dtJTQeDvLNS293t

First electric autonomous cargo ship launched in Norway

<https://techxplore.com/news/2021-11-electric-autonomous-cargo-ship-norway.html>

Physics, Earth and Space Sciences

Massive impact crater beneath Greenland could explain Ice Age climate swing

https://astronomy.com/news/2018/11/massive-impact-crater-beneath-greenland-could-explain-ice-age-climate-swing?utm_source=asyfb&utm_medium=social&utm_campaign=asyfb&fbclid=IwAR2pa24K0Cq0eBqxDgZGGtf7HAN1R_X7srNvf4fo76jL6D3UKyBIN8zHOxQ

Enigmatic Planet Nine may have been seen by telescope in the 1980s

https://www.newscientist.com/article/2297376-enigmatic-planet-nine-may-have-been-seen-by-telescope-in-the-1980s/?utm_medium=social&utm_campaign=echobox&utm_source=Facebook&fbclid=IwAR1gvWiSLnoKGP4HAWwEEZgWIKLS60lu3EVOubX_ykXsCaCds1zOQhLh3TY&fireglass_rsn=true#Echobox=1636978689-1&fireglass_params&tabid=a852bbca39712579&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

After many centuries, research suggests new facets to the blinking 'Demon Star'

<https://www.nbcnews.com/science/space/many-centuries-research-suggests-new-facets-blinking-demon-star-rcna4813>

Iodine successfully tested in satellite ion thrusters

https://phys.org/news/2021-11-iodine-successfully-satellite-ion-thrusters.html?fbclid=IwAR1xUJzq0t-TXZYz2mHACeMMMngTT5OOy_chyjHwIQtFYVqLnYppkP0m3nNc

Space Force Detects Mystery Object in Orbit Alongside Chinese Satellite

<https://gizmodo.com/space-force-detects-mystery-object-in-orbit-alongside-c-1848016044>

In a first test of its planetary defense efforts, NASA's going to shove an asteroid

https://www.npr.org/2021/11/22/1056995884/in-a-first-test-of-its-planetary-defense-efforts-nasas-going-to-shove-an-asteroid?utm_campaign=npr&utm_source=facebook.com&utm_medium=social&utm_term=nprnews&fbclid=IwAR3uzNfe0S6VLVxELBVdnXghr0u_Al4q3-9G7wgLIZ-H7yFBKHMJyLOJu_U&fireglass_rsn=true#fireglass_params&tabid=a27cf30b650f228e&start_with_session_counter=2&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Testing mini-radar to peer inside asteroid

https://phys.org/news/2021-11-mini-radar-peer-asteroid.html?fireglass_rsn=true#fireglass_params&tabid=a5b603baa5d2afb4&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Russian anti-satellite weapon test: What happened and what are the risks?

https://astronomy.com/news/2021/11/russian-anti-satellite-weapon-test-what-happened-and-what-are-the-risks?utm_source=asyfb&utm_medium=social&utm_campaign=asyfb&fbclid=IwAR2gXmtgNoR9FViLs6Z0y9x5KKJ_QxPZbXTRRhyf-LeBDdiP9iUbchwFtis

Earth's earliest water may have come from solar wind and space rocks

https://www.livescience.com/earth-water-may-have-come-from-space?fbclid=IwAR2gXmtgNoR9FViLs6Z0y9x5KKJ_QxPZbXTRRhyf-LeBDdiP9iUbchwFtis&utm_campaign=socialflow&fireglass_rsn=true#fireglass_params&tabid=aa886a454db596a4&start_with_session_counter=2&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Making air from Moon dust: Scientists create a prototype oxygen plant

https://astronomy.com/news/2020/01/how-to-make-air-from-moondust?utm_source=asyfb&utm_medium=social&utm_campaign=asyfb&fbclid=IwAR0LmH0J4op8V68G8gQ2fKxv_u4MltNcvf9XAOWJwxiify2BCqTTxdQemnk

Here's how we could mine the moon for rocket fuel

https://www.technologyreview.com/2020/05/19/1001857/how-moon-lunar-mining-water-ice-rocket-fuel?utm_campaign=site_visitor.unpaid.engagement&utm_medium=tr_social&utm_source=Facebook&fbclid=IwAR2qXmtgNoR9FViLs6Z0y9x5KKJ_QxPZbXTRRhyf-LeBDdiP9iUbchwFtis&fireglass_rsn=true#fireglass_params&tabid=ac03ea569a9799e1&start_with_session_counter=2&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Could Life Survive on a Planet Orbiting a Black Hole?

https://astronomy.com/news/2019/10/could-life-survive-on-a-planet-orbiting-a-black-hole?utm_source=asyfb&utm_medium=social&utm_campaign=asyfb&fbclid=IwAR10qKpXL-C6OrLxVcazpP0uZkb5e_kTdSf5CfVnNh4-JWeREaVq_sX1Dyw

Alien organisms could hitch a ride on our spacecraft and contaminate Earth, scientists warn

https://www.space.com/space-exploration-risks-alien-organism-invasion?fbclid=IwAR1j_P_6TFVm_A3D_3z65LcXHUDVhkfBXNr2wdD4Vm1o9uK6lg0URNlby4g&utm_campaign=socialflow&fireglass_rsn=true#fireglass_params&tabid=a3c6b61955d5ca67&start_with_session_counter=2&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Radio emission detected from the Vela X-1 bow shock

https://phys.org/news/2021-11-radio-emission-vela-x-.html?fbclid=IwAR03ztlTLTYVDS-y2f9aiVAI4qtpFjz-HbJsB_HU1KI-qYimZhMGxlicB5E

Very Large Telescope uncovers closest pair of supermassive black holes yet

https://phys.org/news/2021-11-large-telescope-uncovers-closest-pair.html?fbclid=IwAR3W5Zk5V3laMqRWdb8NoKbR-VRPMY5eG_ApS4vp_sePv2T7A4TfbXliFWs

Never-before-seen rocks found in these exoplanet graveyards

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Strange 'eggshell' exoplanets may have ultra-smooth surfaces

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