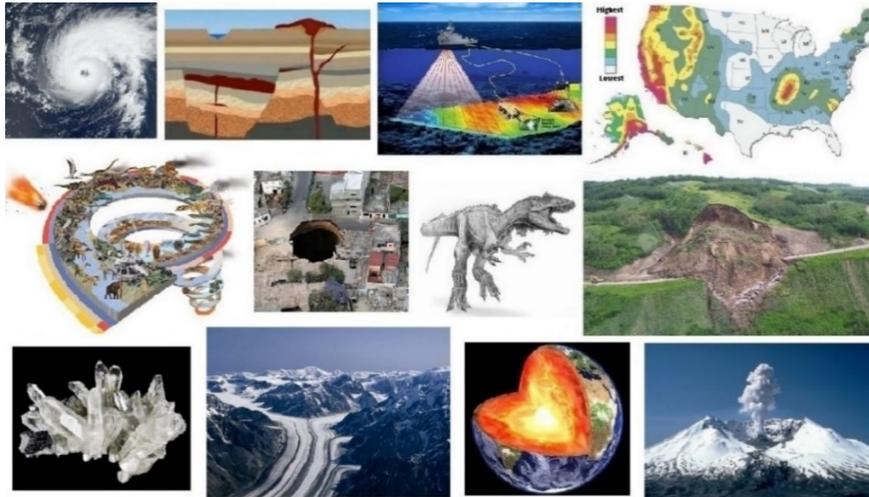


Do you know of a colleague and/or student who would be interested in receiving these Bulletin Boards? Please forward to them. A quick email to Geosciences-BBoard@att.net with the word “subscribe” in the subject line and the email address will be added to the listing.



Geoscience Bulletin Board – 29 March 2021 – compiled by Elaine J. Hanford

On the importance of structural geology

- <https://www.linkedin.com/pulse/why-structural-geology-so-important-doesnt-need-dark-art-ball/>

SCOTUS rejected appeal of fishing group challenging creation of Northeast Canyons & Seamounts Marine National Monument – but raised questions

- <https://www.yahoo.com/news/high-court-wont-hear-fishermen-184847475.html>
- <https://www.nationalparkstraveler.org/2021/03/supreme-court-declines-challenge-obama-designated-monument-raises-questions>

Low-Ti-K tholeiitic basalt derived from highly refractory mantle sources

- <https://www.msn.com/en-us/news/technology/scientists-discover-new-type-of-ancient-rock-deep-beneath-the-ocean/ar-BB1eT2Yk>
- Paper: <https://www.nature.com/articles/s41467-021-21980-0>

Magneto-stratigraphy provides timeline for dinosaur migration across Pangaea

- <https://eos.org/articles/a-dip-in-atmospheric-carbon-may-have-facilitated-dinosaur-dispersal>

Atmospheric turbulence causes local variation in relative humidity leading to cloud droplet formation

- <https://eos.org/research-spotlights/atmospheric-turbulence-may-promote-cloud-droplet-formation>

Graduate geoscience students should put effort toward studying – not playing racist politics

- <https://eos.org/articles/racist-slurs-in-place-names-have-to-go-say-geoscientists>

New species of Cretaceous plankton-eating shark had hypertrophied, slender pectoral fins

- <http://www.sci-news.com/paleontology/aquilolamna-milarcae-09470.html>

Modeling rates of change of sea level at points along the US East Coast – fastest rates of rise in southern New Jersey driven by glacial isostatic adjustment

- <https://phys.org/news/2021-03-sea-level-20th-century-fastest-years.html>
- Paper: <https://www.nature.com/articles/s41467-021-22079-2>

Naturally occurring climate variations explain long-standing difference between models & satellite observations

- <https://phys.org/news/2021-03-natural-variations-climate-puzzle.html>

Macroscopic fossils of multiple species of algae thrived on seafloor about 950 myo

- <https://phys.org/news/2021-03-rare-fossilized-algae-unexpectedly-evolutionary.html>

Supercell tornados are likely bigger and stronger than classification based on damage ratings

- <https://phys.org/news/2021-03-evidence-tornados-bigger-stronger.html>
- Paper: <https://www.pnas.org/content/118/14/e2021535118>

Precipitation caused maximum advance of Alpine glaciers during last ice Age in the Alps

- <https://phys.org/news/2021-03-ice-age-precipitation-maximum-advance.html>
- Paper: <https://www.nature.com/articles/s41467-021-22090-7>

International Height Reference System (IHR5) is needed because sea level is not level

- <https://phys.org/news/2021-03-sea.html>
- Paper: <https://link.springer.com/article/10.1007/s00190-021-01481-0>

Just how old are cephalopods? 522 myo fossils from Newfoundland could be the first

- <https://www.sciencedaily.com/releases/2021/03/210323131233.htm>
- Paper: <https://www.nature.com/articles/s42003-021-01885-w>

Glacier melt in southeast Alaska could influence timing and location of earthquakes of M5.0 or greater

- <https://www.sciencedaily.com/releases/2021/03/210318170319.htm>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020JB020411>

This gauge has been monitoring streamflow in Utah for 100 years

- <https://www.usgs.gov/news/utah-gauge-celebrates-100-years-monitoring-streamflow>

Streams adapt to changes in climatic conditions – contributions from groundwater

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=302328&org=NSF&from=news
- Paper: <https://www.nature.com/articles/s41467-021-21651-0>

Perspective: “The Great Mass Extinction” presents geological evidence of the Biblical Flood

- <https://adventist.news/en/news/book-presents-geological-evidence-for-the-biblical-flood>

Population of Pompeii died in 17 minutes of eruption of pyroclastic density currents on Mount Vesuvius

- <https://www.iflscience.com/environment/vesuvius-killed-the-people-of-pompeii-in-just-17-minutes-new-study-suggests/>
- Paper: <https://www.nature.com/articles/s41598-021-84456-7>

Close up drone footage of eruption of Fagradalsfjall volcano in Iceland

- <https://www.cnet.com/news/drone-footage-gets-incredibly-close-to-icelandic-volcano-eruption/>
- <https://petapixel.com/2021/03/22/drone-footage-shot-over-icelands-erupting-volcano-is-incredible/>

The chemical processes underlying creeping landslides

- <https://www.technologynetworks.com/analysis/news/understanding-the-chemical-processes-underlying-landslides-346829>

Preserving the legacy of geologic mapping in Yellowstone

- https://www.kpvi.com/news/regional_news/caldera-chronicles-preserving-the-legacy-of-geologic-mapping-in-yellowstone/article_33fd78bd-92f0-5c14-9a27-8b137a307ab6.html

Celebrating the Arches of Utah – vote in Arch Madness 2021

- <https://www.ksl.com/article/50129704/this-is-arch-utah-geologists-begin-arch-madness-to-highlight-states-many-arches>
- Vote: <https://geology.utah.gov/arch-madness/>

Celebrating the legacy of David Owen – first state geologist of Arkansas in 1857

- <https://www.eldoradonews.com/news/2021/mar/16/history-minute-david-owens-advancement-natural-sci/>

Lost Greenland Ice Core reveals history

- <https://www.vpr.org/post/lost-cold-war-ice-core-reveals-greenlands-ice-free-past-could-provide-key-data-planet-warms#stream/0>

Exploring the history of Cave Ice - video

- <https://phys.org/news/2021-03-video-geologists-explore-history-cave.html>

Meet Jessica Watkins – NASA Astronaut & Artemis Team member – geologist & researcher

- <https://scitechdaily.com/meet-nasa-astronaut-artemis-team-member-jessica-watkins-video/>

In Memoriam: Kenneson G. “Ken” Dean (1949-2020) – co-established International Circumpolar Remote Sensing Symposium

- <https://www.legacy.com/obituaries/newsminer/obituary.aspx?n=kenneson-g-dean-ken&pid=198111828>

In Memoriam: J Jeffrey Fawcett (1936-2021) – Petrologist & High Pressure Lab researcher & teacher

- <https://www.legacy.com/obituaries/thestar/obituary.aspx?n=j-jeffrey-fawcett&pid=198106812>

In Memoriam: Michael Tuohy (1954-2021) – Groundwater Hydrologist & Renaissance man

- <https://www.ajc.com/news/obituaries/tuohy-michael/CAHY3XNPDBBVFJQWVBOGJEJKE/>

In Memoriam: Jack Krajewski (1946-2021) – geologist & founding father of Rugby in Western NY

- https://buffalonews.com/obituaries/features/jack-krajewski-74-geologist-and-founding-father-of-rugby-in-western-new-york/article_22a9f69e-89d2-11eb-83e6-0bbc3352596a.html

Marking 73 years since the first tornado forecast in the US

- <https://www.msn.com/en-us/weather/topstories/march-25-marks-73-years-since-the-first-tornado-forecast-in-american-history/vi-BB1eTrIL>

Did you see the “worm moon” on 28 March?

- <https://www.msn.com/en-us/weather/topstories/worm-moon-to-light-up-last-weekend-of-march/vi-BB1eT9IT>

None of the “global warming alarmists” are ready for the next Ice Age – Gulf Stream getting weaker

- <https://www.wgbh.org/news/commentary/2021/03/24/weve-known-for-years-global-warming-could-lead-to-a-new-ice-age-why-is-no-one-doing-anything>
- Flip-Flop: <http://williamcalvin.com/1990s/1998AtlanticClimate.htm>
- <https://gothamist.com/news/gulf-stream-weakening-and-it-promises-stronger-storms-ny-and-nj>

Great Lakes are going through a warming interval – seasonal overturn & stratification

- <https://www.jsonline.com/story/news/local/wisconsin/2021/03/26/climate-change-study-finds-lake-michigan-warming-500-foot-depth/6983199002/>
- Paper: <https://www.nature.com/articles/s41467-021-21971-1#Abs1>

GeoPRISMS project led to increased understanding of continental margin evolution

- <https://eos.org/agu-news/crossing-the-shoreline>

How have cratons survived plate tectonics over geologic time

- <https://eos.org/features/cratons-why-are-you-still-here>

Evolving understanding of hydrologic cycle and cycling of volatile gases and carbon

- <https://eos.org/science-updates/earths-volatile-balancing-act>

First clues to start of supercontinent cycle

- https://www.spacedaily.com/reports/Curtin_research_finds_first_clues_to_start_of_Earths_supercontinent_cycle_999.html

Coachella Valley segments of San Andreas Fault is about 80 years overdue for seismic release

- <https://phys.org/news/2021-03-la-biggest-quake-threat-overlooked.html>
- Paper: <https://advances.sciencemaq.org/content/7/13/eaaz5691>

Process of rifting of Africa and North America as Pangea broke apart

- <https://eos.org/science-updates/breaking-up-is-hard-to-do-especially-for-continent>

Geodetic observations reveal insights into start-stop and slow-motion behavior of subduction zones

- <https://eos.org/science-updates/slipping-and-locking-in-earths-earthquake-factories>

Arctic lighting increase identified by one 11-year study

- <https://eos.org/articles/arctic-lightning-up-300-in-one-11-year-study>

Volcanic evolution of basaltic eruption of Sierra Negra in the Galapagos Islands

- <https://eos.org/articles/observing-a-galapagos-volcano-from-buildup-to-eruption>

System of highly consistent climate-observing sites may help resolve issues with climatological data

- <https://eos.org/articles/a-global-monitoring-system-could-change-the-future-of-climatology>

Pacaya volcano in Guatemala continues to erupt

- <https://phys.org/news/2021-03-guatemala-pacaya-volcano-erupting-days.html>

Fissure eruption near Mount Fagradalsfjall may persist in Iceland

- <https://phys.org/news/2021-03-iceland-volcanic-eruption-hauler.html>

Strontium isotopes in marine sediments help reveal relationships between ocean chemistry & climate over past 35M years

- <https://phys.org/news/2021-03-ocean-chemistry-sea-affects-global.html>

Extinct Late Pleistocene giant mihirungs (dromornithid birds) had well-developed stereoscopic vision & small brains

- <http://www.sci-news.com/paleontology/dromornithid-vision-brain-09488.html>
- Paper: <https://www.mdpi.com/1424-2818/13/3/124/htm>

USGS dye-tracing Kansas River to assess rates of water flow

- <https://www.usgs.gov/news/usgs-dye-tracing-study-kansas-river-aid-protecting-water-supplies-0>

Eroded seabed rocks are source of essential nutrition for drifting marine organisms

- <https://www.sciencedaily.com/releases/2021/03/210322175033.htm>

New flexible finite-fault inversion framework based on P waves reveals shape of M7.9 Gulf of Alaska EQ

- <https://www.sciencedaily.com/releases/2021/03/210322093727.htm>
- Paper: <https://www.nature.com/articles/s41598-021-85522-w>



Environmental Science Bulletin Board – 29 March 2021 – compiled by Elaine J. Hanford

Average annual rainfall fell within just a few days in New South Wales & Queensland - floods

- <https://www.yahoo.com/news/nearly-years-worth-rain-fell-155952758.html>

Spiders, snakes, and people coping with flood waters in New South Wales

<https://www.cnn.com/2021/03/22/australia/spider-exodus-australia-scli-intl/index.html>

<https://www.bbc.com/news/world-australia-56485246>

<https://www.smh.com.au/environment/weather/flash-flooding-on-nsw-mid-north-coast-20210318-p57c0z.html>

Images: <https://news.yahoo.com/photos-thousands-evacuated-australia-flood-050426363.html>

Nuclear waste – need to clarify disposal option for cleanup at West Valley Site in New York

- <https://www.gao.gov/products/gao-21-115>
- Highlights: <https://www.gao.gov/assets/gao-21-115-highlights.pdf>
- Full Report: <https://www.gao.gov/assets/gao-21-115.pdf>

Technological hazard: cybersecurity of the public core

- <https://www.msn.com/en-us/news/politics/the-cybersecurity-problem-we-should-really-worry-about/ar-BB1eQSqB>

Technological hazard: Threats to our drinking water supplies

- <https://www.propublica.org/article/hacking-water-systems#1053129>

Solar fires being investigated – safety concerns regarding fire risks and defective TESLA installations

- <https://www.msn.com/en-us/money/companies/tesla-whistleblower-complaint-about-solar-fires-is-part-of-evidence-in-federal-safety-investigation/ar-BB1eQLpE>

Perspective: consider ASR (using deep injection wells) to help restore Lake Okeechobee & Everglades

- <https://www.sun-sentinel.com/opinion/commentary/fl-op-com-everglades-injection-wells-20210322-ddqkyookgfbojmm3bkkmbdlhii-story.html>

Pennsylvania governor touts project to produce half of government electricity from solar power by 2023

- <https://www.post-gazette.com/business/powersource/2021/03/22/Pennsylvania-government-solar-powered-project-2023-energy-electricity-supply-arrays/stories/202103220063>

Interim instream flow standard (IIFS) to ensure flows in protected Lāwa‘i Stream on Kaua‘i

- <https://governor.hawaii.gov/newsroom/dlnr-news-release-lawai-stream-flows-protected-for-instream-uses/>

Deep waters of Lake Michigan adapting to environmental conditions

- <https://www.kake.com/story/43534827/winter-is-vanishing-from-the-deep-waters-of-lake-michigan>
- Paper: <https://www.nature.com/articles/s41467-021-21971-1>

Tahoe Conservancy authorized almost \$1.4M for reduction of wildfire risk & improved forest health

- <https://www.tahodailytribune.com/news/tahoe-conservancy-commits-1-4-million-to-forest-health-projects/>

When politics gets enmeshed in commerce – battery plant in Georgia & history of lawsuits

- <https://www.yahoo.com/huffpost/georgia-skinnovation-182621839.html>

Analysis of environmental costs (impacts & human health) of O&G & coal

- <https://arstechnica.com/science/2021/03/unpaid-environmental-damages-from-fossil-fuels-are-a-600b-annual-subsidy/>
- Paper: <https://www.pnas.org/content/118/14/e2011969118>

Can we say: “Big Brother” wants to control you? – requiring delivery drivers to sign “biometric consent”

- <https://www.msn.com/en-us/news/technology/amazon-mandating-drivers-sign-biometric-consent-form-or-lose-jobs-report/ar-BB1eT5cl>

Human modifications of stream channels alter carbon cycling on continental scale

- <https://eos.org/editor-highlights/how-river-engineering-alters-carbon-cycling>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020AV000273>

Critical water shortage in drinking water aquifers beneath Louisiana – overuse & unregulated pumping

- <https://www.npr.org/2021/03/19/975689866/known-for-its-floods-louisiana-is-running-dangerously-short-of-groundwater>

Despite not being a geoscientist Bill Gates still wrote a book “How to avoid a climate disaster”

- <https://www.npr.org/2021/03/14/977215406/bill-gates-on-new-book-how-to-avoid-a-climate-disaster>

Perspective: An uncertain future for the Joshua Trees of the Mojave National Preserve

- <https://www.nationalparkstraveler.org/2021/03/joshua-trees-uncertain-future-mojave-desert-icon>

Deb Haaland of Laguna Pueblo welcomed as new Secretary of the Interior

- <https://mercmessenger.com/interior-secretary-deb-haaland/>

Lawmakers urging Pennsylvania Governor to take action follow EHN fracking investigation

- <https://www.ehn.org/pennsylvania-policymakers-call-for-fracking-action-fractured-2651091362/lawmakers-letter>
- EHN 4-Part series: <https://www.ehn.org/fractured-series-on-fracking-pollution-2650624600/listen-kristina-marusic-discusses-the-fractured-investigation>

Alkaline “Real Water” linked to liver failure in children – FDA warns against using it

- <https://arstechnica.com/science/2021/03/complaints-mount-after-5-kids-suffer-liver-failure-linked-to-alkaline-water/>

New species of holo-parasitic Rafflesia discovered in Malaysia – largest flower smells like rotting flesh

- <http://www.sci-news.com/biology/rafflesia-tiomanensis-09478.html>

Jaguars along the US-Mexico border region – slowly rebounding after extermination by hunters

- <https://www.msn.com/en-us/news/technology/why-a-new-jaguar-sighting-near-the-arizona-mexico-border-gives-experts-hope/ar-BB1eT26d>
- USGS Lecture: <https://www.usgs.gov/media/images/2021-march-public-lecture-flyer-0>

Lightning strikes facilitated origin of life on Earth

- https://www.terraily.com/reports/Lightning_strikes_played_a_vital_role_in_lifes_origins_on_Earth_999.html
- Paper: https://www.terraily.com/reports/Lightning_strikes_played_a_vital_role_in_lifes_origins_on_Earth_999.html

Drought may lead to increased arsenic exposure in drinking water wells

- <https://www.usgs.gov/news/drought-may-lead-elevated-levels-naturally-occurring-arsenic-private-domestic-wells>
- Paper: <https://pubs.acs.org/doi/full/10.1021/acs.est.9b05835>

Economics of Rube Goldberg scheme to cover California water system with solar panels

- <https://arstechnica.com/science/2021/03/the-economics-of-covering-californias-water-system-with-solar-panels/>

Mapping “undiscovered” biodiversity – where to look

- https://www.terraily.com/reports/Scientists_map_Earths_undiscovered_biodiversity_999.html

Yet another summit – October 2021 in Kunming, China, to set more guidelines to protect biodiversity

- https://www.terraily.com/reports/Crucial_UN_biodiversity_summit_set_for_October_999.html

Warning issued to residents to stay off Morrow Dam impoundment sediments in Michigan – like quicksand

- <https://www.mlive.com/news/kalamazoo/2021/03/police-urge-residents-to-stay-off-sediment-deposits-on-the-kalamazoo-river.html>

Glacier NP in Montana and Killarney NP in County Kerry, Ireland, are officially sister national parks

- <https://www.nationalparkstraveler.org/2021/03/glacier-and-killarney-now-officially-sister-national-parks>

Unsustainable development in the Himalayas

- <https://www.latimes.com/world-nation/story/2021-03-22/himalayas-climate-change-unsustainable-development>

Bald Eagle population in the US continues to soar

- <https://content.govdelivery.com/accounts/USDOL/bulletins/2c94218>
- Fact Sheet: <https://www.fws.gov/migratorybirds/pdf/management/bald-eagle-fact-sheet.pdf>
- Report: <https://www.fws.gov/migratorybirds/pdf/management/bald-eagle-population-size-2020.pdf>

Ship runs aground in Suez Canal & blocks trade – about 10% of global seaborne oil passes through canal

- <https://www.yahoo.com/finance/news/suez-canal-blockage-could-mean-for-global-trade-112412918.html>

Delay likely in construction schedule for Vogtle nuclear plant unit

- <https://www.utilitydive.com/news/southern-company-identifies-likely-nuclear-construction-delay-on-vogtle-u/597095/>

Waste car tires being incorporated in road pavement in Britain

- <http://www.infrastructure-intelligence.com/article/mar-2021/tarmac-helps-leicestershire%E2%80%99s-drive-towards-greener-roads>

14 states file lawsuit challenging the legality of the Executive Order to “pause” new O&G leases

- <https://finance.yahoo.com/news/fourteen-u-states-sue-biden-165046038.html>

Animal and Plant Health Inspection Service (APHIS) impact report for 2020

- <https://www.aphis.usda.gov/aphis/newsroom/stakeholder-info/administrator-letters-to-stakeholders/2019-impact-report>
- Report: https://www.aphis.usda.gov/publications/aphis_general/rpt-aphis-impact-2020.pdf

How can “biomass power” possibly be considered zero-emissions renewable energy – political agenda driven that subsidizes clear-cutting of forests, shipping internationally and then burning - \$50B industry

- <https://www.yahoo.com/news/tree-burning-became-staple-green-033046489.html>

African elephants threatened by habitat loss and poaching – critically endangered on IUCN list

- <https://theconversation.com/africas-2-elephant-species-are-both-endangered-due-to-poaching-and-habitat-loss-157944>

Managing & disposing of high salinity brines as by product of carbon sequestration will impose significant energy & emissions penalties – questions regarding economic feasibility

- <https://woods.stanford.edu/news/revealing-cost-key-climate-solution>
- Paper: <https://pubs.acs.org/doi/10.1021/acs.est.0c06017>

New documentary: “Cher & the Loneliest Elephant”

- https://www.huffpost.com/entry/cher-worlds-loneliest-elephant-documentary_n_605b4f34c5b65d1c28119428

Virtual forum was held on O&G Program

- <https://content.govdelivery.com/accounts/USDOL/bulletins/2c9aefb>
- Recording of forum: <https://www.youtube.com/watch?v=KR1b-fzIqcY>

Progress report on Kentucky Lock cofferdam

- <https://www.dvidshub.net/news/392175/corps-will-dig-dry-conditions-with-finished-kentucky-lock-cofferdam>

The dangers of geoengineering to attempt to control the climate – dystopian nightmare

- <https://www.yahoo.com/huffpost/solar-geoengineering-climate-change-155607557.html>
- Link to download report: <https://www.nap.edu/catalog/25762/reflecting-sunlight-recommendations-for-solar-geoengineering-research-and-research-governance>

EU experts calling nuclear power “green” demonstrates ‘green’ has no meaning

- <https://www.msn.com/en-us/news/world/eu-experts-to-say-nuclear-power-qualifies-for-green-investment-label-document/ar-BB1f1XzG>

Mass bird die-off linked to wildfires and toxic gases across Western & Central US

- <https://eos.org/research-spotlights/mass-bird-die-off-linked-to-wildfires-and-toxic-gases>

Is farming fish on land in freshwater more “sustainable” than mariculture?

- <https://theconversation.com/farming-fish-in-fresh-water-is-more-affordable-and-sustainable-than-in-the-ocean-151904>

Humans have been fascinated by polar bears for a long time

- <https://theconversation.com/polar-bears-have-captivated-artists-imaginations-for-centuries-but-what-theyve-symbolized-has-changed-over-time-154033>

Humans like pets that tend to be invasive species

- <https://arstechnica.com/science/2021/03/unfortunately-we-like-pets-that-are-likely-to-be-invasive-species/>

Protecting biodiversity and fish stocks with limited marine protection areas

- <https://arstechnica.com/science/2021/03/how-to-optimize-protecting-the-ocean/>

A meaningless gesture: cities turned lights off to mark Earth Hour

- <https://phys.org/news/2021-03-cities-worldwide-earth-hour.html>

Human impact on energy budget of Earth

- <https://phys.org/news/2021-03-humans-earth-energy.html>

Assessing the integrity of O&G wells

- <https://phys.org/news/2021-03-oil-gas-wells-multiple-states.html>
- Paper: <https://www.pnas.org/content/118/14/e2013894118>

Understanding the complexity of water scarcity dynamics

- <https://phys.org/news/2021-03-exposes-global-ripple-effects-regional.html>
- Paper: <https://www.nature.com/articles/s41467-021-22194-0>

Surge in illegal mining on Yanomami indigenous land is leading cause of environmental destruction of Amazon rainforest

- https://www.spacedaily.com/reports/Illegal_mining_surges_on_Yanomami_indigenous_land_report_999.html

Understanding links between terror, poverty & climate in the Sahel

- https://www.africadaily.net/reports/The_Sahel_Terror_poverty_and_climate_change_999.htm

North American deserts host tremendous butterfly diversity

- https://www.terradaily.com/reports/North_American_deserts_are_home_to_tremendous_butterfly_diversity_999.html

CORONAVIRUS

Coronavirus COVID-19 statistics by country (click on USA to get State statistics)

- <https://www.worldometers.info/coronavirus/>
- <https://time.com/5800901/coronavirus-map/>
- interactive maps: <https://geodacenter.github.io/covid/map.html>

Stopping the drama – good advice for the pandemic and for life in general

- <https://www.smartbrief.com/original/2020/04/practical-ways-lead-yourself-during-crisis>

Low-dose aspirin may reduce risk of infection and length of illness if infection does occur

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