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Geoscience Bulletin Board – 31 January 2022 – compiled by Elaine J. Hanford

Potential development of rare January tropical cyclone near Hawaii

- <https://www.yahoo.com/news/incredibly-rare-tropical-cyclone-might-015047208.html>

Attempting to restore Bonneville Salt Flats from impacts of potash mining & racing

- <https://www.msn.com/en-us/weather/topstories/is-it-too-late-to-save-the-bonneville-salt-flats/ar-AAT0HVE>

Geology of Hunga Tonga-Hunga Ha'apai volcano

- <https://science.thewire.in/the-sciences/understanding-the-geology-of-the-tonga-volcano/>

Radiometric dating clarifying timing of the obduction episode in Oman

- <https://phys.org/news/2022-01-radiometric-dating-tectonic-debate.html>
- <https://eos.org/research-spotlights/radiometric-dating-sheds-light-on-tectonic-debate>

CO2 emissions from Mount Etna triggered by deep carbon dioxide reservoirs

- <https://www.eurekalert.org/news-releases/940718>

The Great Unconformity in the Grand Canyon

- <https://indianapublicmedia.org/amomentofscience/the-gap-in-the-grand-canyons-rock-record.php>

The explosive behavior of Mauna Loa

- <https://www.usgs.gov/volcanoes/mauna-loa/news/volcano-watch-deciphering-explosive-behavior-mauna-loa>

Resistivity surveys define new placer dome, fault extensions & exploration targets at BOLO Gold-Silver Project in Nevada

- <https://www.digitaljournal.com/pr/new-placer-dome-and-copaur-minerals-defines-new-drill-targets-at-separate-zone-at-the-bolo-gold-silver-project-nevada>

Book Review: “Otherlands: A World in the Making” – the geologic history of Earth

- <https://www.newscientist.com/article/mg25333700-600-otherlands-review-a-fascinating-journey-through-earths-history/>

New study suggests gravitational forces move tectonic plates - barycenter

- <https://source.wustl.edu/2022/01/tug-of-sun-moon-could-be-driving-plate-motions-on-imbalanced-earth/>
- Link to chapter:
<https://pubs.geoscienceworld.org/gsa/books/book/2323/chapter/131987270/Links-of-planetary-energetics-to-moon-size-orbit>

Plans to build tallest residential tower on caissons in bay muds in San Francisco

- <https://www.sfexaminer.com/findings/what-does-it-take-to-build-a-supertall-tower-in-s-f/>

Developing new alert system for seismic shaking in tall buildings during earthquakes

- <https://temblor.net/earthquake-insights/scientists-take-step-toward-warning-those-in-tall-buildings-during-earthquakes-13697/>

Role of magmatism in continental breakup along magma-poor eastern North American continent

- <https://eos.org/research-spotlights/the-role-of-magma-in-the-birth-of-the-atlantic-ocean>

Visualizing the season on Earth – animated map

- <https://www.visualcapitalist.com/cp/visualizing-earths-seasons/>

Before & after of Hunga Tonga Hunga Ha’apai volcano

- <https://www.npr.org/2022/01/18/1073737536/satellite-photos-show-tonga-before-and-after-huge-undersea-volcano-eruption>
- https://www.terraviva.com/reports/Dramatic_Changes_at_Hunga_Tonga_Hunga_Haapai_999.html

Eruption of Hunga Tonga Hunga Ha’apai volcano is one of strongest ever recorded

- <https://phys.org/news/2022-01-tonga-eruption.html>

High-resolution multi-mode Chinese imaging satellite begins sensing

- https://www.spacewar.com/reports/Chinas_high_resolution_multi_mode_imaging_satellite_put_into_use_999.html

Where did the oceans come from?

- https://www.terraviva.com/reports/Study_probes_Earths_turbulent_past_to_explain_where_oceans_came_from_999.html

Salpinganthium hispaniolanum – mid-Tertiary species of legume preserved in Dominican amber

- <http://www.sci-news.com/paleontology/salpinganthium-hispaniolanum-10484.html>

Micro-plastic pollution in the ocean is likely greater than estimated

- <https://www.sciencedaily.com/releases/2022/01/220125093022.htm>

- Paper: <https://www.sciencedirect.com/science/article/pii/S0269749121018571?via%3Dihub>

Linking glaciers during “Snowball Earth” and the Great Unconformity

- <https://phys.org/news/2022-01-link-glaciers-earth-great-unconformity.html>
- Paper: <https://www.pnas.org/content/119/5/e2118682119>

Oblique convergence cause thrust & strike-slip ruptures during 2021 M7.2 Haiti earthquake

- <https://phys.org/news/2022-01-ruptures-haiti-earthquake.html>

Ocean color changes may signal imminent submarine volcanic eruption

- <https://theconversation.com/underwater-volcanoes-how-ocean-colour-changes-can-signal-an-imminent-eruption-175408>

Oldest petroglyphs in North America are at Winnemucca Lake – strontium isotope analysis & carbon data

- <https://www.nevadaappeal.com/news/2022/jan/26/north-americas-oldest-petroglyphs-are-winnemucca-l/>

Looking at the seafloor without water – Enriquillo-Plantain Garden Fault along Jamaica Passage

- <https://news.climate.columbia.edu/2022/01/26/looking-at-the-seafloor-without-water/>

Morangong dendrolite fossil - petrified Early Jurassic gymnosperm in Korea

- <https://kcnawatch.org/newstream/1643159129-418582389/natural-monument%e2%80%94moranbong-dendrolite-fossil>

Montana is a state of rugged mountains & deserves a spot on your bucket list

- <https://www.thrillist.com/travel/nation/things-to-do-in-montana>

History of meandering rivers is recorded in mud

- <https://earth.stanford.edu/news/story-written-mud#gs.npmx2g>

Two mineral leases for Twin Metals copper-nickel mine in Minnesota are cancelled by Feds

- <https://www.yahoo.com/news/biden-administration-revokes-mining-leases-201336427.html>



Environmental Science Bulletin Board – 31 January 2022 – compiled by Elaine J. Hanford

Microbial antibiotic resistant is 3rd leading cause of death worldwide – result of human over-use & abuse of antibiotics that encouraged microbes to adapt & evolve more quickly

- <https://www.msn.com/en-us/news/technology/the-3rd-leading-global-cause-of-death-is-likely-not-what-you-think-new-study-reveals/ar-AAT4FsM>
- <https://www.scimex.org/newsfeed/superbugs-killed-more-people-in-2019-than-aids-or-malaria>
- Paper: [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(21\)02724-0/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(21)02724-0/fulltext)

Key FSIS accomplishments in 2021 to protect public health

- <https://www.fsis.usda.gov/news-events/news-press-releases/fsis-highlights-2021-accomplishments-protecting-public-health>

Changing demographics in China – fewer births & aging population

- <https://finance.yahoo.com/news/china-population-demographic-window-opportunity-093000893.html>

Perspective: Florida must follow data & enforce rules to clean up Lake Okeechobee pollution

- <https://www.yahoo.com/news/florida-must-data-enforce-rules-190010214.html>

Waging a new war against wolves – New Mexico & Colorado ranchers want ability to kill Mexican wolves who they say are killing livestock

- NM: <https://www.yahoo.com/news/lincoln-county-considers-ordinance-change-010338647.html>
- CO: <https://www.yahoo.com/news/wolf-experts-colorado-officials-urgently-120036031.html>

Massive solar project near Desert Center would devastate wildlife, forests & Native sites

- <https://www.yahoo.com/news/huge-solar-project-near-desert-005217048.html>

Proposed settlement of massive 2015 hazardous mine waste spill – \$90M for Bonita Peak Mining District Superfund site to clean up rivers in 3 states & Navajo Nation

- <https://www.yahoo.com/news/us-colorado-reach-proposed-settlement-185026305.html>

Valley Fever is a major health problem in southwestern US – airborne fungal spores from the soil

- <https://www.yahoo.com/news/valley-fever-major-public-health-130021099.html>

Vogtle Nuclear Power Plant is already \$16B over cost with more to come – who will pay for unproven reactor design and construction delays?

- <https://insideclimatenews.org/news/21012022/georgia-power-vogtle-nuclear/>

Costs of wind & solar energy have already risen by almost 16%

- <https://insideclimatenews.org/news/20012022/inside-clean-energy-wind-solar-price-trends/>

City of Anchorage temporarily shut off fluoridation of drinking water

- <https://www.yahoo.com/news/well-just-shut-off-anchorage-144700722.html>

Webinar series on water disputes in the Nile River Basin

- <https://dailybruin.com/2022/01/21/ucla-professors-host-webinar-series-on-water-disputes-in-nile-river-basin>

High-Speed Rail Authority approves EIR for segment of California High-Speed Rail Program

- <https://cal.streetsblog.org/2022/01/21/high-speed-rail-authority-approves-plans-for-burbank-to-los-angeles-segment/>

SCOTUS agrees to consider limiting scope of wetlands regulation under Clean Water Act

- <https://www.oqj.com/general-interest/government/article/14224122/supreme-court-to-review-clean-water-act-jurisdiction-dispute>
- <https://news.bloomberglaw.com/environment-and-energy/high-court-sends-earthquake-through-federal-water-jurisdiction>

Drought-resistant farming methods in New Mexico

- https://www.santafenewmexican.com/news/local_news/drought-resistant-farming-catching-on-in-n-m/article_bbb8197a-786e-11ec-851f-9fd56a9d6499.html

Fears of “corporate vultures” taking over water resources – corporate greed

- <https://www.yahoo.com/news/corporate-vultures-americans-fearing-higher-111531574.html>

USEPA to review 14 Superfund clean-up sites in New England – includes Gallups Quarry

- <https://www.wastetodaymagazine.com/article/epa-reviews-new-england-superfund-cleanups/>
- <https://newmexicodailynewswire.com/2022/01/25/gallups-quarry-was-so-contaminated-that-the-epa-took-it-over-right-heres-just-how-much-its-paying-plainfield-currently/>

New legislation in Maine would close ‘loophole’ that allows spreading sewage sludge containing PFAS forever chemicals as fertilizer

- <https://fox23maine.com/news/local/maine-bill-looks-to-eliminate-loophole-that-allows-spreading-sewage-sludge-forever-chemicals-pfas-farms>
- <https://www.yahoo.com/news/bill-looks-eliminate-loophole-allows-050100761.html>

Perspective: Why encourage water conservation and then build thousands of new homes?

- <https://www.yahoo.com/news/why-encourage-people-conserve-water-233104862.html>

US Forest Service allowing diversions of critical water supplies

- <https://www.yahoo.com/news/forest-supposed-protect-water-sources-001436742.html>

Energy efficiency ratings are not indicative of actual energy efficiency – very low correlation

- <https://www.bloomberg.com/news/features/2022-01-24/energy-ratings-don-t-capture-high-building-emissions>

US Forest Service issues new 10-year strategy “Confronting the Wildfire Crisis” – wants more money & people

- <https://wildearthguardians.org/press-releases/u-s-forest-service-cannot-log-its-way-out-of-the-climate-crisis/>
- CWC: <https://www.fs.usda.gov/sites/default/files/Confronting-Wildfire-Crisis.pdf>
- Implementation Plan: <https://www.fs.usda.gov/sites/default/files/Wildfire-Crisis-Implementation-Plan.pdf>
- <https://www.yahoo.com/news/federal-wildfire-plan-ambitious-forest-132717564.html>

60 years of garbage data & human habits

- <https://www.msn.com/en-us/health/medical/what-60-years-of-data-tell-us-about-our-garbage-habits/ss-AAT8IO>

SCOTUS to review interpretation of Clean Air Act that gave EPA authority to regulate GHG

- <https://www.msn.com/en-us/money/markets/the-supreme-court-s-plan-to-block-climate-action-we-haven-t-even-taken-yet/ar-AAT8qXO>

Pennsylvania woman treated for rabies after escaped monkey spat at her following traffic accident

- <https://www.yahoo.com/news/pennsylvania-woman-being-treated-rabies-000252096.html>

406 invasive SAC fish pulled from San Marcos River in Texas – result of aquarium dumping

- <https://www.yahoo.com/news/hundreds-invasive-fish-pulled-texas-110001532.html>

Migrant remittances support survival of town in Mexico – estimated \$50+B in remittances to Mexico last year

- <https://www.yahoo.com/news/mexicos-remittances-pass-50-billion-050654313.html>
- <https://www.yahoo.com/news/indigenous-town-mexico-survives-remittances-050507207.html>

US BLM plans to capture record number of wild horses on federal lands this year

- <https://www.yahoo.com/news/us-plans-more-wild-horse-225437063.html>

Proposed legislation in West Virginia would eliminate ban on nuclear power plants

- <https://apnews.com/article/business-environment-and-nature-environment-west-virginia-charleston-43aed2b6f4704a894e166821f8e947fa>
- <https://wvmetronews.com/2022/01/25/senate-passes-bill-that-would-repeal-ban-on-nuclear-energy-production/>

The ongoing saga of the City of Chicago and Southside Recycling that wants metal shredder

- <https://www.yahoo.com/news/environmentalists-industry-face-off-over-134044190.html>

California legislation would ban single-use cigarette filters, e-cigarettes & vape products

- <https://www.yahoo.com/news/no-ifs-and-butts-california-062022472.html>
- <https://www.latimes.com/california/story/2022-01-25/california-bill-would-ban-single-use-cigarette-filters>

US EPA to conduct wide-scale monitoring of air pollution & cleanups in 3 Gulf Coast states

- <https://www.yahoo.com/news/epa-acts-environmental-justice-3-110056586.html>
- <https://www.yahoo.com/news/epa-announces-pollution-monitoring-program-110031753.html>

Americans are missing the basics – 90% have poor diet & 25% do not exercise

- <https://arstechnica.com/science/2022/01/even-before-covid-americans-were-failing-at-health-basics-diet-exercise/>

EU nations quarrel as to whether nuclear and natural gas are “green” energies

- https://www.energy-daily.com/reports/EU_nations_quarrel_over_whether_nuclear_gas_are_green_999.html

Controversial proposal for black bear hunting in 3 North Carolina sanctuaries – human problem

- <https://www.yahoo.com/news/residents-criticize-nc-wildlife-bear-100156913.html>

Rules for 100% carbon-free energy failed vote of Arizona utility regulators – rules not necessary

- <https://www.yahoo.com/news/major-reversal-arizona-utility-regulators-195556992.html>

Roughly half of hospitalizations for virus are really for other issues – “incidental cases”

- <https://www.yahoo.com/news/covid-19-nearly-half-virus-081715751.html>

European countries shifting to new strategy: accept the virus – while others want to fine unvaxxed

- <https://www.yahoo.com/news/europe-considers-covid-19-strategy-080059667.html>
- <https://www.yahoo.com/news/ireland-set-rapidly-drop-almost-100213192.html>
- <https://www.msn.com/en-us/news/world/some-governments-have-launched-plans-to-fine-the-unvaccinated-experts-caution-against-the-approach/ar-AAT0T4A>

Mutations of Omicron variant - epistasis

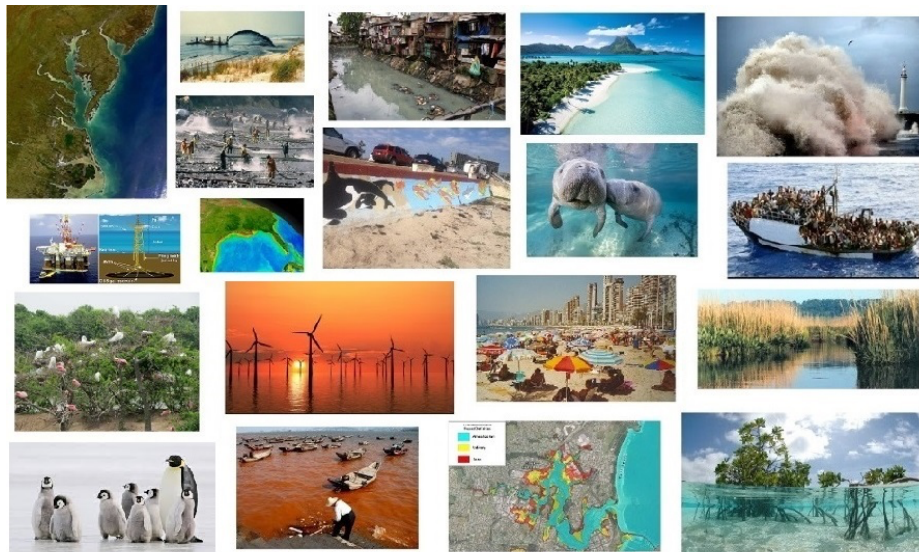
- <https://www.yahoo.com/news/omicrons-radical-evolution-191819386.html>

CDC graphs illustrates “cases” & hospitalizations and few deaths from Omicron

- <https://www.yahoo.com/news/cdc-graph-shows-just-different-195149872.html>

VAERS data being ignored – DOD has database (DMED) on military reactions to vaccines – do not delete

- <https://www.theblaze.com/op-ed/horowitz-whistleblowers-share-dod-medical-data-that-blows-vaccine-safety-debate-wide-open>



Coastal Zone Management Bulletin Board – 31 January 2022 – compiled by Elaine J. Hanford

Manatees finally hungry enough to eat romaine lettuce

- <https://www.yahoo.com/news/officials-florida-manatees-eating-lettuce-185456425.html>

\$38M allocated in futile efforts to slow erosion on two Chesapeake Bay islands – estimated \$1.7B over 30 years

<https://www.baltimoresun.com/news/environment/bs-md-mid-bay-islands-20220120-cy6cotmzmbcfcxj3p6yhjk3e-story.html>

High-tech submarine cables are threat to national security

- <https://www.yahoo.com/news/why-undersea-water-cables-real-155603396.html>

Port of Nome, Alaska, to receive \$250M for future construction for Deep Draft Port

- <https://www.knom.org/wp/blog/2022/01/20/nomes-deep-draft-port-among-several-alaska-projects-to-receive-millions-in-federal-funding/>

“Crystal Symphony” cruise ship with 400 crew & 300 passengers diverts to the Bahama to avoid arrest warrant

- <https://www.msn.com/en-us/travel/news/cruise-ship-with-700-onboard-diverted-to-bahamas-to-avoid-us-arrest-warrant/ar-AAT3LjV>
- Update: <https://www.msn.com/en-us/news/us/cruise-ship-changes-course-after-us-judge-orders-seizure/ar-AAT5FFN>

1.7 km of tunnels to be built beneath Sydney Harbour – Western Harbour Tunnel

- <https://www.theconstructionindex.co.uk/news/view/tunnelling-contract-awarded-for-sydney-harbour-link>

Norfolk, Virginia, promised \$249M to strengthen port & water supply chains & resilience

- <https://www.wtkr.com/news/norfolk-to-receive-249m-in-federal-funding-to-increase-community-resilience-to-flooding>

Potential use of offshore wind farms for sequestering CO2

- <https://www.yahoo.com/news/offshore-wind-farms-could-help-132644944.html>

Government promises \$B to improve ports across the country – is the check in the mail?

- <https://www.constructiondive.com/news/17-billion-iiija-set-to-boost-us-port-projects/617203/>

Anticipating algal bloom crisis will get worse in Florida

- <https://www.yahoo.com/news/algal-bloom-crisis-worse-florida-112015795.html>
- Report: <https://myfwc.com/media/28286/habtf-consensus-2.pdf>

Galapagos & Costa Rica creating “Ocean Highway” migratory route for marine life

- <https://www.yahoo.com/lifestyle/galapagos-costa-rica-creating-underwater-170553961.html>

Monitoring to find “tipping point” for coastal wetlands

- <https://phys.org/news/2022-01-coastal-wetlands.html>

SW coastal Louisiana project receives \$125M to provide non-structural hurricane reduction measures

- <https://www.kplctv.com/2022/01/26/southwest-coastal-louisiana-project-receives-millions-funding/>

Coastal cities in China competing for distant-water catch – supported by subsidies

- <https://www.seafoodsource.com/news/environment-sustainability/china-s-coastal-cities-competing-for-distant-water-catch-with-generous-subsidies>

San Clemente, California, bans e-bikes on beach, pier & coastal trails

- <https://voiceofoc.org/2022/01/san-clemente-bans-e-bikes-on-beach-pier-and-coastal-trails/>

Update: California Coastal Commission wins appeal to stop private seawalls for two beachfront houses

- <https://mustangnews.net/coastal-commission-halts-production-of-seawalls-in-pismo-beach/>

Red knots & northern gannets highlight Christmas bird count on Ocracoke Island

- <https://coastalreview.org/2022/01/red-knots-northern-gannets-highlight-christmas-bird-count/>

Conflict between community-level activism & policy making regarding coastal flooding in Boston Harbor

- <https://thescopeboston.org/7534/climate-justice/in-the-race-to-solve-boston-harbors-coastal-flooding-problem-who-calls-the-shots/>