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Geoscience Bulletin Board – 9 May 2022 – compiled by Elaine J. Hanford

3 University of Oklahoma meteorology students died in car crash returning from storm chase

- <https://www.yahoo.com/news/three-ou-meteorology-students-die-210642385.html>

“Bathtubs” may catch mudslides in Glenwood Canyon along I-70 in Colorado

- <https://www.denverpost.com/2022/04/28/glenwood-canyon-cleanup-mudslides-i-70/>

Loss of lichens that help hold soil crusts together may increase wind erosion

- <https://insideclimatenews.org/news/02052022/lichens-climate-change/>

Improving fault-slip simulations & 3D dynamic modeling of earthquakes & aseismic slip

- <https://eos.org/research-spotlights/earthquake-modelers-unite-to-compare-and-improve-code>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021JB023519?af=R>

Dendrochronology & ice cores narrow down potential dates for Thera volcanic eruption

- <https://www.eurekalert.org/news-releases/951455>
- Link to paper: <https://academic.oup.com/pnasnexus/advance-article/doi/10.1093/pnasnexus/pgac048/6575909>

Geophysical insights into the composition and structure of Earth

- <https://www.sciencedaily.com/releases/2022/05/220502142132.htm>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021GL096336>

Garth Brooks concert in Louisiana registered as an earthquake

- <https://www.macon.com/news/nation-world/national/article260983772.html>

British geologist faces death penalty in Iraq for smuggling pottery shards

- <https://www.theguardian.com/world/2022/apr/30/jim-fitton-family-of-british-geologist-facing-death-penalty-in-iraq-urge-uk-to-intervene>

Rapid global climate change in ice-capped world about 304 myo – CO₂ doubled from 350 to 700 ppm possibly from volcanic eruptions – no humans involved

- <https://www.ucdavis.edu/climate/news/carbon-climate-change-and-ocean-anoxia-ancient-icehouse-world>
- Paper: <https://www.pnas.org/doi/full/10.1073/pnas.2115231119>

Book Review: "Weird But True! Know-It-All Rocks & Minerals"

- https://www.yankton.net/life/article_651640fc-c994-11ec-9eed-cf836f09af0d.html

Kekerengu Fault in New Zealand has roughly 375-year rupture recurrence interval

- <https://www.stuff.co.nz/science/128443741/dates-calculated-for-past-kekerengu-fault-ruptures-could-help-identify-previous-multifault-earthquakes>
- Paper: <https://www.tandfonline.com/doi/full/10.1080/00288306.2022.2059766>

New high-resolution topographic map reveals complex geological history of Yellowstone

- <https://www.gim-international.com/content/news/new-elevation-map-reveals-yellowstone-s-complex-geologic-history>
- <https://www.usgs.gov/observatories/yvo/news/yellowstone-exposed-new-elevation-map-reveals-parks-complex-geologic-history>

EPA recommends US Army COE decline to reissue key permit for proposed PolyMet Cu-Ni mine

- <https://www.msn.com/en-us/news/us/epa-recommends-against-reissuing-permit-for-poly-met-mine/ar-AAWTrZR>

PERiLS (Propagation, Evolution & Rotation in Linear Storms) will research tornadoes in SE US

- <https://www.wrbl.com/weather/new-tornado-research-project-will-focus-on-the-southeast/>

Growing databases of isotopic data in the ocean

- <https://eos.org/science-updates/clues-from-the-sea-paint-a-picture-of-earths-water-cycle>

Oceanic biological carbon pump still poorly understood

- <https://eos.org/articles/the-ocean-is-still-sucking-up-carbon-maybe-more-than-we-think>
- Paper: <https://www.nature.com/articles/s41467-022-28842-3>

3D models to forecast rock tower frequencies & seismic impacts

- <https://eos.org/articles/rock-music-in-utah>

The view from inside a tornado

- <https://theconversation.com/what-do-tornadoes-look-like-on-the-inside-179357>

Kilauea now erupting a steady stream of lava

- https://www.huffpost.com/entry/kilauea-volcano-is-now-erupting-a-steady-stream-of-lava-after-a-period-of-intermittent-pulsing_n_62705a2ae4b029505df53fca

Impact of landslides on glacial melt and movement

- <https://phys.org/news/2022-05-landslides-major-impact-glacier-movement.html>

Using portable Raman spectrometer to classify rocks according to particle size

- <https://phys.org/news/2022-05-characterizing-limestone-raman-spectroscopy.html>

Framework for forecasting snowpack contribution to flood risk during winter storms

- <https://phys.org/news/2022-05-framework-contribution-snowpack-winter-storms.html>
- Paper: [https://www.cell.com/iscience/fulltext/S2589-0042\(22\)00510-7](https://www.cell.com/iscience/fulltext/S2589-0042(22)00510-7)

Electrical conductivity & density in the crust reflect plate tectonic processes in crust & mantle

- <https://phys.org/news/2022-05-earth-interior-electrical-density-crust.html>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021GL096336>

Lizards, snakes and other squamates diverged during Mid to Late Jurassic epochs before Cretaceous Terrestrial Revolution

- <http://www.sci-news.com/paleontology/squamate-macroevoolutionary-history-10769.html>
- Paper: <https://elifesciences.org/articles/66511>

“Greek salad” of hydrothermal microbes

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=305088&org=GEO&from=news

Genomics of sponges in coral reefs provide insight into symbiotic evolution

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=305089&org=GEO&from=news

New tool to assess lahar hazards on Mount Rainier

- <https://www.usgs.gov/news/featured-story/usgs-offers-emergency-managers-new-tool-assess-lahar-hazards-mount-rainier>
- OFR 2021-1118: <https://pubs.usgs.gov/of/2021/1118/ofr20211118.pdf>

Vikings abandoned Greenland not because of cold during Little Ice Age but because of drought

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=305004&org=GEO&from=news
- Paper: <https://www.science.org/doi/10.1126/sciadv.abm4346>

Online portal for forecasting large convective storms in West Africa

- https://www.spacedaily.com/reports/New_portal_improves_forecasts_of_devastating_storms_in_West_Africa_999.html
- Paper: <https://iopscience.iop.org/article/10.1088/1748-9326/ac536d/pdf>

The Blue Whale – endangered giant of the sea revealed by whaling records

- https://www.terraily.com/reports/Chasing_the_blue_whale_999.html
- Paper: <https://www.nature.com/articles/s41598-022-09570-6>

Yet another significant dust storm in Iraq

- https://www.spacedaily.com/reports/Iraq_yet_again_hit_by_dust_storm_999.html

NASA simulation suggests flood basal eruptions may warm climate & devastate ozone layer

- https://www.spacedaily.com/reports/NASA_simulation_suggests_some_volcanoes_might_warm_climate_destroy_ozone_layer_999.html

Extinction of large dinosaurs 66 myo changed plant evolution

- https://www.terraily.com/reports/Dinosaur_extinction_changed_plant_evolution_999.html

- Paper: <https://royalsocietypublishing.org/doi/10.1098/rspb.2021.2633>

September 2021 Claxton Bay landslide in Trinidad

- <https://blogs.agu.org/landslideblog/2022/05/04/claxton-bay-1/>

Podokesaurus holyokensis – mid-Jurassic “cute little guy” is now official state dinosaur of Massachusetts – received 60% of votes in public poll

- <https://www.boston.com/news/local-news/2022/05/03/massachusetts-state-dinosaur-podokesaurus-holyokensis-jack-lewis-mignon-talbot-mount-holyoke/>

LiDAR provides more accurate 3D images of topography to aid in landslide delineation in North Carolina

- <https://news.ncsu.edu/2022/05/getting-a-better-view-of-landslide-risk-with-lidar/>

First the Big Bang, then the “Big Crunch” – a cycle in the existence of the Universe - cyclic cosmology

- <https://www.msn.com/en-us/news/technology/universe-may-collapse-in-a-big-crunch-sooner-then-we-thought-physicists-say/ar-AAWWxsi>
- Paper: <https://www.pnas.org/doi/10.1073/pnas.2200539119#sec-3>
- Hindu cycles and Vedic age of Universe: https://www.cs.ubc.ca/~goyal/age_of_universe.php
- Conformal Cyclic Cosmology Model: <https://mhshighlife.com/2020/12/21/the-indefinite-cycle-of-the-universe/>

Perspective: Recognizing the “hot model” problem of climate simulations – the problem is projecting

- <https://www.nature.com/articles/d41586-022-01192-2>

Seismic activity on the island of São Jorge in the Azores reveals “trend toward stabilization”

- <https://www.theportugalnews.com/news/2022-05-05/earthquake-activity-moving-towards-stabilisation/66834>

The potential “golden spike” of the Anthropocene – is a formal geological definition really needed?

- <https://www.science.org/content/article/bogs-lakebeds-and-sea-floors-compete-become-anthropocene-s-golden-spike>



Environmental Science Bulletin Board – 9 May 2022 – compiled by Elaine J. Hanford

Texas revolt against giant new highways

- <https://www.yahoo.com/news/just-more-more-lanes-texan-090036400.html>

984-foot-tall Abeno Haruka is now tallest skyscraper in Japan – vertical garden city

- <https://www.archpaper.com/2022/04/japans-tallest-tower-tops-out-in-tokyo/>

Arizona DEQ issued aquifer protection plan permit for proposed Pinyon Plain uranium mine about 10 miles south of Grand Canyon in Kaibab National Forest

- <https://www.yahoo.com/news/arizona-approves-key-environmental-permit-004941170.html>
- <https://www.yahoo.com/news/conservation-groups-contest-discharge-permit-193233009.html>

During severe drought not all Southern California neighborhoods equally restricted in water use

- <https://www.yahoo.com/news/why-socal-neighborhoods-face-dire-120039503.html>

More than 300 employees at CDC have been vaxxed against covid

- <https://www.christianitydaily.com/articles/15739/20220429/hundreds-of-cdc-employees-remain-unvaccinated-despite-vaccine-push.htm>

Wasteful government spending significantly increases National Debt

- <https://www.christianitydaily.com/articles/15714/20220427/report-reveals-biden-administration-s-wasteful-spending-including-funding-chinese-researchers.htm>
- Report: <https://senlankford.app.box.com/s/xw4l1l51sj7n8k3kuhst93b9j0lr1si2>

Required E15 gas will increase price per gallon by 15 cents – but Biden said it would lower price

- <https://www.msn.com/en-us/autos/news/two-days-left-to-pump-less-expensive-gas-prices-scheduled-to-soar-here-s-why/ar-AAWLody>
- <https://kmpn.com/news/nation-world/explainer-why-president-joe-biden-is-allowing-more-ethanol-in-gasoline-russia-ukraine-war-high-fuel-prices-environmental-protection-agency-emergency-waiver>

\$118M American Flat Project near Reno, NV to treat water before releasing it to replenish aquifer

- <https://www.msn.com/en-us/weather/topstories/reno-city-council-moves-forward-with-water-purification-facility/ar-AAWLE4j>
- Project: <https://tmwa.com/project/american-flat-project-information/>

Glen Canyon Dam losing ability to generate hydroelectric power

- <https://www.msn.com/en-us/news/us/lake-powell-water-officials-face-an-impossible-choice-amid-the-west-s-megadrought/ar-AAWMdh7>

MIT develops portable desalination unit that uses electric currents to remove salts

- <https://www.yahoo.com/news/mit-engineers-created-portable-device-212012910.html>

San Luis Obispo County to immediately halt all new water-using development, including housing

- <https://www.yahoo.com/news/slo-county-towns-must-halt-195445329.html>

New study predicts “unprecedented” 5X increase in people falling from US Border Wall – but they deliberately try to illegally enter the US – their bad decisions cost San Diego health care \$13M

- <https://www.msn.com/en-us/news/us/border-wall-falls-increasing-at-unprecedented-level-study-says/ar-AAWLdKQ>
- <https://www.msn.com/en-us/news/us/trump-s-taller-wall-is-killing-migrants/ar-AAWSELe>
- Study: <https://health.ucsd.edu/news/releases/Pages/2022-04-29-study-unprecedented-increase-in-number-of-border-wall-falls-and-trauma.aspx>

Tuberculosis outbreak in State of Washington – largest cluster of cases in 20 years

- <https://www.msn.com/en-us/health/medical/washington-records-largest-tb-outbreak-in-20-years/ar-AAWLeQB>

Almost 5 million bees die in extreme heat on tarmac in Atlanta, Georgia

- <https://www.yahoo.com/news/millions-bees-were-transported-delta-092826891.html>

Number of babies born with syphilis surging over the decade – rate in Hispanics increased more than 200%

- <https://www.msn.com/en-us/news/us/babies-die-as-congenital-syphilis-continues-a-decade-long-surge/ar-AAWNZQ0>
- CDC data for Hispanics: <https://www.cdc.gov/nchhstp/healthdisparities/hispanics.html>

Wedgewood, Florida, home to clay & sand pits turned into unlined landfills that spontaneously erupted in fires, along with heavy traffic and high cancer & heart disease death rates – Escambia County has 7 Superfund sites & 56 Brownfield sites overlying contaminated groundwater

- <https://insideclimatenews.org/news/01052022/wedgewood-pensacola-health-landfills-borrow-pits/>

Greyhound racing may soon end in the US – only two tracks will remain at the end of the year

- <https://www.msn.com/en-us/news/us/greyhound-dog-racing-appears-close-to-ending-in-united-states/ar-AAWPXyb>

Sacrifice our veterans to provide benefits for illegal aliens at the Southern Border

- <https://www.msn.com/en-us/news/us/biden-would-take-from-veterans-to-clean-up-the-border-mess-he-created/ar-AAWOVuI>

US Census Bureau changing the definition of urban area

- <https://thehill.com/news/ap/ap-u-s-news/100s-of-us-urban-areas-will-become-rural-with-new-criteria/>

Acetaminophen - most dangerous OTC drug in Tylenol and a whole host of other OTC products – acute liver failure from large dose or repeated doses or mixed with other drugs or alcohol

- <https://currently.att.yahoo.com/att/cm/popular-med-most-dangerous-otc-130202501.html>
- <https://www.drugwatch.com/tylenol/>

6-story residential/commercial building collapses in Wangcheng District in China – several still trapped or missing – owners detained

- <https://www.bbc.com/news/world-us-canada-61290444>

Veteran rattlesnake handler dies after being bitten during a show in Texas Rattlesnake Roundup

- <https://www.yahoo.com/news/rattlesnake-handler-dies-doing-loved-144307836.html>

Highly food-conditioned harem stallion from Assateague Island relocated to Texas sanctuary

- <https://www.yahoo.com/news/aggressive-wild-horse-named-chip-160504583.html>
- Black Beauty Ranch: <https://www.humanesociety.org/blackbeauty ranch>

California claims to have become 100% powered by “renewable” energy sources for brief moment

- <https://www.yahoo.com/news/california-100-percent-powered-renewables-232255938.html>

Arizona trying to cope with water demand that exceeds water supply

- <https://www.yahoo.com/news/happens-arizonas-development-decisions-ignore-140030989.html>

Perspective: Why are US National Parks are filled with plastic?

- <https://www.msn.com/en-us/travel/news/why-are-american-national-parks-filled-with-plastic/ar-AAWRYdd>

Former Krejci toxic dump site is part of 200-acre addition to Cuyahoga Valley National Park

- <https://www.msn.com/en-us/travel/tripideas/it-was-a-toxic-wasteland-now-it-s-a-national-park/ar-AAWQ6yi>

Failed GoTriangle light rail project in North Carolina cost \$157M

- <https://www.newsobserver.com/news/local/counties/durham-county/article260975047.html>

EIR completed for 90-mile segment of California High-Speed Rail from San Jose to Merced

- <https://cal.streetsblog.org/2022/04/29/high-speed-rail-hits-milestones/>

It is about time - Los Angeles, California, is beginning to change how it uses water

- <https://www.fastcompany.com/90747432/in-the-face-of-megadroughts-l-a-is-transforming-how-it-uses-water>

Book Review: “The Geography of Wisconsin”

- <https://www.yahoo.com/news/wisconsins-coldest-temperature-highest-point-110424746.html>

Wild boar terrorizing Rome

- <https://www.msn.com/en-us/news/world/the-people-of-rome-are-being-held-hostage-by-wild-boar/ar-AAWUz7u>

San Francisco \$160M supportive housing program for homeless is plagued with crime, violence, drug overdoses, rat infestations & unsanitary living conditions

- <https://www.msn.com/en-us/money/realestate/san-francisco-spent-160-million-only-to-have-homeless-people-die-in-rat-infested-hotels/ar-AAWKWOM>

With supply greatly exceeding demand, Denmark to dispose of vaccines ready to expire

- <https://www.msn.com/en-us/health/medical/why-denmark-is-destroying-1-1-million-covid-19-vaccines-amid-ongoing-pandemic/ar-AAWTdOP>

Pfizer accused of profiteering from vaccines & Paxlovid – reduces viral load but does not cure patient and when rebound occurs patient told to take more drug even though under EUA drug is not authorized for use longer than 5 consecutive days – FDA contradicts advice

- <https://www.msn.com/en-us/money/companies/pfizer-accused-of-covid-profiteering-as-first-quarter-sales-hit-26bn/ar-AAWS9M1>
- <https://www.msn.com/en-us/money/other/pfizer-says-patients-who-relapse-after-covid-pill-can-repeat/ar-AAWSWOT>
- <https://www.msn.com/en-us/money/markets/pfizer-s-advice-on-retaking-covid-drug-contradicted-by-fda/ar-AAWVluW>

Madras High Court in India ruled that Mother Nature has same legal status as a human being

- <https://insideclimatenews.org/news/04052022/india-rights-of-nature/>

Construction begun on 8.9MS floating solar installation at New Jersey American Water Canoe Brook Wastewater Treatment Plant

- <https://www.solarpowerworldonline.com/2022/05/construction-begins-on-largest-floating-solar-project-in-the-us/>

“Resilient” water portfolio design in California

- <https://eos.org/research-spotlights/assessing-water-infrastructure-investments-in-california>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021EF002573>

Visualizing the potential phase out of coal for energy production

- <https://www.visualcapitalist.com/how-far-from-phasing-out-coal-power/>

Visualizing the most produced cash crops in Africa

- <https://www.visualcapitalist.com/cp/what-are-the-most-produced-cash-crops-in-africa/>

Western river compacts – viewed within current drought and increasing population demand

- <https://theconversation.com/western-river-compacts-were-innovative-in-the-1920s-but-couldnt-foresee-todays-water-challenges-175121>

Hot drinks cause plastic cups to shed trillions of nano-plastic particles that impact your body

- <https://www.nist.gov/news-events/news/2022/04/nist-study-shows-everyday-plastic-products-release-trillions-microscopic>
- <https://www.treehugger.com/microplastics-in-humans-5202993>

Impacts of 4 million visitors on Acadia National Park

- <https://www.nationalparkstraveler.org/2022/05/what-does-four-million-visits-mean-acadia>

Animals exhibit a spectrum of strategies to survive in the cold

- <https://phys.org/news/2022-05-cold-survival-strategies-animals-spectrum-either-or.html>
- Paper: <https://royalsocietypublishing.org/doi/10.1098/rsbl.2022.0050>

Benefits of ecological flood control measures

- <https://phys.org/news/2022-05-reduction-confers-multiple-benefits.html>
- Paper: <https://www.frontiersin.org/articles/10.3389/fenvs.2021.778568/full>

WHO warns of consequences of obesity epidemic in Europe

- https://www.terraily.com/reports/WHO_warns_of_obesity_epidemic_in_Europe_999.html

Do we really computer-designed repurposing of chemical waste to create more drugs?

- <https://arstechnica.com/science/2022/05/turning-waste-into-gold-drugs/>
- Paper: <https://www.nature.com/articles/s41586-022-04503-9>

Plastic recycling rate drops below 6% in the US – plastic waste exports plummeted

- <https://www.msn.com/en-us/news/us/u-s-plastics-recycling-rate-slumps-below-6-percent-analysis-finds/ar-AAWViRb>

Ranking states on improvements in lives of senior citizens – Nevada is the worst

- <https://www.msn.com/en-us/health/medical/study-shows-nevada-ranks-51st-in-life-improvement-for-seniors-over-last-decade/ar-AAWTPf4>
- Report: <https://www.seniorly.com/resource-center/health-and-lifestyle/states-with-the-most-improved-outlook-for-older-adults>

Young Bison that had escaped and wandered free since November is killed when hit by vehicle – had been shot in the head and was malnourished

- <https://www.msn.com/en-us/news/world/escaped-bison-that-went-viral-captures-community-spirit-in-seabeck/ar-AAWTCg3>

The human trophic level - since the Pleistocene humans have been apex predators

- <https://www.msn.com/en-us/news/technology/humans-were-actually-apex-predators-for-2-million-years-evidence-shows/ar-AAWWqGR>
- Paper: <https://onlinelibrary.wiley.com/doi/10.1002/ajpa.24247>

We need to protect national sovereignty and security of all American citizens under the law – how to deal with 11 million illegal immigrants?

- <https://www.msn.com/en-us/news/politics/america-s-unauthorized-immigrants-have-been-cut-out-of-the-conversation/ar-AAWVFlp>

Has the “Great Green Wall” project in Africa achieved more than a modicum of success?

- <https://www.nature.com/articles/d41586-022-01201-4>

Health risks of exposure to PFAS forever chemicals – liver disease as well as low birth weight, cancer & immune dysfunction

- <https://www.yahoo.com/news/healthy-people-risk-liver-disease-145957804.html>

- Paper: <https://ehp.niehs.nih.gov/doi/10.1289/EHP10092>

Devil's Hole pupfish is not yet extinct

- <https://www.yahoo.com/news/devils-hole-pupfish-paddled-back-120035780.html>

Sioux Falls breaks ground on \$215M expansion of wastewater reclamation plant

- <https://www.argusleader.com/story/news/2022/05/03/sioux-falls-215-million-wastewater-expansion-begins/9629150002/>

FEMA again certifies Metro East levees in Missouri to withstand 100-year- level flood

- <https://news.stlpublicradio.org/economy-business/2022-05-02/fema-says-metro-east-levees-can-again-withstand-a-100-year-flood>

GAO assesses National Earthquake Hazards Reduction Program benefits to communities

- <https://www.gao.gov/products/gao-22-105016>
- Report: <https://www.gao.gov/products/gao-22-105016>

GAF Energy creates solar shingles that can be directly nailed to the roof – design life of 25 years

- <https://www.fastcompany.com/90741059/how-the-worlds-largest-roofing-company-rolled-out-solar-shingles-for-your-home>

Plastic recycling does not work and never will – generating 287 pounds of plastic per person per year – rate of recycling reached peak of 14% and continues to decline – now less than 6%

- <https://www.msn.com/en-us/news/world/former-epa-official-plastics-recycling-does-not-work-and-never-will-work/ar-AAWYDpO>

COVID by the numbers – assuming all US covid deaths were due to the virus

- <https://www.msn.com/en-us/news/us/nearly-1-million-covid-19-deaths-a-look-at-the-us-numbers/ar-AAWZkzf>

Texas legally used Coronavirus Relief Fund monies to protect US citizens through Operation Lone Star to enforce the Southern Border

- <https://www.msn.com/en-us/news/politics/how-federal-covid-aid-helped-texas-pay-for-its-border-crackdown/ar-AAWZEDv>

Analysis tallied more than 2,200 high-hazard dams across the US – most are in SE US states

- <https://apnews.com/article/technology-business-environment-san-diego-dams-d0836a1fd46a5f1ea6c6a4a8b8df96>

Following construction site fatality, Suffolk County, Massachusetts, pauses all projects to conduct safety reviews

- <https://www.nbcboston.com/news/local/suffolk-pauses-all-boston-projects-for-safety-review-after-building-collapse/2712787/>

California anticipating power brown outs over upcoming summer due to shortages and threats from drought and wildfires and extreme heat increasing air conditioning demand – but what about all that “green” renewable energy?

- <https://currently.att.yahoo.com/news/california-prepares-energy-shortfalls-hot-214114597.html>

- <https://www.yahoo.com/news/california-says-needs-more-power-194133420.html>
- <https://www.yahoo.com/news/california-100-percent-powered-renewables-232255938.html>

Recognizing significant impacts of 22-year megadrought on Colorado River – but Californians still water their lawns thinking they put water “into Lake Mead”

- <https://www.yahoo.com/news/arizona-officials-warn-risks-colorado-022921881.html>

More and more deaths occurring in those who were vaxxed & boosted

- <https://www.msn.com/en-us/health/medical/data-shows-vaccinated-u-s-citizens-made-up-more-than-40-of-covid-19-deaths-during-omicron-peak-as-deaths-continue-to-rise-in-wisconsin/ar-AAX0okK>



Coastal Zone Management Bulletin Board – 9 May 2022 – compiled by Elaine J. Hanford

Alabama Shipyard at Mobile was essentially dormant for many decades

- <https://www.msn.com/en-us/news/technology/alabama-shipyard-on-the-mobile-waterfront-a-sleeping-giant-has-awakened/ar-AAWJuUL>

Caribbean beaches along coast of Mexico may see “alarming” levels of sargassum

- <https://www.msn.com/en-us/travel/news/mexico-caribbean-beaches-may-see-worst-sargassum-since-2018/ar-AAWLhDy>

Port of Long Beach drives golden spikes to celebrate rail lines intended to increase efficiency & reduce pollution and congestion – project cost \$34.7M part of \$1B rail capital improvement program

- <https://www.dailybreeze.com/2022/04/28/port-of-long-beach-hails-completion-of-rail-project-designed-to-speed-movement-and-reduce-pollution-and-congestion/>

Coos Bay, Oregon, container terminal revitalization proposed as new infrastructure mega-project

- <https://kval.com/news/local/two-oregon-mega-projects-on-sen-merkleys-agenda-for-infrastructure-spending>

Long Beach Municipal Urban Stormwater Treatment Project intended to reduce flow of untreated stormwater runoff into Los Angeles River, San Pedro Bay & Pacific Ocean – first phase budget \$44M

- <https://stormwater.wef.org/2022/04/long-beach-stormwater-project-promises-protection-for-la-river/>
- LB-MUST: <https://longbeach.gov/pw/projects/lbmust/>

Sea grass accumulates sucrose – a large reservoir of stored organic carbon

- <http://www.natureasia.com/en/research/highlight/14063>
- Paper: <https://www.nature.com/articles/s41559-022-01740-z>

Land subsidence and rise can impact coastal flooding under potential scenarios

- <https://www.nzherald.co.nz/nz/rising-tides-whats-in-store-for-nzs-three-biggest-cities/4VUIHQZIIPLF3UA6CCC5MZZW5E/>

A potential increase in floating offshore wind by 2030 to 6.1% – current contribution is only 0.1%

- <https://www.powermag.com/dramatic-innovation-driven-ramp-up-of-floating-offshore-wind-anticipated-by-2030/>

Towns along mid coast of Maine considering moratoriums on building private piers

- <https://bangordailynews.com/2022/05/03/news/midcoast/coastal-private-piers-halt-joam40zk0w/>

Qatar Coastal Defense System – 2 missile systems

- <https://www.navalnews.com/naval-news/2022/05/qatars-coastal-defense-system-exocet-and-marte-er-by-mbda/>

Coastal cities are sinking faster than sea level is rising due to excess groundwater withdrawal

- <https://www.scientificamerican.com/article/coastal-cities-are-drinking-themselves-underwater1/>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2022GL098477>

New species of salamander discovered in Gulf Coastal Plain of SE Mississippi & SW Alabama

- <https://phys.org/news/2022-05-species-salamander-gulf-coastal-plains.html>

California considering “blue carbon” to mitigate effects of coastal developments

- <https://www.sandiegouniontribune.com/news/politics/story/2022-05-02/blue-carbon-mitigation>

California Condors once again soar over coastal redwoods – 2 captive-bred birds released

- <https://baytobaynews.com/stories/condors-soar-again-over-northern-california-coastal-redwoods,77872>

Celebrating National Travel & Tourism Week in Corpus Christi, Texas

- <https://www.kristv.com/news/its-national-travel-and-tourism-week-in-corpus-christi>

US Dept Interior Office of Natural Resources Revenue to disburse \$252M to offshore Gulf O&G producing states – AL, LA, MS & TX – to support coastal conservation, restoration, resilience

- <https://www.doi.gov/pressreleases/interior-department-disburses-over-252-million-gulf-states-supporting-coastal>

Future of aquaculture hinges on research & education

- <https://coastalreview.org/2022/05/sustainable-aquaculture-may-hinge-on-research-education/>

Coastal aquaculture may reduce nutrient transport & alter hydrodynamics

- <https://eos.org/research-spotlights/coastal-aquaculture-can-reduce-nutrient-transport>

US Army COE launches coastal resilience study for the Great Lakes (GLCRS)

- <https://www.mlive.com/public-interest/2022/04/army-corps-launching-8-state-great-lakes-coastal-resilience-study.html>
- GLCRS: <https://www.lrc.usace.army.mil/Missions/GLCRS/>

Public role in securing coastal access under California Coastal Act

- https://angeles.sierraclub.org/news_conservation_great_coastal_places/blog/2022/05/your_role_in_securing_coastal_access

Cruise ship returns to Schneider Dock in Eureka, California

- <https://www.times-standard.com/2022/05/03/cruise-ship-ports-in-eureka/>

Supply chain at existing ports could be improved by more efficient use of existing infrastructure

- <https://ajot.com/news/new-cranes-and-existing-docks>

EPA announced \$40M to help restore Chesapeake Bay

- <https://apnews.com/article/business-environment-wildlife-district-of-columbia-us-environmental-protection-agency-67104ad2bc9181e86ff5e09d679a8210>

Atchafalaya Basin in Louisiana is US largest cypress swamp – protects critical coast

- https://www.huffpost.com/entry/atchafalaya-basin-ticking-time-bomb_n_624c4afce4b007d3845b506f

Seagrass meadow “lungs of the Mediterranean” are at risk

- https://www.spacedaily.com/reports/Lungs_of_the_Mediterranean_at_risk_999.html

500,000 barrels of DDT and acid sludge dumped into ocean near Catalina Island from 1947-1961 – a ticking time bomb environmental disaster

- <https://www.msn.com/en-us/news/politics/under-the-sea-out-of-mind-has-turned-into-a-ticking-time-bomb/ar-AAWTugr>

Lack of policy enforcement has allowed illegal construction in protected ecological reserves in Puerto Rico – 3,600 mangrove trees cut in Jobos Bay National Estuarine Research Reserve

- <https://www.msn.com/en-us/news/us/builders-hurt-protected-areas-in-climate-weary-puerto-rico/ar-AAWYPFQ>

Dolphin, sharks, catfish and redfish tangled in illegally-placed gill net off coast of Texas

- <https://www.yahoo.com/news/dolphin-found-tangled-illegally-placed-230037300.html>

USDA to invest \$22.5M in water quality improvements & conservation in Chesapeake Bay watershed

- <https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/newsroom/releases/?cid=NRCSEPRD1920023>

Panama City Beach approved \$21M grant to construct offshore stormwater outfall about 1,500 feet into the Gulf of Mexico across from Lullwater Lake

- <https://www.newsherald.com/story/news/local/2022/05/02/panama-city-beach-fl-stormwater-outfall-project-full-speed-ahead/9583707002/>

Collapse of steel frame scaffold injures 3 construction workers at Port of Long Beach

- <https://heysocal.com/2022/05/07/steel-scaffold-collapse-injures-3-construction-workers-at-long-beach-port/>

6 missiles hit coastal city of Odesa in Ukraine

- <https://www.theguardian.com/world/2022/may/07/odesa-missiles-ukraine-sunk-russian-ship-drone-claims>

Invasive species are significant threat to coastal estuaries in California

- <https://www.sciencedaily.com/releases/2022/05/220505180924.htm>

Town of Avila on northern San Luis Obispo Bay offers excellent whale watching & other recreation

- <https://www.travelandleisure.com/trip-ideas/beach-vacations/avila-beach-california-small-town>

Residents of South Shore & Cape Cod worried they will not be notified prior to dumping of radioactive wastewater into Cape Cod Bay by Pilgrim Nuclear Power Station

- <https://boston.cbslocal.com/2022/05/06/plymouth-nuclear-plant-radioactive-water-disposal/>

Best coastal towns in Georgia – I can attest to the beauty of Tybee Island

- <https://www.southernliving.com/travel/georgia/coastal-georgia-towns?slide=8c99e446-49fa-4a69-93f3-3df424947974#8c99e446-49fa-4a69-93f3-3df424947974>

Homebuyers fail to factor potential sea level rise risk into home prices

- <https://www.freddiemac.com/research/insight/20220506-homebuyers-coastal-florida-are-not-factoring-sea-level-rise-risk-home>
- Research Note: <https://www.freddiemac.com/research/insight/20220316-sea-level-rise-and-impact-home-prices-coastal-florida>

Coastal areas are focus of conservation efforts since passage of Coastal Zone Management Act of 1972

- <https://www.greenmatters.com/p/why-are-coastal-areas-a-focus-of-conservation>

Historic settlement site at Jamestown, Virginia, is now endangered

- <https://www.bbc.com/news/world-us-canada-61315343>

Air conditioner leaks of Freon at Sandals Emerald Bay Resort result in deaths of vacationers

- <https://www.msn.com/en-us/travel/news/american-killed-by-sandals-air-con-leak-was-celebrating-anniversary/ar-AAX1VQs>
- Freon banned in the US: <https://www.callaqm.com/blog/freon-refrigerant-banned-us-2020/>