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Geoscience Bulletin Board – 16 May 2022 – compiled by Elaine J. Hanford

Glacial ice is a metamorphic rock

- <https://www.whoi.edu/know-your-ocean/did-you-know/is-glacier-ice-actually-rock/>

Landslide buries road outside Lowell Point community near Seward, Alaska

- <https://www.msn.com/en-us/news/us/landslide-buries-primary-road-connecting-alaska-resort-community-to-city-of-seward/ar-AAX3bRA>

Book Review: Geopedia – a quirky look at geological topics

- <https://arstechnica.com/science/2022/05/an-encyclopedia-of-geology-thats-less-a-reference-than-a-journey/>

Summer vacations to view fossils

- <https://www.timesrepublican.com/news/outdoors-today/2022/05/geology-and-fossils-all-great-vacation-destinations/>

Geologic reconnaissance in Val d'Or in Quebec to assess mineral potential

- <https://www.digitaljournal.com/pr/black-tusk-resources-inc-geology-team-reconnaissance-in-val-dor-quebec>

Art exhibit in France focusses on geology of Grand Staircase-Escalante National Monument, Utah

- <https://www.stgeorgeutah.com/news/archive/2022/05/09/jsb-art-exhibit-in-france-connects-european-audiences-with-utahs-grand-staircase-escalante-national-monument/>

Collapse of bridge in Pakistan blamed on glacial lake outburst – but look closely at the poor structural integrity of the bridge before waters wash out footing

- <https://sg.news.yahoo.com/pakistan-bridge-swept-away-glacier-113424617.html>
- <https://www.theaustralian.com.au/news/pakistan-bridge-swept-away-by-glacier-lake-outburst/video/1b001edac123593b68cb7f5783086a11>
- <https://floodlist.com/asia/pakistan-glof-floods-gilgit-baltistan-may-2022>

- Pre-flood photo: <https://dailyrapidnews.com/eng/2022/05/07/flooding-in-the-shishper-glacier-has-severely-damaged-a-bridge/>

Ice jam on Tanana River causes flooding in Manley Hot Springs in Alaska

- <https://www.yahoo.com/now/disaster-emergency-declared-amid-ice-175631285.html>

8 May 2022 Bijie large rockslide in China caught on video

- <https://blogs.agu.org/landslideblog/2022/05/10/bijie-landslide/>

What if the 7.3m 1886 Charleston Earthquake were to happen again today as seismic frequency in the area has increased?

- <https://www.thestate.com/news/local/article261257652.html>
- <https://www.thestate.com/news/local/article261249182.html>
- <https://www.thestate.com/news/local/environment/article261239302.html>

Porphyry copper deposits may be result of failed volcanic eruptions

- <https://www.sciencedaily.com/releases/2022/05/220509112044.htm>
- Paper: <https://www.nature.com/articles/s43247-022-00440-7>

Levels of atmospheric helium may be rising – new technique used to detect helium

- <https://www.sciencedaily.com/releases/2022/05/220509112102.htm>

As should be expected, timing of ocean plankton blooms will shift with temperature regime

- <https://phys.org/news/2022-05-ocean-plankton-blooms-shift-global.html>

No surprise here – climate models overestimate future Afro-Asian Monsoon precipitation & runoff

- <https://phys.org/news/2022-05-latest-climate-tend-overestimate-future.html>
- <https://www.nature.com/articles/s41467-022-30106-z>

Middle Eocene to early Oligocene pseudo horses were picky eaters

- <https://phys.org/news/2022-05-eocene-ungulates.html>

Glaciers affect the stability and short-term eruption cycle of volcanoes

- <https://phys.org/news/2022-05-ice-capped-volcanoes-slower-erupt.html>
- Paper: <https://www.frontiersin.org/articles/10.3389/feart.2022.868569/full>

Moderate earthquake and numerous aftershocks beneath Lake Erie could not be conclusively correlated with changes in lake levels and water loading

- <https://phys.org/news/2022-05-lake-erie-quakes-triggered-shifting.html>

Successful deep-water test of polymetallic nodule collector vehicle is announced

- <https://www.renewableenergymagazine.com/storage/the-metals-company-and-allseas-announce-successful-20220510>

US Army CRREL Permafrost Tunnel Research Facility continues to respond to challenges of building on permafrost

- <https://www.erd.usace.army.mil/Media/News-Stories/Article/3025966/erd-researchers-investigate-how-climate-change-impacts-permafrost/>

45 stolen Burgess Shale fossils recovered by Parks Canada - \$20,000 fine levied

- <https://www.msn.com/en-us/news/canada/parks-canada-recovers-45-fossils-stolen-from-burgess-shale-levies-20-000-fine/ar-AAxc7wl>

Better understanding is needed of glacial processes and changes

- <https://eos.org/opinions/glacial-knowledge-gaps-impede-resilience-to-sea-level-rise>

Shallow-water oceanic model consistent with satellite observations of atmospheric waves produced by underwater eruption of Hunga Tonga-Hunga Ha'apai – biggest since Krakatoa

- <https://eos.org/research-spotlights/modeling-atmospheric-waves-from-hunga-tonga-hunga-haapai>
- https://www.spacedaily.com/reports/Hunga_Tonga_volcanic_eruption_confirmed_as_biggest_bang_since_Krakatoa_999.html
- Paper: <https://www.science.org/doi/10.1126/science.abo7063>

Understanding “dead pool”

- <https://theconversation.com/what-is-dead-pool-a-water-expert-explains-182495>

General Mining Law of 1872 has not changed in 150 years

- <https://www.ehn.org/the-general-mining-act-of-1872-2657314847.html>

Deep-sea microbes have special affinity for adhering to plastic debris

- <https://eos.org/articles/microscopic-hitchhikers-found-on-deep-sea-plastic>
- Paper: <https://www.sciencedirect.com/science/article/pii/S0269749122005280>

Paradigm shift on the origin of ancient fossil nucleosides

- https://www.spacedaily.com/reports/The_origin_of_life_A_paradigm_shift_999.html
- Paper: <https://www.nature.com/articles/s41586-022-04676-3>

Primary fluid inclusions in 830 myo halite from Browne Formation contain organic solids & liquids

- https://www.terraily.com/reports/Ancient_microorganisms_found_in_halite_may_have_implications_for_search_for_life_999.html

NOAA debuts first imagery from GOES-18

- https://www.spacedaily.com/reports/Earth_from_Orbit_NOAA_Debuts_First_Imagery_from_GOES_18_999.html

Exploring the uppermost layer of the ocean – the surface of the sea

- https://www.spacedaily.com/reports/Exploring_the_oceans_thin_skin_999.html

Ice shards in clouds over Antarctica allow more solar energy transmission to Earth surface

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=305163&org=GEO&from=news
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2021AV000454>

New metric for quantifying amount of waste rock generated by mining for minerals

- <https://www.usgs.gov/news/national-news-release/usgs-apple-develop-new-metric-better-understand-global-mining-impacts>
- Paper: <https://pubs.acs.org/doi/10.1021/acs.est.1c07875>

Toward new predictive models for wildfire behavior

- <https://www.usgs.gov/news/national-news-release/new-federal-partnership-will-advance-predictive-models-wildfire-behavior>

1.3 byo Martian Nakhlite meteorite had limited exposure to water

- <http://www.sci-news.com/space/martian-meteorite-water-10807.html>
- Paper: <https://www.science.org/doi/10.1126/sciadv.abn3044>

Using multiple changes in tooth shape to decipher evolution of Tiger Sharks

- <https://www.sciencedaily.com/releases/2022/05/220512121938.htm>
- Paper: <https://onlinelibrary.wiley.com/doi/10.1111/joa.13668>

This megalodon may have had a toothache

- <https://www.sciencedaily.com/releases/2022/05/220512121919.htm>
- Paper: <https://peerj.com/articles/12775/>

Interaction between sea ice and ice shelves in the eastern Antarctic Peninsula

- <https://phys.org/news/2022-05-sea-ice-antarctic-sheet-stability.html>

Mapping heat flow beneath Greenland – mean heat flow of only 44 mW per square meter

- <https://phys.org/news/2022-05-beneath-greenland-highlights-geothermal-freak.html>
- Paper: <https://essd.copernicus.org/articles/14/2209/2022/>

The need for research to quantify soil heavy metal risks surrounding mining areas

- <https://phys.org/news/2022-05-methods-source-apportionment-soil-heavy.html>



Environmental Science Bulletin Board – 16 May 2022 – compiled by Elaine J. Hanford

In memoriam: 80 years since Auschwitz Concentration Camp opened and began exterminations

- <https://www.msn.com/en-us/news/world/20-horrifying-images-of-auschwitz/ss-AAXeGio>

Analysis of UK government data shows covid vaccines kill more than they save

- <https://stevekirsch.substack.com/p/uk-government-data-shows-nobody-should?s=r>

Calling wildlife a “catastrophic risk” to power grid – what about risks to wildlife from power grid?

- <https://www.msn.com/en-us/news/technology/wildlife-could-pose-catastrophic-risks-for-power-grids-experts-say/ar-AAX1ibt>
- <https://www.audubon.org/news/bird-safety-concern-national-push-build-more-power-lines>
- <https://www.tandfonline.com/doi/full/10.1080/1943815X.2012.746993>
- <https://abcbirds.org/blog21/wind-turbine-mortality/>
- <https://www.firstpost.com/tech/science/saving-wildlife-from-power-lines-the-focus-of-a-new-expert-panel-in-environment-ministry-7334541.html>
- <https://www.latimes.com/local/california/la-me-solar-bird-deaths-20160831-snap-story.html>

Saltwater crocodiles eat a lot of feral hogs in Australia – maybe we need to import a few crocs

- <https://www.msn.com/en-us/news/technology/saltwater-crocodiles-are-eating-a-lot-of-feral-hogs-in-australia/ar-AAX1Thz>

WHO says there is “no good evidence” that 4th covid vaccine dose is beneficial

- <https://www.msn.com/en-us/health/medical/no-good-evidence-that-4th-vaccine-dose-is-beneficial-who-says/ar-AAWRtqS>

Perspective: “Grotesque” transgender surgeries should not be called “gender-affirming care” for children

- <https://www.msn.com/en-us/news/other/mike-braun-is-right-about-grotesque-transgender-surgeries-for-children/ar-AAWYbaA>

Current covid vaccines do not prevent the virus – death rates of vaxxed are increasing – is a new “better” vaccine needed? – virus continues to mutate, perhaps spurred on by vaxxing – just wait for the next round of draconian mandates to combat “cases”

- <https://theconversation.com/will-new-vaccines-be-better-at-fighting-coronavirus-variants-5-questions-answered-181926>
- <https://www.msn.com/en-us/health/medical/breakthrough-deaths-comprise-increasing-proportion-of-those-who-died-from-covid-19/ar-AAX7SND>
- <https://www.msn.com/en-us/health/medical/nightmare-covid-variants-are-cracking-the-code-to-our-immunity/ar-AAWYTI9>
- <https://www.yahoo.com/news/significant-uptick-california-coronavirus-outbreaks-235315553.html>

Debating the pros and cons of private land conservation in Virginia

- <https://www.msn.com/en-us/news/us/private-lands-are-the-next-battleground-in-state-conservation-policy/ar-AAX2pls>

Perspective: There is still no evidence that masks work against covid

- <https://www.msn.com/en-us/health/medical/point-there-s-no-evidence-that-masks-work/ar-AAWWtxO>

Asian insects being considered to fight back against invasive Chinese tallow tree in Alabama

- <https://www.msn.com/en-us/news/us/plant-out-of-hell-invading-south-alabama-feds-weigh-using-asian-insects-to-fight-back/ar-AAX2Noq>

20M acres of cropland in US may be contaminated from PFAS-tainted sewage sludge fertilizer

- <https://www.yahoo.com/news/forever-chemicals-may-polluted-20m-090025838.html>

Demands for action with Lake Powell & Lake Mead at record lows – recall that these are 2 man-made reservoirs and human demands for water are high

- <https://www.yahoo.com/news/no-exaggeration-record-lows-lake-130019425.html>

Will a new “Office of Environmental Justice” solve any problem or just increase government spending?

- <https://www.yahoo.com/lifestyle/biden-administration-announces-plan-crack-204000236.html>

Efforts to “restore” the Salton Sea could have serious adverse consequences

- <https://www.yahoo.com/news/salton-sea-isnt-restored-ocean-120202160.html>

Certification programs that claim to verify ‘sustainability’ for fashion industry make “greenwashing” easier

- <https://insideclimatenews.org/news/08052022/fashion-industry-greenwashing/>
- Report: <http://changingmarkets.org/wp-content/uploads/2022/03/LICENCE-TO-GREENWASH-FULL-REPORT.pdf>

Kansas residents question value of proposed \$85M Wolf Creek-Blackberry transmission line to export nuclear power to Missouri

- <https://www.yahoo.com/news/wolf-creek-cost-3-billion-110000512.html>

Government pushes solar power – but customers do not get fair value for excess power to grid

- <https://news.yahoo.com/utilities-push-back-against-growth-083021673.html>

Mackinac National Park only existed for 20 years (1875-1895) before becoming a State Park

- <https://www.msn.com/en-us/travel/news/mackinac-how-it-became-a-national-park-why-it-no-longer-is/ar-AAX3aR3>

Basing national & global policy on a paltry 64-year record of CO2 measurements atop an active volcano that releases carbon dioxide and model assumptions is myopic

- <https://www.msn.com/en-us/weather/topstories/earth-s-co2-hits-highest-recorded-level-in-human-history/ar-AAX4004>

Technological hazard: Big Tech & Disinformation Governance Board are threats to free speech

- <https://www.msn.com/en-us/news/politics/fcc-commissioner-says-biden-s-disinformation-board-is-unconstitutional/ar-AAX4QBn>

New bill in California aims to limit well drilling and over-pumping of groundwater

- <https://www.yahoo.com/news/race-bottom-bill-aims-limit-120035302.html>

More EVs and charging stations but many charging stations do not work

- <https://currently.att.yahoo.com/finance/news/electric-car-charging-stations-becoming-162212118.html>

What if the 7.3m 1886 Charleston Earthquake were to happen again today? How strong an earthquake would have to be to damage house

- <https://www.thestate.com/news/local/article261249182.html>
- <https://www.thestate.com/news/local/article261246887.html>

Valve failure resulted in sediment contamination of water system at William Beaumont Army Medical Center in El Paso, Texas

- <https://www.elpasotimes.com/story/news/2022/05/09/contaminated-water-system-fixed-fort-bliss-army-hospital/9703625002/>

Why \$628M contract was cancelled & 400M doses of covid vaccine were destroyed at Emergent Bayview facility in Baltimore, Maryland

- <https://www.msn.com/en-us/news/us/emergent-s-covid-vaccine-problems-more-extensive-than-previously-known/ar-AAX74J3>

Neighbors complain there are too many coyotes in Huntington Beach

- <https://www.msn.com/en-us/news/us/wildlife-experts-and-residents-disagree-on-how-to-solve-growing-coyote-population/ar-AAX5SNj>

Taking OTC ibuprofen with NSA inhibitor can result in acute kidney injury

- <https://www.msn.com/en-us/health/medical/mixing-ibuprofen-with-common-high-blood-pressure-drugs-may-cause-permanent-kidney-damage/ar-AAX5hs3>
- Paper: <https://www.sciencedirect.com/science/article/abs/pii/S0025556422000232>

Taking ibuprofen or other pain-relieving drugs may make back pain a chronic condition

- <https://news.yahoo.com/common-medications-prolong-back-pain-120406537.html>

Hometown of Rachel Carson and surrounding area emissions and impacts of closed power plant and shut down zinc smelting facility will be replaced by those from ethane cracking plant

- <https://insideclimatenews.org/news/10052022/rachel-carson-pennsylvania-plastics-plant/>

WMO say there is now 50-50 chance that average annual temperature will spike above 1.5-degree Celsius cap outlined by 2015 Paris Agreement – either it will or it won't

- <https://insideclimatenews.org/news/10052022/earth-global-warming-1-5-degrees/>

Central America is still 'recovering' from 1998 Category 5 Hurricane Mitch

- <https://www.americasquarterly.org/article/central-america-is-still-recovering-from-hurricane-mitch/>

Latest financial report on Vogtle Nuclear Power Plant raises total cost to more than \$34B – Georgia Power costs only cover 45.7% - cost overruns far exceed original estimated cost of \$14B

- <https://apnews.com/article/business-environment-united-states-georgia-atlanta-7555f8d73c46f0e5513c15d391409aa3>

More than 100,000 overdose deaths in the US in 2021 – up 15% compared to previous year

- <https://www.msn.com/en-us/news/us/u-s-surpasses-record-100-000-overdose-deaths-in-2021/ar-AAX9nBf>
- <https://www.msn.com/en-us/health/medical/the-pandemic-has-just-poured-fuel-on-the-fire-of-the-overdose-epidemic-said-one-expert/ar-AAX9Pbt>

Cochabamba species leaf beetle – destructive invasive species found at Texas-Mexico Border

- <https://www.msn.com/en-us/news/world/rare-destructive-pest-discovered-for-the-first-time-at-texas-mexico-border/ar-AAX7V02>

OMG! There is a drought so LADWP customers can only water their lawn twice a week – water use in California increased by 15% compared to 2020 – urban use up by 19% to 27%

- <https://www.msn.com/en-us/news/politics/la-moving-to-third-phase-of-emergency-water-conservation-plan/ar-AAX7u8l>
- <https://www.yahoo.com/news/la-plans-impose-twice-weekly-171606513.html>
- <https://www.yahoo.com/news/california-water-rose-19-march-210144777.html>
- <https://www.msn.com/en-us/news/us/drought-concerns-go-unheeded-as-state-s-water-users-continue-rampant-consumption/ar-AAXajJi>

Underwater cleanup at Lake Tahoe removes more than 25,000 pounds of trash & litter

- <https://www.msn.com/en-us/weather/topstories/tahoe-underwater-cleanup-crosses-finish-line/ar-AAX8uuI>

Great Basin National Park including Lehman Caves National Monument celebrates 100 years

- <https://www.msn.com/en-us/travel/tripideas/celebrating-100-years-at-great-basin-nevada-s-only-national-park/ar-AAX9Yhj>

Interpreting the Alaska National Interest Lands Conservation Act – preservation or striking an appropriate balance between environmental interests and economic & social needs

- <https://www.yahoo.com/news/jimmy-carter-says-court-misinterpreted-170652959.html>

Inflation will mean not only high energy costs but also blackouts over the coming summer

- <https://insideclimatenews.org/news/11052022/electricity-bills-blackouts/>

Palo Verde generating station seeking alternative source of cooling water for nuclear plant

- <https://ucononline.com/news/2022/may/arizona-nuclear-plant-seeking-alternative-source-of-water>

Creating jobs through conservation in Montana – even better than the CCC

- <https://www.farmers.gov/blog/creating-jobs-through-conservation-in-southwest-montana>

Will California heed good advice prior to spending beaucoup dollars on water infrastructure?

- <https://www.kvpr.org/environment/2022-05-11/study-warns-of-potential-inequities-from-water-infrastructure-investments>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021EF002573>

TVA contemplating switching coal fired power plants to natural gas

- <https://apnews.com/article/climate-biden-technology-pollution-6564c51c596456bb15869dbce2deadd9>

A “sustainable” 11-km highway link in Rotterdam intended to ease congestion, includes tunnel beneath Lage Bergse Bos recreational area – solar lighting – original cost estimate of EUR870M

- <https://redshift.autodesk.com/sustainable-highway/>

- Original Cost Estimate: <https://www.infrappworld.com/news/megaproject-1276-us-1-billion-rotterdam-motorway-ppp-reaches-financial-close>

Natural flood management guide published in the UK

- <https://www.newcivilengineer.com/latest/motts-draws-up-natural-flood-management-guide-12-05-2022/>
- Handbook: <https://www.sepa.org.uk/media/163560/sepa-natural-flood-management-handbook1.pdf>

“Immunity” fades rapidly after second & third booster doses of covid vaccines

- <https://www.msn.com/en-us/health/medical/pfizer-s-covid-vaccine-protection-against-omicron-fades-just-weeks-after-second-and-third-doses-study-finds/ar-AAXeI59>
- <https://www.msn.com/en-us/news/politics/anthony-fauci-at-a-loss-when-asked-about-biden-s-covid-vaccine-claim/ar-AAxfVP9>

Only 29% of global food harvest directly feed people – other uses increasing

- <https://theconversation.com/a-shrinking-fraction-of-the-worlds-major-crops-goes-to-feed-the-hungry-with-more-used-for-nonfood-purposes-181819>
- Paper: <https://www.nature.com/articles/s43016-022-00504-z>

Indigenous people have much to teach us about conservation – Traditional Ecological Knowledge

- <https://theconversation.com/why-the-world-has-a-lot-to-learn-about-conservation-and-trust-from-indigenous-societies-179165>

National Parks rebounding from wildfires

- <https://www.nationalparkstraveler.org/2022/05/comeback-trail>

Proposed Flamingo 640 “glampsite” with music venue & helicopter pad would threaten protected wildlife & corridors & road safety near Yucca Valley – flooding, wildfire risk, high winds & dust

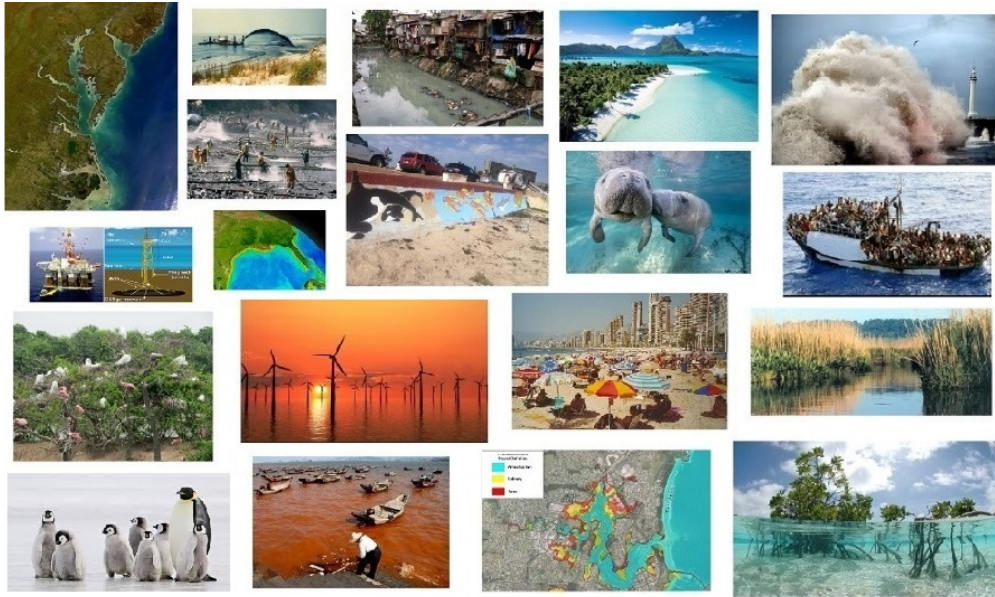
- <https://www.msn.com/en-us/news/us/high-desert-glampsite-near-yucca-valley-would-threaten-wildlife-road-safety/ar-AAxi2Tg>

Report on sustainably managing groundwater in California during prolonged drought – perhaps it is time for regulators to read this report and take heed to manage demand

- <https://rnrf.org/2021/06/report-of-rnrf-round-table-sustainably-managing-californias-groundwater-in-the-midst-of-a-prolonged-drought/>

4 arrested for arson - 30 small fires deliberately set in drought-stricken Contra Costa County

- <https://currently.att.yahoo.com/news/four-arrested-dozens-northern-california-130013703.html>



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US State Department monitoring investigations into deaths at Sandals Emerald Bay Resort

- <https://www.msn.com/en-us/news/us/state-department-closely-monitoring-investigation-into-deaths-of-three-americans-at-bahamas-sandals-resort/ar-AAX31xE>

Potential of using offshore wind turbine bases to grow coral reefs

- <https://www.greenbiz.com/article/orsted-will-try-growing-coral-reefs-base-offshore-wind-turbines>

Beach erosion in Ocean City, New Jersey, during weekend storm

- <https://philadelphia.cbslocal.com/2022/05/09/weekend-storm-leaves-behind-major-beach-erosion-in-ocean-city-new-jersey/>

Another call for nature-based solutions to coastal flooding, including marshland restoration

- <https://coastalreview.org/2022/05/bidens-order-requires-report-on-nature-based-solutions/>

Warnings were issued for high rip current risks in coastal Miami-Dade County

- https://www.islandernews.com/news/miami/weather-alert-high-rip-currents-expected-in-coastal-miami-dade/article_6f80894a-cf7e-11ec-ad25-0f31d4279a97.html
- https://forecast.weather.gov/showsigwx.php?warnzone=FLZ173&warncounty=FLC086&firewxzone=FLZ173&local_place1=Key%20Biscayne%20FL&product1=Rip+Current+Statement&lat=25.6933&lon=-80.1652

Starfish getting stranded along South Carolina coast

- <https://www.msn.com/en-us/weather/topstories/hundreds-of-starfish-have-washed-up-on-south-carolina-beaches/ar-AAX4sAy>

Efforts to save critically endangered estuarine pipefish on east coast of South Africa

- <https://news.mongabay.com/2022/05/saving-the-near-extinct-estuarine-pipefish-means-protecting-estuary-health/>

Citizen science detects vast amounts of micro-plastics in Catalan coastal waters in the Mediterranean

- <https://phys.org/news/2022-05-citizen-science-vast-amount-microplastics.html>

Masts to be removed from WWII ship containing explosives in the Thames Estuary

- <https://www.bbc.com/news/uk-england-london-61370382>

Concern over Lyngbya or “gumbo algae” growing in Sarasota Bay

- <https://www.wtsp.com/article/news/local/manateecounty/green-brown-lyngbya-gumbo-algae-growing-sarasota-bay/67-3bc97d5a-8169-4232-9f38-becaa73121a4>

California lawmakers once again target trash in Tijuana River Valley that impacts coastal areas

- <https://voiceofsandiego.org/2022/05/09/state-lawmakers-target-trash-in-tijuana-river-valley/>

Fauna in Liaodong Bay – video series on Liaohe River Estuary National Nature Reserve

- Part 1 - <https://news.cgtn.com/news/2022-05-07/Fauna-in-Liaodong-Bay-Series-A-red-paradise-19PX4swXNJK/index.html>
- Part 2 - <https://news.cgtn.com/news/2022-05-08/Fauna-in-Liaodong-Bay-Series-Ep-2-Dancers-on-the-red-beach-19RkeBkMsRq/index.html>
- Part 3 - <https://news.cgtn.com/news/2022-05-09/Fauna-in-Liaodong-Bay-Series-Ep-3-Cornucopia-of-the-sea-19T0Kyilcl2/index.html>
- Part 4 - <https://news.cgtn.com/news/2022-05-10/Fauna-in-Liaodong-Bay-Series-Ep-4-Saunders-s-gulls-19UZWcC2LXG/index.html>

Trying to identify best practices to save endangered Pacific Northwest salmon

- <https://www.q13fox.com/news/scientists-are-zeroing-in-on-best-practices-to-save-endangered-pnw-salmon>

HazardAware tool allows quick assessment of true cost to home owners from coastal hazards

- <https://www.ucf.edu/news/new-tool-from-ucf-led-team-shows-homeowners-and-renters-the-true-cost-of-disasters/>
- HazardAware tool: <https://www.hazardaware.org/>

Port of Long Beach hopeful that \$1.5B rail project will facilitate cargo movement

- <https://www.courthousenews.com/port-of-long-beach-goes-big-on-trains-to-relieve-congested-docks/>

\$25M dike restoration being planned while Plymouth, Massachusetts aims to place 35,600 cubic yards of sand and cobble to 2,000-ft stretch of Long Beach barrier island

- <https://www.wickedlocal.com/story/old-colony-memorial/2022/05/10/plymouth-looking-replenish-sand-eroding-town-beach/9678108002/>

Staff of California Coastal Commission recommended denying proposed Poseidon Desalination Plant – subject to flooding, harmful to nearby habitats, seismic risk & higher costs – CCC unanimously rejects the project

- <https://www.yahoo.com/news/california-staff-report-recommends-denial-003053384.html>
- <https://finance.yahoo.com/news/1-california-regulator-rejects-plan-022322650.html>

Battling plastic pollution washing ashore at National Seashores

- <https://www.nationalparkstraveler.org/2022/05/battles-plastics-pollution-washing-ashore-national-seashores>

Storms help replenish beaches – all part of the long-term natural process

- https://www.spacedaily.com/reports/Extreme_storms_could_help_protect_beaches_from_sea_level_rise_new_study_finds_999.html
- Paper: <https://www.nature.com/articles/s43247-022-00437-2>

Future of desalination technologies

- https://www.spacedaily.com/reports/The_future_of_desalination_999.html

3 offshore drilling lease sales were cancelled in Alaska & Gulf of Mexico

- <https://www.msn.com/en-us/news/politics/canceled-lease-sales-raise-new-questions-for-offshore-drilling/ar-AAXhDbf>