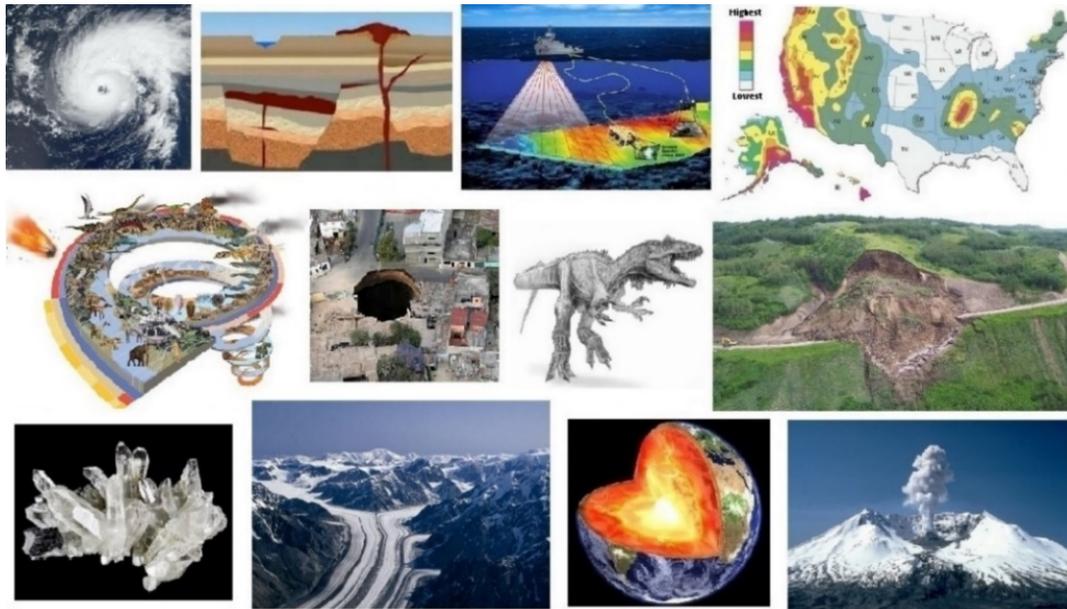


Do you know of a colleague and/or student who would be interested in receiving these Bulletin Boards? Please forward to them. A quick email to [Geosciences-BBoard@att.net](mailto:Geosciences-BBoard@att.net) with the word “subscribe” in the subject line and the email address will be added to the listing.



## **Geoscience Bulletin Board – 10 August 2020 – compiled by Elaine J. Hanford**

100 years of Milanković cycles

- <https://www.nature.com/articles/s41561-020-0621-2>

A use for pyrite

- [https://www.eurekalert.org/pub\\_releases/2020-07/uom-rb072920.php](https://www.eurekalert.org/pub_releases/2020-07/uom-rb072920.php)

Typhoon Hagupit swirls while Nishinoshima volcano erupts

- <https://www.cnet.com/news/see-a-typhoon-swirl-and-a-volcano-erupt-in-same-striking-view-from-space/>

Batagaika Crater is a “megaslump” in Chersky Range in Siberia

- <https://www.grunge.com/232616/inside-siberias-doorway-to-the-underworld/>

Impacts of ice scouring on ecosystems in the Antarctic

- <https://blogs.ei.columbia.edu/2020/08/03/ice-scouring-antarctic-ecosystems/>
- Paper: <https://www.sciencedirect.com/science/article/pii/S0141113620302294>

Yigongxiang – valley blocking debris flow in Tibet – threat of outburst flood

- <https://blogs.agu.org/landslideblog/2020/08/03/yigongxiang-1/>
- <https://arunachaltimes.in/index.php/2020/08/01/threat-of-an-outburst-flood-in-the-siang-need-for-weather-stations-and-info/>

The origins of pallasites – stony-iron meteorites

- <https://www.heritagedaily.com/2020/08/researchers-explain-the-origins-of-stony-iron-meteorites/134520>

Why Earth cooled during the Younger Dryas event from 12.9 to 11.7 thousand years ago

- [https://www.eurekalert.org/pub\\_releases/2020-07/uoh-anc073120.php](https://www.eurekalert.org/pub_releases/2020-07/uoh-anc073120.php)
- Paper: <https://advances.sciencemag.org/content/6/31/eaax8587>

Perspective: P-T extinction was game-changer for Earth

- <https://www.dispatch.com/news/20200802/geology--p-t-extinction-was-game-changer-for-planet>

Abandoned wells in the Central North Sea release significant amounts of methane

- <https://www.sciencedaily.com/releases/2020/07/200730113055.htm>
- Paper: <https://www.sciencedirect.com/science/article/pii/S1750583619306504?via%3Dihub>

Super dense array measurement magnifies seismic wave fields & quantifies uncertainty in probabilistic seismic hazard analysis

- <https://eos.org/editor-highlights/super-dense-array-measurement-magnifies-seismic-wavefields>

Real-time ground motion estimation & ground shaking forecast for large earthquakes

- <https://eos.org/editor-highlights/real-time-ground-motion-estimation-for-large-earthquakes>

NASA GOLD mission revealing affect of upper atmosphere on space weather

- <https://eos.org/editor-highlights/arsenic-pollution-in-bangladesh-is-catching-up-with-deeper-wells>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2020JA027823>

Retrospective: Offshore mapping of the San Andreas Fault

- [https://www.usgs.gov/news/a-research-retrospective-offshore-fault-mapping-san-andreas?qt-news\\_science\\_products=3#qt-news\\_science\\_products](https://www.usgs.gov/news/a-research-retrospective-offshore-fault-mapping-san-andreas?qt-news_science_products=3#qt-news_science_products)

Partial skeletal remains of enantiornithine bird encased in 99 myo amber in northern Myanmar

- <http://www.sci-news.com/paleontology/enantiornithine-bird-wings-feet-amber-08708.html>
- Paper: <https://www.frontiersin.org/articles/10.3389/feart.2020.00264/full>

Paleo-bathymetry over the last 34 million years of the Circum-Antarctic Southern Ocean

- <https://www.sciencedaily.com/releases/2020/08/200804111444.htm>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2020GC009122>

New findings on carbonate melts in the mantle

- <https://phys.org/news/2020-08-geologists-publish-carbonate-earth-mantle.html>
- Paper: <https://www.pnas.org/content/117/31/18285>

Grímsvötn volcano beneath Vatnajökull ice cap in Iceland poised for another eruption

- <https://phys.org/news/2020-08-iceland-volcano-eruption.html>

Q&A – Plate tectonics is fundamental to understanding evolution of Earth – theory in progress

- <https://horizon.scienceblog.com/1374/qa-plate-tectonics-is-fundamental-to-understanding-earths-evolution-but-big-questions-remain/>

Sandstones in Antarctica indicate links to mountain belts and major transitions in global circulation

- <https://www.sciencedaily.com/releases/2020/08/200805102030.htm>

Evidence of plate tectonics occurring 2 billion years ago

- <https://www.courthousenews.com/geologists-find-evidence-of-global-plate-tectonics-2-billion-years-ago/>
- <https://phys.org/news/2020-08-plate-tectonics-global.html>
- Paper: <https://advances.sciencemag.org/content/6/32/eabc5491>

Explosion in Beirut generated seismic waves equivalent to M3.3 EQ – blast heard in Cyprus

- <https://armenpress.am/eng/news/1024121.html>
- Images: <https://us.cnn.com/2020/08/05/world/satellite-images-beirut-explosion-before-after-trnd/index.html>

California geothermal brines contain lithium necessary for batteries in “green” revolution

- <https://newscenter.lbl.gov/2020/08/05/geothermal-brines-could-propel-californias-green-economy/>

In Memoriam: J. Casey Moore (1945-2020) – pioneered multi-disciplinary studies of subduction zones

- <https://eos.org/articles/j-casey-moore-1945-2020>

In Memoriam: Eugene Peter “Ticket” Meyers (1929-2020) – mining geologist

- <https://bonnercountydailybee.com/news/2020/aug/05/eugene-peter-ticket-meyers-90-7/>

In Memoriam: William W. Haible (1946-2020) – hydrographic mapping, stream morphology, consulting

- <https://knox.villagesoup.com/p/william-w-haible/1866192>

IP survey identifies 5 drill targets at Twin Hills Gold Project in Namibia

- <https://www.globenewswire.com/news-release/2020/08/05/2073173/0/en/Osino-Resources-Completes-IP-Survey-Identifying-Five-New-Drill-Ready-Targets-and-Substantially-Increases-2020-Drill-Program-at-Twin-Hills-Gold-Project-Namibia.html>

Geological Survey Ireland celebrates 175 years

- <https://www.gov.ie/en/press-release/834bd-from-pencil-and-paper-to-drones-and-satellites-geological-survey-ireland-celebrates-its-175th-birthday/>

Touring the geology of the Bronx – bedrock, fluvial systems, glacial deposits, groundwater

- <https://www.nytimes.com/2020/08/05/arts/design/bronx-virtual-tour.html>

CRS InFocus Report: Wildfire Statistics – through 2019

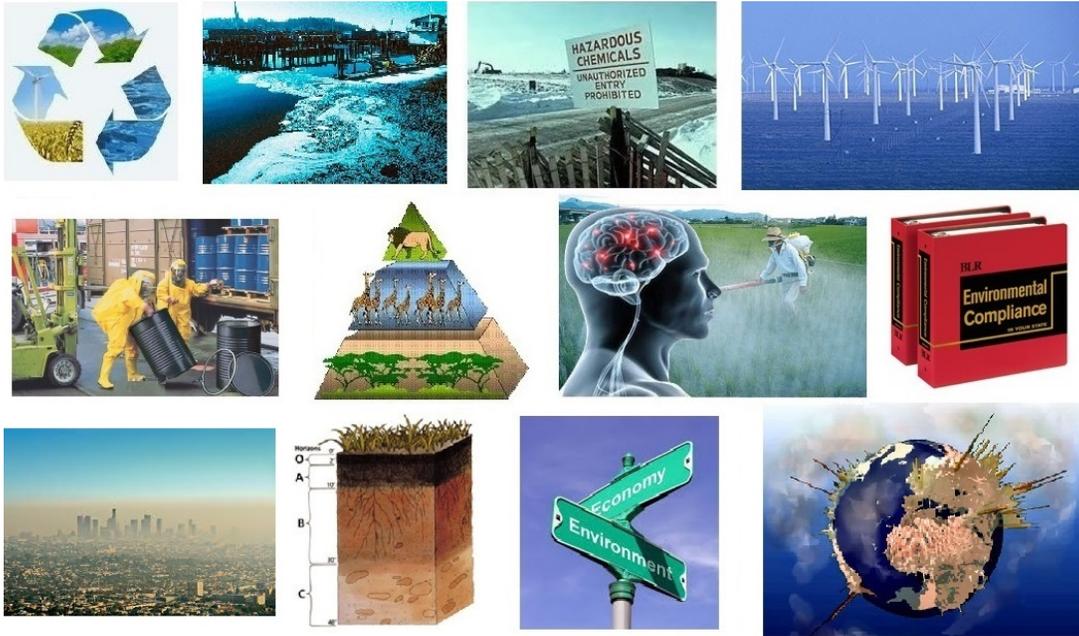
- <https://crsreports.congress.gov/product/pdf/IF/IF10244>

Book Review: *Earthquake Engineering for Concrete Dams – Analysis, Design & Evaluation*

<https://www.waterpowermagazine.com/news/newsnew-publication-focuses-on-earthquake-engineering-for-dams-8066008>

- <https://onlinelibrary.wiley.com/doi/book/10.1002/9781119056102>

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## **Environmental Science Bulletin Board – 10 August 2020 – compiled by Elaine J. Hanford**

Update - Technological hazard: train derailed in Tempe, Arizona – cause of collapse

- <https://asunow.asu.edu/20200730-solutions-asu-engineer-bridge-infrastructure-outdated>
- <https://www.yahoo.com/news/arizona-train-derailment-causes-bridge-160341333.html>
- <https://www.abc15.com/news/region-southeast-valley/tempe/train-fire-prompts-huge-emergency-response-in-tempe>
- [https://www.azfamily.com/news/train-derailment-massive-fire-on-bridge-over-tempe-town-lake/article\\_ce292ef0-d19e-11ea-a57f-7bc720db639f.html](https://www.azfamily.com/news/train-derailment-massive-fire-on-bridge-over-tempe-town-lake/article_ce292ef0-d19e-11ea-a57f-7bc720db639f.html)

California governor asks Warren Buffett to back \$450M Klamath River project to remove his 4 dams

- <https://apnews.com/4faa7ca064b6594e0d332ca4beca926c>

Could wind energy become a hot commodity in Florida?

- <https://news.fsu.edu/news/science-technology/2020/07/30/fsu-engineering-researchers-harness-wind-data-to-help-meet-energy-needs-in-florida/>

House examines FEMA disaster response policies – consider compound threat scenarios

- <https://www.ttnews.com/articles/house-lawmakers-examine-femas-disaster-response-policies>

Salmonella outbreak linked to red onions

- <https://www.msn.com/en-us/health/health-news/red-onions-linked-to-salmonella-outbreak-that-has-sickened-people-in-31-states/ar-BB17rMTT>

Amazing travel routes across America – in the footsteps of Lewis & Clark

- <https://www.yahoo.com/lifestyle/america-greatest-road-trip-route-100609561.html>

*Gammarus duebeni* – tiny freshwater amphipod breaks micro-plastics down into nano-plastics

- <https://currently.att.yahoo.com/att/microplastics-tiny-crustaceans-fragment-them-150600936.html>
- Paper: <https://www.nature.com/articles/s41598-020-69635-2>

LA River AR Platform view of Los Angeles River historical beauty not the concrete lined channel

- <https://www.yahoo.com/lifestyle/why-communities-along-the-la-river-considered-the-original-source-of-life-are-threatened-amid-the-coronavirus-pandemic-160042733.html>

CRS Insight Report: The Nile Dam Dispute

- <https://crsreports.congress.gov/product/pdf/IN/IN11471>

New Genoa, Italy, bridge inaugurated two years after bridge collapse killed 43

- <https://www.dw.com/en/italy-genoa-new-bridge/a-54409986>

Hinkley Point nuclear power plant in Britain is now 38% complete

- <https://www.bnnbloomberg.ca/a-look-inside-britain-s-biggest-construction-site-1.1474068>

Real world laboratory – study Tropical Storm Isaias wind impacts on Satellite Beach House

- <https://www.floridatoday.com/story/news/2020/08/02/florida-tech-study-how-tropical-storm-isaias-winds-impact-satellite-beach-house/5567206002/>

Pilot project to test use of recycled plastic bottles in road pavement

- <https://www.nbcbayarea.com/news/california/plastic-bottles-used-in-northern-california-highway-repaving-project/2336300/>

135-year-old Stanley M. Levine Reservoir to be replaced with concrete water tanks in New Jersey - \$26M

- <https://www.nj.cotom/passaic-county/2020/07/historic-nj-reservoir-to-be-replaced-with-huge-concrete-water-tanks.html>
- <https://www.northjersey.com/story/news/passaic/2020/07/28/epa-oks-26-million-replacement-passaic-valley-reservoir-paterson-nj/5518889002/>

Otters are not only very social – they also build rafts

- <https://www.hindustantimes.com/it-s-viral/sea-otters-form-a-raft-and-float-in-water-video-is-amazing/story-iYT0y1dZAHrJzbbHhY206L.html>

Seeds in packets from China have been identified – “brushing scam” – DO NOT plant

- <https://www.yahoo.com/news/mysterious-seeds-sent-china-us-151105272.html>

Dried up lakes & environmental destruction from decades of unsustainable water use in Iran

- <https://theconversation.com/iran-decades-of-unsustainable-water-use-has-dried-up-lakes-and-caused-environmental-destruction-140565>
- Paper: <https://www.nature.com/articles/s41598-020-64089-y>

Human activity & “outdoor” cats share responsibility for decline in wildlife

- <https://theconversation.com/dont-blame-cats-for-destroying-wildlife-shaky-logic-is-leading-to-moral-panic-138710>

- Paper: <https://conbio.onlinelibrary.wiley.com/doi/full/10.1111/cobi.13346>

Great American Outdoors Act signed into law – provides \$\$\$M for Land & Water Conservation Fund

- <https://www.msn.com/en-us/news/politics/trump-signs-major-conservation-bill-into-law/ar-BB17yBk5?ocid=anaheim-ntp-feeds>

Wildfires can lead to contamination of drinking water supplies

- <https://theconversation.com/wildfires-can-poison-drinking-water-heres-how-communities-can-be-better-prepared-141430>
- Paper: <https://awwa.onlinelibrary.wiley.com/doi/full/10.1002/aws2.1183>

Finding right-of-way is greater challenge than funding of high-speed bullet trains across the US

- <https://www.governing.com/community/High-Speed-Rails-True-Barrier-Isnt-Money-Its-Space.html>

\$9.4M Flood mitigation project completed in Ann Arbor, Michigan – now want change in floodplain map

- <https://www.mlive.com/news/ann-arbor/2020/07/biggest-flood-mitigation-project-in-ann-arbor-history-now-complete.html>

New framework for characterizing snow droughts

- <https://news.uci.edu/2020/08/03/uci-engineers-evaluate-snow-drought-in-different-parts-of-the-world/>

Arsenic pollution in deeper drinking water wells in Bangladesh

- <https://eos.org/editor-highlights/arsenic-pollution-in-bangladesh-is-catching-up-with-deeper-wells>

Seeking funds for new I-5 Bridge replacement project across the Columbia River – failed in 2013

- <https://www.columbian.com/news/2020/aug/03/herrera-beutler-vows-to-seek-funds-from-federal-gas-tax-for-i-5-bridge/>

Increased global mortality linked to arsenic exposure in rice-based diets

- <https://phys.org/news/2020-08-global-mortality-linked-arsenic-exposure.html>
- Paper: <https://www.sciencedirect.com/science/article/pii/S0048969720340560?via%3Dihub>

Estimated 800M children worldwide have elevated blood lead levels

- <https://www.npr.org/sections/goatsandsoda/2020/07/29/896888484/silent-epidemic-nearly-1-in-3-kids-exposed-to-damaging-levels-of-lead>
- Report: <https://www.unicef.org/sites/default/files/2020-07/The-toxic-truth-children%E2%80%99s-exposure-to-lead-pollution-2020.pdf>

More than 5,000 Burmese pythons removed from Florida wilds – Python Challenge

- <https://www.nationalparkstraveler.org/2020/08/5000-pythons-reportedly-removed-everglades-ecosystem>

Concerns that Border Wall to protect national security may damage Quitobaquito Springs at Organ Pipe

- <https://www.nationalparkstraveler.org/2020/08/concerns-voiced-border-wall-construction-damaging-quitobaquito-springs-organ-pipe>

Healthy Pregnancy Guide issued by Plastic Pollution Coalition – reduce exposure to chemicals

- <https://www.plasticpollutioncoalition.org/healthypregnancyguide>

New models needed to more accurately reflect carbon storage processes in soil – functional complexity

- [https://www.spacedaily.com/reports/New\\_soil\\_models\\_may\\_ease\\_atmospheric\\_CO2\\_climate\\_change\\_999.html](https://www.spacedaily.com/reports/New_soil_models_may_ease_atmospheric_CO2_climate_change_999.html)

100s of homes destroyed or flooded due to Bout Dam collapsed following heavy rain in Sudan

- <https://www.voanews.com/africa/heavy-rains-and-floods-destroy-houses-dam-kill-5-sudan>
- Video: <https://borkena.com/2020/08/03/sudanese-dam-collapsed-due-to-flooding-in-blue-nile-province/>

Man who killed mountain gorilla in Bwindi Impenetrable National Park sentenced to 11 years in prison

- [https://www.terradaily.com/reports/Uganda\\_court\\_jails\\_killer\\_of\\_mountain\\_gorilla\\_for\\_11\\_years\\_999.html](https://www.terradaily.com/reports/Uganda_court_jails_killer_of_mountain_gorilla_for_11_years_999.html)

Anthrax (endemic to parts of Texas) confirmed in cow in Briscoe County- area quarantined

- [https://www.tahc.texas.gov/news/2020/2020-08-04\\_Anthrax.pdf](https://www.tahc.texas.gov/news/2020/2020-08-04_Anthrax.pdf)

Germany to ban floodlights at night to protect insects

- <https://bluewaterhealthyliving.com/germany-plans-to-dim-lights-at-night-to-save-insects/>

Tracking & forecasting risk of diseases (dengue, Zika, et al) transmitted by Aedes mosquito

- <https://phys.org/news/2020-08-tracking-outbreak-dengue-zika-aedes-transmitted.html>
- Paper: <https://www.nature.com/articles/s41598-020-69625-4>

Wildlife corridor plan in Virginia

- <https://www.virginiamercury.com/2020/08/04/with-wildlife-corridor-plan-virginia-officials-hope-to-reduce-highway-collisions-with-animals/>
- WCAP: <https://lis.virginia.gov/cgi-bin/legp604.exe?201+sum+SB1004>

Perspective: Visit to a “green cemetery” in California & question American funerals – not a new method

- <https://www.businessinsider.com/green-cemetery-california-visit-burials-practices-prices-fernwood-2020-8>

Dingoes have increased in average size by 6 to 9% over past 8 decades where poison-baits were used

- <https://www.sciencedaily.com/releases/2020/08/200803105230.htm>

Humans have altered ecosystems in North America with greater impact than melting glaciers

- <https://www.sciencemag.org/news/2020/08/humans-have-altered-north-america-s-ecosystems-more-melting-glaciers>

Beetles survive being eaten and excreted by frogs – come out the other end alive & well

- <https://www.sciencenews.org/article/water-beetle-frog-eaten-alive-escape-death-butt-excretion>

Herbivores at greatest risk of extinction

- <https://www.yahoo.com/news/not-easy-eating-green-herbivores-182327790.html>
- Paper: <https://advances.sciencemag.org/content/advances/6/32/eabb8458.full.pdf>

## 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/>

Herd immunity should not be considered taboo

- <https://www.yahoo.com/news/herd-immunity-long-term-solution-160456041.html>
- Paper: <https://reader.elsevier.com/reader/sd/pii/S2666535220300306?token=B3F88D846E27907CC04ED5D68D752CB0315BCA0F59B48EBEC70E184F9378930ABFBD06418BBB1D481C7B43A40D73B2F2>

Parents with children forced to school at home are drinking more

- <https://theconversation.com/parents-with-children-forced-to-do-school-at-home-are-drinking-more-143164>

Invasive fish from Groenvlei Lake provide food source during lockdown in South Africa

- [https://www.spacedaily.com/reports/Carpe\\_diem\\_Invasive\\_fish\\_feeds\\_hungry\\_in\\_South\\_Africa\\_lockdown\\_999.html](https://www.spacedaily.com/reports/Carpe_diem_Invasive_fish_feeds_hungry_in_South_Africa_lockdown_999.html)

Closing schools around the globe could cause “generational catastrophe”

- <https://www.msn.com/en-us/news/world/closing-schools-around-the-world-could-cause-a-generational-catastrophe-u-n-secretary-general-warns/ar-BB17ySQp>



## Coastal Zone Management Bulletin Board – 10 August 2020 – compiled by Elaine J. Hanford

The California Coastal Commission – major provisions of the CCA of 1976

- <https://californiaglobe.com/section-2/the-california-coastal-commission/>

Lake Superior coastal program – erosion outreach, protection structure assessment & watersheds

- <https://www.montenews.com/news/20200801/minnesota-dnr-awarded-federal-noaa-grant-for-lake-superior-coastal-program>

Oysters stolen from ocean filtration project of Maui Nui Marine Resource Council are not healthy to eat

- <https://www.mauinews.com/news/local-news/2020/07/stolen-research-oysters-are-not-healthy-to-eat/>

National Audubon Society filed lawsuit on reversal of sand mining rule

- <https://www.coastalreview.org/2020/07/audubon-challenges-cbra-sand-mining-rule/>

Shark sightings put coastal waters around Harpswell put Maine Marine Patrol on alert

- <https://www.pressherald.com/2020/07/29/coastal-patrols-continue-after-maines-first-fatal-shark-attack/>

Keel laid down for new icebreaker for Russian Coast Guard

- <https://www.navalnews.com/naval-news/2020/08/vyborg-shipyard-lays-keel-of-project-23550-icebreaker-for-russian-coast-guard/>

Searching for lost Algonquian villages on Pamlico Sound – devastated by illness following visit by Sir Richard Grenville 1585 expedition – “burnt and spoyled their corne, and Towne”

- Part 3: <https://www.coastalreview.org/2020/07/lost-history-search-for-village-abandoned/>
- Part 2 Mapping: <https://www.coastalreview.org/2020/07/mapping-pamlico-sound-the-secotan-site/>
- Part 1 Circumnavigation: <https://www.coastalreview.org/2020/07/crossing-the-threshold-of-history/>

Artificial light impacts up to 76% of coastal seafloor at night

- <https://www.iflscience.com/environment/threequarters-of-seafloor-near-coastal-cities-exposed-to-harmful-light-pollution-study-finds/>
- Paper: <https://www.nature.com/articles/s41598-020-69461-6>

Louisiana & US Army COE agree to deepen channel to 50 ft from Gulf of Mexico to Baton Rouge

- <https://apnews.com/691647873fd2b8c78af6e30d77d7d6fe>

CRM Council rejects plan for kelp farm off Napatree Point in southern New England

- [https://www.thewesterlysun.com/news/westerly/coastal-resources-management-council-rejects-plan-for-kelp-farm-off-napatree-point/article\\_08c02a80-d5a7-11ea-9e2d-73cd30fec157.html](https://www.thewesterlysun.com/news/westerly/coastal-resources-management-council-rejects-plan-for-kelp-farm-off-napatree-point/article_08c02a80-d5a7-11ea-9e2d-73cd30fec157.html)

Minnesota DNR awarded \$1.1M to protect coastal resources

- [https://www.southernminn.com/faribault\\_daily\\_news/community/article\\_4de6614f-78dd-5893-b49f-ce26f99176ee.html](https://www.southernminn.com/faribault_daily_news/community/article_4de6614f-78dd-5893-b49f-ce26f99176ee.html)

Atlantic White Shark Conservancy “Sharktivity” App helps alert beach-goers to risks

- <https://www.capecod.com/newscenter/sharktivity-app-lets-beach-goers-keep-tabs-on-coastal-sharks/>

“Dead Zone” in Gulf of Mexico reduced in size due to mixing caused by tropical weather

- <https://phys.org/news/2020-08-gulf-mexico-dead-zone-smaller.html>
- Hypoxia Task Force: <https://www.epa.gov/ms-htf>
- 2020 Forecast: <https://www.epa.gov/ms-htf/northern-gulf-mexico-hypoxic-zone>

Satellite-based data used to detect portions of San Diego, Los Angeles, Santa Cruz & San Francisco, California, that are subsiding

- <https://www.sciencedaily.com/releases/2020/07/200731145143.htm>
- Paper: <https://advances.sciencemag.org/content/6/31/eaba4551>

Massive explosion in Beirut leaves huge crater at port – before & after images

- <https://us.cnn.com/2020/08/05/world/satellite-images-beirut-explosion-before-after-trnd/index.html>

Dolphins & whales stranded along SE US coast have high levels of toxic chemicals - bioaccumulation

- <https://www.msn.com/en-us/news/us/dolphins-and-whales-are-being-poisoned-by-toxic-chemicals/ar-BB17BluT>
- Paper: <https://www.frontiersin.org/articles/10.3389/fmars.2020.00630/full>

NOAA report suggests deeper ports would mean greater economic activity

- <https://www.washingtontimes.com/news/2020/aug/5/one-simple-change-improve-americas-ports/>

Model suggests future coastal flooding could disrupt commuting in Bay Area

- <https://news.stanford.edu/2020/08/05/bay-area-coastal-flooding-triggers-regionwide-commute-disruptions/>

\$40M grant to develop inland port facility at Cairo, Illinois

- <https://www.marinelog.com/coastal/inland/illinois-awards-40-million-grant-to-cairo-port-project/>

New FEMA flood maps for Charleston, South Carolina, in 2021

- [https://www.postandcourier.com/hurricanewire/charleston-will-finally-have-new-fema-flood-maps-in-2021/article\\_9a4c5a84-d7e4-11ea-b11e-2364a8dd57c3.html](https://www.postandcourier.com/hurricanewire/charleston-will-finally-have-new-fema-flood-maps-in-2021/article_9a4c5a84-d7e4-11ea-b11e-2364a8dd57c3.html)

Oil spill from grounded Japanese bulk oil tanker threatens endangered wildlife in Mauritius

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