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Geoscience Bulletin Board – 25 May 2020 – compiled by Elaine J. Hanford

Edenville Dam collapse in Michigan

- <https://blogs.agu.org/landslideblog/2020/05/20/edenville-dam-1/>

M6.5M Monte Cristo Range EQ near Tonopah, Nevada - local damage – road closure - aftershocks – video

- <https://www.usgs.gov/news/m65-monte-cristo-range-earthquake>
- <https://earthquake.usgs.gov/earthquakes/eventpage/nn00725272/executive>
- <https://www.accuweather.com/en/videos/road-closed-in-nevada-after-sustaining-earthquake-damage/7CGPsEMF>
- <https://watchers.news/2020/05/15/nevada-earthquake-may-15-2020/>
- <https://www.reviewjournal.com/local/250-aftershocks-follow-friday-earthquake-near-tonopah-2029556/>

Perspective: The real climate science deniers

- <https://townhall.com/columnists/pauldriessen/2020/05/16/the-real-climate-science-deniers-n2568909>

Revisiting the 1980 eruption of Mount St Helens & 40 years of change

- <https://www.cbsnews.com/news/revisiting-the-1980-eruption-of-mount-st-helens/>
- <https://www.psychologytoday.com/gb/blog/disaster-choice/202005/mount-st-helens-40-years-later>
- <https://www.latimes.com/world-nation/story/2020-05-17/mount-st-helens-40th-eruption>
- Photos: <https://www.msn.com/en-us/news/us/photos-show-mount-st-helens-historic-eruption-cars-sunk-in-volcanic-ash-people-wearing-masks/ar-BB14frmu>
- <https://www.sciencemag.org/news/2020/05/ecologist-has-been-studying-mount-st-helens-it-erupted-40-years-ago>

1906 EQ was act of God – 1906 EQ disaster was act of man including dynamite to “stop the fire”

- <https://www.grunge.com/210885/the-1906-san-francisco-earthquake-was-worse-than-you-thought/>

Unstable slope above leading edge of retreating Barry Glacier could cause catastrophic tsunami in Harriman Fjord

- <https://www.foxnews.com/science/alaska-landslide-could-cause-enormous-tsunami-scientists-warn>
- Open letter:
http://dggs.alaska.gov/hazards/download/Barry_Arm_Landslide_Working_Group_2020_05_14.pdf

Chromium speciation in marine carbonates & implications for paleo-redox conditions

- https://www.eurekalert.org/pub_releases/2020-05/scp-csi051520.php
- Link to pdf paper: <https://academic.oup.com/nsr/advance-article/doi/10.1093/nsr/nwaa090/5834567>

Radiocarbon dating for paleo-tsunami deposits in Pangani – same age as other Indian Ocean locales

- <https://phys.org/news/2020-05-1000yearold-tsunami-indian-ocean-greater.html>

Multibeam bathymetric & seismic reflection data suggest new plate boundary in northern Indian Ocean – India-Australia-Capricorn plate

- <https://eos.org/articles/a-plate-boundary-emerges-between-india-and-australia>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020GL087362>

Improved understanding of flow-driven sediment transport in eolian & fluvial environments

- <https://eos.org/editors-vox/from-blowing-wind-to-running-water-unifying-sediment-transport>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019RG000679>

New conceptual framework for convection in the tropics

- <https://eos.org/editor-highlights/how-does-convection-work-over-the-tropics>

Toward a better global understanding of the water cycle – given extent of human disturbance

- <https://eos.org/research-spotlights/how-much-modification-can-earths-water-cycle-handle>

Satellite data over 16-year interval suggest 14 mm change in sea levels related to ice-mass change

- <https://eos.org/articles/shrinking-ice-sheets-lifted-global-sea-level-14-millimeters>
- Paper: <https://science.sciencemag.org/content/early/2020/04/29/science.aaz5845>

Sea spray is loaded with micro-plastics

- <https://www.treehugger.com/plastic/sea-spray-full-microplastics-study-finds.html>
- Paper: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0232746>

4.9M mine quake in northern Sweden near Kiruna due to activity in largest iron ore mine

- <https://www.thelocal.se/20200518/record-earthquake-hits-mine-in-northern-sweden-kiruna>
- <https://earthquake.usgs.gov/earthquakes/eventpage/us70009ja2/executive>

Billion-year-old rifting events set stage for Laurentian Great Lakes

- <https://eos.org/articles/long-live-the-laurentian-great-lakes>

Using “halos” of mineralized groundwater to find ore deposits

- <https://phys.org/news/2020-05-groundwater-reveals-reserves-valuable-minerals.html>
- Case Study: <https://warmelpdstageodocspub.blob.core.windows.net/mriwa-reports/c2832360-2887-4a73-800d-ca04e4a1761d.pdf>

Separating industrial noise of natural seismic signals

- <https://phys.org/news/2020-05-technique-industrial-noise-natural-seismic.html>

Titanichthys – Devonian giant placoderm (armored fish) was suspension feeder

- <http://www.sci-news.com/paleontology/titanichthys-suspension-feeder-08447.html>
- Paper: <https://royalsocietypublishing.org/doi/10.1098/rsos.200272>

Elaphrosaurine – Cretaceous theropod dinosaur fossil vertebra found in Australia

- <http://www.sci-news.com/paleontology/elaphrosaur-australia-08440.html>

First footprints on Mars could belong to geologist & NASA astronaut Jessica Watkins

- <https://www.nature.com/articles/d41586-020-01473-8>

Geologic samples need to be archived and shared

- https://www.washingtonpost.com/science/rock-samples-arent-archived-or-shared-they-need-to-be-geologists-warn-pointing-to-a-reproducibility-crisis/2020/05/15/aa858e06-953c-11ea-91d7-cf4423d47683_story.html

Geology offers deep-time perspective on climate

- <https://around.uoregon.edu/content/geology-study-offers-deep-time-perspective-climate>

Scientists attempt to mimic conditions on Hadean Earth

- <https://massivesci.com/articles/hydrothermal-vent-reactor-geology-mars-europa/>
- https://www.jpl.nasa.gov/news/news.php?feature=7640&fbclid=IwAR0okla68vx7-LVvF-DGKduqzSAeOYfGsQ_gibTa7aQoE4MIQ8pbWLu2NRg

Digging up remains of 33-foot long mega-raptor in Argentina (video)

- <https://www.msn.com/en-us/news/technology/paleontologists-uncover-remains-of-a-33-foot-long-megaraptor-that-lived-70-million-years-ago-and-would-have-been-one-of-the-last-carnivorous-dinosaurs-to-roam-the-earth/ar-BB14n92h>

Four new species of deep-sea scale worms

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=300599&org=GEO&from=news
- Paper: <https://zookeys.pensoft.net/article/48532/>

Glacial erosion may make peaks pointier and taller by allowing crust to float higher on mantle

- <https://eos.org/articles/cold-cuts-glaciers-sculpt-steep-peaks>

Eastern Highlands of Victoria, Australia, steadily growing at rate of 76 m per million years

- <https://pursuit.unimelb.edu.au/articles/australia-s-mountains-are-still-growing>

Submarine archeology in the North & Baltic Seas – endangered cultural heritage

- <https://phys.org/news/2020-05-endangered-cultural-heritage-seafloor-underwater.html>
- Paper: https://www.leopoldina.org/uploads/tx_leopublication/2019_Diskussionspapier_Spuren_unter_Wasser_EN.pdf

Beginner's interactive guide to oceanography – tectonics, ice ages, circulation, history...

- <https://divediscover.whoi.edu/deeper-discovery/>

SE flank of Mount Etna sliding at rate of several centimeters per year – slow gravitational collapse

- <https://nationalinterest.org/blog/reboot/europes-most-active-volcano-sliding-sea-157251>
- Paper: <https://advances.sciencemag.org/content/4/10/eaat9700>

Explanation for those fuzzy green “glacier mice” were found atop Hrutarjokull Glacier & Root Glacier

- <https://www.grunge.com/211915/the-bizarre-truth-of-fuzzy-green-glacier-mice/>
- <https://www.nepr.net/post/herd-fuzzy-green-glacier-mice-baffles-scientists#stream/0>

Underwater “benthic tornado” crosses the sea floor

- <https://www.cnet.com/news/see-a-wild-underwater-benthic-tornado-whirl-across-the-sea-floor/>
- Full video: https://www.youtube.com/watch?v=_llygMaW6B4

Update on expedition to the Clarion-Clipperton Zone (CCZ) – polymetallic nodules on abyssal plain

- <https://phys.org/news/2020-05-journey-uncover-mysteries-pacific-ocean.html>

Gairloch “quake” reports likely due to quarry blast

- <https://www.ross-shirejournal.co.uk/news/gairloch-tremors-believed-to-have-been-caused-by-quarry-blast-200686/>

Paper: Continuous monitoring of suspended sediment concentrations in channels/rivers

- <https://www.nature.com/articles/s41598-020-64707-9>

Long-term monitoring of groundwater in McMurdo Dry Valleys in Antarctica – changes noted

- <https://massivesci.com/articles/antarctica-dry-valley-melting-ozone-water-climate-change-science-friday/>

Legacy of deep-sea mining – long-lasting impacts on benthic life

- <https://eos.org/articles/the-long-lasting-legacy-of-deep-sea-mining>



Environmental Science Bulletin Board – 25 May 2020 – compiled by Elaine J. Hanford

Edenville & Sanford dams fail in Michigan - thousands ordered to evacuate – license was revoked

- Video: <https://apnews.com/872186b0b79e45bd303a2113ad88e85c>
- <https://www.msn.com/en-us/news/us/feds-revoked-failed-edenville-dams-license-in-2018-over-inability-to-handle-big-floods/ar-BB14mcgv>
- <https://www.msn.com/en-us/news/us/michigan-governor-orders-thousands-to-evacuate-after-2-dams-failed-saying-one-city-could-be-under-9-feet-of-water/ar-BB14Yro>

California running out of “cheap water” – overdraft, stream depletion & imports will no longer work to meet ever increasing demand

- <https://phys.org/news/2020-05-sustain-californians.html>
- Paper: <https://ascelibrary.org/doi/10.1061/%28ASCE%29EE.1943-7870.0001715>

BLM says will take 2 decades & \$1B+ over first six years to slash wild horse populations to “sustainable levels” to protect US rangeland – mass roundup & warehousing – need humane program

- Report: https://drive.google.com/file/d/1P8oCB7HaHo1AvUSYmy7LulNhyQXL_B83/view
- <https://finance.yahoo.com/news/agency-cites-staggering-cost-reining-051614807.html>
- <https://americanwildhorsecampaign.org/media/new-blm-report-outlines-destruction-wild-horses-and-burros>
- <https://returntofreedom.org/congress-demanded-a-coherent-wild-horse-management-plan-blm-hasnt-produced-one/>
- <https://wildhorseeducation.org/2018/04/27/blm-report-to-congress/>
- <https://wildhorseeducation.org/2020/05/12/blm-report-is-out-national-embarrassment/>
- <https://blog.humanesociety.org/2020/05/blm-report-to-congress-on-wild-horses-and-burros-falls-short-on-fertility-control.html>

1906 EQ was act of God – 1906 EQ disaster was act of man including dynamite to “stop the fire”

- <https://www.grunge.com/210885/the-1906-san-francisco-earthquake-was-worse-than-you-thought/>

Property rights are crucial to protecting the environment – to protect against tragedy of the commons

- <https://www.yahoo.com/news/property-rights-crucial-protecting-environment-103010481.html>

Hippos in Colombia – imported from Africa by drug cartel in 1980s – reproducing in large numbers – dung contaminates rivers – anoxia & algae blooms

- <https://www.msn.com/en-us/news/world/drug-kingpin-pablo-escobars-hippos-causing-trouble-in-colombia/ar-BB14aWcV>

Perspective: The real climate science deniers

- <https://townhall.com/columnists/pauldriessen/2020/05/16/the-real-climate-science-deniers-n2568909>

US Air Force reports no damage at Nellis training complex or Tonopah Test Range from 6.5M Monte Cristo Range earthquake

- <https://www.airforcemag.com/no-damage-reported-after-tonopah-earthquake/>

New report on Managed Aquifer Recharge

- <https://www.iwr.usace.army.mil/Media/News-Stories/Article/2187304/new-usace-report-managed-aquifer-recharge-mar-and-the-us-army-corps-of-engineer/#.Xr7pKG3AoG4.twitter>
- Download Report link: <https://www.iwrlibrary.us/#/document/16a468f6-1f43-46a4-b546-141594d30cde>

Solar & wind energy projects need to pay fair share – rent on US federal land

- <https://www.yahoo.com/news/trump-admin-slaps-solar-wind-050634864.html>

Significant drug bust in Myanmar included crystal meth, weapons & ammunition & barrels of chemicals

- <https://www.reuters.com/article/us-myanmar-drugs-exclusive/exclusive-huge-fentanyl-haul-seized-in-asias-biggest-ever-drugs-bust-idUSKBN22U0Q8>
- <https://www.cnn.com/2020/05/18/asia/myanmar-drug-bust-intl-hnk/index.html>

“Matewan Massacre” occurred a century ago – battle for workers rights in Appalachian coal fields

- <https://www.msn.com/en-us/news/us/matewan-massacre-a-century-ago-embodied-miners-struggles/ar-BB14fyqh>

Mexico reverses position on renewable energy – justification for new rules – extra-legal powers to FEC

- <https://apnews.com/d8f63e221feebe96039dc0a39a010e8d>
- 2018: <https://www.renewableenergyworld.com/2018/04/12/mexico-reform-and-renewables-2/#gref>
- Jan 2020: <https://www.forbes.com/sites/nathanielparishflannery/2020/01/23/political-risk-analysis-whats-ahead-for-mexicos-renewable-energy-industry/#431e2901194f>

Cattle Fever ticks spreading in south Texas

- https://www.tahc.texas.gov/news/2020/2020-05-15_FeverTicksSpread.pdf

Horses not only know their humans but can identify their photos

- <https://www.treehugger.com/animals/horses-can-identify-and-remember-their-humans.html>

- Paper: <https://www.nature.com/articles/s41598-020-62940-w#Sec9>

Best to keep your pet cat indoors – healthier cat & much less predation of wildlife

- <https://www.treehugger.com/animals/keep-your-cat-indoors-scientists-plead.html>

Potential for West Seattle Bridge to collapse – would lead to demolition

- <https://www.seattletimes.com/seattle-news/transportation/west-seattle-bridge-report-explains-how-a-partial-collapse-would-lead-to-demolition/>

Record rainfall (3.11 inches) prompts reversal of Chicago River to ease flooding

- <https://news.wttw.com/2020/05/18/record-rainfall-prompts-reversal-chicago-river-lake-ease-flooding>
- <https://www.chicagotribune.com/weather/ct-rescue-flooding-chicago-rain-power-out-20200518-zr7xvccykfdotkhqk7ghaizz7q-story.html>

The importance of parks recognized by Frederick Law Olmsted in the 19th century

- <https://theconversation.com/parks-matter-more-than-ever-during-a-time-of-sickness-something-frederick-law-olmsted-understood-in-the-19th-century-137882>

Crisis communications plan is essential to planning

- <https://www.porkbusiness.com/article/communication-strategy-critical-part-crisis-planning>

Linking human and animal health – “using humans as sentinels of animal diseases”

- <https://undark.org/2020/05/18/human-animal-medicine-pandemic/>

Micro-plastics now found in terrestrial & aquatic birds of prey in Florida

- <https://phys.org/news/2020-05-microplastics-florida-birds-prey.html>

New gates on Glenmore Dam provide increased level of protection against flooding on Elbow River – effectively double reservoir capacity

- <https://www.cbc.ca/news/canada/calgary/city-of-calgary-glenmore-dam-flood-protection-1.5572928>

Harris County, Texas, restrict flood bond money – need to meet floodplain development standards

- <https://www.houstonchronicle.com/politics/houston/article/Harris-County-to-cities-Update-building-15280528.php>
- <https://www.houstonpublicmedia.org/articles/news/in-depth/2020/01/21/357965/new-houston-area-rules-to-prevent-flooding-are-obsolete-on-arrival-some-experts-say/>

Botswana is investigating mysterious deaths of a dozen elephants in Okavango Delta

- <https://www.yahoo.com/news/botswana-probes-mysterious-death-12-elephants-172501338.html>

Virtual vacations for couch potatoes: Buckingham Palace, Louvre, Yellowstone, Japan, Machu Pichu...

- <https://www.msn.com/en-us/travel/tips/virtual-vacations-you-can-take-straight-from-your-couch/ar-BB1307Ug>

Pomacea maculate - Invasive Apple Snail threatening Texas aquatic vegetation & carries rat lungworm parasite harmful to humans

- <https://www.msn.com/en-us/news/us/invasive-snail-is-threatening-texas-aquatic-vegetation-and-can-carry-a-parasite-harmful-to-humans/ar-BB14nxha>
- <https://www.ksat.com/news/local/2020/05/19/texans-encouraged-to-report-sightings-of-giant-apple-snails/>

US birth rate declines to lowest level in more than three decades

- <https://thehill.com/policy/healthcare/498724-us-birth-rate-hits-35-year-low>

Pacific fisher declared endangered in the southern Sierra Nevada – denied protection in CA & OR – threatened by habitat loss & rat poison used at illegal marijuana farms

- <https://www.yahoo.com/news/us-weasel-mammal-endangered-southern-030818414.html>

Two Bengal tigers seized in Mexico

- <https://www.bbc.com/news/world-latin-america-52753163>

Estimated cost of \$770M to construct a four-mile elevated monorail between South Beach & Miami – called a SMART plan

- <https://www.miamiherald.com/news/local/community/miami-dade/article242851806.html>

\$262M project to handle up to 70M gallons of polluted stormwater that flows into Duwamish River

- <https://www.enr.com/articles/49426-article-headline>

Woody plant encroachment into grasslands across the globe

- <https://asunow.asu.edu/20200515-vegetation-shifts-can-outweigh-climate-change-desert-rangelands>
- Paper: <https://www.nature.com/articles/s41598-020-65094-x>

Radioactive & chemical contamination in Eastern Snake Plain Aquifer in Idaho facility has remained constant or decreased – nearly all 180 wells are not below drinking water standards

- <https://www.msn.com/en-us/news/us/radioactive-waste-cleanup-paying-off-for-giant-idaho-aquifer/ar-BB14qG65>

Theory on why dogs spin in a circle before they squat to poop – align with magnetic field

- <https://www.msn.com/en-us/lifestyle/lifestyle-buzz/this-is-why-dogs-spin-around-before-they-poop/ar-BB14qFml>

CRS Report: Central Valley Project in Sacramento & San Joaquin River Valleys in California

- <https://crsreports.congress.gov/product/pdf/R/R45342>

1.2-mile section of Keystone XL pipeline finished at Montana border crossing

- <https://apnews.com/f8f0f4640da7ee17a9509411c664db3f>

Repairing aging dams will cost estimated \$20B for non-federal dams

- <https://wdet.org/posts/2020/05/21/89641-aging-dam-infrastructure-is-a-billion-dollar-problem/>

Rare white grizzly bear in Canadian Rockies

- <https://www.yahoo.com/news/rare-white-grizzly-bear-sighted-101521781.html>

- <https://www.thecragandcanyon.ca/news/local-news/rare-white-grizzly-bear-sighting-in-banff-national-park>

Perspective: green electricity delusions

- https://www.americanthinker.com/articles/2020/05/green_electricity_delusions.html

CORONAVIRUS

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

- <https://www.worldometers.info/coronavirus/>

Preparedness for next pandemic will be impacted as collective memory fades

- <https://theconversation.com/as-collective-memory-fades-so-will-our-ability-to-prepare-for-the-next-pandemic-137370>

Even if business surged there were still significant extra costs

- <https://www.yahoo.com/news/u-companies-discover-dark-side-111658282.html>

What shut-down policy has cost California

- <https://www.yahoo.com/news/ca-cuts-deferrals-delays-cut-012742653.html>

Surge in illegal killings of birds of prey in Britain – shot & illegal traps

- <https://www.theguardian.com/environment/2020/may/15/rspb-flooded-with-reports-of-birds-of-prey-being-killed>

Perspective: collateral damage of the lock-down

- <https://www.msn.com/en-us/news/politics/democrats-block-progress-at-their-peril/ar-BB14cN9U>

Impending “tsunami” of mental illness due to lock-down

- <https://www.itv.com/news/2020-05-16/psychiatrists-fear-a-tsunami-of-mental-illness-following-pandemic/>

Poor general health & co-morbidities put portions of population at greater risk

- <https://www.msn.com/en-us/news/us/azar-lays-part-of-blame-for-covid-19-death-toll-on-state-of-americans-health/ar-BB14dsjU>

Shut-down and other policy failures – “total lockdown – not the virus – is generating catastrophic harm”

- <https://www.msn.com/en-us/news/us/adding-to-dr-faucis-diagnosis-the-critical-case-for-ending-our-shutdown/ar-BB14fmOw>

Lock-down easing and stupid humans returning to old ways – too close to bison in Yellowstone

- <https://www.yahoo.com/news/woman-knocked-ground-injured-bison-031258675.html>

“Independent Inquiry” into WHO global response

- <https://www.cnn.com/2020/05/19/china/wha-pandemic-inquiry-resolution-vote-intl/index.html>

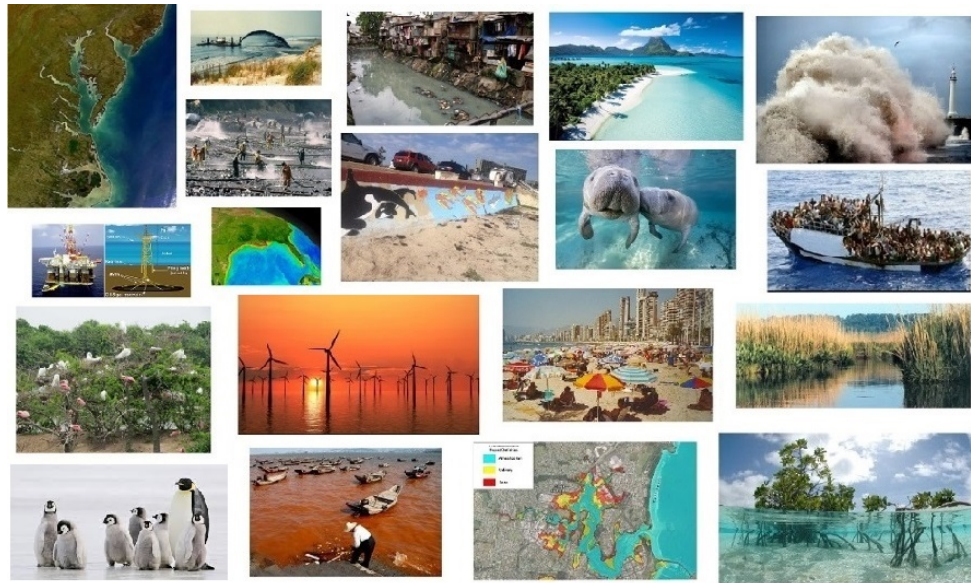
- <https://theconversation.com/the-world-health-organization-must-answer-these-hard-questions-in-its-coronavirus-inquiry-138959>

Pandemic of conspiracy theories & mis-information

- <https://www.yahoo.com/news/a-pandemic-of-conspiracy-theories-spreads-across-the-internet-and-around-the-world-195903321.html>

Impacts of hand sanitizer on your health & hand sanitizer can explode in a hot car

- <https://www.eatthis.com/hand-sanitizer-side-effects/>
- <https://www.syracuse.com/coronavirus/2020/05/dont-leave-hand-sanitizer-in-your-car-on-a-hot-day-firefighters-warn.html>



Coastal Zone Management Bulletin Board – 25 May 2020 – compiled by Elaine J. Hanford

High tides & storm surges have threatened roads, homes & beaches along coastal Victoria (video)

- <https://www.watoday.com.au/environment/climate-change/erosion-from-surgings-seas-threaten-roads-homes-and-beaches-20200517-p54tpu.html>

“Severe drought” impacting coastal Alabama – wildfire & water restrictions

- <https://www.al.com/news/mobile/2020/05/wildfire-and-water-restrictions-severe-drought-impacting-coastal-alabama.html>

Demarcation of exclusive economic zones (EEZ) among nations

- <https://www.ekathimerini.com/252716/gallery/ekathimerini/comment/demarcating-maritime-zones>

Legislation to kill coastal parish lawsuits against O&G companies advances to Louisiana Senate

- https://www.theadvocate.com/baton_rouge/news/politics/legislature/article_66e9217e-99e9-11ea-8b93-9bab032371a6.html
- https://www.theadvocate.com/baton_rouge/opinion/letters/article_f724ebe2-96bf-11ea-aa5d-5b0f24781169.html

City of Toronto continues to “floodproof”

- <https://urbanland.uli.org/sustainability/uli-coastal-forum-looks-at-how-toronto-is-floodproofing-for-the-future/>

The first lighthouse in North Carolina was established at Cape Fear on 23 Dec 1794

- <https://www.coastalreview.org/2020/05/history-rediscovered-ncs-first-lighthouse/>

Coastal impacts of Tropical Cyclone Amphan in India

- <https://www.newsweek.com/tropical-cyclone-amphan-path-map-millions-evacuated-india-two-coastal-states-launch-relief-1504874>
- <https://www.newindianexpress.com/nation/2020/may/19/cyclone-amphan-bsf-moves-ships-patrol-boats-to-safe-anchor-in-sunderbans-2145412.html>

Changes in the morphology of Rogue River estuary

- https://www.currypilot.com/community/rogue-river-estuary-takes-shape-again/article_57c304c8-96c7-11ea-8061-abbf61fafdc7.html

Concerns that estuary at Ravenglass is becoming dumping ground for broken boats

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