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Geoscience Bulletin Board – 9 September 2019 – compiled by Elaine J. Hanford

Understanding the collapse of Anak Krakatau that triggered deadly tsunami

- <https://phys.org/news/2019-08-reconstructing-anak-krakatau-flank-collapse.html>

Taking ocean drilling to new depths over the coming decades

- <https://www.nature.com/articles/d41586-019-02551-2>

Wilmington Blind-Thrust fault previously thought to be dormant – potential for 6.4M EQ along Los Angeles coast

- <https://www.latimes.com/california/story/2019-08-31/an-earthquake-fault-long-thought-dormant-could-devastate-los-angeles-researchers-say>
- <https://www.nationalgeographic.com/science/2019/08/hidden-earthquake-risk-discovered-under-los-angeles/>
- <https://www.sciencealert.com/this-fault-line-in-la-looked-dormant-but-it-could-cause-a-6-4-magnitude-quake>

Constellation of satellites will monitor tropical weather, climate & space weather

- <https://eos.org/science-updates/six-new-satellites-watch-the-atmosphere-over-earths-equator>

Some thoughts and ideas on why Ice Ages happen

- <https://www.livescience.com/what-causes-ice-ages.html>

Elevated levels of oxygen in 215 myo rocks from Colorado Plateau & Newark Basin just prior to evolutionary diversification of dinosaurs in North America – cause/effect or coincidence?

- <http://www.sci-news.com/paleontology/elevated-levels-oxygen-rise-north-american-dinosaurs-07521.html>

Pseudotherium argentines – extinct Triassic mammal relative had saber teeth

- <http://www.sci-news.com/paleontology/pseudotherium-argentinus-07533.html>

Jurassic *Ctenochasmatae* pterosaurs were filter-feeders

- <http://www.sci-news.com/paleontology/jurassic-pterosaurs-filter-feeders-07535.html>

Mountains being sacrificed to meet demands for sand & gravel for concrete

- <https://phys.org/news/2019-09-hunger-concrete-mountains.html>

Speleothems reflect Pliocene sea level from 4.4 to 3.3 myo – 2 to 3 °C warmer & 16 m higher

- <https://phys.org/news/2019-08-scientists-evidence-high-level-sea.html>

68 buildings at UCLA & UC Berkeley are seismically deficient

- <https://www.latimes.com/california/story/2019-08-29/how-would-uc-berkeley-fare-in-a-big-earthquake-officials-looked-and-its-scary>

Using AI to spot potential landslides – something any good geologist can do with ease

- <https://www.cmu.edu/news/stories/archives/2019/september/climate-change-landslides.html>

Marine geologists found evidence for meteoric water flow near Lofoten archipelago in Norway

- <http://www.sci-news.com/geology/freshwater-norwegian-sea-07553.html>

Paleocene-Eocene boundary age constrained by geology & astronomy at 56.01 ± 0.05 Ma

- <http://astrobiology.com/2019/09/solar-system-chaos-and-the-paleocene-eocene-boundary-age-constrained-by-geology-and-astronomy.html>
- Paper: <https://arxiv.org/pdf/1909.00283.pdf>

John W. Harbaugh (1927-2019) – groundbreaking computer simulations of geologic processes

- <https://news.stanford.edu/2019/09/03/geomathematician-john-w-harbaugh-dead-92/>

How many thermal features are in Yellowstone National Park? 1,350 and counting

- https://ravallirepublic.com/outdoors/article_93ddd248-6b3e-582a-9145-0825e6324476.html

Reinterpretation of geology identifies new uranium targets at Smart Lake in Athabasca Basin

- <https://www.prnewswire.com/news-releases/purepoint-uranium-identifies-new-priority-targets-at-smart-lake-300910940.html>

Phase 2 investigation at Red Springs Copper-Gold Porphyry Project using ground magnetic survey

- <https://www.geologyforinvestors.com/phase-2-of-2019-field-work-to-commence-at-jaxon-minings-red-springs-porphyry-project/>

“Grand Canyon of Pennsylvania” aka Pine Creek Gorge site of recurring tectonic activity

- <https://www.post-gazette.com/life/travel/2019/09/03/Travel-science-Grand-Canyon-of-Pennsylvania-Pine-Creek-Gorge/stories/201909010044>

Oxygen depletion in Late Silurian ocean caused major Lau/Kozlowskii mass extinction

- <https://www.sciencedaily.com/releases/2019/08/190830150801.htm>

Researching ancient life & banded iron formations on Geotrail in Barberton-Makhonjwa Mountains

- <https://lowvelder.co.za/501471/early-life-ancient-barberton-rock-researched/>

USGS deploying storm-tide sensors in Florida to the Carolinas to monitor Hurricane Dorian

- https://www.usgs.gov/news/usgs-deploying-175-storm-tide-sensors-fla-ga?qt-news_science_products=1#qt-news_science_products
- <https://www.usgs.gov/news/usgs-deploying-about-150-storm-tide-sensors-carolinas>

Sediment cores from Lake Ohrid in Europe will reveal million years of climate history

- https://www.upi.com/Science_News/2019/09/04/Sediment-from-Europes-oldest-lake-reveals-1-million-years-of-climate-history/3261567542417/?sl=1&ur3=1
- <https://phys.org/news/2019-09-europe-oldest-lake-million-years.html>

Colorful sunsets follow two major volcanic eruptions

- <https://www.skyandtelescope.com/observing/volcanoes-turn-twilights-purple/>

Ancient segmented worm died in its tracks

- <https://arstechnica.com/science/2019/09/new-fossil-find-reveals-some-of-the-first-mobile-animals/>
- <https://www.wtol.com/video/tech/science/amaze-lab/death-march-of-a-550-million-year-old-worm-discovered/609-77ed5836-a1a8-4817-9574-2e7c623ada4d>
- <https://www.nature.com/articles/d41586-019-02556-x>

Members of Megatherium Club worked hard during the day & drank hard at night

- <https://www.smithsonianmag.com/smithsonian-institution/hard-drinking-early-smithsonian-naturalists-who-aspired-find-and-classify-everything-earth-180973037/>

Global database of landslides on volcanic islands

- <https://blogs.agu.org/landslideblog/2019/09/04/a-database-of-giant-landslides-on-volcanic-islands/>
- Database: https://www.irsm.cas.cz/ext/giantlandslides/index.php?page=giantlandslides_db

Kimberlite pipes identified at Thorny River project in South Africa using geophysical work

- <https://www.mining-technology.com/news/botswana-diamonds-kimberlite-pipes/>

Pond of boiling water continues to get bigger on Kilauea

- <https://sputniknews.com/environment/201909031076716613-kilauea-volcano-water-pool-expands/>
- <https://blogs.scientificamerican.com/rosetta-stones/a-new-lake-grows-in-kilauea-caldera/>

Driving mechanisms for plate tectonics

- <https://phys.org/news/2019-09-plate-tectonics.html>

Photo-essay: Angular unconformity at Bacon Cove in Newfoundland, Canada

- <https://blogs.agu.org/mountainbeltway/2019/09/03/an-unconformity-at-bacon-cove-newfoundland/>

Unique landscapes on Earth

- <https://www.nationalgeographic.com/science/2019/08/see-10-of-earths-most-alien-landscapes/>

Captain Ahab, lodestones & mariner compasses

- <https://eos.org/geofizz/was-ahab-truly-lord-of-the-level-loadstone>

Understanding the Atlantic Meridional Overturning Circulation

- <https://eos.org/research-spotlights/theoretical-models-advance-knowledge-of-ocean-circulation>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019JC015330>

Landsat images capture 5 decades of change of glaciers in Greenland

- http://www.spacedaily.com/reports/Landsat_Illustrates_Five_Decades_of_Change_to_Greenland_Glaciers_999.html

How did *T. rex* keep his brain cool?

- <https://www.sciencedaily.com/releases/2019/09/190904125337.htm>

Kamuysaurus japonicus – 72 myo Cretaceous herbivorous hadrosaur is new genus & species

- <https://www.sciencedaily.com/releases/2019/09/190905111653.htm>

Groundwater levels, well monitoring, bias, anecdotal observations

- <https://www.sciencedaily.com/releases/2019/09/190905080043.htm>

Coupled computer models recreate conditions that triggered 2018 Palu EQ & tsunami

- <https://www.sciencedaily.com/releases/2019/09/190905080134.htm>
- <https://phys.org/news/2019-09-uncover-role-earthquake-motions-triggering.html>

Phosphate may be less abundant in the ocean than previously thought

- <https://phys.org/news/2019-09-reveals-patterns-key-ocean-nutrient.html>
- Paper: <https://advances.sciencemag.org/content/5/8/eaax0341>

Long-monitored unstable slope Veslemanen in Norway finally failed – rockslide caught on video

- <https://www.newsenglish.no/2019/09/06/mountain-finally-crashes-down/>

Recent eruption of Kilauea triggered large phytoplankton bloom

- <https://gizmodo.com/hawaii-s-kilauea-volcano-unexpectedly-triggered-a-gigan-1837929131>
- https://www.eurekalert.org/pub_releases/2019-09/uosc-kef090419.php

Massive increase in plastic pollution post WWII seen in marine sediments

- <https://phys.org/news/2019-09-explosion-plastic-pollution-post-world-war.html>

Seismic hazard & vulnerability of 40 famous pagodas & stupas in Bagan now complete

- <https://www.mmtimes.com/news/experts-finish-hazard-study-40-top-pagodas.html>

Great Oxidation Event ca. 1,400 to 2,050 Ma – Earth survived – it's humans who are fragile

- <https://www.ecowatch.com/mass-extinction-billions-years-ago-2640190509.html>
- <https://www.npr.org/2019/09/07/758448991/opinion-earth-has-survived-extinctions-before-its-humans-who-are-fragile>

The agonic will soon pass through Greenwich, England – first time in 360 years

- <https://www.newsweek.com/magnetic-north-pole-compasses-uk-1457591>
- <https://en.brinkwire.com/science/compasses-are-pointing-north-for-the-first-time-in-about-360-years-in-a-once-in-a-lifetime-event/>

Hurricanes affect weather patterns after landfall

- <https://phys.org/news/2019-09-hurricanes-affect-weather-landfall.html>

IPCC has new climate model – will their results result in fewer “dire” warnings? Or will it be sos?

- <https://phys.org/news/2019-09-climate-ipcc.html>

Edscottite – iron-carbide mineral not found in nature is found in Wedderburn iron meteorite

- <http://www.sci-news.com/geology/edscottite-07572.html>

Remnants of Greater Adria found in mountain ranges of southern Europe & now buried beneath the continent

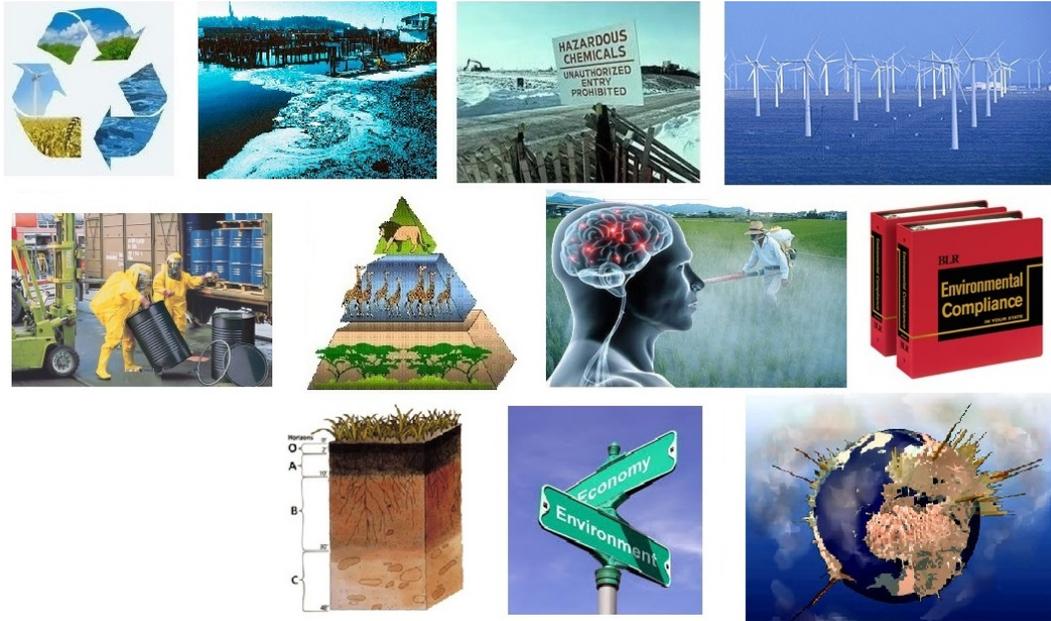
- <https://www.sciencemag.org/news/2019/09/geologists-uncover-history-lost-continent-buried-beneath-europe>
- <https://www.uu.nl/en/news/mountain-range-formation-and-plate-tectonics-in-the-mediterranean-region-integrally-studied-for-the>
- Link to pre-proof:
<https://www.sciencedirect.com/science/article/pii/S1342937X19302230?via%3Dihub>

Authorized & unauthorized statements from NOAA regarding Hurricane Dorian

- <https://blogs.agu.org/wildwildscience/2019/09/07/anger-among-public-and-meteorologists-after-false-unsigned-noaa-statement/>

Project to conduct 3D seismic re-imaging of the Red Sea

- <https://www.offshore-mag.com/geosciences/article/14039407/tgs-schlumberger-launch-egyptian-red-sea-3d-reimaging-project>



Environmental Science Bulletin Board – 9 September 2019 – compiled by Elaine J. Hanford

Humans have been changing the planet for millennia – longer than the “Anthropocene”

- <https://www.livescience.com/anthropocene-humans-changed-earth-millennia-ago.html>
- http://www.seeddaily.com/reports/Crowdsourced_archaeology_shows_how_humans_have_influenced_Earth_for_thousands_of_years_999.html

Vaping-illness investigations focus on contaminants & counterfeits – more deaths should be expected

- <https://arstechnica.com/science/2019/08/vaping-illness-investigations-turn-to-contaminants-counterfeits-report/>
- https://www.washingtonpost.com/health/as-vaping-related-lung-illnesses-spike-investigators-eye-contaminants/2019/08/29/cfe26032-ca78-11e9-be05-f76ac4ec618c_story.html
- <https://www.livescience.com/vitamin-e-oil-linked-vaping-related-lung-illnesses.html>
- https://start.att.net/news/read/category/news/article/newser-a_2nd_vaper_dies_in_us-rnewsenor
- https://start.att.net/news/read/article/chicago_tribune-its_going_to_attack_your_lungs_illinois_teen_hospitca/category/news
- <https://people.com/health/cdc-says-to-stop-vaping-as-fifth-person-dies-and-severe-lung-illness-cases-hit-450/>

Forthcoming book: Science be Dammed: How ignoring Inconvenient Science Drained the Colorado River

- https://www.amazon.com/Science-Be-Dammed-Ignoring-Inconvenient/dp/0816540055/ref=sr_1_1

More than 3,000 cases in on-going Ebola outbreak

- <https://www.msn.com/en-us/news/world/worlds-2nd-largest-ebola-outbreak-surpasses-3000-cases/ar-AAGwDfW>

Permits denied for two large Charles County, Maryland, solar energy projects – could harm area waters & wetlands

- <https://www.marylandmatters.org/2019/08/28/state-environmental-chief-nixes-2-major-solar-projects/>

Perspective: Environmental collaborators should hang their heads in shame

- <https://www.counterpunch.org/2019/08/29/environmental-collaborators-hang-your-heads-in-shame/>

Houston, Texas, to spend \$2B to improve sewage system

- <https://www.courthousenews.com/houston-must-spend-2-billion-to-fix-its-sewers/>

What will happen when the “Big One” hits the San Andreas fault in California

- <https://www.businessinsider.com/big-one-mega-earthquake-what-will-happen-california-san-andreas-2019-8>

Illegal immigrants bring mumps virus with them - infect others at detention centers including staffers

- <https://www.msn.com/en-us/news/us/mumps-outbreaks-affected-migrants-at-detention-centers-in-19-states-cdc/ar-AAGBPQd>
- CDC Report: <https://www.cdc.gov/mmwr/volumes/68/wr/mm6834a4.htm>

BLM offering reward for information leading to arrest of person(s) killed 42 protected wild burros

- <https://www.msn.com/en-us/news/us/authorities-looking-for-person-responsible-for-killing-42-wild-burros/ar-AAGzToE>

Komodo National Park in Indonesia will close to visitors to protect wildlife & dragons

- <https://www.msn.com/en-us/travel/news/indonesia-to-close-giant-lizard-island-leaving-guides-villagers-in-the-lurch/ar-AAGmMC2>

Perspective: Anthropocene legacy will be nuclear fallout, plastic waste & extinctions

- https://www.japantimes.co.jp/opinion/2019/08/31/commentary/world-commentary/humans-will-remembered-mess/#.XWsh_XdFyUk

St. Lawrence fishery destroyed by tsunami – then mining venture exploited resources & caused cancer

- <https://beta.theglobeandmail.com/opinion/article-in-this-newfoundland-town-natural-disaster-and-industrial-carnage/>

Perspective: Reducing carbon pollution through infrastructure – still believing CO2 global warming myth and expecting taxpayers to pay outrageously to “fix” it

- <https://www.americanprogress.org/issues/green/reports/2019/09/03/473980/reducing-carbon-pollution-infrastructure/>

CRS In Focus Report: Role of the USEPA in Environmental Justice

- <https://crsreports.congress.gov/product/pdf/IF/IF10529>

Cedar Break National Monument

- <https://www.livescience.com/65571-cedar-break-national-monument-photos.html>

NSF to uncover “Rules of Life” to guide future research

- https://www.nsf.gov/news/news_summ.jsp?cntn_id=299135&org=GEO&from=news

Ongoing environmental & personal fallout from the Fukushima disaster

- <https://www.guernicamag.com/everything-we-do-not-know/>

Denmark to ban toxic PFAS in food packaging

- <https://www.ehn.org/denmark-pfas-ban-2640174947.html>

Perspective: Call for Kraft-Heinz Food Corporation to remove phthalates from products

- <https://www.ehn.org/phthalates-in-macaroni-and-cheese-2640037202.html>

You are what you eat – impacts of junk food – ARFID – soft drinks and mortality

- <https://arstechnica.com/science/2019/09/fussy-eater-goes-blind-after-years-of-eating-only-junk-food/>
- <https://www.sciencedaily.com/releases/2019/09/190905090929.htm>

Extent of fires in the Amazon – most fires caused by humans – relationship to climate – fires in Bolivia

- <https://www.nationalgeographic.com/environment/2019/08/amazon-fires-cause-deforestation-graphic-map/>
- Myths: <https://www.nationalgeographic.com/environment/2019/08/why-amazon-doesnt-produce-20-percent-worlds-oxygen/>
- http://www.terraviva.com/reports/Stability_of_Earths_climate_depends_on_Amazonia_999.html
- http://www.terraviva.com/reports/Bolivia_has_lost_17_million_hectares_to_fire_government_999.html

Plastic bottles have evolved from miracle container to hated garbage

- <https://www.nationalgeographic.com/environment/2019/08/plastic-bottles/>

The fiasco of wind turbines – lifespan of about 20 years and then what?

- <https://www.powerlineblog.com/archives/2019/09/the-environmental-fiasco-of-wind-energy.php>

The environmental disaster of solar energy

- <https://www.americanexperiment.org/2019/08/environmental-disaster-solar-energy/>

Increasing human population and poor planning are draining water supplies in Jordan

- <https://www.nature.com/articles/d41586-019-02600-w>

Perspective: Impacts of malaria and now complacency on Sri Lanka

- <https://www.nature.com/articles/d41586-019-02598-1>

Natural gas spill near Watford City, North Dakota, could exceed 1M gallons – cleanup to take years

- <https://www.apnews.com/511b97d03239403b83756a4346270812>

Population of platypus in decline due to centuries of hunting and habitat loss

- <https://www.nationalgeographic.com/animals/2019/08/common-platypus-disappearing-australia/>
- Paper: <https://www.sciencedirect.com/science/article/pii/S2351989419302276>

Land use & heavy rains increase nutrient levels in stream – 35 years of streamflow dataset

- <https://eos.org/research-spotlights/how-land-use-affects-nutrient-pollution-in-a-changing-climate>
- <https://eos.org/editor-highlights/reconstructing-natural-streamflow-at-unprecedented-resolution>

Attempting to save the northern white rhinoceros from extinction

- <https://www.treehugger.com/endangered-species/scientists-may-have-just-saved-northern-white-rhino-extinction.html>

Possible explanation of how aquatic plants cope with water pollution

- <https://www.sciencedaily.com/releases/2019/09/190905080134.htm>

California may finally be on track to develop realistic water supply resilience

- <http://waterinthewest.stanford.edu/news-events/news-insights/making-californias-water-supply-resilient>

Wild horse instincts much better than humans in surviving hurricanes on North Carolina Outer Banks

- <https://www.msn.com/en-us/lifestyle/lifestyle-buzz/wild-horses-in-north-carolina-wont-be-evacuated-because-they-have-their-own-trick-to-survive-hurricanes/ar-AAGR4T8>

Perspective: If Democrats cared about the environment, they'd talk about China

- <https://www.breitbart.com/tech/2019/09/06/bokhari-if-democrats-cared-about-the-environment-theyd-address-china/>

Seattle may follow Berkeley lead and ban natural gas for new construction homes and buildings – need to consider reliability, affordability, safety – not 'climate change'

- <https://www.seattletimes.com/seattle-news/politics/seattle-city-council-to-consider-ban-on-natural-gas-for-new-buildings/>

A serious question of ethics – human-animal hybrids no longer banned in Japan

- <https://massivesci.com/notes/human-animal-chimeras-to-grow-organs-for-transplant/>

The challenge of microplastics in our drinking water & affecting human health & aquatic systems

- <https://phys.org/news/2019-09-major-environmental-microplastics.html>

Microplastics concentrate methylmercury – impact of marine plastic pollution on our food supply

- <https://phys.org/news/2019-09-marine-plastic-pollution-neurological-toxin.html>

Increased precipitation in Nile River Basin will be greatly exceeded by human demands

- <https://phys.org/news/2019-09-millions-nile.html>



Coastal Zone Management Bulletin Board – 9 September 2019 – compiled by Elaine J. Hanford

Indonesia will spend \$40B to “save” Jakarta – logical since new capital expected to cost \$33B??

- <https://in.reuters.com/article/indonesia-politics-capital/indonesia-pledges-40-billion-to-modernise-jakarta-ahead-of-new-capital-minister-idINKCN1VJ0EW>

Virginia Beach planning to cope with stormwater and flooding

- <https://www.enr.com/articles/47421-virginia-beach-makes-plans-to-keep-its-head-above-water>

Preparing for the arrival of Hurricane Dorian

- <https://www.wrdw.com/content/news/Augusta-Fire-and-EMA-preparing-support-for-coastal-evacuees-558950621.html>

Sediment levels in Porirua Harbour have more than doubled in last 5 years despite cleanup efforts

- <https://www.tvnz.co.nz/one-news/new-zealand/in-five-years-sediment-levels-have-more-than-doubled-porirua-harbour>

Nacelle of prototype offshore wind turbine installed on tower in Port of Rotterdam – awaiting 107-meter blades

- <https://www.offshorewind.biz/2019/08/30/haliade-x-12-mw-nacelle-towers-over-rotterdam-port/>

Safety practice at offshore Block Island Wind Farm – facing rough seas

- <https://www.providencejournal.com/news/20190901/rescuers-hold-safety-practice-at-offshore-wind-farm>
- <https://ctmirror.org/2019/08/27/ct-offshore-wind-may-face-some-rough-seas/>

Powering up for De Beers offshore diamond mining operations in Namibia

- <https://im-mining.com/2019/08/31/ale-powers-up-de-beers-offshore-diamond-mining-vessel/>

5 factors for better coastal risk-management strategies

- <https://phys.org/news/2019-09-factors-coastal-risk-management-strategies.html>

New survey shows West Coast has lost about 85% of historical estuary habitat

- <https://www.opb.org/news/article/estuaries-disappear-american-west-coast/>
- <https://www.peninsuladailynews.com/news/new-maps-chart-possible-course-for-estuary-restoration/>

Almost 100 whales driven into shallow bay, dragged onshore & slaughtered in Faroe Islands

- <https://www.independent.co.uk/environment/whales-killed-faroe-islands-whaling-sea-shepherd-uk-photos-a9085396.html>

Delaware NREC finalizes Coastal Conversion Permit regulations

- <https://news.delaware.gov/2019/09/03/dnrec-announces-finalized-coastal-zone-conversion-permit-regulations-which-become-effective-sept-11/>

Report updates vulnerability of coastal communities in New Hampshire

- <https://www.wmur.com/article/new-report-assesses-states-growing-risk-from-coastal-storms/28905089>
- Report Part 1 – Science: <https://scholars.unh.edu/cgi/viewcontent.cgi?article=1209&context=ersc>
- Report Part 2 – Guidance: <https://scholars.unh.edu/cgi/viewcontent.cgi?article=1210&context=ersc>

Storm surge from Hurricane Dorian will pound Jacksonville coast months after US Army COE \$16M beach restoration – epitome of Sisyphus

- <https://finance.yahoo.com/news/sisyphus-beach-dorian-underlines-coastal-180822905.html>

Advance warning: do not swim in North Carolina coastal waters after Hurricane Dorian

- <https://wcti12.com/weather/hurricane-stories/officials-say-not-to-swim-in-coastal-waters-after-dorian>

All North Carolina coastal waters will be temporarily closed to shellfish harvest

- <https://www.thewashingtondailynews.com/2019/09/04/all-north-carolina-coastal-waters-to-close-to-shellfish-harvest/>
- Proclamation: <http://portal.ncdenr.org/web/mf/proclamation-pa-87-2019>

Highways in North Carolina were flooded with coastal evacuees

- <https://www.cbs17.com/news/local-news/nc-highways-flooded-with-coastal-evacuees-as-dorian-approaches/>

Tragedy off the coast of Maine near the end of World War II

- <https://www.pressherald.com/2019/09/04/coastal-history-maine-paid-price-at-world-wars-end/>

\$3M NSF grant POLARIS project to assist building more resilient communities on Alaskan coast

- <https://news.psu.edu/story/586035/2019/09/03/research/helping-alaskan-coastal-communities-adjust-global-warming>

NFWF grants to help conserve Alabama pine forests & coastal habitats for rare species

- <https://alabamanewscenter.com/2019/09/04/grants-to-help-protect-alabama-pine-forests-coastal-habitats-for-rare-species/>

Port of Beaumont to issue \$500M revenue bonds to expand & improve port energy infrastructure

- <https://www.beaumontenterprise.com/news/article/Port-to-issue-record-revenue-bonds-14414652.php>

500+ people injured by sting rays along California beaches over Labor Day weekend – influx of humans into coastal waters

- <https://www.msn.com/en-us/news/us/more-than-500-people-injured-by-stingrays-over-holiday-weekend-in-southern-california/ar-AAGOIBa>

Democrats will introduce bills to ban offshore drilling for O&G

- <https://thehill.com/policy/energy-environment/460170-dems-to-take-up-offshore-drilling-plans-once-congress-reconvenes>

Erosion from storm surge from Hurricane Dorian at Hilton Head was “unexpectedly unremarkable”

- <https://www.heraldonline.com/news/state/south-carolina/article234764192.html>