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Geoscience Bulletin Board – 14 October 2019 – compiled by Elaine J. Hanford

Volcanic vents on Bogoslof Island provide warm nursery for fur seals

- <https://www.stripes.com/news/us/home-sweet-volcano-alaska-fur-seals-thrive-at-unlikely-spot-1.601618>

Top places to appreciate geology in Texas

- <https://www.chron.com/life/travel/article/UT-Austin-top-Texas-geology-14489574.php>
- <https://store.beg.utexas.edu/special-books/3762-us0006gp-great-places-to-view-texas-geology.html>

Dust in ice cores reveals advancement of ice before the Ice Age

- <https://phys.org/news/2019-10-ice-cores-knowledge-advancement-age.html>

Flipping of the magnetic field of Earth – 80 times in Middle Cambrian – Kotlinian Crisis

- <https://sputniknews.com/science/201910031076955902-earth-magnetic-field-extreme-flipping-period/>
- <https://www.sciencealert.com/earth-s-magnetic-poles-could-flip-more-frequently-than-we-previously-thought>

MES, PAM and shallow seismic techniques to characterize Irish Sea and geohazards

- <https://afloat.ie/resources/news-update/item/44256-marine-notice-geohazard-investigation-in-irish-sea>
- Marine Notice 41 of 2019:
<https://www.gov.ie/pdf/?file=https://assets.gov.ie/34788/619c599d9cc94c099b5ca9bcac2e0dfc.pdf#page=1>

Estimated 2 million years necessary for oceanic recovery after mass extinction

- <https://thenextweb.com/syndication/2019/10/04/study-ocean-ecosystems-take-2-million-years-to-recover-after-mass-extinction/>

Private fossil collectors – indulging juvenile fantasies – a controversial hobby

- <https://www.nationalgeographic.com/culture/2019/09/dinosaur-fossils-collector-feature/>

Fossil shark remains at Castellavazzo locality in Italy re-evaluated

- <https://www.forbes.com/sites/melissacristinamarquez/2019/10/05/scientists-uncover-shark-fossil-secrets-in-italy/#1081462b27f7>

Herculaneum papyri were carbonized & burnt by eruption of Mount Vesuvius

- <https://eu.greekreporter.com/2019/10/06/scientists-find-ancient-greek-texts-on-papyrus-burnt-after-vesuvius-eruption/>

Volcanic soils make delicious wines

- <https://www.eturbonews.com/285446/volcanic-wines-the-delicious-results-of-a-volcano/>

Evidence that large asteroid or comet hit Earth during the Pleistocene – platinum spike in sediments

- <https://gizmodo.com/heres-more-evidence-that-earth-got-hit-by-something-hug-1838780501>
- <http://www.wits.ac.za/news/latest-news/research-news/2019/2019-10/new-research-supports-hypothesis-that-asteroid-contributed-to-mass-extinction.html>

Apocalyptic instantaneous global warming cartoon video

- <https://www.businessinsider.com/what-if-all-ice-earth-melted-overnight-2019-10>

Developer, architect & civil engineer sentenced to 5 years in prison for partial collapse of Hualien building during M6.0 EQ in February 2018 – negligent homicide for 14 deaths

- <http://focustaiwan.tw/news/asoc/201910080022.aspx>

Ferrodraco lentoni - “Iron dragon” pterosaur – 13-foot wingspan – well-preserved fossil

- <https://www.nationalgeographic.com/science/2019/10/new-iron-dragon-pterosaur-found-australia/>

Effort to “standardize” paleoclimate terminology & data

- <https://eos.org/research-spotlights/standardizing-the-surge-of-paleoclimate-data>

Long-term impacts of wildfires on watersheds, water & soil properties

- <https://eos.org/articles/wildfires-affect-water-resources-long-after-the-smoke-clears>

Roundness of sediment deposits may reflect on magnitude of tsunamis

- <https://eos.org/articles/gravel-gives-clues-to-the-strength-of-paleotsunamis>
- Paper: <https://www.nature.com/articles/s41598-019-46584-z>

Never-before-seen footage of damage of 1931 M7.8 Napier EQ (aka Hawke’s Bay EQ)

- <https://www.tvnz.co.nz/one-news/new-zealand/never-before-seen-footage-napier-earthquake-restored-after-nearly-90-years-sitting-in-rusty-cans>

- Paper: <https://www.tandfonline.com/doi/pdf/10.1080/00288306.1990.10425689>

Dominica starts well testing for future 7MW geothermal power plant

- <https://renewablesnow.com/news/dominica-starts-well-testing-for-7-mw-geothermal-project-672040/>

Donegal school part of International Seismology in Schools network recording “anything that makes the earth shake”

- <https://www.bbc.com/news/world-europe-49970817>

Plate Tectonics 2.0 - plate tectonics meet slab tectonics – fluid solids – mantle winds – theory evolves

- <https://arstechnica.com/science/2019/10/plate-tectonics-runs-deeper-than-we-thought/>

US Landslide Inventory Map – web-based interactive map in areas of higher risk

- <https://www.usgs.gov/news/landslide-risks-highlighted-new-online-tool>

USGS estimates 214 trillion cubic feet of natural gas in Appalachian Basin formations

- <https://www.usgs.gov/news/usgs-estimates-214-trillion-cubic-feet-natural-gas-appalachian-basin-formations>
- Marcellus Shale: <https://pubs.usgs.gov/fs/2019/3050/fs20193050.pdf>
- Point Pleasant & Utica Shale: <https://pubs.usgs.gov/fs/2019/3044/fs20193044.pdf>

Ocean plays important role in carbon cycle and climate

- http://www.spacedaily.com/reports/Can_oceans_turn_the_tide_on_the_climate_999.html

NASA CYGNSS fleet aids hurricane forecasts

- http://www.spacedaily.com/reports/NASA_small_sats_can_aid_hurricane_forecasts_with_GP_S_999.html

MOSAiC has selected ice floe for year-long drift through the Arctic

- http://www.spacedaily.com/reports/MOSAiC_expedition_selects_ice_floe_for_drift_through_Arctic_Ocean_999.html

Jason-2/OSTM satellite missions to measure sea surface height successfully ended 1 October

- http://www.spacedaily.com/reports/Successful_ocean_monitoring_satellite_mission_ends_999.html

Orpheus project continues to explore the ocean depths – Part I

- <https://www.whoi.edu/news-insights/content/the-rise-of-orpheus/>

New seismic networks being deployed around Los Angeles to better estimate susceptibility to seismic shaking – BASIN surveys to assess “urban seismology”

- <https://eos.org/science-updates/exposing-los-angeles-shaky-geologic-underbelly>

Casey Hanell appointed as Washington State Geologist

- http://www.chronline.com/news/commissioner-of-public-lands-names-new-state-geologist/article_ec8c0bd4-e79c-11e9-a171-2b7653122325.html

Results of ongoing drill program announced by Great Bear Resources Ltd. - Red Lake district, Ontario

- https://www.marketscreener.com/GREAT-BEAR-RESOURCES-LTD-49479181/news/Great-Bear-Resources-Drills-125-00-m-of-1-08-g-t-Gold-Between-Bear-Rimini-and-Yuma-Zones-and-15-0-29360677/?utm_medium=RSS&utm_content=20191010

Multi-beam sonar data of submarine canyons yields clues to process of formation distinct from subaerial

- <http://spaceref.com/mars/global-analysis-of-submarine-canyons-on-earth-may-shed-light-on-martian-landscapes.html>

Gold porphyry system discovered on western side of Kremice Project in Serbia

- <https://www.geologyforinvestors.com/gold-porphyry-system-discovered-at-kremice-project-in-serbia/>

Mount Etna erupts plume of ash & smoke

- <https://sputniknews.com/europe/201910111077023942-italys-mount-etna-bursts-into-volcanic-activity--volcanology-institute/>

In 1774, geologist Abraham Gottlob Werner published “color bible” comprehensive color index to classify minerals & rocks

- <https://qz.com/quartz/1725129/farrow-balls-new-paint-collection-inspired-by-werners-nomenclature-of-colours/>
- Treatise: <https://archive.org/details/atreatiseonexte00werngoog/page/n71>

Photo-essay on folding at Watern Cove

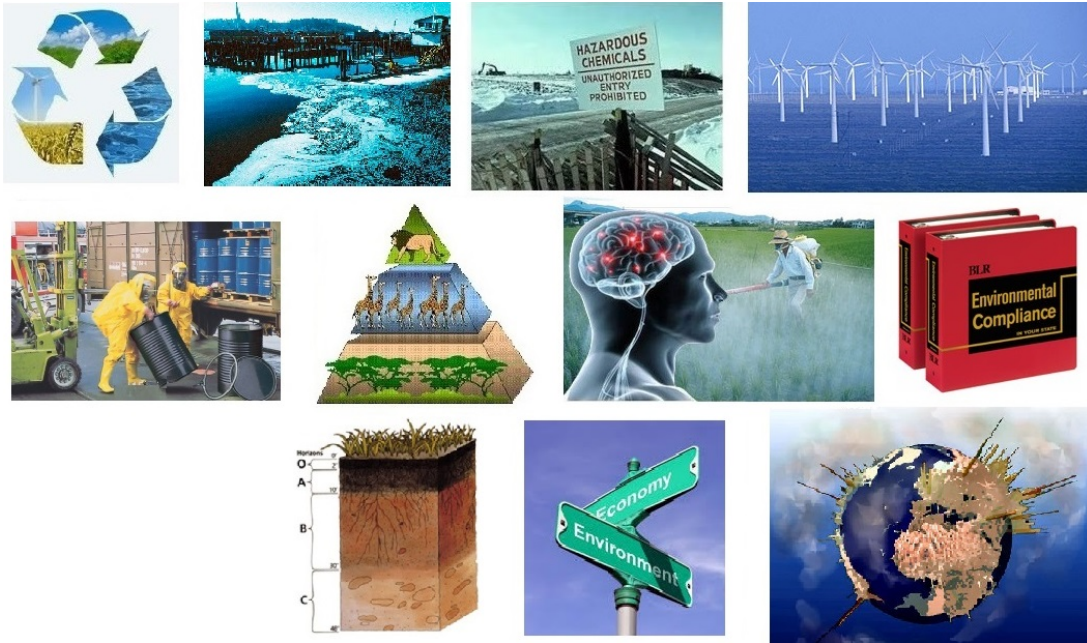
- <https://blogs.agu.org/mountainbeltway/2019/10/11/friday-fold-watern-cove/>

Medical geology & emerging health challenges – interdisciplinary approach to solving problems

- <https://punchng.com/don-urges-geo-scientists-public-health-researchers-collaboration/>

China unveils first of its kind fixed-wing airborne geophysical surveying aircraft

- <http://en.people.cn/n3/2019/1010/c90000-9621597.html>



Environmental Science Bulletin Board – 14 October 2019 – compiled by Elaine J. Hanford

Infection rates of 3 sexually transmitted diseases (chlamydia, gonorrhea & syphilis) increase for 5th consecutive year – highly drug-resistant strains spreading

- <https://www.msn.com/en-us/health/health-news/3-sexually-transmitted-diseases-hit-new-highs-again-in-us/ar-AAIsXLB>
- <https://gizmodo.com/stds-in-america-hit-another-record-high-in-2018-1838883460>
- <https://time.com/5694560/std-diagnoses-2018/>
- Stats by State: <https://www.alarms.org/std-statistics/>
- CDC Report highlights: <https://www.cdc.gov/std/stats18/default.htm>
- CDC Surveillance Report: <https://www.cdc.gov/std/stats18/STDSurveillance2018-full-report.pdf>

10 years after M7.0 EQ and promises of Clinton Foundation to rebuild Haiti have failed

- <https://www.theguardian.com/world/2019/oct/11/haiti-and-the-failed-promise-of-us-aid>

4 serious concerns with vaping: acute illness and death, long-term effects, impacts on children – batteries are a fire hazard on airplanes

- <https://www.msn.com/en-us/health/health-news/theres-not-just-one-vape-crisis—theres-three/ar-AAICXJB>
- <https://www.msn.com/en-us/news/us/flight-attendants-warn-of-catastrophic-fire-risk-from-e-cigarettes/ar-AAIuY0y>

USEPA proposes rewrite of rules on lead pipe contamination in drinking water

- <https://www.apnews.com/1fcb3ac1ac244773b9cc7eb9fbca9be8>

Despite “more efficient” vehicles, population growth & emissions have increased in cities

- <https://www.msn.com/en-us/autos/news/heres-how-much-vehicle-emissions-have-increased-in-your-city/ar-AAIAY1x>

Avalanche of used clothing is landing in landfills

- <https://www.msn.com/en-us/money/companies/why-your-used-shirts-are-destined-for-the-dump-and-not-the-recycling-center/ar-AAIa5HW>

An Aboriginal view of the land

- <https://theconversation.com/new-research-turns-tasmanian-aboriginal-history-on-its-head-the-results-will-help-care-for-the-land-124285>
- Paper: <https://onlinelibrary.wiley.com/doi/full/10.1111/jbi.13684>

Raccoons, rabies, and the ongoing oral vaccine program

- <https://www.nationalgeographic.com/animals/2019/09/massive-effort-eradicate-raccoon-rabies/>

Porcupines – they sound like Ewoks

- <https://www.nationalgeographic.com/animals/mammals/group/porcupines/>
- <http://mentalfloss.com/article/73129/porcupines-sound-crazed-ewoks>

Project to increase capacity of Shasta Reservoir in Northern California has stalled

- <https://www.sacbee.com/news/california/water-and-drought/article235713477.html>

“Cool pavement” has unwelcomed side effect to make people hotter

- <https://www.citylab.com/environment/2019/10/cool-pavement-materials-coating-urban-heat-island-research/599221/>

“green” infrastructure projects being planned to address flooding in Pittsburgh

- <https://weather.com/forecast-change/marketing/news/2019-10-03-innovative-solution-pittsburgh-flooding-help-other-flood>

Recreation versus wildlife – humans versus grizzlies

- <https://www.outsideonline.com/2402436/grizzly-bears-habitat-humans>

\$15M proposed cleanup to removed toxic metals from Eastman Kodak in sediments of Genesee River

- <https://www.democratandchronicle.com/story/news/2019/10/04/genesee-river-cleanup-kodaks-silver-pollution-rochester-ny/3856185002/>

Mining is necessary to support modern society – leaves scarred land & polluted waters

- <https://theconversation.com/mining-powers-modern-life-but-can-leave-scarred-lands-and-polluted-waters-behind-119453>

Population – countries with increase – countries with decline

- <https://www.msn.com/en-us/news/world/these-9-countries-will-make-up-half-the-worlds-population-growth-by-2050/ss-AAHQdHH>
- <https://www.msn.com/en-us/news/world/what-will-the-population-of-these-40-countries-be-in-2030/ss-AAHPPDi>
- <https://www.msn.com/en-us/news/world/these-countries-have-the-fastest-shrinking-populations-in-the-world/ss-AAHQgjP>

Study of Rio Minho watershed in Upper Clarendon to determine flooding risks

- http://www.jamaicaobserver.com/news/rio-minho-watershed-study-to-determine-flooding-risks_176363

SCOTUS to hear consolidated appeals cases: grant right-of-way for \$7.8B Atlantic Coast Pipeline to cross Appalachian Trail on national forest land? Injection of wastewater into wells in Hawaii that migrates to Pacific Ocean

- <https://www.enr.com/articles/47725-key-environment-workforce-rulings-are-ahead-for-us-supreme-court>

720,000 acres between Bay Area & Fresno opened to potential O&G drilling

- <https://www.sfchronicle.com/environment/article/Trump-administration-opens-California-to-new-oil-14491295.php>

Legal battle continues as construction proceeds on \$2.75B Fargo flood diversion project

- <https://www.grandforksherald.com/news/traffic-and-construction/4707550-Construction-of-2.75B-flood-diversion-moves-ahead-south-of-Fargo-while-legal-fight-drag-on>

Record setting python officially longest captured in the Big Cypress National Preserve – 18 ft 4 in

- <https://www.msn.com/en-us/news/us/florida-trappers-capture-record-setting-python-in-everglades/ar-AAImd7p>

Nevada attempting to track and prevent deer with CWD (“zombie deer”) from entering the state

- <https://www.yahoo.com/news/nevada-fighting-keep-zombie-deer-233848757.html>

Florida Crystals Corp. wants early termination of lease to pave way for \$1.6B reservoir project within Everglades Agricultural Area

- https://www.thecentersquare.com/florida/billion-everglades-reservoir-site-work-could-begin-early-next-year/article_7661b8a0-e6cf-11e9-904d-8374a002b321.html

Texas recognizing flood risk is greater – Austin gets more precipitation – flood risks increasing

- <https://www.statesman.com/news/20191003/austin-weighs-code-changes-after-data-show-80-more-structures-at-flood-risk>
- Map: <https://www.statesman.com/news/20180928/more-extreme-rain-in-austin-could-change-flood-maps>

Tourist likely intoxicated - ignored safety warnings – falls into hot spring – gets burned at Yellowstone

- <https://www.msn.com/en-us/travel/news/yellowstone-tourist-injured-after-falling-into-hot-spring/ar-AAI4JQg>

“Smart cities” rely more on technology – have greater technological risk for cyber security

- <https://canada.constructconnect.com/dcn/news/technology/2019/10/stantec-report-hails-smart-cities-for-many-benefits>

Agricultural drainage infrastructure may need to be updated – production & environmental impacts

- <https://www.sciencedaily.com/releases/2019/10/191007113325.htm>

Madrid, Spain, to begin humane slaughter of monk parakeets – over-populated introduced species

- <https://www.msn.com/en-us/news/world/madrid-to-begin-humane-slaughter-of-parakeets/ar-AAIrwpl>

German river-cruise ship collided with cargo ship – 5 injured – substantial damage

- <https://www.msn.com/en-us/news/world/five-people-hurt-and-cabins-torn-open-after-cruise-ship-collision/ar-AAIsr0D>

Small Wisconsin town fighting new concentrated animal feeding operation (CAFO) and environmental impacts – nitrates in groundwater causing birth defects, thyroid disease, cancer

- https://www.huffpost.com/entry/wisconsin-saratoga-contaminated-drinking-water_n_5d88de57e4b0849d472d29d8

So many people to feed – expecting aquaculture will provide enough

- <https://eos.org/editor-highlights/seafood-farming-a-key-to-future-global-food-security>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019GH000204>

Over-fishing tuna

- <https://www.npr.org/sections/thesalt/2019/10/04/766786639/were-pulling-tuna-out-of-the-ocean-at-unprecedented-and-unsustainable-rates>

Human demand (and taking) of groundwater is leading to a global crisis

- <https://arstechnica.com/science/2019/10/our-groundwater-use-is-destroying-freshwater-ecosystems/>

Manufacture of artificial stone countertops linked to death & irreversible silicosis in workers

- <https://www.npr.org/sections/health-shots/2019/10/02/766028237/workers-are-falling-ill-even-dying-after-making-kitchen-countertops>

Painting cows to look like zebras reduced biting fly attacks – use less pesticide

- https://www.huffpost.com/entry/study-cows-zebra-stripes-flies_n_5d9d4b57e4b02c9da040c7da
- Paper: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0223447>

Fund-raising effort to rehabilitate walking paths in Scotland – footpath & mountainside erosion

- <https://www.scotsman.com/heritage/campaign-to-save-the-nation-s-walking-paths-for-the-future-is-launched-1-5020728>
- <https://www.scotsman.com/news/environment/over-tourism-and-ignorance-are-damaging-scotland-s-munros-1-5013746>

Perspective: “False profits” – touted as safer solutions for health & environment were not

- <https://www.ehn.org/chemistry-creating-environmental-problems-2640659292.html>

You are what you eat – eat more takeout, fast food & pizza causes higher levels of toxic PFAS chemicals

- <https://www.ehn.org/pfas-in-food-packaging-2640885250.html>

Impacts of extensive PG&E power shut down in California – in the name of public safety (and prevent lawsuits)

- <https://www.yahoo.com/finance/news/next-part-massive-california-blackouts-200759114.html>
- <https://www.almanacnews.com/news/2019/10/07/offshore-wind-prompts-fire-watch-possible-pge-shutoffs>
- <https://www.msn.com/en-us/news/us/pgande-faces-anger-mistrust-over-power-outages-it-is-excessive/ar-AAIweNt>

While some efforts want to remove Glen Canyon Dam – others seek permits for hydropower dams on Little Colorado River

- <https://www.apnews.com/f172c0ba69424cf19a7fd7943f234c2f>
- Glen Canyon: <https://news.yahoo.com/environmentalists-push-removing-dam-along-235958376.html>

Sandhill crane population has recovered – so what will humans do? Shoot them

- <https://www.nationalgeographic.com/animals/2019/10/sandhill-crane-hunting-opens-alabama/>

Believing in and teaching the myth of sustainability

- <https://blogs.ei.columbia.edu/2019/10/09/tom-abdallah-sustainable-engineering/>

Utah DOT repairing damage to drainages due to mudslides & heavy rains in Little Cottonwood Canyon

- <https://www.ksl.com/article/46652120/udot-begins-repairing-little-cottonwood-canyon-drainage-after-mudslides>

Karst topography raises concerns in Sandusky & Seneca Counties, Ohio, with proposed wind turbines

- <https://www.thenews-messenger.com/story/news/local/2019/08/02/fragile-karst-terrain-worries-neighbors-proposed-wind-field/1859554001/>

Antimicrobial resistance in food animals (livestock & fowl) in low- to middle-income countries nearly tripled over past two decades

- https://eurekaalert.org/pub_releases/2019-10/pu-ari100919.php

Energy redistribution between the atmosphere & ocean

- https://eurekaalert.org/pub_releases/2019-10/ioap-hgw101019.php



Coastal Zone Management Bulletin Board – 14 October 2019 – compiled by Elaine J. Hanford

Coastal sediment cores helping to reveal history of hurricanes

- <https://insideclimatenews.org/news/01102019/hurricane-warm-water-climate-change-history-science-study-sediment-core-donnely-muller>

Perspective: \$1.9B Port of Alaska price could be significantly reduced

- <https://www.alaskajournal.com/2019-10-02/consultants-19b-port-alaska-price-could-be-halved>

\$1.96B Puget Sound Gateway program intended to improved connections to ports in Tacoma & Seattle

- <https://www.auburn-reporter.com/news/1-96-billion-puget-sound-gateway-program-launched/>

Louisiana still hopeful that redirecting Mississippi River will restore coast

- <https://www.apnews.com/b1f7476628cb4251a591d8073ada4ae3>

\$3M project to study impacts of erosion along Alaskan coastline

- <https://news.psu.edu/story/590841/2019/10/01/research/civil-engineer-leads-3m-project-study-eroding-alaskan-coastline>

USGS documents salt water intrusion at base of Biscayne Aquifer in Miami-Dade County

- <https://www.circleofblue.org/2019/world/tracking-the-atlantic-oceans-inland-creep-in-miami-dade-county/>
- Pamphlet: https://pubs.usgs.gov/sim/3438/sim3438_pamphlet.pdf
- Map: <https://pubs.usgs.gov/sim/3438/sim3438.pdf>

Food statistics for cruise ships

- <https://www.msn.com/en-us/travel/news/10000-eggs-per-day-and-other-crazy-cruise-ship-food-stats/ss-AA14qBY>

US Army COE says Bourne & Sagamore bridges that cross Cape Cod Canal should be replaced

- <https://www.bostonherald.com/2019/10/04/cape-cod-canal-bridges-should-be-replaced-army-corps/>

Battle begins over how aggressively beach cities in California must plan for sea-level rise

- <https://www.scientificamerican.com/article/coastal-city-refuses-to-retreat/>

Project DUNEX at US Army “Duck Pier” to collect beach data during storms

- <https://www.coastalreview.org/2019/10/better-beach-data-goal-of-dunex-project/>

Scenic California Highway 1 from San Francisco to Half Moon Bay

- https://napavalleyregister.com/lifestyles/food-and-cooking/a-coastal-get-away-down-highway-to-half-moon-bay/article_089807ca-77ac-5332-89c7-a8d9307983ae.html

Bigger offshore wind power turbines may no longer receive subsidies in the UK

- <https://fortune.com/2019/10/07/offshore-wind-uk-auction-subsidies/>

Offshore winds in California prompt PG&E to possibly shut off power to 30 counties – public not happy

- <https://www.almanacnews.com/news/2019/10/07/offshore-wind-prompts-fire-watch-possible-pge-shutoffs>
- <https://www.msn.com/en-us/news/us/pgande-faces-anger-mistrust-over-power-outages-it-is-excessive/ar-AAIweNt>

Winds continue to hamper offshore fishing in Florida waters

- <https://www.tcpalm.com/story/sports/fishing-boating/2019/10/07/winds-hamper-offshore-fishing-snook-and-tarpon-inshore/3898403002/>

Warning: Next offshore oil spill in California will be caused by state war on oil

- <https://www.forbes.com/sites/chuckdevore/2019/10/07/californias-next-offshore-oil-spill-will-be-caused-ironically-by-the-states-war-on-oil/#68871bf76535>

German river-cruise ship collided with cargo ship – 5 injured – substantial damage

- <https://www.msn.com/en-us/news/world/five-people-hurt-and-cabins-torn-open-after-cruise-ship-collision/ar-AAIsr0D>

So many people to feed – expecting aquaculture will provide enough

- <https://eos.org/editor-highlights/seafood-farming-a-key-to-future-global-food-security>
- Paper: <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019GH000204>

Coastal acoustic tomography (CAT) system of propagating internal solitary waves in Indonesian Strait

- <https://eos.org/editor-highlights/cat-pictures-of-internal-solitary-waves-in-indonesian-strait>

Oceanium – amateur divers in Senegal who are removing hundreds of kilos of plastic rubbish

- http://www.terradaily.com/reports/Divers_fight_Senegals_plastic_tide_999.html

Family on vacation on Fripp Island Beach in South Carolina finds \$0.6M worth of cocaine

- <https://www.msn.com/en-us/news/us/south-carolina-beach-vacationers-find-cocaine-shipment-worth-over-half-a-million-police-say/ar-AAIvnFj>

First floating nuclear power plant dubbed “Chernobyl on ice” had docked near Alaska

- <https://www.msn.com/en-us/news/world/russias-first-floating-nuclear-power-plant-which-activists-dubbed-chernobyl-on-ice-has-docked-near-alaska-photos-show-its-journey/ss-AAHPAX6>
- <https://www.businessinsider.com/russia-floating-nuclear-plant-chernobyl-environmental-concerns-2019-8>

Concerns that sediments in Grand Canal could be polluted – toxic if spread after dredging

- <https://www.msn.com/en-us/news/us/some-fear-old-military-chemicals-could-get-dredged-up-from-grand-canal/ar-AAIDYx6>