

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 – 27 May 2019 – compiled by Elaine J. Hanford**

Following pulses of sediment laden water as turbidity currents move toward continental slope

- <https://eos.org/features/mud-on-the-move>

National Academies Committee to develop research agenda to assess geoengineering strategies

- <https://eos.org/articles/study-will-examine-risks-and-benefits-of-climate-interventions>

Small-scale collisions between pools of cold air may play important role in thunderstorm clustering

- <https://eos.org/research-spotlights/can-patches-of-cold-air-cause-thunderstorms-to-cluster>

Simulating jet stream response to changes in climate

- <https://eos.org/research-spotlights/how-will-the-jet-stream-respond-to-future-warming>
- <https://eos.org/editor-highlights/polar-vortex-deformations-change-tidal-weather-in-the-mesosphere>

Geohazards Field Station – simulate volcanic eruptions at former ballistics test site

- <https://www.npr.org/2019/05/21/724994967/to-safely-study-volcanoes-scientists-bring-the-blast-to-them>

X-rays reveal colors of 3 myo fossil mouse using false color synchrotron image

- <https://arstechnica.com/science/2019/05/x-rays-reveal-the-colors-of-a-3-million-year-old-fossil-mouse/>

New study focuses on influence of natural causes on temperatures of the last century

- <https://arstechnica.com/science/2019/05/explaining-the-ups-and-downs-of-20th-century-temperatures/>

Hurricane season begins officially on 1<sup>st</sup> of June – named storm has formed “early” in the Atlantic

- <https://arstechnica.com/science/2019/05/for-the-fifth-year-in-a-row-a-named-storm-has-formed-early-in-the-atlantic/>

Such hubris!!! “Wandering Earth” explains how humans could change orbit of the planet

- <https://arstechnica.com/science/2019/05/wandering-earth-rocket-scientist-explains-how-we-could-move-our-planet/>
- <https://theconversation.com/wandering-earth-rocket-scientist-explains-how-we-could-move-our-planet-116365>

Turning to drones to predict avalanches, mudslides & water runoff

- <https://www.apnews.com/47661ce735874125860ecf216c27adab>

Active low-angle normal fault reveals rolling-hinge mechanism as metamorphic core complex is exhumed in Papua New Guinea

- <https://eos.org/editor-highlights/low-angle-normal-fault-in-papua-new-guinea-is-rolling-along>

Recognizing the nonlinear systems in the geosciences

- <https://eos.org/research-spotlights/celebrating-a-century-of-nonlinearity-across-the-geosciences>

Atacama Desert holds densest collection of meteorites in the world

- [https://www.eurekalert.org/pub\\_releases/2019-05/gsoa-omc052319.php](https://www.eurekalert.org/pub_releases/2019-05/gsoa-omc052319.php)

Dormant stratovolcano Aluto in Rift Valley of Ethiopia last erupted 2,000 years ago as pumice cone

- [https://www.eurekalert.org/pub\\_releases/2019-05/gsoa-omc052319.php](https://www.eurekalert.org/pub_releases/2019-05/gsoa-omc052319.php)

New insight into origin of Canadian Rockies

- <https://phys.org/news/2019-05-insight-canadian-rockies.html>

Geo-forensics – solving crimes with geology

- <https://eandt.theiet.org/content/articles/2019/05/solving-crimes-with-geology/>

Largest offshore volcanic event in recorded history near the island of Mayotte

- <https://www.popularmechanics.com/science/environment/a27556654/underwater-volcano-source/>

Plaque to mark status of Charles Lapworth as pioneering geologist in Scotland

- <https://www.thesouthernreporter.co.uk/news/people/plaque-put-up-to-mark-galashiels-headmaster-s-status-as-pioneering-geologist-1-4932682>

Modern zooplankton (foraminifera) communities differ systematically from pre-industrial counterparts

- <https://natureecoevocommunity.nature.com/users/260397-lukas-jonkers/posts/49174-fossil-zooplankton-shows-that-marine-ecosystems-have-entered-the-anthropocene>

US forecasters predict “near normal” Atlantic hurricane season for 2019 – 2 to 4 major hurricanes

- <https://phys.org/news/2019-05-atlantic-hurricane-season.html>

Assessment of NASA record of global temperature accurate to “within less than tenth of a degree F”

- <https://phys.org/news/2019-05-confidence-nasa-earth-temperature.html>

GOT map reveals plate tectonic reconstruction of the 7 Kingdoms

- <https://www.inverse.com/article/55992-moving-game-of-thrones-map-geology-tectonic-plates-continent-westeros-essos>

Ida Slater was one of first women paleontologist in London – pioneering research and thought

- <https://www.nhm.ac.uk/discover/ida-slater-a-geologist-ahead-of-her-time.html>

Book Review: “The Blues” – ode to the geology of the Blue Mountains in Pacific Northwest

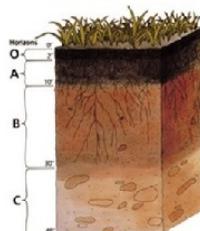
- [https://www.eastoregonian.com/sports/outside/book-review-natural-history-book-an-ode-to-the-geology/article\\_ef0497ac-76c0-11e9-96d6-0ba8de552642.html](https://www.eastoregonian.com/sports/outside/book-review-natural-history-book-an-ode-to-the-geology/article_ef0497ac-76c0-11e9-96d6-0ba8de552642.html)

Proceeds will fund exploration & drilling programs of Babine Copper-Gold Porphyry projects

- <https://www.geologyforinvestors.com/pacific-empire-minerals-closes-oversubscribed-private-placement/>

William “Bill” Mathews – pioneering Canadian geologist & the Sea-to-Sky geology

- <https://www.piquenewsmagazine.com/whistler/naturespeak-bill-mathews-giant-of-sea-to-sky-geology/Content?oid=13827175>



## Environmental Science Bulletin Board – 27 May 2019 – compiled by Elaine J. Hanford

No time to forget about potential for exposure to rabies – Norwegian woman dies after puppy bite while on vacation in the Philippines

- <https://www.bbc.com/news/world-europe-48226676>

Opting for no children should be because of overpopulation & damage to planet – not “climate fear”

- <https://www.msn.com/en-us/news/world/feature-a-new-climate-strike-opting-for-no-children-as-climate-fears-grow/ar-AABf5KA>

John Wesley Powell argued for “smart development” in the Western US – careful, democratic management of water resources

- <https://eos.org/features/green-and-grand-john-wesley-powell-and-the-west-that-wasnt>
- <http://www.inkstain.net/fleck/2019/05/john-wesley-powell-at-150-how-can-we-tell-better-stories/>

Texas fever ticks identified in Webb County outside permanent quarantine zone

- <https://www.drovers.com/article/fever-ticks-confirmed-outside-texas-permanent-quarantine-zone>
- [https://www.tahc.texas.gov/news/2019/2019-05-15\\_FeverTicks\\_Webb.pdf](https://www.tahc.texas.gov/news/2019/2019-05-15_FeverTicks_Webb.pdf)

WHO still spends massive amounts of money on travel – misconduct probe

- <https://www.msn.com/en-us/news/world/ap-exclusive-un-health-agency-struggles-with-travel-abuses/ar-AABD5OA>

If high-risk Prado Dam fails, Disneyland could be flooded in southern California

- <https://ktla.com/2019/05/17/engineers-deem-78-year-old-prado-dam-a-high-urgency-risk-breach-could-flood-disneyland/>
- <https://www.govtech.com/em/preparedness/Disneyland-Dozens-of-Cities-Could-be-Flooded-by-Dam-Failure-From-Storm-Engineers-Warn.html>

Perspective: Greatest threat to the planet is not “global warming” – it is soil erosion

- <https://theecologist.org/2019/may/23/soil-erosion-greatest-threat-planet>

Perspective: environmental legacy of the Vietnam War

- <http://www.lawyersgunsmoneyblog.com/2019/05/the-vietnams-war-environmental-legacy>

Drought in Panama linked to El Niño has impact on canal and shipping

- <https://www.msn.com/en-us/weather/topstories/what-panamas-worst-drought-means-for-its-canals-future/ar-AABvk2b>

Comprehensive socio-economic & environmental ranking of all 50 States – Washington State is #1

- <https://www.usnews.com/news/best-states/rankings>

Bonnet Carré Spillway - physics of Mississippi River flood control

- <https://www.wired.com/story/the-physics-of-mississippi-flood-control/>

Cut-off wall being installed as part of repairs to TVA Boon Dam

- <https://www.johnsoncitypress.com/Local/2019/05/17/Crews-prepare-to-construct-cut-off-wall-at-Boone-Dam.html>

USPS issued new set of Forever stamps representing US National Wild & Scenic River System

- <https://eos.org/articles/new-stamps-tell-a-wild-and-scenic-river-story>

Farm ponds act as sinks to sequester nitrous oxide

- <https://eos.org/articles/farm-ponds-sequester-greenhouse-gases>

New legislation would establish national system of wildlife corridors – Wildlife Corridor Act of 2019

- <https://eos.org/articles/bill-would-create-a-wildlife-corridors-system-to-protect-species>
- RYA19237: <https://www.tomudall.senate.gov/imo/media/doc/FINALBILLTEXT-WILDLIFE-CORRIDOR19.pdf>

Tornado warnings not adequate to prepare mobile home residents

- <https://eos.org/articles/tornado-warnings-dont-adequately-prepare-mobile-home-residents>

New study to assess how climatic factors impact life span & distribution of PCBs in ocean

- <https://eos.org/research-spotlights/a-look-at-how-long-banned-pcbs-persist-in-the-ocean>

Killer whale cull two decades ago has had long lasting impact on population in Southern Ocean

- <https://www.canberratimes.com.au/story/6147707/killer-whale-cull-felt-20-years-later/>

“Global warming policy” did not work before so why revive it?

- [https://www.huffpost.com/entry/biden-climate\\_n\\_5cd5a008e4b0705e47db6ac2](https://www.huffpost.com/entry/biden-climate_n_5cd5a008e4b0705e47db6ac2)

Waters of most polluted stream in Europe could be used as pesticide

- <https://www.treehugger.com/clean-water/pretty-stream-belgium-so-polluted-its-water-could-be-used-pesticide.html>
- Map of sampling sites: [https://ars.els-cdn.com/content/image/1-s2.0-S0048969719311969-ga1\\_lrg.jpg](https://ars.els-cdn.com/content/image/1-s2.0-S0048969719311969-ga1_lrg.jpg)

Isle of Capri bans single-use plastics

- <https://www.treehugger.com/plastic/italian-island-capri-bans-all-single-use-plastics.html>

Human resilience & ecological resistance in “tear gas capital of the world” – Bethlehem, West Bank

- <https://www.ehn.org/human-resilience-and-ecological-resistance-in-the-tear-gas-capital-of-the-world-2637002101.html>

Next trial over safety of Roundup herbicide will begin in August in St. Louis, Missouri

- <https://www.ehn.org/monsanto-trial-in-st-louis-on-roundup-2637374300.html>

US FDA allowed secret log of 50,000 malfunction incidents of faulty implantable heart device

- <https://arstechnica.com/science/2019/05/fda-safety-scandal-50k-hidden-reports-of-heart-device-malfunctioning/>

Epidemic of HPV in men – 11 million infected with cancer-causing virus – HPV & other STIs

- <https://www.msn.com/en-us/health/video/study-reveals-11-million-men-are-infected-with-cancer-linked-hpv-and-dont-know-it/vi-BBO0tYP>
- <https://www.apnews.com/Business%20Wire/a306afc8e202449a904c6dec6d7f60bb>
- <https://www.thesun.co.uk/sun-men/9121320/stis-chafing-itchy-testicles/>

Making industrial chemicals “green” (i.e., fewer emissions) will require a lot of electricity

- <https://arstechnica.com/science/2019/05/does-it-help-to-make-industrial-chemicals-with-captured-co2-sometimes/>

Canada raided & shut down Saint-Edouard Zoo – owner faces charges of cruelty & neglect

- <https://globalnews.ca/news/5297091/animals-seized-quebec-zoo-owner-charged-cruelty-neglect/>
- <https://www.cbc.ca/news/canada/montreal/st-edouard-zoo-normand-trahan-1.5143106>

Guidelines for being an ethical wildlife tourist

- <https://www.nationalgeographic.com/travel/lists/activities/how-to-do-wildlife-tourism-right/>

Historic wilderness lodges are “perfect” way to see National Parks across North America

- <https://www.nationalgeographic.com/travel/destinations/north-america/why-to-visit-these-historic-lodges-in-national-parks/>

California sues to keep \$929M of your tax dollars for failing high-speed rail project

- <https://www.apnews.com/eab3e5e3d0504547b6456eb3c62509b9>

Orlando, Florida, asks consultants for help crafting smart city vision & strategy

- <https://www.govtech.com/smart-cities/Orlando-Asks-Consultants-for-Help-Crafting-Smart-City-Vision.html>

GOT portrayal of dire wolves has bad consequences for Huskies

- <https://www.nationalgeographic.com/animals/2019/05/game-of-thrones-dire-wolf-fans-buying-huskies/>

Racing provides human entertainment but is dangerous for horses – 500 died in 2018

- <https://www.nationalgeographic.com/animals/2019/05/horse-racing-risks-deaths-sport/>

Respectful relationship between one human and grizzly bears

- <https://www.nationalgeographic.com/animals/2019/05/saving-yellowstone-grizzly-bears-doug-peacock/>

The tortoises of Aldabra Atoll

- <https://www.nationalgeographic.com/magazine/2019/06/thomas-peschak-photographs-tortoises-on-aldabra-atoll-seychelles/>

Texas to spend \$3B on flood control in wake of Hurricane Harvey – will it do any good?

- <https://www.texastribune.org/2019/05/16/texas-house-passes-bills-to-help-pay-for-flood-projects-statewide/>

National Park visitors contributed \$40B to 2018 US Economy

- <https://www.doi.gov/pressreleases/national-park-visitor-spending-contributed-40-billion-us-economy>

Civil engineers think they can save the world through resilience planning

- <https://www.autodesk.com/redshift/resilience-planning/>

Desert hydropower plant (isn't that an oxymoron?) remains controversial

- <https://www.desertsun.com/story/tech/science/energy/2018/08/24/california-could-bail-out-eagle-mountain-hydropower-joshua-tree/1075441002/>

Can nuclear cleanups be “quick” – what are the risks?

- <https://www.apnews.com/651923b9359b4d64a807aa677999dc03>

Earthquakes or tiger attacks – what people fear the most might reduce disasters

- <http://theconversation.com/earthquakes-or-tiger-attacks-understanding-what-people-fear-most-can-help-prevent-disasters-117137>

Conservation goals compete at expense of biodiversity on multiple scales & worldwide ecosystem

- <https://phys.org/news/2019-05-goals-expense-biodiversity.html>



**Coastal Zone Management Bulletin Board – 27 May 2019 – compiled by Elaine J. Hanford**

Hydropower dams degrade water quality & can have harm coastal areas far downstream

- <https://www.ecowatch.com/hydropower-dams-environmental-problems-2637609622.html>

Study to assess Kure Beach potential for dune infiltration system to reduce stormwater discharge from the town into the ocean

- <https://www.coastalreview.org/2019/05/towns-eye-dune-systems-for-stormwater/>

Considering airfoil boat as alternative transportation between African coastal cities

- <https://www.maritime-executive.com/editorials/a-future-option-for-african-fast-intercity-coastal-transportation>

Texas coastal barrier would prevent major economic losses – but at what cost?

- <https://www.chron.com/local/article/Study-Texas-coastal-barrier-would-prevent-major-13866968.php>

Bangladesh temporarily bans coastal fishing to improve fishing stocks – demonstrators protest

- <https://www.bbc.com/news/world-asia-48335509>
- <https://www.globalcitizen.org/en/content/bangladesh-bans-fishing/>
- <https://ph.news.yahoo.com/protests-bangladesh-slaps-two-month-ban-shallow-water-140426271.html>

“Best” coastal towns – top 3

- <https://www.cincinnati.com/story/news/2019/05/20/sandusky-is-best-coastal-small-town-in-the-u-s-survey-says/3738867002/>
- <https://kristv.com/news/local-news/2019/05/20/rockport-rated-2-in-best-coastal-small-town-in-the-u-s/>
- <https://www.delmarvanow.com/story/news/2019/05/21/chincoteague-among-top-3-coastal-small-towns-usa-today/3751679002/>

New app shows where & when water is safe for swimming

- <https://www.delmarvanow.com/story/news/local/maryland/2019/05/20/assateague-coastal-trust-swim-guide-program/3719050002/>

Global warming alarmism: ocean could rise over 6 feet by 2100 swamping coastal cities

- <https://www.usatoday.com/story/news/nation/2019/05/20/sea-level-rise-rising-oceans-could-swamp-coastal-cities-worldwide/3742291002/>
- Paper: <https://www.pnas.org/content/early/2019/05/14/1817205116>

High levels of five pharmaceutical drugs found in Humber estuary

- <https://phys.org/news/2019-05-high-pharmaceuticals-humber-estuary.html>

Heavy precipitation & runoff in 2018 caused decline in health of Chesapeake Bay

- <https://www.apnews.com/41f27d25ebca4aba82e7271fa1bcf1c9>
- <https://www.baltimoresun.com/news/maryland/environment/bs-md-chesapeake-umces-report-card-20190521-story.html>

US Army COE begins increased releases into Caloosahatchee Estuary

- <https://www.nbc-2.com/story/40495695/army-corps-of-engineers-increased-releases-into-the-caloosahatchee-this-weekend>

10-foot great white shark spotted in Long Island Sound

- <https://ktla.com/2019/05/21/10-foot-great-white-shark-spotted-in-long-island-sound-among-first-ever-tracked-in-area/>

Mexican raw oysters from Estero El Cardon estuary recalled after gastrointestinal illness reported in US

- <https://www.seafoodsource.com/news/food-safety-health/mexican-raw-oysters-recalled-after-gastrointestinal-illnesses-reported-in-us>

Otters have re-emerged in Kadalundi Estuary

- <https://www.thehindu.com/news/national/kerala/otters-re-emerge-in-kadalundi-estuary/article27120138.ece>

Purple martin population recovers in Squamish Estuary

- <https://www.squamishchief.com/purple-martins-in-the-squamish-estuary-1.23827591>

New model improves prediction of wave wash overs for sea turtle nests – 83% accuracy

- <https://eos.org/articles/predicting-wave-wash-overs-for-sea-turtle-nests>

Historic solutions to sea level rise might help modern coastal communities

- <https://eos.org/articles/historic-solutions-to-sea-level-rise-may-help-modern-communities>

Indonesian tsunami of 2018 reconstructed using surveillance camera footage & social media

- <https://www.nature.com/articles/d41586-019-01544-5>

Fake tsunami warning in Solomon Islands sparked panic in Honiara

- <https://www.abc.net.au/radio-australia/programs/pacificbeat/fake-tsunami-warning-sparks-panic-in-honiara/11140902>

White sand of Kailua selected as best US beach

- <https://phys.org/news/2019-05-white-sands-oahu-kailua-beach.html>