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**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](https://eos.org/features/mud-on-the-move)

National Academies Committee to develop research agenda to assess geoengineering strategies

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](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/research-spotlights/how-will-the-jet-stream-respond-to-future-warming)

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

X-rays veal 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/](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
Hurricane season begins officially on 1st of June – named storm has formed “early” in the Atlantic

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

Turning to drones to predict avalanches, mudslides & water runoff

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

Recognizing the nonlinear systems in the geosciences

Atacama Desert holds densest collection of meteorites in the world

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

New insight into origin of Canadian Rockies

Geo-forensics – solving crimes with geology

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

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

Modern zooplankton (foraminifera) communities differ systematically from pre-industrial counterparts
US forecasters predict “near normal” Atlantic hurricane season for 2019 – 2 to 4 major hurricanes

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

GOT map reveals plate tectonic reconstruction of the 7 Kingdoms

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

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

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

John Wesley Powell argued for “smart development” in the Western US – careful, democratic management of water resources
  
  
  •  [http://www.inkstain.net/fleck/2019/05/john-wesley-powell-at-150-how-can-we-tell-better-stories/](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
  
  

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

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

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

Perspective: environmental legacy of the Vietnam War
  
  •  [http://www.lawyersgunsmoneyblog.com/2019/05/the-vietnams-war-environmental-legacy](http://www.lawyersgunsmoneyblog.com/2019/05/the-vietnams-war-environmental-legacy)

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

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

Bonnet Carré Spillway - physics of Mississippi River 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

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-pcb-s-persist-in-the-ocean

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

“Global warming policy” did not work before so why revive it?
  • https://www.huffpost.com/entry/biden-climate_n_5cd5a008e4b0705e47db6ac2

Waters of most polluted stream in Europe could be used as pesticide
  • Map of sampling sites: https://ars.els-cdn.com/content/image/1-s2.0-S0048969719311969-ga1_lrg.jpg

Isle of Capri bans single-use plastics

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

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 devide

Epidemic of HPV in men – 11 million infected with cancer-causing virus – HPV & other STIs
- [https://www.apnews.com/Business%20Wire/a306afc8e202449a904c6dec6d7f60bb](https://www.apnews.com/Business%20Wire/a306afc8e202449a904c6dec6d7f60bb)
- [https://www.thesun.co.uk/sun-men/9121320/stis-chafing-itchy-testicles/](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

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

Guidelines for being an ethical wildlife tourist

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

California sues to keep $929M of your tax dollars for failing high-speed rail project
- [https://www.apnews.com/eab3e5e3d0504547b6456eb3c62509b9](https://www.apnews.com/eab3e5e3d0504547b6456eb3c62509b9)

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

GOT portrayal of dire wolves has bad consequences for Huskies

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

Respectful relationship between one human and grizzly bears

The tortoises of Aldabra Atoll

Texas to spend $3B on flood control in wake of Hurricane Harvey – will it do any good?
National Park visitors contributed $40B to 2018 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

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

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
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


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


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


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


New app shows where & when water is safe for swimming


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


Paper: https://www.pnas.org/content/early/2019/05/14/1817205116

High levels of five pharmaceutical drugs found in Humber estuary


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

https://www.apnews.com/41f27d25ebca4aba82e7271fa1bcf1c9


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

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

Otters have re-emerged in Kadalundi Estuary

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

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