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Geoscience Bulletin Board – 19 November 2018 – compiled by Elaine J. Hanford

Large rock hills deep below glaciers can cause channels on ice surface

- <http://www.imperial.ac.uk/news/188811/cause-long-potentially-damaging-channels-antarctic/>

What if the ocean froze over again?

- <https://www.sciencefocus.com/planet-earth/the-thought-experiment-what-would-happen-if-the-ocean-froze-over/>

Diamond drill-hole cores confirm geological model at Sagola-Baoule & Boumou prospects in Mali

- <http://www.miningweekly.com/article/diamond-core-intersections-confirm-geological-model-at-kodals-mali-project-2018-11-13>

Above-anvil cirrus cloud plumes are important severe weather indicator

- <https://blogs.agu.org/wildwildscience/2018/11/13/the-cloud-that-appears-on-top-of-the-most-dangerous-storms/>

Two years after M7.8 Kaikoura EQ – shattered rock poses significant rockslide hazard

- <https://www.stuff.co.nz/national/108555336/.html>

WWI bombs shattered bedrock and changed geological history

- <https://www.forbes.com/sites/davidbressan/2018/11/11/how-wwi-bombs-shattered-bedrock-and-changed-geological-history/#55c6429e3a31>

If an asteroid were headed for Earth – do not call Bruce Willis to save us

- <https://www.cincinnati.com/story/entertainment/2018/11/13/meteors-meteorites-asteroids-how-save-earth-armageddon/1980609002/>

Dust storms like this are common in the desert

- <https://www.canberratimes.com.au/environment/weather/huge-wall-of-dust-sweeps-across-western-nsw-20181107-p50en0.html>

90-minute video of Earth in orbit in real time

- <https://www.treehugger.com/natural-sciences/video-orbiting-earth-real-time.html>

Hurricane Florence precipitation set at least 28 flood records in the Carolinas

- <https://www.usgs.gov/news/usgs-florence-set-least-28-flood-records-carolinas>
- USGS Report: <https://pubs.er.usgs.gov/publication/ofr20181172>

Mirarce eatoni – Late Cretaceous bird lived among dinosaurs & was strong flyer

- <http://www.sci-news.com/paleontology/mirarce-eatoni-enantiornithine-strong-flier-06602.html>
- <https://www.sciencedaily.com/releases/2018/11/181113080908.htm>

Modern birds inherited egg color from non-avian dinosaur ancestors

- <http://www.sci-news.com/paleontology/colored-dinosaur-eggs-06567.html>

New theory on the origin of water on Earth

- http://www.terradaily.com/reports/Scientists_theorize_new_origin_story_for_Earths_water_999.html

Planetary geologists apply knowledge of our volcanoes to evolution of life & the solar system

- http://www.terradaily.com/reports/How_Earth_volcanoes_offer_a_window_into_the_evolution_of_life_and_the_solar_system_999.html

Dust transported from deserts of the Middle East to the Tibetan Plateau could impact Indian summer monsoon

- <https://phys.org/news/2018-11-middle-eastern-tibetan-plateau-affect.html>

Travels in Geology: Monti Sibillini National Park in the Apennines of Italy

- <https://www.earthmagazine.org/article/travels-geology-jewel-apennines-italys-monti-sibillini-national-park>

Using double-frequency ground penetrating radar to measure ice accumulation

- <https://sciencetrends.com/using-double-frequency-ground-penetrating-radar-to-measure-ice-accumulation/>

Slow-motion collisions of tectonic plates drag three times more water deep into the marine subduction zones

- <https://phys.org/news/2018-11-seismic-reveals-huge-amount-earth.html>

Understanding fracking & why it is controversial

- <https://metro.co.uk/2018/11/14/what-is-fracking-and-why-is-it-controversial-8139011/>

High geothermal heat measured at the South Pole – locally melting base of Antarctic Ice Sheet

- <https://phys.org/news/2018-11-discovery-high-geothermal-south-pole.html>

Increasing ship traffic in the Arctic puts narwhals and other species at risk

- <http://www.earthisland.org/journal/index.php/articles/entry/increasing-arctic-ship-traffic-narwhals-species-risk/>

Cataclysmic eruptions in Iceland plunged Europe into the darkest year of the Dark Ages

- <https://www.sciencemag.org/news/2018/11/why-536-was-worst-year-be-alive>

Any particular place in the world gets half its annual precipitation on average in just 12 days

- <https://www.sciencemag.org/news/2018/11/just-12-days-world-gets-half-its-annual-rainfall>

31-km side impact crater discovered beneath Greenland ice sheet

- <https://www.sciencemag.org/news/2018/11/massive-crater-under-greenland-s-ice-points-climate-altering-impact-time-humans>
- <https://www.arctictoday.com/researchers-huge-recent-meteorite-crater-beneath-greenlands-ice-sheet/>
- Paper: <http://advances.sciencemag.org/content/4/11/eaar8173>

Seismic records reveal intensity of shaking from wind and waves in Newfoundland

- <https://www.cbc.ca/news/canada/newfoundland-labrador/seismic-records-wind-storm-shake-1.4908372>

Photo-essay: the aftermath of the Jinsha River landslide in Tibet

- <https://blogs.agu.org/landslideblog/2018/11/16/jinsha-river-landslide-2/>

Need an analogy for an asteroid hitting the ocean? Try paintballs

- <https://www.skyandtelescope.com/astronomy-news/paintballs-clarify-what-happens-when-an-asteroid-hits-earths-ocean/>

Recognizing volcanic eruption patterns of Campi Flegrei super-volcano in Italy

- <https://www.smithsonianmag.com/smart-news/eruptions-italian-supervolcano-seem-follow-pattern-180970834/>

Everything impacts everything else – connections among climate, life & plate tectonics

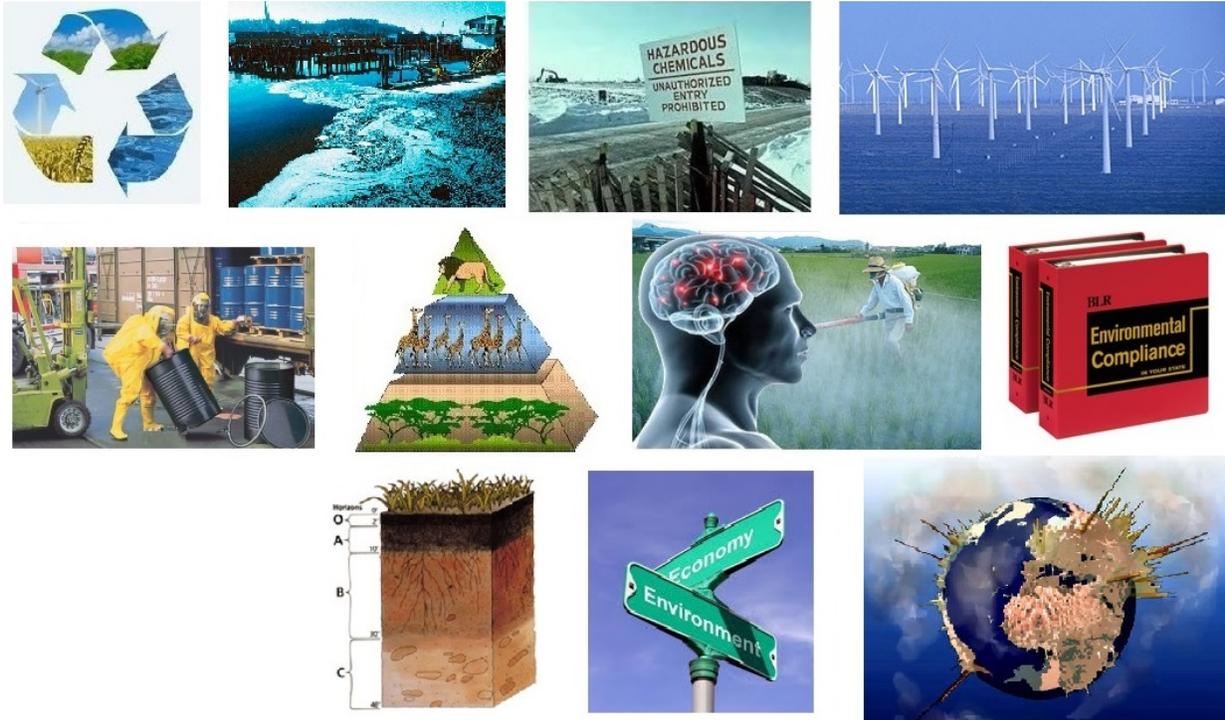
- https://www.eurekalert.org/pub_releases/2018-11/uota-nsr111518.php

Seismic context measurements for fracking-induced seismicity

- <https://phys.org/news/2018-11-seismic-context-seismicity.html>

First automated volcano forecast predicts eruptions of Mount Etna

- <https://www.nature.com/articles/d41586-018-07420-y>



Environmental Science Bulletin Board – 19 November 2018 – compiled by Elaine J. Hanford

Implications of the potential failure of Prestonwood Lake Dam in Arlington, Texas

- <https://www.dallasobserver.com/news/failing-little-dam-in-arlington-points-to-big-dam-problems-for-texas-11323003>

No surprise here – social media use increases depression & anxiety

- <https://penntoday.upenn.edu/news/social-media-use-increases-depression-and-loneliness>

Militarization of the US-Mexico Border to protect our country & citizens is not a new idea

- <https://historynewsnetwork.org/article/170423>

Proposing new pipelines from North Dakota & Oklahoma to Texas Gulf Coast

- <https://www.chron.com/business/energy/article/Phillips-66-proposes-new-pipelines-to-Texas-Gulf-13377749.php>

2018 International Green Construction Code released

- <https://www.contractormag.com/codes/groundbreaking-model-code-green-construction-released>

African swine fever reported in Chinese feed supply

- <https://www.porkbusiness.com/article/african-swine-fever-reported-chinese-feed-supply>

Antibiotic stewardship means more responsible use in pigs and better health for humans

- <http://kticradio.com/agricultural/antibiotic-stewardship-a-conscious-choice-for-u-s-pig-farmers/>

Record of Decision based on ecological impacts of Outer Banks bridge delayed yet again

- <http://www.reflector.com/News/2018/11/13/ROD-of-decision-on-Mid-Currituck-Bridge-still-not-ready.html>

Perspective: Technology for technology sake is not necessarily a good thing

- <http://www.reflector.com/News/2018/11/13/ROD-of-decision-on-Mid-Currituck-Bridge-still-not-ready.html>

If zero-carbon is a good thing, then can it be mandated through building codes?

- <https://www.greenbiz.com/article/paving-way-zero-carbon-cities-through-building-codes>

PSC hearings on failed nuclear power project in Fairfield County, South Carolina

- <https://www.thestate.com/news/state/south-carolina/article221535720.html>

How to feed the world population sustainably? Norman Borlaug would likely call it an exercise in futility

- <https://www.imperial.ac.uk/news/188846/how-feed-worlds-population-sustainably/>

Who pays the costs of human-induced EQs in Oklahoma caused by wastewater injection?

- <https://whowhatwhy.org/2018/11/13/who-pays-the-price-of-oklahomas-man-made-earthquakes/>

State of Maine to release real-time data on tick-borne diseases

- <http://bangordailynews.com/2018/11/09/outdoors/state-releases-real-time-data-on-tickborne-diseases/>
- <https://www.maine.gov/dhhs/mecdc/infectious-disease/epi/vector-borne/lyme/> select tracking network

Water managers & urban planners develop plan for building water-efficient cities

- <https://www.hpac.com/engineering-green-buildings/ua-led-report-building-water-efficient-cities-requires-collaboration>
- Report: <http://www.waterrf.org/PublicReportLibrary/4853.pdf>

Raising height of Warragamba Dam will likely have significant impacts on threatened species

- <https://www.canberratimes.com.au/environment/conservation/significant-impacts-federal-government-issues-warragamba-wall-alert-20181112-p50fic.html>

NSW Government criticized by academics for protecting brumbies from being culled

- <https://www.canberratimes.com.au/environment/sustainability/top-scientists-blast-nsw-government-over-brumbies-20181108-p50etv.html>

Alternatives to plastic for packaging? A return to paper and cardboard

- <https://www.npr.org/2018/11/04/660299276/beyond-plastic-bans-creating-products-to-replace-it>

Elephants evolving to defend against ivory poachers

- <https://www.treehugger.com/animals/plot-twist-elephants-come-foolproof-way-survive-ivory-poachers.html>

Agriculture be sustained by legislation? – over-production, biofuels, subsidies, chemicals

- <https://www.ehn.org/need-climate-resilient-farm-bill-2619346466.html>

Where exactly is all the millions of tons of plastic that enters the ocean each year?

- https://www.huffingtonpost.com/entry/ocean-plastic-mystery_us_5be6e909e4b0769d24cdc309

Linking climate change (i.e., global warming) to loss of fertility that may lead to extinction

- <https://www.dw.com/en/climate-change-reduces-male-fertility-could-help-drive-extinction/a-46276058>

Perspective: An estimated 40,000 people die from asbestos exposure each year

- https://missoulian.com/opinion/columnists/allowing-asbestos-to-continue-to-kill/article_ee79f342-45be-5798-b9ea-86b5a3b1e31b.html

Conventional trend analysis overlooks precipitation trends and associated risks

- <https://phys.org/news/2018-11-overlooked-trends-annual-precipitation-reveal.html>

Where do microbes live? In your gut, on your skin, on surfaces....and in the air

- <https://arstechnica.com/science/2018/11/ahh-summer-ramlibacter-season/>
- <https://phys.org/news/2018-11-long-term-atmospheric-biome-fluctuates-season.html>

Hurricanes Michael & Florence may have spread non-native species

- <https://www.usgs.gov/news/how-hurricanes-michael-florence-may-have-spread-nonnative-species>

A better understanding of the role of water in the carbon cycle

- http://www.spacedaily.com/reports/Carbon_goes_with_the_flow_999.html

Unintended consequences of dams & reservoirs – may intensify droughts & water shortages

- <https://www.sciencedaily.com/releases/2018/11/181113141804.htm>

Alpine ice reveals levels of atmospheric iodine have tripled over past century

- <https://www.sciencedaily.com/releases/2018/11/181112191810.htm>

After 500 years, rainfall has been documented in the hyper-arid core of the Atacama Desert – many species died from excess water

- https://www.eurekalert.org/pub_releases/2018-11/snrc-tfr111418.php

A better understanding of the dynamics of phosphorus fertilizers in the soil

- https://www.eurekalert.org/pub_releases/2018-11/asoa-sha111318.php

Widespread application of xenobiotic pesticides and their degradation products can pose environmental risk at low doses

- <https://sciencetrends.com/at-low-doses-supposedly-non-phytotoxic-triazine-xenobiotics-disrupt-hormonal-regulations-in-a-stress-and-low-energy-dependent-manner/>

Washington State officials authorize two more wolf kills – may be counter-productive

- <https://www.earthfix.info/news/article/washington-wolf-kills-authorized-ranchers-cattle/>

Over-hunting cougars in Oregon may lead to more human-cougar conflicts

- <https://www.earthfix.info/news/article/cougar-overhunting-conflict-oregon/>

Urban sprawl in Houston, Texas, increased precipitation & flooding during Hurricanes

- <https://phys.org/news/2018-11-houston-urban-sprawl-rainfall-hurricane.html>
- <http://www.startribune.com/houston-skyscrapers-may-have-worsened-hurricane-harvey-rain/500504781/>

Plants colonize “new ground” following volcanic eruptions

- <https://www.forbes.com/sites/davidbressan/2016/11/13/volcanoes-as-field-laboratory-for-plant-colonization/#50de1d222324>

Were they this concerned earlier this summer when California wildfire smoke was causing unhealthy air quality in Oregon & Nevada?

- <https://news.usc.edu/151775/california-wildfires-raise-concerns-about-impacts-to-environment-and-health/>

Iran charged five environmentalists with National Security Crimes punishable by death

- <http://www.earthisland.org/journal/index.php/articles/entry/iran-charged-five-environmentalists-national-security-crimes>



Coastal Zone Management Bulletin Board – 19 November 2018 – compiled by Elaine J. Hanford

Warmer coastal waters hurt shellfish while aiding predators but should not mean humans can overfish

- <https://www.pressherald.com/2018/11/11/coastal-warming-hurting-shellfish-aiding-predators/>

Factors that impact coastal flooding

- https://www.pressofatlanticcity.com/weather/what-factors-impact-coastal-flooding/article_115f7cc1-c9e2-5c1b-b633-b50e1715e522.html

Perspective: Students need to be educated to appreciate coastal resources

- <https://www.timesrecord.com/articles/home-and-family/intertidal-educating-students-to-appreciate-our-coastal-treasures/>

Perspective: Louisiana must act fast to restore shrinking coastal lands – but can humans stop Nature?

- <http://www.louisianaweekly.com/la-must-act-fast-to-restore-shrinking-land-coastal-experts-warn/>

Woolsey Wildfire along the Malibu Coast in California – very limited containment

- <https://www.coastalliving.com/lifestyle/malibu-woolsey-wildfire-photos>

Bracing for oil spill from blowout to foul beaches along southern Australian coasts

- <https://www.canberratimes.com.au/environment/conservation/catastrophe-bight-oil-spill-could-reach-nsw-coast-leaked-report-shows-20181114-p50fyi.html>
- OPEP: <https://www.greenpeace.org.au/wp/wp-content/uploads/2018/11/Equinor-OPEP.pdf>

African islands want help in coping with health impacts – worsening nutrition & mosquito-borne disease

- <https://www.canberratimes.com.au/environment/climate-change/african-islands-send-sos-as-climate-change-worsens-health-20181109-p50ex5.html>

Federal court ruling may lead to strict limits on use of drift gillnets in California

- <https://www.npr.org/sections/thesalt/2018/11/08/664549220/california-may-soon-unravel-controversial-nets-used-to-harvest-swordfish>

Caribbean coast is awash with tons of sargassum seaweed

- <https://www.dw.com/en/a-caribbean-nightmare-an-onslaught-of-slimy-brown-seaweed/a-46168371>

In Chile, mining waste continues to be dumped into coastal waters

- <https://news.mongabay.com/2018/11/chile-mining-waste-continues-to-be-expelled-into-the-sea/>

A multitude of reasons to protect sea grass

- <https://www.popsci.com/oceans-losing-seagrass-carbon-sink>

Hundreds of derelict boats remain washed ashore in the wake of Hurricane Florence

- <https://www.coastalreview.org/2018/11/hundreds-of-derelict-boats-left-storms-wake/>

US Federal judge bans fracking off the coast of California

- <http://ens-newswire.com/2018/11/12/federal-judge-bans-fracking-off-california-coast/>

Perspective: Red tides are an unwelcome reminder that water quality is important

- <https://www.sun-sentinel.com/opinion/editorials/fl-op-col-giatinna-pollution-20181112-story.html>

Next generation “may never see the glory of coral reefs”

- <https://www.theguardian.com/environment/2018/nov/11/next-generation-may-never-see-coral-reefs>

New 10-year \$2.7B “framework agreement” opens coastal waters of Madagascar to hundreds of Chinese fishing vessels – to promote economy but no environmental assessment

- <http://www.earthisland.org/journal/index.php/articles/entry/deal-opens-madagascar-hundreds-chinese-fishing-vessels>

Oil spill triggered in 2004 by mudslide during Hurricane Ivan continues to leak oil into Gulf of Mexico

- https://www.washingtonpost.com/national/health-science/a-14-year-long-oil-spill-in-the-gulf-of-mexico-verges-on-becoming-one-of-the-worst-in-us-history/2018/10/20/f9a66fd0-9045-11e8-bcd5-9d911c784c38_story.html?utm_term=.4f4c452a12da

Senate passes measure requiring USEPA to set regulations on treating ballast water before entering the Great Lakes to inhibit invasive species

- <https://www.jsoonline.com/story/news/special-reports/great-lakes/2018/11/14/great-lakes-senate-oks-bill-curb-invasive-species-ballast-water/2004796002/>

More global warming alarmism – problems in Florida are not due to “rising sea level” but rather due to human actions

- <https://www.miamiherald.com/news/local/environment/article221677295.html>