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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

What if the ocean froze over again?

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

Above-anvil cirrus cloud plumes are important severe weather indicator

Two years after M7.8 Kaikoura EQ – shattered rock poses significant rockslide hazard
- https://www.stuff.co.nz/national/108555336/.html

WWI bombs shredded bedrock and changed geological history

If an asteroid were headed for Earth – do not call Bruce Willis to save us
Dust storms like this are common in the desert

90-minute video of Earth in orbit in real time

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

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

Modern birds inherited egg color from non-avian dinosaur ancestors

New theory on the origin of water on Earth

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

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

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

Understanding fracking & why it is controversial
High geothermal heat measured at the South Pole – locally melting base of Antarctic Ice Sheet

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

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

31-km side impact crater discovered beneath Greenland ice sheet
  • 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

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

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

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

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

Seismic context measurements for fracking-induced seismicity

First automated volcano forecast predicts eruptions of Mount Etna
  • https://www.nature.com/articles/d41586-018-07420-y

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

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

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

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


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


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


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/](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?**


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


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


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


**NSW Government criticized by academics for protecting brumbies from being culled**


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


**Elephants evolving to defend against ivory poachers**

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

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

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

Hurricanes Michael & Florence may have spread non-native 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

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

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

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

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

Washington State officials authorize two more wolf kills – may be counter-productive
Over-hunting cougars in Oregon may lead to more human-cougar conflicts


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


Plants colonize “new ground” following volcanic eruptions


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


Iran charged five environmentalists with National Security Crimes punishable by death

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


Factors that impact coastal flooding


Perspective: Students need to be educated to appreciate coastal resources


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


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


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


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


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


Caribbean coast is awash with tons of sargassum seaweed


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


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

US Federal judge bans fracking off the coast of California

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

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

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

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