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Geoscience Bulletin Board – 15 October 2018 – compiled by Elaine J. Hanford

Global warming alarmists take heed – the IPCC is not the only perspective and has not been proven

- [https://www.americanthinker.com/articles/2018/10/the_ipcc_is_still_wrong_on_climate_change_scientists_prove_it.html](https://www.americanthinker.com/articles/2018/10/the_ipcc_is_still_wrong_on_climate_change_scientists_prove_it.html)
- [https://grist.org/article/the-ipcc-report-has-something-to-piss-everyone-off/](https://grist.org/article/the-ipcc-report-has-something-to-piss-everyone-off/)

The Ocean Cleanup has completed trials & is now headed to the Great Pacific Garbage Patch


Despite LOTS of problems and cost overrun, the “Big Dig” in Boston is now seen as “net positive”


El Niño-Southern Oscillation (ENSO) cycle continues and will influence 2018-2019 winter weather in the US


Hurricane Michael made Cat 4 and continued to strengthen as it moved toward Florida Panhandle


Planetary geology: 50-foot ice spike may cover the equatorial regions of Europa

Oldest flying squirrel fossil discovered in Barcelona, Spain – 11.63 myo *Miopetaurista neogrivensis*

Oldest macro-skeleton fossil remains found in Olenek uplift in northeastern Siberian platform – 700-650 myo *Palaeopascichnus linearis* previously thought to be feces
- [http://www.spacedaily.com/reports/Siberian_paleontologists_discovered_the_oldest_macro_skeleton_remains_999.html](http://www.spacedaily.com/reports/Siberian_paleontologists_discovered_the_oldest_macro_skeleton_remains_999.html)
- [https://www.smithsonianmag.com/smartnews/history-archaeology/oldest-known-macroscopic-skeletal-organism-was-masquerading-fossilized-feces-180970509/](https://www.smithsonianmag.com/smartnews/history-archaeology/oldest-known-macroscopic-skeletal-organism-was-masquerading-fossilized-feces-180970509/)

Planetary geology: rings of Saturn are chemically complicated
- [https://www.sciencedaily.com/releases/2018/10/181004143937.htm](https://www.sciencedaily.com/releases/2018/10/181004143937.htm)

2017 nuclear bomb testing in North Korea triggered aftershocks on previously unmapped fault

Antarctic Circumpolar Current and westerly winds play important role in global climate

Southern flank of Mount Etna on Sicily is sliding a few cm per year due to gravitational instability toward the Mediterranean Sea – could eventually lead to catastrophic collapse and trigger tsunami

Planetary geology: gypsum crystal identified by Curiosity Mars Rover

Perspective: “No likelihood” of major quake in Nigeria? Agency assurance on shaky ground

NASA study identifies 21-mile long Ocotillo fault linking Elsinore faults in Southern California to Laguna Salada fault in Mexico

Swiss lake model helps improve paleo-temperature reconstruction

Travel guides and cruise lecturers have opportunity for science outreach
- [https://www.nature.com/articles/d41586-018-06960-7](https://www.nature.com/articles/d41586-018-06960-7)

Photo-essay – Vajont Dam disaster of 9 Oct 1963
- [https://www.thelocal.it/20181009/in-pictures-the-vajont-dam-disaster](https://www.thelocal.it/20181009/in-pictures-the-vajont-dam-disaster)
NASA intends to try to stop Yellowstone caldera from erupting – at projected cost of $3.46B and not chance of success

- [https://www.ibtimes.co.in/nasa-wants-contain-yellowstone-supervolcano-that-can-end-world-one-eruption-782683](https://www.ibtimes.co.in/nasa-wants-contain-yellowstone-supervolcano-that-can-end-world-one-eruption-782683)

Historically unprecedented retreat of the Viedma Glacier – but historic record is brief compared to life of glacier


San Benito Geology – 1st of series of six articles on the geology of San Benito County


Geology plays significant role in design of Appalachian home


Lithium discovery in Atacama region of Chile


Dutch geological history provides lessons for other present-day deltas


Evolution of a super-eruption magma system


Geological heritage in India remains an un-championed cause

- [https://www.thewire.in/the-sciences/why-does-indias-geological-heritage-remain-an-unchampioned-cause](https://www.thewire.in/the-sciences/why-does-indias-geological-heritage-remain-an-unchampioned-cause)

New geological map of the Kingdom of the Netherlands, including Aruba, Curaçao, Saint Maarten, Bonaire, St. Eustatius and Saba


Research designed to make bridges more seismic resistant


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Ear Spring geyser in Yellowstone National Park erupted after long quiescence and spewed out 90 years of garbage that was tossed in by tourists

Glyphosate “is the safest herbicide that’s ever been developed” – but the herbicide was designed to kill

Role of water in antibiotic resistance emergence & dissemination in Africa

Quinault Indian Nation can now regulate water quality on Tribal lands – same authority under Clean Water Act as State of Washington

Multi-state *Salmonella* outbreaks & recalls of eggs and ground beef
Questioning the wisdom of how FEMA $81B were spent since 1992 – “Cycle of damage & repair”

Global warming alarmists take heed – the IPCC is not the only perspective and has not been proven
- https://www.americanthinker.com/articles/2018/10/the_ipcc_is_still_wrong_on_climate_change_scientists_prove_it.html
- https://grist.org/article/the-ipcc-report-has-something-to-piss-everyone-off/

$6B ethane cracker plant construction progressing on former Horsehead Corp zinc smelter site in Potter Township, Pennsylvania – brownfields concept in action

Just what Houston needs, more roads – next phase of Grand Parkway highway loop

Expert panel calls for more stringent building codes in San Francisco, California – high rises & seismic risk & more inspections

AUS Council of Recycling calling for increase in landfill levies & “rebooting” recycling

Greenpeace investigating fate of plastic for recycling in the US now that China no longer imports it
- https://unearted.greenpeace.org/2018/10/05/plastic-waste-china-ban-united-states-america/

Africa considers viability of plastic recycling
- https://af.reuters.com/article/energyOilNews/idAFL8N1WK4QN

The great debate on fluoride in drinking water is not yet resolved – 3 new studies raise questions
- https://www.ehn.org/we-add-into-drinking-water-for-our-teeth-but-is-fluoride-hurting-us-2611193177.html

Perspective: Maximum contaminant levels not yet set for “emerging” contaminants: PFOS, PFOA & 1,4-dioxane in drinking water – standards are needed

Addressing environmental concerns of exploration for oil in ANWR – an example from Clyde River
- https://newrepublic.com/article/151559/one-inuit-community-won-big-oil

Soot released from graphite plant in India is pervasive – Supreme Court to hear the case
Hunters Point Shipyard in San Francisco is part of the toxic legacy of early nuclear testing in the Pacific


Chronic kidney disease (CKDu) on the rise in SE Asia – may be related to “something in the water”


UN report notes costs of disasters have dramatically increased over last two decades – but should not be necessarily be interpreted as natural events are more extreme

- [https://www.unisdr.org/archive/61121](https://www.unisdr.org/archive/61121)

Extra DNA (duplication of chromosome 18) strongly associated with blue eyes in Siberian Huskies


“Insect Allies” program intended for protecting agricultural plants in the fields – concern that it could be used for biological warfare


Quantifying maximum nutrients (i.e., phosphorus) accumulated in watershed before additional pollution is discharged downstream

- [http://www.seeddaily.com/reports/When_yesterdays_agriculture_feeds_todays_water_pollution_999.html](http://www.seeddaily.com/reports/When_yesterdays_agriculture_feeds_todays_water_pollution_999.html)

Canine distemper virus posing threat to population of Asiatic lions in India

- [http://www.terradaily.com/reports/India Watches for deadly virus as lion deaths spike 999.html](http://www.terradaily.com/reports/India Watches for deadly virus as lion deaths spike 999.html)

1972 Clean Water Act resulted in significant improvement in US water quality - but 20 economic analyses estimate costs consistently outweigh benefits – really???


$1.7B expansion of Baytown chemical plant will increase annual capacity to produce 1.1B tons of methylene diphenyl di-isocyanate for manufacture of polyurethanes


Laguna Beach can alert residents by accessing the National Wireless Emergency Notification System


Vogtle Nuclear Power Plant construction continuing on units 3 and 4

Porous pavement using paving material mixed with rubber tires in Yellowstone National Park – not as good as naturally vegetated area but better than regular pavement & reduces human foot traffic impact
  • https://www.enr.com/articles/45465-porous-pavement-project-reaches-milestone-in-yellowstone

General Motors automotive plants will soon use wind power supply

Lone star ticks provide model for using organic dusts to combat their spread - kaolin & silicate dusts

Assessing the global cost of animal diseases – impacts on animals, food supply, humans & economies
  • https://news.wsu.edu/2018/10/10/research-measuring-global-cost-animal-diseases/

Bacillus probiotic may have potential to combat Staphylococcus aureus

FDA banned 6 artificial flavoring ingredients linked to cancer – typically found in candy, gum & ice cream
  • https://www.edf.org/media/edf-and-health-advocates-prevail-fda-bans-seven-cancer-causing-flavorings

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US Deepwater Wind offshore wind company sold to European venture

Hurricane Michael expected to erode 75% of beaches in Florida Panhandle

Seven Virginia localities participating in The RAFT Project to improve coastal storm hazard resiliency

State of Maine & coastal communities develop plan to compost dead seals

Ancient inhabitants of Rapa Nui (Easter Island) collected coastal groundwater discharge for drinking water
Comprehensive Coastal Resilience Plan announced for New Jersey – seeking public comments

Tour of stormwater control measures in Wrightsville Beach will highlight workshop for realtors on low-impact development

4.14 MW coastal PV project will include modules at 3 sites in South Australia

Red tide declined off Broward County, Florida – conditions will persist

Video report of coastal conditions and adjustments in Mauritania

US Coast Guard published Final Rule on ballast water management practices- effective 1 October 2018

Strong winds over Lake Superior caused swells that hit Duluth coastal areas & causing flooding

Occurrence of disasters similar to tsunami at Palu should be expected

Perspective: East Coast has been quick to close beaches in response to red tide – why not in Florida

US Army Corps of Engineers to propose preferred plan for hurricane protection for Houston, Texas