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**Geoscience Bulletin Board – 24 July 2017 - compiled by Elaine J. Hanford**

First plate tectonic map of Earth Neoproterozoic history from 1B to 520 myo (animation)

USGS launched “TopoView 2.1” letting users download historical USGS topo maps

Such hubris!!! The minute amount of CO2 emitted by humans surpasses CO2, sulfur oxides & aerosols emitted by volcanic eruptions??!! Hah!

Update on the human-triggered destructive mud volcano on Java

5 locales that reveal the geologic history of Australia

New study suggests lightning can also create shocked quartz

Data from Danish Meteorological Institute shows ice cover in Greenland is increasing
• http://www.americanthinker.com/blog/2017/07/greenland_turns_against_mother_gaia.html

US Army Corps of Engineers taking soil samples and testing in advance of new US border wall

Developing a warning system for storm-driven meteo-tsunamis on the Great Lakes

Subsidence contributes to flooding & flood hazards in Miami, Florida & Al Gore makes more apocalyptic predictions
• http://www.ces.fau.edu/arctic-florida/pdfs/fiaschi-wdowinski.pdf

New app shows aquifer level change & subsidence due to groundwater withdrawals in Houston-Galveston area

Thousands of spongy blobs of paraffin wax washed up on the Opal Coast of France – but where did they come from?
• http://www.smithsonianmag.com-smart-news/thousands-mysterious-yellow-sponges-have-washed-french-coast-180964117/

Seattle continues to retrofit older buildings in advance of next earthquake

New report that analyzed GAST data generated by NASA & NOAA found it is “complete bunk”

Fossil site reveals impact of low oxygen in Early Jurassic marine environment

Project “Seabed 2030” will circumscribe the globe for 13 years to map the ocean floor
• http://www.smithsonianmag.com-science-nature/first-complete-map-ocean-floor-stirring-controversial-waters-180963993/
Wave energy desalination described as “small, modular & cheap”


Video of sinkhole in action in Florida – parts of two homes sunk and the road being eroded


9-year-old tripped in the desert in New Mexico and discovered a 1.2 myo stegomastodon skull


Book Review: “Junk Raft: An Ocean Voyage and a Rising Tide of Activism to Fight Plastic Pollution”

- [http://www.nature.com/nature/journal/v547/n7663/full/547278a.html](http://www.nature.com/nature/journal/v547/n7663/full/547278a.html)

Anticipating answers about tectonics and climate history from JOIDES Expedition 371


Bottom-trawling techniques leave different traces & impacts on the ocean floor


Underestimating the power of nature to recover from oil spills


Kromberg Formation spans continents and contains organic Archean microfossils


Man-made aerosols are identified as driver in shifting global precipitation patterns


Couple who disappeared in 1942 have now been exposed by Tsanfleuron glacier


*Albertavenator curriei* – new species of bird-like dinosaur identified in Canada


Sea cave sediments in Indonesia contain 5,000-year record of tsunamis

Detailed oceanographic maps have now been released – some good came from search for MH370


Understanding the transport & stability of carbonates into the deep Earth

- [https://www.science daily.com/releases/2017/07/170719084817.htm](https://www.science daily.com/releases/2017/07/170719084817.htm)
- Paper: [https://www.nature.com/articles/ncomms15960](https://www.nature.com/articles/ncomms15960)
- [https://www.eurekalert.org/pub_releases/2017-07/aaf-clp071717.php](https://www.eurekalert.org/pub_releases/2017-07/aaf-clp071717.php)

Looking at the how, why and when of EQs on a variety of physical levels


Moon shadow versus sun glint on Earth (video)


Understanding the global methane budget


Images of a supernumerary rainbow over New York City


Sparkling springs aid exploration for geothermal energy resources

- [https://www.eurekalert.org/pub_releases/2017-07/uoe-ssa072117.php](https://www.eurekalert.org/pub_releases/2017-07/uoe-ssa072117.php)

Small glaciers play significant role in recharging aquifers & maintaining stream flow

- [https://www.eurekalert.org/pub_releases/2017-07/uoaf-mgr072017.php](https://www.eurekalert.org/pub_releases/2017-07/uoaf-mgr072017.php)

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Predicting conditions that could produce another Dust Bowl in the Great Plains

- Paper: [https://www.nature.com/articles/s41598-017-05431-9](https://www.nature.com/articles/s41598-017-05431-9)

Good reasons for whacking weeds in the Arizona desert

- [http://www.technology.org/2017/07/18/reasons-are-plentiful-for-whacking-those-weeds/](http://www.technology.org/2017/07/18/reasons-are-plentiful-for-whacking-those-weeds/)

Human-generated noise is ruining National Parks for humans and animals


Outbreak of vibriosis from eating raw oysters in Seattle, Washington


These 17 common plants may be dangerous for your pets


The story of how David Wagner became a plague chaser in the American Southwest

Mountaintop coal mining causes rivers in Appalachia to be “consistently saltier”

APHIS announces Emerging Animal Disease Preparedness & Response Plan

Outbreaks of *Salmonella typhimurium* occurred in microbiology labs in 16 states

Tourists take risks despite warning signs on the beach – jet engine backwash can be deadly
  • https://721news.com/top-story/woman-dies-result-serious-incident/

“Post-Ebola syndrome” is still not well understood

Filter system can filter more than 100,000 gallons per day and remove phosphorous from wastewater

Largest power plant in the world is the Itaipú Dam on the Parana River

Doomsday hype: “The Uninhabitable Earth”

Botswana cracking down on illegal donkey skin trade & arrested Chinese man alleged to be involved

Flash flood rescue & others die in Tonto National Forest in northern Arizona (videos)
  • http://start.att.net/player/category/news/article/ap_select-crews_describe_rescue_from_arizona_flash_floods-apsel
Ecological Society of America meeting focuses on lessons in ecosystem services – theory to practice


In Britain, eating at fast food chains means possibly getting dosed with potentially harmful bacteria


US Army Corps of Engineers continues work on water control structures at Lake Okeechobee in Florida


The southern Amazon rainforest triggers its own rainy season


Restoring forests can help mitigate water infrastructure crisis by improving watersheds

- [http://www.huffingtonpost.com/entry/restoring-us-forests-can-help-solve-our-water-infrastructure_us_5971268ee4b0f1feb89b424a](http://www.huffingtonpost.com/entry/restoring-us-forests-can-help-solve-our-water-infrastructure_us_5971268ee4b0f1feb89b424a)

Birth of northern hairy-nosed wombat increases population of one of the rarest animal species


Greenhouse Gas Removal Program to assess the “false promise” of carbon capture


Want to reduce your carbon footprint? Then have fewer children!


Diesel versus petrol – which is better? And cracking down on idling is good for air quality


Recovering from flooding along the Fox River in parts of the Midwest

- Images: [http://www.tmj4.com/homepage-gallery/photos-flash-flooding-sweeps-into-se-wisconsin#id0](http://www.tmj4.com/homepage-gallery/photos-flash-flooding-sweeps-into-se-wisconsin#id0)
“Extreme & Aggressive” wildfires in California forcing thousands to evacuate
• http://www.npr.org/sections/thetwo-way/2017/07/19/538090510/-extreme-and-aggressive-california-wildfires-force-thousands-to-evacuate

American bees are suffering from too much inbreeding and impact of varroa mites
• http://www.npr.org/sections/thesalt/2017/07/13/536884827/no-offense-american-bees-but-your-sperm-isnt-cutting-it

First power plant to combine hydro & solar power located in Portugal
• http://www.huffingtonpost.com/entry/hydro-solar-plant_us_595f96dee4b02e9bdb0c0fa6

Why is the “Dead Zone” in the Gulf of Mexico so large this year?

Should cities be issuing licenses to panhandlers instead of trying to banish them?

Military technology and innovation may ease water challenges
• http://www.earthmagazine.org/article/position-lead-how-military-technology-and-innovation-can-ease-worlds-water-challenges

Why are there huge barcodes in the US desert?
• http://www.technology.org/2017/07/19/huge-barcodes-in-u-s-desert-what-for/

Report calls for abandoning bungled South Carolina nuclear project

Federal Appeals Court says it cannot review EPA decision not to ban chlorpyrifos pesticide

Humans have created an estimated 8.3B metric tons of plastics from early 1950s to 2015 – most has become waste – recycling hasn’t done much to reduce it

Desertification of the Sahara began about 6,000 years ago
Only estimated 10 to 15 percent, with 25 percent upper limit, of human genome is functional

Vietnam commits to shutting down bear bile farms & move about 1,000 bears to sanctuaries

Once again, patients being prescribed drugs for disease they do not have

Unregulated atmospheric concentrations of dichloromethane have increased in recent years and may threaten the ozone layer

Restoration of prairie lands in Illinois also enhances microbial communities in the soil

Invasive non-native coastal habitat better than none at all
Section of California Coastal Highway 1 reopens after landslide south of Big Sur

Open space donation added to Coastal Slope Trail in California

California Coastal Commission approves agreement to close last remaining sand mining operation

Best coastal resorts in the world on each continent

Attributing potential loss of coastal environments in Japan to “global warming”
  • [https://www.sciencedaily.com/releases/2017/07/170713154919.htm](https://www.sciencedaily.com/releases/2017/07/170713154919.htm)

California coastal counties & cities taking "global warming" to court against O&G companies

RESTORE Act money to fund restoration of St Andrew Bay or St Joe Bay in northwestern Florida

5-year restoration project for Englishman River Estuary in British Columbia, Canada

Coastal communities brace for another summer of toxic algal blooms in south Florida

Ongoing battle to protect West Coast salmon from pesticides

Humpback whales were removed from endangered species list in US Atlantic coastal waters, but are now experiencing an increase in death or “strandings” along the coast

Concerns at North Carolina port facility over storing & reshipping of coal fly ash from India
  • [http://www.carolinacoastonline.com/news_times/article_22c4da88-6c8d-11e7-be7b-3b27b0a0c16d.html](http://www.carolinacoastonline.com/news_times/article_22c4da88-6c8d-11e7-be7b-3b27b0a0c16d.html)