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**Geoscience Bulletin Board – 30 July 2018 – compiled by Elaine J. Hanford**

**Kilauea**
- [https://scroll.in/latest/887782/hawaiis-kilauea-volcano-may-continue-to-erupt-for-months-and-years-warn-geologists](https://scroll.in/latest/887782/hawaiis-kilauea-volcano-may-continue-to-erupt-for-months-and-years-warn-geologists)

High-resolution satellite image of Fagraskógarfjall landslide of 7 July 2018
- [https://scroll.in/latest/887782/hawaiis-kilauea-volcano-may-continue-to-erupt-for-months-and-years-warn-geologists](https://scroll.in/latest/887782/hawaiis-kilauea-volcano-may-continue-to-erupt-for-months-and-years-warn-geologists)
- [http://www.ruv.is/frett/skridan-sest-a-gervitunlagamyndum-esa](http://www.ruv.is/frett/skridan-sest-a-gervitunlagamyndum-esa)

Regions with lower seismic wave velocities are pieces of the mantle rising at ends of Cascadia fault

**Crater Lake wildfire continues to burn but park remains open**

**Oldest evidence of terrestrial life on Earth from as early as 3.22B years ago**
Genetic & geologic investigations prove close link between cave shrimp in Israel & Italy

Pros & cons of new study on large-scale movement of water (AMOC) in the Atlantic Ocean
  • https://www.bbc.co.uk/news/science-environment-44875508

Largest fossilized dinosaur footprint discovered in Weston County, Wyoming – 1 meter wide
  • http://www.sci-news.com/paleontology/largest-dinosaur-foot-06234.html

New mapping tool uses satellite imagery to document yearly expansion of mountaintop coal mining

Slowdown in ocean currents impacted northern Europe climate during the Eemian (120,000 years ago)
  • Paper: https://www.nature.com/articles/s41467-018-05314-1

Old fossilized bone finally correctly identified as belonging to *Paleoparadoxia*

Developing model for predicting landslides triggered by earthquakes

Revising the history of the Yellowstone super-volcano hot spot migration

The Paleo-Bell River in North America
  • https://www.earthmagazine.org/article/paleo-bell-river-north-americas-vanished-amazon

EQ swarm off the Coast of Oregon and California

Making of a fossil in a single day – recipe calls for fresh feathers or lizard feet, clay, heat and pressure

Studying microbial life in glacial streams

Low-frequency sound ebbs & flows with whooshing of air inside volcanic crater – a unique “song”
  • https://www.sciencenews.org/article/cotopaxi-volcano-ecuador-infrasound
Looking for the Bee Buff meteor impact crater approx. 13 miles south of Uvalde, Texas

Rewriting the history of long-necked dinosaurs
  • Paper: https://www.nature.com/articles/s41467-018-05128-1

Planetary geology: evidence suggests a liquid salt lake beneath the surface of Mars
  • Paper: http://science.sciencemag.org/content/early/2018/07/24/science.aar7268

Is there a hidden global heat sink that may explain the “pause” in global warming?

5.2M EQ where geology “starts to get quite complicated”

New geological model for mineralization in the Chevrier Gold Project
  • https://www.geologyforinvestors.com/genesis-develops-a-new-geological-model-for-the-chevrier-gold-project/

Environmental Science Bulletin Board – 30 July 2018 – compiled by Elaine J. Hanford

Ferguson Fire rages on in California with smoke causing closure of Yosemite Valley
US BLM seeking comments on Environmental Assessment of proposed Utah wild horse management plan
- Draft EA: https://epplanning.blm.gov/epl-front-office/eplanning/projectSummary.do?methodName=renderDefaultProjectSummary&projectId=100793

6 years after Hurricane Sandy – work to restore & upgrade New York City tunnels now complete
- https://apnews.com/b10c3579efe44428a059993e06b4162e2/Work-on-NYC-tunnels-complete-6-years-after-Sandy

NASEM report identifies most promising breakthroughs to increase sustainability, competitiveness & resilience of US food & agriculture system

Indigenous people manage large swaths of land across the globe – not always “good” for conservation – just consider what has happened to wildlife in Africa

Levels of Fukushima radiation from fallout in California wines described as posing no health risk

Simulations show virtual world to trace emergence & extinction of species during last 8 glacial cycles
- Video: https://www.youtube.com/watch?v=cXdTPN1cul0&feature=youtu.be%3Fxid%3DPS_smithsonian

115th Congress needs to address issues related to permits for pesticide discharges into navigable waters
- https://fas.org/sgp/crs/misc/IF10919.pdf

$2.5B for new water projects in Northern California – 4 dams & 4 groundwater storage proposals

Genetic insight into the evolution of MRSA

Crater Lake wildfire continues to burn but park remains open
Most victims of mudslides/debris flows in Hiroshima Prefecture should have evacuated hazard-prone locations

Record of Decision under NEPA for US Sheep Experiment Station Grazing & Associated Activities Project

Hydroelectric dam under construction in Laos collapsed with hundreds missing & washed away

Federal judge ruling will allow irrigation dam project on Yellowstone River to move forward

Update - Multi-state outbreaks of Salmonella linked to contact with backyard poultry flocks

Confiscated black market animal trade items serve as educational tools, add to research collections & offer insight to smugglers

Crows provide unique perspective on their interactions with the dead – sex and aggression

Koala conservation group to take government to court for what it calls “politically sanctioned extinction”

Phoenix, Arizona, getting hotter – more heat illness – is this the result of urban heat island effect?

New York considering legislation to ban BPA substitution chemicals in products for children

Capetown, South Africa & Zero Water Day may provide lessons for other major cities
- https://www.scientificamerican.com/article/cities-need-to-prepare-for-water-day-zero/

Settlement reached with CSX over 2015 derailment & oil spill - $2.2M with $1.2 to Fed govt & $1M to WV
Cleanup of the Gowanus Canal will begin in 2020 after pilot project assessment – damage done

Perspective: Public access to Rocky Flats National Wildlife Refuge (area around former nuclear plant) may be disaster in the making

Native Americans managed the prairie with fire for better buffalo hunts

New findings on role of genetics in influencing complex human behaviors – educational attainment

Concerns that antibiotic resistance & antibiotic-resistant bacteria are airborne

Recycling provides competitive economic advantages to manufacturing

Modeling the future of the boreal forest – fires & floods

Type of manure applied to soil will impact the dynamic process of water infiltration

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Coastal Zone Management Bulletin Board – 30 July 2018 – compiled by Elaine J. Hanford

Worst-case spill scenario for Great Lakes shoreline impacts from oil pipeline spill at Straits of Mackinac


Shoalwater Bay Tribe to build tsunami tower in Tokeland, Washington


Capitol Hill briefing on coastal resiliency to protect infrastructure, the economy & national security


Coastal advocates challenge Hollister Ranch agreement that bars public access via land


Funding secured for 64-mile Rhins of Galloway coastal walking pathway


Finally a realistic approach - humans retreat from coastal areas where sea level & storm surge impinges

Video tour of Noyo Headlands Park
- https://www.kcet.org/shows/california-coastal-trail/restoring-coastal-access-at-noyo-headlands-park

The case of Parish of Plaquemines v. Rozel Operating Co., et al.

National Trust for Jersey to protect St Catherine’s Bay

More tsunami sirens need to be installed along the coast in Tawau

Japan reopened three beaches impacted by 2011 tsunami & Fukushima nuclear disaster

Island resort of Mallorca was hit by meteo-tsunamis

20th anniversary of the tsunami in Papua, New Guinea

Waves of garbage (plastic) washing up on Montesinos Beach in the Dominican Republic

Poland closes Baltic Sea beaches - toxic algae bloom due to fertilizer & sewage runoff

Puget Sound Restoration – review of actions

Sargassum seaweed impinging on fisheries and fouling beaches in the Gulf & Caribbean

Seabirds are pooping out micro-plastics
Tracking water-borne invasive species in Salem Harbor

Urbanization of the coast of Spain doubled over 3 decades