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### **Geoscience Bulletin Board – 16 July 2018 – compiled by Elaine J. Hanford**

#### Kilauea

- <https://www.usgs.gov/news/k-lauea-volcano-erupts>
- Caldera collapse: <http://www.newsweek.com/kilauea-update-map-usgs-caldera-collapse-fall-timelapse-watch-video-1018145>
- <http://www.newsweek.com/kilauea-hawaii-volcano-sulfur-dioxide-lava-causing-acid-rain-1016904>
- <http://blogs.discovermagazine.com/rockyplanet/2018/07/12/kilauea-eruption-keeps-on-going/>

Longest total lunar eclipse on 27 July 2018 will be good for science

- <https://www.skyandtelescope.com/astronomy-news/observing-news/what-can-lunar-eclipses-do-for-science/>

Large iceberg invokes fear among inhabitants of village of Innaarsuit in northwest Greenland

- <https://www.rt.com/news/432956-greenland-iceberg-tsunami-warning/>

Globalizing geoscience research – international collaboration is on the rise as reflected in publications – or is this a figment of the publication review process?

- <https://www.nature.com/articles/s41561-018-0187-4>

Some dinosaurs evolved to massive size in the Triassic

- <https://www.smithsonianmag.com/science-nature/most-massive-dinosaurs-evolved-earlier-previously-thought--180969577/>

Pacific NW Orca population at 30-year low due to overfishing of salmon, pollution & noise disturbance

- <https://www.smithsonianmag.com/smart-news/pacific-northwest-orca-population-hits-30-year-low-180969582/>

Firestorms in Colorado - We have entered the era of “fire tsunamis”

- [https://www.huffingtonpost.com/entry/weve-entered-the-era-of-fire-tsunamis\\_us\\_5b46217fe4b048036ea4e145](https://www.huffingtonpost.com/entry/weve-entered-the-era-of-fire-tsunamis_us_5b46217fe4b048036ea4e145)

Video of 4-mile iceberg breaking away from glacier in Greenland

- <https://www.novinite.com/articles/191022/See+a+Giant+Iceberg+Fall+Into+the+Sea+%28Video%29>

Best coastal caves, arches & stacks along the British coast

- <http://www.countryfile.com/countryside/britains-best-coastal-caves-arches-and-stacks>

Israel is in Syrian-African rift and experiences large EQs every 80 to 100 years – Big One of 1927

- <https://www.jpost.com/Israel-News/The-last-big-one-The-July-11-1927-Jericho-Earthquake-562174>

Nine of the most deadly natural disasters

- <http://www.businessinsider.com/worst-natural-disasters-2018-7?r=UK&IR=T>

Number of EQs in Oklahoma declines, but intensity increases

- [https://www.nrcs.usda.gov/wps/portal/nrcs/detail/wi/technical/?cid=nrcs142p2\\_020777](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/wi/technical/?cid=nrcs142p2_020777)

Pulse of polar vortex is key to mapping future storms

- <https://www.sciencedaily.com/releases/2018/07/180710110137.htm>

20 new World Heritage Sites – including volcanic field in Massif Central in south-central France

- <https://www.telegraph.co.uk/travel/destinations/europe/france/articles/chaines-des-puy-france-how-to-get-there/>

Oxygen levels fluctuated on Earth before the Great Oxidation Event about 2.4B years ago

- <https://www.sciencedaily.com/releases/2018/07/180709161540.htm>

Composition of dust carried by rain across Texas impacts chemistry of deposition areas

- <https://www.sciencedaily.com/releases/2018/07/180709202900.htm>

Perspective: Governments must weigh the environmental costs of deep-sea mining

- <https://www.nature.com/articles/d41586-018-05681-1>

NASA found fragments of meteorite that crashed off Pacific coast on 7 March 2018

- <http://www.businessinsider.com/nasa-just-found-rare-meteorite-fragments-in-the-ocean-2018-7>

Visiting the volcanic islands of Italy

- <https://www.smithsonianmag.com/travel/think-youve-seen-enough-italy-these-volcanic-islands-will-change-your-mind-180969536/>

“Complex geological conditions” being blamed by contractor for \$100M cost overrun & delayed schedule for new tollway in Florida

- <http://www.orlandosentinel.com/news/transportation/i-4-makeover/os-i4-construction-delay-overrun-20180712-story.html>

Ironic: Unfinished Visitor Center to commemorate Reelfoot Lake & New Madrid EQs to be demolished – not built to seismic standards

- <https://www.commercialappeal.com/story/news/2018/07/13/reelfoot-visitors-center-demolish/776233002/>

Recent icefall on Mount Rainier registered on seismographs

- <https://www.seattletimes.com/seattle-news/this-would-have-been-an-un survivable-event-when-a-glacier-crumbles-on-mount-rainier/>

More global warming alarmism and yet another hypothetical model of disaster

- <https://phys.org/news/2018-07-based-alarming-polar-phenomenon.html>

Seismic survey fieldwork completed at Khemisset potash project in northwest Morocco

- <https://www.worldfertilizer.com/potash/13072018/emerson-completes-seismic-survey-at-khemisset-potash-project/>

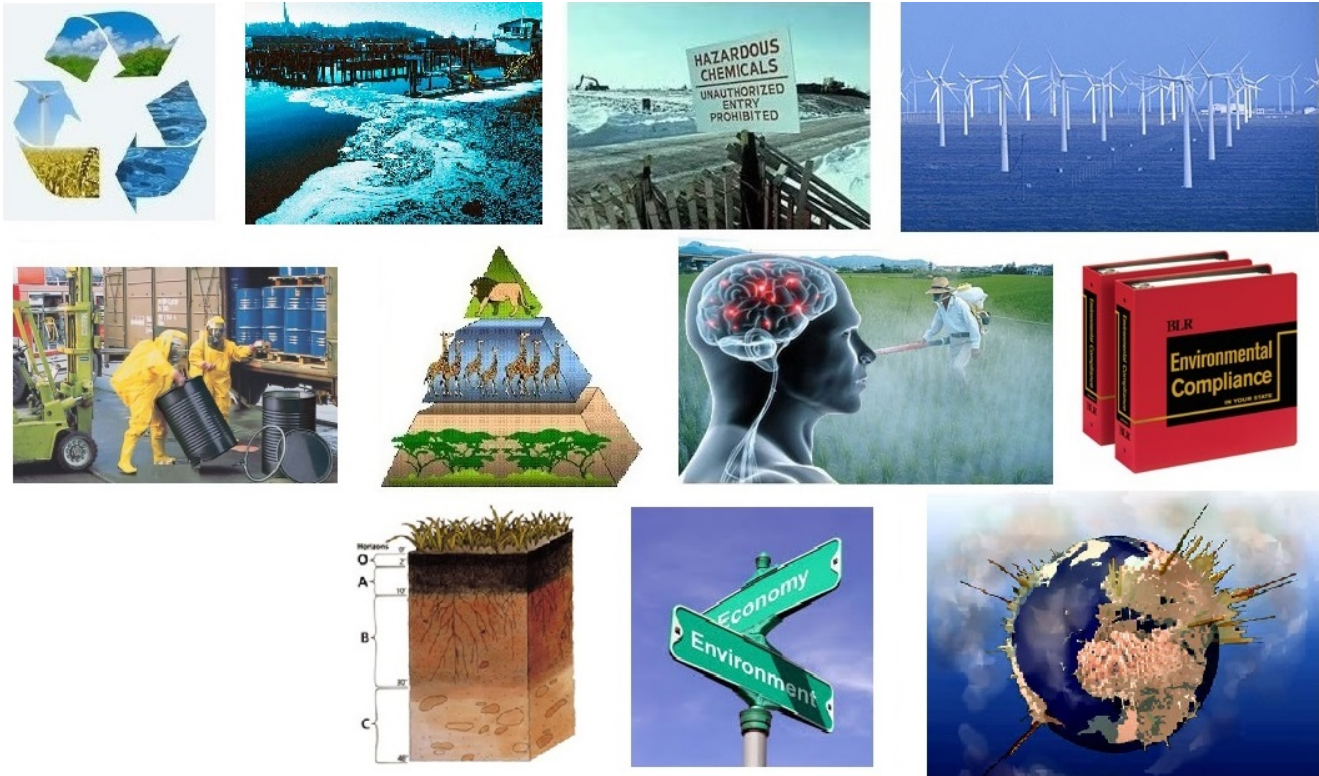
EQ damage survey revealed ancient shrine buried beneath Tláloc main temple in southern Mexico

- <https://www.smithsonianmag.com/smart-news/earthquake-reveals-12th-century-temple-hidden-within-aztec-pyramid-180969619/>

Asbestos mining town of Wittenoom in Pilbara region of Western Australia described as one of the most dangerous & contaminated places on the planet – ghost town draws tourists

- <http://www.abc.net.au/news/2018-07-12/australias-deadliest-ghost-town-wittenoom-a-tourist-hotspot/9987328>

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## Environmental Science Bulletin Board – 16 July 2018 – compiled by Elaine J. Hanford

In Memoriam: Nathaniel Pryor Reed (1934-2018) prominent environmental advocate who helped craft the US Endangered Species Act

- <http://www.legacy.com/news/celebrity-deaths/notable-deaths/article/nathaniel-reed-2018-prominent-environmental-advocate>

US FDA issues warning to veterinary medicine re: synthetic progesterone product that causes reproductive system disorders & other adverse effect to exposed people

- <http://www.wisconsinagconnection.com/story-national.php?id=1367&yr=2018>

Little known bacterial STD could become next antibiotic-resistant superbug – *Mycoplasma genitalium*

- <http://www.newser.com/story/261822/rare-std-has-health-officials-worried.html>
- <https://www.menshealth.com/health/a22126816/sti-mycoplasma-genitalium-superbug-symptoms-treatment/>
- <https://www.cnn.com/2018/07/11/health/guidelines-superbug-mycoplasma-genitalium-intl/index.html>

Heavy rains, flooding, landslides are deadly in southern Japan

- <https://edition.cnn.com/2018/07/10/asia/japan-floods-intl/index.html>

Summer months mean rabies – Maine issues warnings & deer tests positive in North Carolina

- <http://www.sunjournal.com/brunswick-police-report-fourth-attack-by-rabid-wild-animal/>
- <https://myfox8.com/2018/07/07/deer-found-in-north-carolina-confirmed-to-have-rabies/>

More than 200 people sickened by *Cyclospora cayetanensis* from veggie trays in Midwest

- [http://start.att.net/news/read/article/money-more\\_than\\_200\\_people\\_are\\_sick\\_from\\_a\\_parasite\\_disc-rtime/category/news](http://start.att.net/news/read/article/money-more_than_200_people_are_sick_from_a_parasite_disc-rtime/category/news)
- CDC: <https://www.cdc.gov/parasites/cyclosporiasis/index.html>

Humans should remember that bears are apex predators!

- <https://www.nationalgeographic.com/travel/destinations/north-america/united-states/national-parks/vintage-photos-bears-visitors-what-not-to-do/>

Listeria outbreak from frozen foods in Australia

- <https://www.coffscoastadvocate.com.au/news/listeria-outbreak-frozen-food-products-recalled/3462990/>

Texas Veterinary Medical Association urges inclusion of livestock in disaster preparation

- <https://www.prweb.com/releases/2018/07/prweb15603805.htm>

Chagas disease surveillance activity in 7 states in 2017

- <https://www.cdc.gov/mmwr/volumes/67/wr/mm6726a2.htm>

Tiny tracking devices for triatomine bugs that carry & transmit Chagas disease

- <https://www.smithsonianmag.com/science-nature/how-tiny-trackers-could-help-humans-avoid-kissing-bugs-deadly-smooch-180969569/>

New artificial insemination technique success in breeding critically endangered scimitar oryx

- <https://www.smithsonianmag.com/smithsonian-institution/new-artificial-insemination-technique-successfully-breeds-critically-endangered-scimitar-horned-oryx-180969588/>

Hoping new “immunobiotic” drug can fight antibiotic resistant infections as antibiotic use has increased 40% in two decades & resistance is compounded

- <https://www.theguardian.com/society/2018/jul/05/new-drug-uses-immune-system-to-wipe-out-deadly-bacteria>
- <https://phys.org/news/2018-07-immunotherapy-deadly-bacteria-early.html>
- <https://www.smithsonianmag.com/smart-news/new-immunobiotic-could-treat-antibiotic-resistant-superbugs-180969560/>

Another \$1.4B approved for West Shore Lake Pontchartrain hurricane levee & Comite diversion – Would Gilbert White think this was a wise decision?

- [https://www.nola.com/expo/news/erry-2018/07/7861714666722/14\\_billion\\_approved\\_for\\_west\\_s.html](https://www.nola.com/expo/news/erry-2018/07/7861714666722/14_billion_approved_for_west_s.html)

Koster dogs disappeared from North America following introduction of dogs by invaders from Europe

- <https://www.inverse.com/article/43783-oldest-dog-fossil-burial-illinois-koster-stilwell>
- <https://www.sciencenews.org/article/dogs-lived-and-died-humans-10000-years-ago-americas>
- <http://www.sciencemag.org/news/2018/07/america-s-first-dogs-lived-people-thousands-years-then-they-vanished>
- Paper: <https://www.biorxiv.org/content/biorxiv/early/2018/06/27/343574.full.pdf>

- <https://www.smithsonianmag.com/smart-news/how-european-dogs-devastated-indigenous-american-pup-populations-180969561/>

Perspective: The incredible scam of rooftop solar

- [https://www.americanthinker.com/articles/2018/07/the\\_incredible\\_scam\\_of\\_rooftop\\_solar.htm](https://www.americanthinker.com/articles/2018/07/the_incredible_scam_of_rooftop_solar.htm)

MWD of Southern California again votes to spend \$11B “WaterFix” for twin diversion tunnels

- <https://www.sacbee.com/news/state/california/water-and-drought/article214648385.html>

Building “smart cities” creates more technological problems

- <https://securityintelligence.com/how-can-we-make-smart-cities-even-smarter-start-with-security-intelligence/>

Coal-ash cleanup could cost North Carolina consumers \$5B

- <http://www.wect.com/story/38588086/north-carolina-consumers-could-see-5-billion-coal-ash-cleanup-bill>

Federal Appeals Court decision allows construction of Bayou Bridge Pipeline through environmentally fragile Atchafalaya Basin swamp

- <https://apnews.com/1327ba39fad34781a514e9757e456d2f/Court:-Louisiana-oil-pipeline-construction-can-continue>

Like coyotes, raccoons have figured out how to adapt to and exploit human resources

- <https://www.smithsonianmag.com/science-nature/when-it-comes-humans-and-wildlife-whos-bothering-whom-180969567/>

“The Ark and Beyond” – role of zoos and aquariums in age of human-induced animal extinctions

- <https://asunow.asu.edu/20180622-global-engagement-asu-what-role-do-zoos-aquariums-play-in-conservation>

Embarrassment? Katy Freeway at Beltway 8 is 26 lanes across – invitation to more gridlock

- <https://www.chron.com/neighborhood/katy/news/article/Bragging-rights-or-embarrassment-Katy-Freeway-at-6261429.php/>

US Army Corps of Engineers contemplating removal of locks & dams on Mississippi River near Twin Cities

- <https://www.twincities.com/2018/07/08/wild-or-mild-mississippis-future-depends-on-army-corps-three-locks-dams/>

New US EPA Chief Andrew Wheeler

- [https://www.washingtonpost.com/news/energy-environment/wp/2018/07/06/incoming-epa-chief-this-is-the-right-job-for-me/?utm\\_term=.ee813efb1ad0](https://www.washingtonpost.com/news/energy-environment/wp/2018/07/06/incoming-epa-chief-this-is-the-right-job-for-me/?utm_term=.ee813efb1ad0)

Plan to replace “Obama-era climate clean energy” developed by US EPA – draft sent to White House

- <https://apnews.com/5b3fcc01b5694f88b69db56167b8bffc/Trump-replacement-for-Obama-climate-plan-moves-forward>

Call for international agreement to protect endangered species – global deal for nature

- <https://www.livekindly.co/scientists-international-paris-agreement-protect-endangered-species/>

Grade stabilization structure to reduce sediment runoff from agricultural erosion

- <https://www.agriculture.com/podcast/successful-farming-radio-podcast/grade-stabilization-structure>
- NRCS info:  
[https://www.nrcs.usda.gov/wps/portal/nrcs/detail/wi/technical/?cid=nrcs142p2\\_020777](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/wi/technical/?cid=nrcs142p2_020777)

Final segment of Anacostia River Tunnel System to capture 98% of sewage overflows to the river

- <https://www.enr.com/articles/44851-dc-water-set-to-begin-final-segment-of-anacostia-tunnel>

Whiting Refinery in Indiana to create new jobs and cleaner gasoline with less than 10 ppm sulfur

- [https://www.nwitimes.com/business/lake-newsletter/bp-pumping-million-in-new-unit-at-whiting-refinery-creating/article\\_f2c68986-db6a-5c86-93c0-0bfb4dba3886.html](https://www.nwitimes.com/business/lake-newsletter/bp-pumping-million-in-new-unit-at-whiting-refinery-creating/article_f2c68986-db6a-5c86-93c0-0bfb4dba3886.html)

Method for improved measurement of recreational water quality to protect human health

- [https://www.eurekalert.org/pub\\_releases/2018-07/asfm-bmi071018.php](https://www.eurekalert.org/pub_releases/2018-07/asfm-bmi071018.php)

Advertising by Chinese companies used to identify sources of banned ozone-depleting CFCs

- <https://arstechnica.com/science/2018/07/group-identifies-sources-of-rogue-ozone-depleting-pollution-in-china/>

Emerging field of Planetary Health that examines effects of adverse human impacts

- <https://ehp.niehs.nih.gov/ehp2374/>

ATSDR & USSEPA announce plans to look at lead & arsenic levels in Anaconda from old Washoe Smelter

- [https://mtstandard.com/news/local/federal-agency-to-sample-for-lead-and-arsenic-in-anaconda/article\\_55eebc5d-8955-5ef3-a023-1fd69ca66f6e.html](https://mtstandard.com/news/local/federal-agency-to-sample-for-lead-and-arsenic-in-anaconda/article_55eebc5d-8955-5ef3-a023-1fd69ca66f6e.html)

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**Coastal Zone Management Bulletin Board – 16 July 2018 – compiled by Elaine J. Hanford**

US Army Corps of Engineers held meetings to outline New York City flood proposals

- <https://apnews.com/eb8ff344c6cf4b31ad06dbb4a569d2e0/Army-Corps-sets-meetings-to-outline-New-York-flood-proposals>

Link between river discharge and annual sea level

- <https://phys.org/news/2018-07-link-river-outflow-coastal-sea.html>

Oxygen loss in coastal Baltic Sea is “unprecedentedly severe” due to human-induced pollution

- <https://www.sciencedaily.com/releases/2018/07/180705084213.htm>

Coastal landscape, population and changing conditions in Cuba

- <http://www.ipsnews.net/2018/07/cuban-coastal-landscape-strengthened-face-climate-change/>

Linking coastal nuisance flooding to slow-moving Rossby Waves in the ocean

- [https://eurekaalert.org/pub\\_releases/2018-07/uocf-rlc070518.php](https://eurekaalert.org/pub_releases/2018-07/uocf-rlc070518.php)

US Army Corps of Engineers has suspended flow from Lake Okeechobee to coastal estuaries

- <https://okeechobee news.net/lake-okeechobee/flow-suspended-from-lake-okeechobee-to-coastal-estuaries/>



Increased funding approved for Coastal Spine project to protect coast from Sabine Pass to Galveston Bay

- <https://www.click2houston.com/news/us-army-corps-of-engineers-announces-funding-for-flood-mitigation-projects-across-texas>

Mid-Currituck Bridge project under review – Final EIS nearly complete – estimated project cost \$440M

- <https://www.coastalreview.org/2018/07/mid-currituck-bridge-project-under-review/>

Developer withdraws Coastal Commission application for \$400M Redondo waterfront project

- [http://tbrnews.com/news/redondo\\_beach/developer-for-redondo-waterfront-withdraws-coastal-commission-application/article\\_bf01b46c-7efb-11e8-943c-979c26fb90ef.html](http://tbrnews.com/news/redondo_beach/developer-for-redondo-waterfront-withdraws-coastal-commission-application/article_bf01b46c-7efb-11e8-943c-979c26fb90ef.html)

Recently dredged, Port of Miami wants to do more to accommodate even larger ships

- <https://www.miamiherald.com/news/business/article214376334.html>

New fishing port in Togo raises coastal erosion fears

- <https://phys.org/news/2018-07-togo-fishing-port-stokes-coastal.html>

Louisiana has taken soil samples at site of controversial coastal restoration project – Plaquemines Parish opposed & threatens to file suit

- <http://www.fox8live.com/story/38615453/state-takes-soil-samples-at-site-of-largest-coastal-restoration-project-despite-plaquemines-parish-opposition>
- <http://www.fox8live.com/story/38621628/plaquemines-parish-president-to-address-diversion-project-for-coastal-restoration>

Contemplating costs & funding for coastal dredging projects in New England

- [http://www.salemnews.com/news/local\\_news/coastal-dredging-projects-could-get-state-boost/article\\_7d4e274b-678a-5d69-8b9b-9e608dbe815a.html](http://www.salemnews.com/news/local_news/coastal-dredging-projects-could-get-state-boost/article_7d4e274b-678a-5d69-8b9b-9e608dbe815a.html)

Lecture series includes “We All Want to Live on the Edge: Designing Coastal Spaces with both People and Place in Mind”

- <https://thesandpaper.villagesoup.com/p/we-all-want-to-live-on-the-edge-designing-coastal-spaces-with-both-people-and-place-in-mind/1762341>

Why laws protect seemingly abundant coastal species

- <http://www.capecodchronicle.com/en/5328/chatham/3238/Plovers-Ospreys-And-Seals-Why-Do-Laws-Protect-Seemingly-Abundant-Species-Marine-Mammals-Animals-Piping-Plovers-and-Shorebirds.htm>

Pennsylvania man indicted on trafficking endangered diamondback terrapins & eggs from coastal marshes of New Jersey

- <https://www.courthousenews.com/pennsylvania-man-indicted-for-trafficking-endangered-terrapins/>

Citizens of Roman Empire dined on North Atlantic right whale (*Eubalaena glacialis*) & Atlantic gray whale (*Eschrichtius robustus*) from the Mediterranean Sea – two species no longer in region

- <https://www.zmescience.com/science/rome-whale-bones-28529421/>

New FWC waterproof decals support manatees and sea turtles

- <https://fortmyers.floridaweekly.com/articles/new-waterproof-decals-support-floridas-manatees-sea-turtles/>

Environmentalists want housing developments shut down to prevent polluting Long Bay Okura Marine Reserve in New Zealand

- <https://www.radionz.co.nz/news/national/361532/environmentalists-lobby-to-shut-developments-polluting-marine-reserve>

Fewer rats, more guano would help reduce degradation of coral reefs

- <https://www.smithsonianmag.com/smart-news/coral-reefs-need-fewer-rats-and-more-bird-poo-180969614/>

Fishermen disregard presence and hazards of toxic PCBs in New Bedford Harbor

- <https://www.ehn.org/new-bedford-harbor-contaminated-fish-2585492858.html>