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Geoscience Bulletin Board – 14 August 2017 - compiled by Elaine J. Hanford

IAVCEI 2017 Scientific Assembly in Portland, Oregon, 14-18 August will address volcanology & volcanic disasters mitigation

Upcoming solar eclipse – yes, there is an app for that

Wildfire burning in western Greenland

M7 earthquake hits eastern Tibet and China
  • Giant pandas: [http://www.china.org.cn/china/2017-08/09/content_41380721.htm](http://www.china.org.cn/china/2017-08/09/content_41380721.htm)
• Evacuations:  

How do sperm whales sleep? Vertically  

More than 90 volcanoes, active & dormant, have been located under the west Antarctic Ice Sheet  
• http://www.iflscience.com/environment/nearly-100-new-volcanoes-found-hiding-beneath-west-antarctic-ice-sheet/

Fossil hunters are taking rare fossils from the Himalaya – sold as cheap tourist souvenirs  
• http://www.thehindu.com/news/national/himalayas-losing-rare-fossils-to-souvenir-hunters/article19482098.ece

New Trinity River Trail in Dallas, Texas, experiencing erosion  

Submarine landslides don’t always cause massive tsunamis  
• https://www.newscientist.com/article/2143611-mystery-of-missing-tsunamis-explained-by-geological-model/

A suite of new 3D models of rocks, structures, bedding features  

Native American perspectives on annual monsoons: blessing & nuisance  
• https://asunow.asu.edu/20170713-arizona-impact-monsoon-native-american-viewpoints

Birgeria americana – Early Triassic bony, 6-ft long sharp-toothed fish discovered near Elko, Nevada  
• http://www.ctvnews.ca/sci-tech/fish-species-found-in-nevada-chomped-prey-like-sharks-1.3535373

Alarmist “global warming” report that builds on past assessments (political agenda) leaked to media  

Two flying squirrel-like fossil animals discovered in China may have glided above the dinosaurs  
• http://www.smithsonianmag.com/smart-news/mammal-ancestors-were-gliding-above-dinosaurs-180964465/
Giant Titanosauria sheds light on body mass evolution among sauropod dinosaurs

Study says glaciers in western Ross Sea coast are not affected by climate change over 5 decades
  • http://www.enn.com/climate/article/52100

Would you eat jellyfish chips?
  • http://www.npr.org/sections/thesalt/2017/08/09/542088042/when-oceans-give-you-jellyfish-blooms-turn-them-into-tasty-chips

Solar eclipse on August 21 could have collateral impacts: distracted drivers & massive traffic jams
  • http://www.huffingtonpost.com/entry/solar-eclipse-could-create-once-in-a-lifetime-road_us_598b0c80e4b0f25bdfb320de

Chaco Canyon petroglyph may represent ancient total eclipse
  • http://www.technology.org/2017/08/09/chaco-canyon-petroglyph-may-represent-ancient-total-eclipse/

Research at Alaska Fairbanks Geophysical Institute will help communities prepare for tsunamis

Potential implications of recent EIS on seismic surveys in the Gulf of Mexico
  • http://www.osjonline.com/news/view,environmental-ruling-wont-have-seismic-implications_48758.htm

Sea level rise hot spots along US East Coast caused by naturally occurring climate variations

Mapping physical changes in the McMurdo Dry Valleys of Antarctica

“GeoMAC” website helps track wildfire activity
  • GeoMac: https://www.geomac.gov/viewer/viewer.shtml

Corythoraptor jacobsi, new bird-like dinosaur, discovered in China

Troodon formosus is no longer a valid dinosaur classification – replaced by Latenivenatrix mcmasterae & Stenonychosaurus inequalis based on hip structure
  • https://www.sciencedaily.com/releases/2017/08/170808145519.htm
Estimating oxygen loss in global ocean 94 myo that lead to mass extinction

New analysis questions predicted decrease in EQs in Oklahoma due to wastewater injection

Incomplete drought recovery associated with mega-droughts
  •  https://www.eurekalert.org/pub_releases/2017-08/cifs-idr080817.php

Introduced Indian or Common Myna bird becoming a pest in the garden with their aggressive territorial behaviour

Down to Earth with: cave microbiologist Hazel Barton
  •  https://www.earthmagazine.org/article/down-earth-cave-microbiologist-hazel-barton

Planetary Geology: Dunes on Titan may have resulted from electrostatic forces
  •  https://www.scientificamerican.com/article/electric-sand-how-titans-dunes-got-their-weird-shapes/

RAVAN CubeSat measure the outgoing energy of Earth
  •  http://www.technology.org/2017/08/09/ravan-cubesat-measures-earths-outgoing-energy/

US natural gas exports exceeded imports in early 2017

Interview with Professor John Burgess of the Fletcher School on the Law of the Sea
  •  http://cimsec.org/sea-control-141-law-sea-john-burgess/33542

No surprise here – Highway 1 to be rebuilt atop Mud Creek landslide

USGS announcing low-level airborne project to image unmapped faults & subsurface geology in Oklahoma

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Environmental Science Bulletin Board – 14 August 2017 – compiled by Elaine J. Hanford

Outbreak of salmonella in more than 100 people in 15 states linked to papayas from farm in Mexico

- Experts say “low to no risk” [http://www.seeddaily.com/reports/Low_to_no_risk_from_pesticide-tainted_eggs_experts_999.html](http://www.seeddaily.com/reports/Low_to_no_risk_from_pesticide-tainted_eggs_experts_999.html)

Fipronil insecticide contaminated eggs confirmed in several European countries – harmful to humans


100 small streams in Midwest contain, on average, 52 pesticides per stream


Contrary to the global warming alarmists, new study concludes that number of major floods in rivers across Europe & North America has not increased over past 80 years – varies with ocean temperature patterns


CDC reopens investigation into drug-resistant salmonella outbreak tied to calves in Wisconsin
CRS Report: “Introduction to the National Flood Insurance Program (NFIP)” – program that still encourages people to rebuild where they have higher risk of being flooded
  •  https://fas.org/sgp/crs/homesec/R44593.pdf

ForeST Database & DART-TOFMS will facilitate combatting illegal logging

A visual reminder that, as Paracelsus said, it is the dose that counts: “Poison is in everything, and no thing is without poison. The dosage makes it either a poison or a remedy”
  •  Part 2: http://www.huffingtonpost.com/entry/this-much-will-kill-you-video_us_5987221be4b0cb15b1bf0b8d
  •  Part 1: https://www.youtube.com/watch?v=vPszR0-vTqc

Cremation rates are at an all-time high in the US, surpassing burial rates & that is a good thing

The Joshua tree and the Yucca moth co-evolved in the Mojave Desert

Appropriate biosecurity measures change animal agriculture, protect food supply & save lives
  •  http://newsstand.clemson.edu/mediarelations/biosecurity-measures-protect-farms-food-and-people/

Meat industry being blamed for largest ever “Dead Zone” in Gulf of Mexico

Point floodlights at churches in Sweden driving some long-eared bat colonies out of their belfries
  •  http://www.smithsonianmag.com/smart-news/ights-are-driving-bats-their-belfries-180964449/

Millions of American pets (dogs & cats) eat very well – a big problem for the environment

Patterns of antibiotic use in food animals vary across the globe
WHO Action Plan:
http://www.wpro.who.int/entity/drug_resistance/resources/global_action_plan_eng.pdf

These humans had little respect for wildlife – should count themselves lucky they did not become prey


Breeding population of Koala need to be protected from logging operations


France rethinking having reintroduced bears in the Pyrenees Mountains


First, Cecil the lion was shot by a trophy hunter, then his son Xanda was killed by another trophy hunter


US Army Corps of Engineers proposes $275M plan to stop invading Asian silver carp


“Monsanto Papers” released & add to debate about suppression of info on dangers of glyphosate

http://www.huffingtonpost.com/entry/newly-released-monsanto-papers-add-to-questions-of_us_597fc800e4b0d187a5968fbf


Will humans survive “global warming” hype….or real climate change that happens all the time?

http://www.huffingtonpost.com/entry/can-humans-beings-survive-the-impending-climate-crisis_us_59829712e4b0396a95c874c5

Modern day pharmaceuticals come from plants – aspirin from willow bark has been known for 4,000 years


It is plausible that no living multi-cellular organism on Earth is BPA-free because it is in the water


Montana considering addition to wildlife management area for elk at southern end of Paradise Valley
Revamping I-64 in Virginia will also address stormwater runoff, recycling asphalt & noise

Dallas, Texas, looking to foster urban renewal & increase travel efficiency
- [https://www.roadsbridges.com/map-points-it](https://www.roadsbridges.com/map-points-it)

Will the Matiliga Dam & 8M cubic yards of sediment near Ojai, California, ever be removed?

Environmental issues that might be considered “breaking news”

When it comes to personal care products, let the buyer beware of potential health impacts

The modern life style we have created means less gut bacterial and more chronic disease

FDA wants more proof of safety of chemicals in “Impossible Burger”

Early *Homo sapiens* in Europe ate mammoth meat as well as plants

Book Review: “Improbable Destinies: Fate, Change and the Future of Evolution”
- [http://www.nature.com/nature/journal/v548/n7666/full/548156a.html](http://www.nature.com/nature/journal/v548/n7666/full/548156a.html)

There are specific differences between the brains of females and males – females more active

US Navy begins construction of $1.65B spent nuclear fuel storage facility in Idaho

Defense mechanism of fish-scale geckos of Madagascar means they shed their skin
- [http://www.terradaily.com/reports/Skin_ditching_gecko_inexplicably_leaves_body_armor_behind_when_threatened_999.html](http://www.terradaily.com/reports/Skin_ditching_gecko_inexplicably_leaves_body_armor_behind_when_threatened_999.html)
A better way to control weeds that saves the soil and is more cost effective

Opioid addition & abuse is a problem across the country – by Rx and illegally
  • Info-graphics: https://fingfx.thomsonreuters.com/gfx/rngs/USA-HEALTHCARE-OPIOIDS/010050DN0VN/index.html

“Rogue” elephant tramples 15 to death in eastern India, will likely be killed
  • http://www.terradaily.com/reports/Rogue_elephant_tramples_15_to_death_in_India_faces_culling_999.html

Coastal Zone Management Bulletin Board – 14 August 2017 – compiled by Elaine J. Hanford

40-year old hurricane flood wall that safeguards Port Arthur, Texas, in need of repairs

Kolis say changes to Coastal Regulation Zone rule in India will lead to environmental damage, displace coast communities and impact livelihoods
  • http://news.trust.org/item/20170809000521-pg1bn/

Potential for damage to waters and wildlife following 93 tonnes of palm oil spill on 13 beaches of Hong Kong
  • https://www.reuters.com/article/us-hongkong-pollution-idUSKBN1AP06Y
Great Land Trust fundraising to purchase property at Settlers Bay for coastal park

Coastal zone management plan in Belize designed to protect natural asses
   • https://www.sciencedaily.com/releases/2017/07/170727102935.htm

In Europe, goods travel through coastal waters, but in the US, goods travel by highway since Jones Act blocks large-scale coastal shipping between US ports
   • https://qz.com/1032288/how-a-100-year-old-american-law-helps-make-your-commute-miserable/

Chemical fertilizers pose growing threat to US waters
   • http://www.bendbulletin.com/sciencetech/5493923-151/fertilizers-pose-a-growing-threat-to-us-waterways

Imperial Beach hired environmental firm to explore options to clean up water pollution in Tijuana River Valley and local beaches

Shrimp farms threatening Pichavaram forest & polluted runoff threatening marine life

Growing human population-caused light pollution has serious impact on coastal wildlife

Contentious debate continues along coastal North Carolina over offshore O&G drilling and exploration

New Jersey rejects 1800-unit housing development under Coastal Area Facility Review Act due 70/5 impervious cover and concerns of water quantity, groundwater recharge & water quality
   • http://www.njspotlight.com/stories/17/08/08/dep-denies-permits-for-1-800-unit-housing-development-in-lakewood/

Owners of Connecticut coastal properties not happy about limited land conservation measures to protect coastal area
   • https://phys.org/news/2017-08-unpopular-property-owners.html

Critically endangered staghorn corals benefit from coral gardening in Florida and Puerto Rico