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Geoscience Bulletin Board – 14 May 2018 – compiled by Elaine J. Hanford

Awaiting explosive eruption of Kilauea

- <http://www.ktvn.com/story/38148982/volcanic-gases-prompt-door-to-door-evacuation-in-hawaii1>
- Acid rain? <http://gephardtaily.com/national-international/hawaiians-might-face-new-risk-after-eruption-acid-rain/>
- <https://www.usgs.gov/news/kilauea-volcano-erupts>
- http://www.spacedaily.com/reports/Volcanic_activity_pauses_at_Hawaii_crater_but_more_eruptions_expected_999.html
- Ballistic boulders: <https://www.livescience.com/62528-hawaii-kilauea-ballistic-rocks.html>
- Interesting facts: <https://www.livescience.com/27622-kilauea.html>
- Fissures: <https://www.jpl.nasa.gov/news/news.php?feature=7118>
- Updates: <https://www.usgs.gov/news/news-media-briefing-latest-update-hawaii-s-k-lauea-volcano>

Fault slippage reversal may be harbinger of large earthquakes

- <https://www.nature.com/articles/d41586-018-05051-x>

Bridge construction models work well in seismic lab under simulation of M7.5

- <https://www.roadsbridges.com/earthquake-lab-nevada-shakes-70-ft-long-bridge-abc-test>

Landslide concerns in Pittsburgh, Pennsylvania – steep hills, clay soil, narrow valleys & precipitation

- <http://wesa.fm/post/climate-change-means-more-landslides-pittsburghs-future#stream/0>

Ocean waters continue to mix – inflowing waters vary in temperature, salinity & species

- <https://e360.yale.edu/features/alien-waters-neighboring-seas-are-flowing-into-a-warming-arctic-ocean>

Predicted change to Southern Ocean silicate front

- <https://oceanbites.org/predicted-change-to-the-southern-ocean-silicate-front/>

Criminal actions of stupid people: destroying 200 myo dinosaur tracks in Red Fleet State Park in Utah

- <https://www.treehugger.com/conservation/people-are-ripping-dinosaur-tracks-utah-and-tossing-them-water-fun.html>
- <https://stateparks.utah.gov/2018/04/30/stop-vandalising-the-dinosaur-tracks-at-red-fleet/>

Hurricane Harvey was fueled by warm waters of the Gulf of Mexico

- <https://arstechnica.com/science/2018/05/hurricane-harvey-was-fueled-by-record-heat-in-the-gulf-of-mexico/>

Super-computers revising hurricane forecasting

- <https://arstechnica.com/science/2018/05/hurricane-harvey-was-fueled-by-record-heat-in-the-gulf-of-mexico/>

Yes, the Flat Earth Society still exists – observations on a Flat Earth Convention – power & knowledge

- <https://arstechnica.com/science/2018/05/i-watched-an-entire-flat-earth-convention-for-my-research-heres-what-i-learned/>

“Snowball Earth” a consequence of Plate Tectonics

- <http://www.sci-news.com/geology/snowball-earth-plate-tectonics-05985.html>

Triassic carnivorous reptile from Tanzania finally gets scientific name: *Mandasuchus tanyauchen*

- <http://www.sci-news.com/paleontology/triassic-reptile-tanzania-mandasuchus-tanyauchen-05933.html>

Micro-fossils provide clues to climate on Earth a half billion years ago during Cambrian explosion

- http://www.spacedaily.com/reports/Tiny_fossils_unlock_clues_to_Earths_climate_half_a_billion_years_ago_999.html

Lightning strikes in pre-monsoon thunderstorms kill dozens across Bangladesh & India

- http://www.spacedaily.com/reports/Lightning_strikes_kill_dozens_across_Bangladesh_999.html

M6.2 EQ hits Afghanistan

- http://www.spacedaily.com/reports/Strong_62-magnitude_earthquake_rocks_Afghanistan_USGS_Strong_62-magnitude_earthquake_rocks_Afghanistan_USGS_999.html

Phytoplankton blooms in the North Sea

- http://www.terraily.com/reports/Spring_brings_phytoplankton_blooms_to_North_Sea_999.html

Variations in orbit of Earth have influenced climate for at least 215 million years

- http://www.terraily.com/reports/Earths_orbital_changes_have_influenced_climate_life_for_ms_for_at_least_215_million_years_999.html

Radar details mount collapse after most recent nuclear test in North Korea

- <https://www.sciencedaily.com/releases/2018/05/180510150045.htm>

Ediacara fauna flourished in bacterially rich marine habitats

- <https://www.sciencedaily.com/releases/2018/05/180504133621.htm>

Pennsylvania fossil site has yielded record of extinct 12-foot aquatic predator: *Hyneria lindae*

- <https://www.sciencedaily.com/releases/2018/05/180507153124.htm>

Volcanic hazard scenarios for Plinian eruptions of Mount Taranaki in New Zealand

- <https://www.sciencedaily.com/releases/2018/05/180503142955.htm>

Caihong juji - Flightless dinosaur had bright, rainbow-colored feathers

- <https://www.earthmagazine.org/article/flightless-dino-had-bright-rainbow-colored-feathers>

Travels in Geology – the ophiolites of Northern Oman

- <https://www.earthmagazine.org/article/travels-geology-northern-oman-stunning-canyons-towering-dunes-and-worlds-largest-ophiolite>

Remembering the “Old Man of the Mountain” that fell in New Hampshire 2 May 2003

- <https://www.earthmagazine.org/article/benchmarks-may-3-2003-new-hampshires-old-man-mountain-falls>

Predicting shifts in watersheds as climate changes

- <https://www.technology.org/2018/05/10/uo-duo-finds-way-to-predict-shifts-in-watersheds-as-climate-changes/>

Surface velocity map shows strain & continental deformation in northwestern Tibet

- <https://eos.org/research-spotlights/new-insights-into-continental-deformation-in-northwestern-tibet>

Realistic modeling of the complex behavior of gravity waves in the mesosphere

- <https://eos.org/research-spotlights/toward-more-realistic-modeling-of-the-mesosphere>

Is the “Grenville Front” in the central US really the Midcontinent Rift?

- <http://www.geosociety.org/gsatoday/science/G357A/GSATG357A.pdf>



Environmental Science Bulletin Board – 14 May 2018 – compiled by Elaine J. Hanford

Pesticide use on farms in California near record levels – 209 million pounds in 2016 (latest data)

- <https://www.fairwarning.org/2018/05/pesticides/>
- 2016 Pesticide Use Reporting: http://www.cdpr.ca.gov/docs/pur/pur16rep/16_pur.htm
- Reduced pesticide fine: <http://thehill.com/business-a-lobbying/386610-epa-pesticide-settlement-comes-under-scrutiny>

“One Water” movement is gaining momentum – helping environment & saving \$M

- <https://ensia.com/features/one-water/>

Running out of wilderness across the globe – humans degrading it for agriculture

- <https://www.treehugger.com/conservation/running-out-wilderness.html>

ARCO stops delivering bottled water to Herington Paiute Tribal land near abandoned copper mine

- <https://knpr.org/knpr/2018-05/mine-owners-stop-home-water-deliveries-herington-paiute-tribe>

Endangered red wolves still face uncertain future as population numbers decline

- <https://www.coastalreview.org/2018/05/prospects-dim-for-endangered-red-wolves/>

Toxic ecology or “Biosphere of War” now exists in Gaza – water pollution

- <https://www.livescience.com/62463-gaza-toxic-biosphere-of-war.html>

Tracking distinctive seismic vibrations of elephants may help protect against poachers

- <https://www.smithsonianmag.com/smart-news/earthquake-monitoring-technology-may-help-protect-elephants-poachers-180969035/>

Freddy the escaped bison has a song dedicated to him

- <https://www.smithsonianmag.com/smart-news/theres-choral-arrangement-all-about-runaway-bison-named-freddy-180969036/>
- <https://www.atlasobscura.com/articles/freddy-runaway-bison-winnipeg>

Cricket fans worry that wetter summers may hamper the sport

- <https://www.pakistantoday.com.pk/2018/05/09/what-impact-is-climate-change-having-on-cricket/>

Kayangel Atoll will be cleared of invasive rats – “Incubator Bird” will be saved

- <https://www.birdlife.org/worldwide/news/incredible-%E2%80%9CIncubator-bird%E2%80%9D-be-saved-rat-removal-pacific-island>
- https://www.birdlife.org/sites/default/files/kayangel_island_press_release.pdf

Ebola outbreak declared in Democratic Republic of Congo – at least 2 cases confirmed – 17 may have died

- <https://www.telegraph.co.uk/news/2018/05/08/new-outbreak-ebola-affects-least-2-northwest-dr-congo/>

Epitome of “stupid” human who tries to take selfie with injured bear and is mauled to death

- <http://start.att.net/news/read/article/people-bear-mauls-and-kills-man-in-india-after-man-tries-rtime/category/news>
- Selfies are dangerous: <https://www.independent.co.uk/news/world/asia/man-bear-selfie-video-mauled-death-selfies-india-odisha-asia-a8335806.html>

Humans cultivate and sell many species which are nearly extinct in the wild

- <https://www.smithsonianmag.com/science-nature/why-you-can-walk-store-and-buy-nearly-extinct-animal-180968892/>

“Social media” negatively affects mental health – depression, anxiety, addiction, memory...

- <https://www.independent.co.uk/life-style/health-and-families/social-media-mental-health-negative-effects-depression-anxiety-addiction-memory-a8307196.html>
- <https://www2.viu.ca/humanresources/documents/DangersofSocialMediaonYourMentalHealthQ12017.pdf>

Australia launches fuel security review as reserves dip below 50 days

- <https://www.coffscoastadvocate.com.au/news/government-launches-urgent-fuel-security-review-as/3408144/>

Two water-storage projects in Sacramento region get increase in state bond funding

- <http://www.sacbee.com/latest-news/article210494979.html>
- <https://cwc.ca.gov/Documents/2018/WSIP/PBRtable050418.pdf>

Draft of 2018 Farm Bill supports veterinary strategies & technologies to improve animal health

- <https://atwork.avma.org/2018/05/03/good-news-for-veterinarians-in-early-draft-of-farm-bill/>

Bipartisan Water Resources Bill introduced in US Senate

- <https://www.nature.org/newsfeatures/pressreleases/bipartisan-water-resources-bill-introduced-in-senate-includes-ecosystem-rest.xml>

Perspective: Habitat degradation continues causing decline in bird populations

- <https://www.centralmaine.com/2018/04/26/the-decline-of-the-birds/>

California mandates that new houses built after 2020 have solar power

- http://start.att.net/news/read/category/news/article/bloomberg_news-california_becomes_first_state_to_mandate_solar_on-rbloomberg

\$4B mega-mall planned for northwest Miami-Dade in Florida – environmental & economic concerns

- <http://www.miamiherald.com/news/local/community/miami-dade/article210642844.html>

Trying to clean up Wilmington - one of the most polluted neighborhoods in Los Angeles

- <https://www.citylab.com/environment/2018/05/the-kids-trying-to-green-one-of-las-most-polluted-neighborhoods/559640/>

WV DEP approves \$4.2B Rover Pipeline – Ohio EPA still has concerns about contamination

- <https://www.kallanishenergy.com/2018/05/10/rover-pipeline-in-compliance-in-w-va-fighting-with-ohio-epa/>

Most colorful natural phenomena

- <https://www.nationalgeographic.com/travel/lists/seasonal/colorful-natural-phenomena-things-to-do/>

Vacation time has big impact on global carbon footprint

- <https://www.nature.com/articles/d41586-018-05108-x>

38% drop in ER visits for asthma in Pittsburgh following closure of Shenango Coke Works

- <http://www.ehn.org/shenango-coke-works-closed-asthma-dropped-2566777141.html>
- Stacks imploded: <http://triblive.com/local/alleggheny/13625449-74/shenango-coke-works-smokestacks-imploded-on-neville-island>

Sierra Club intends to sue Cheswick Power Plant in Pennsylvania over air pollution

- <https://stateimpact.npr.org/pennsylvania/2018/05/09/sierra-club-says-it-will-sue-cheswick-power-plant-over-air-pollution/>

EPA announces future action on paint strippers that contain methylene chloride

- <https://www.publicintegrity.org/2018/05/10/21744/methylene-chloride-epa-regulation>

Biogas micro-grids could reduce odors and power outages for hog farm neighbors

- <http://www.ehn.org/biogas-microgrids-could-reduce-odors-and-outages-for-hog-farm-neighbors-energy-news-network-2567581876.html>

Perspective: Cows make lots of manure – drinking water sources need protection in New York State

- <https://www.timesunion.com/opinion/article/Editorial-No-secret-poop-plans-here-12892683.php#photo-15453589>

EPA fast-tracking cleanup of 5-mile plume in contaminated aquifer in Orange County, California

- <http://www.latimes.com/local/lanow/la-me-ln-superfund-orange-county-20180509-story.html>
- Superfund Site: <https://cumulis.epa.gov/supercpad/cursites/csinfo.cfm?id=0900251>

Smoking is bad for health, as is second-hand smoke – dangers also in third-hand smoke

- <http://www.philly.com/philly/health/third-hand-cigarette-smoke-cancer-asthma-20180509.html>

Hammond & Whiting, Indiana, have elevated lead levels in soil

- https://news.vice.com/en_us/article/435gab/the-soil-in-these-indiana-towns-has-five-times-the-legal-limit-of-lead
- <http://www.chicagotribune.com/news/local/breaking/ct-met-nw-indiana-lead-contamination-20180429-story.html>

Utah is one of the driest states in the US but is using biblical amounts of water

- <https://www.motherjones.com/environment/2018/05/god-said-make-the-desert-bloom-and-mormons-are-using-biblical-amounts-of-water-to-do-it/>

You are what you eat – Eating fast food linked to infertility

- <https://in.reuters.com/article/us-health-fertility-fast-food/eating-fast-food-linked-to-infertility-idINKBN1IA33B>

Perspective: USDA proposal for GMO food labels is “wacky”

- <https://modernfarmer.com/2018/05/the-usdas-proposal-for-gmo-food-labels-is-here-and-its-wacky/>

EPA to investigate toxic levels of manganese pollution in Southeast Chicago yards

- <http://www.chicagotribune.com/news/ct-met-manganese-southeast-side-yards-20180508-story.html>

Ranking the most bike-friendly cities in the US

- <https://www.outsideonline.com/2303806/people-bikes-rated-most-bike-friendly-us-cities>



Coastal Zone Management Bulletin Board – 14 May 2018 – compiled by Elaine J. Hanford

Just what Palm Beach needs – yet two more high rise towers

- <https://www.mypalmbeachpost.com/news/local/two-architectonica-towers-slated-for-west-palm-north-end-waterfront/px1jaeTxPmvNABJX7L7K6I/>

Model to show how rising seas “could swallow up” coastal cities & impacts of deforestation

- <https://www.nbcnews.com/mach/science/here-s-how-rising-seas-could-swallow-these-coastal-cities-ncna872466>
- Earthtime interactive: <https://earthtime.org/explore>

New model to help stakeholders determine factors to consider to rebuild coastal Louisiana

- <https://www.sciencedaily.com/releases/2018/05/180507134621.htm>
- <https://www.prnewswire.com/news-releases/new-breed-of-coastal-restoration-solutions-launched-300644980.html>

Residents want to save coastal cemetery from erosion

- <http://www.witn.com/content/news/Residents-hope-to-save-coastal-cemetery-thats-being-devoured-by-erosion-482101261.html>

China announces completion of 34-mile long Hong Kong-Zhuhai-Macau Bridge

- <https://edition.cnn.com/2018/05/04/asia/hong-kong-zhuhai-macau-bridge/>

Western Australia has policy of “managed retreat” – residents may not be compensated for loss

- <https://www.watoday.com.au/national/western-australia/valued-at-zero-wa-coastal-dwellers-face-financial-ruin-as-sea-rises-20180508-p4ze3z.html>

Connecticut State Senate passes bill that would require chemical & hazardous facilities along coastline to update emergency plans

- <https://www.stamfordadvocate.com/news/article/Coastal-chemical-plans-must-consider-sea-rise-12894325.php>

Proposed routes for Suncoast Parkway extension would impact protected wildlife in Florida

- <http://www.ocala.com/opinion/20180506/sandra-marrifino-wildlife-endangered-proposed-coastal-connector>

Georgia asks beachgoers to respect nesting shorebirds and seabirds

- <https://www.covnews.com/living/agriculture/give-beach-nesting-birds-their-space/>

A road trip along coastal South Carolina

- <http://www.atlantamagazine.com/southbound-articles/road-trip-coastal-south-carolina/>

Removing invasive Scotch Broom helps native species thrive in Oregon coastal prairies

- <https://yubanet.com/california/whittling-down-non-natives-crucial-to-save-a-beautiful-and-rare-species-the-oregon-silverspot-butterfly/>

Terminal groin rejected by Holden Beach commissioners- application permanently revoked

- <https://www.coastalreview.org/2018/04/holden-beach-says-no-to-terminal-groin/>

First translocated Laysan Albatross chick returns to James Campbell National Wildlife Refuge on Oahu as an adult

- <https://www.islandconservation.org/first-translocated-laysan-albatross-chick-returns/>

Hunt for invasive European green crab catches 16 in one month along coastal waters of Dungeness, Washington State

- <http://www.sequimgazette.com/news/hunt-for-invasive-green-crab-catches-16-in-dungeness-in-first-month/>

18th century ships found in old town Alexandria Virginia – may reveal clues to colonial era

- <https://www.smithsonianmag.com/smart-news/three-newly-discovered-18th-century-ships-found-buried-alexandria-virginia-180969033/>

Perspective: Chesapeake Bay is in the recovery process

- <http://www.baltimoresun.com/news/opinion/editorial/bs-ed-0504-chesapeake-20180502-story.html>

UK may ban wet wipes – changing shape of Thames Estuary & River

- <https://www.treehugger.com/plastic/uk-announces-it-may-ban-wet-wipes.html>

Baltic Sea as time machine reflecting changes in coastal zones

- <https://phys.org/news/2018-05-baltic-sea-machine.html>