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Geoscience Bulletin Board – 7 January 2019 – compiled by Elaine J. Hanford

Planetary Geology – Simulations suggest Uranus was struck by Earth-sized body

- https://start.att.net/news/read/category/news/article/bgr-uranus_was_slammed_by_an_object_twice_the_size_of-rpenskemc

Less wastewater injection reduces seismic activity in Oklahoma but still above historical averages

- https://www.tulsaworld.com/news/state-and-regional/oklahoma-earthquakes-decline-for-third-year-but-state-primed-to/article_85e6080e-a991-5131-b154-95dc90fc6528.html

Some evidence for the cause of the Great Unconformity across the world

- <https://arstechnica.com/science/2019/01/huge-break-in-geological-record-could-be-due-to-a-snowball-earth/>

Klobiodon rochei – new order of Middle Jurassic pterosaurs discovered in England

- <http://www.sci-news.com/paleontology/klobiodon-rochei-06768.html>

Permian “hidden cradle of plant evolution” discovered in Jordan

- http://www.terraviva.com/reports/Earliest_evidence_of_three_plant_groups_unearthed_in_Jordan_999.html

Anak Krakatoa lost two-thirds of height – estimated 150M to 180M cubic meters of material lost during eruption and landslide

- <https://phys.org/news/2018-12-indonesian-tsunami-volcano-lost-two-thirds.html>

- <https://phys.org/news/2019-01-scientists-anak-krakatau-volcano-tsunami.html>
- <http://theconversation.com/why-the-child-of-krakatau-volcano-is-still-dangerous-a-volcanologist-explains-109275>
- <https://www.forbes.com/sites/robinandrews/2019/01/03/this-is-what-those-new-satellite-images-of-anak-krakatau-are-showing/#360d2bc27560>

Tackling Ordovician integrative stratigraphy and timescale subdivision and correlation in China

- https://www.eurekalert.org/pub_releases/2019-01/scp-tkq010219.php

Low-intensity “hum” caused by slow slip near Vancouver Island may help predict next major EQ in Cascadia Subduction Zone

- <https://vancouver.sun.com/news/canada/a-strange-low-intensity-hum-near-vancouver-island-may-help-predict-when-the-next-killer-earthquake-will-strike/wcm/04836096-8361-4829-a062-93321eec183d>

Drilling project begins for Baringo-Silali geothermal Project in Kenya

- <https://www.energymixreport.com/drilling-set-to-start-on-baringo-silali-geothermal-project-kenya/>

Peak Oil Review

- <https://www.resilience.org/stories/2019-01-02/peak-oil-review-2-january-2019/>

Science News for Students: Asteroid impact in Greenland may have triggered Younger Dryas cooling

- <https://www.sciencenewsforstudents.org/article/massive-crater-hides-under-greenlands-ice>

Mary Anning changed fossil hunting and dinosaur science

- <https://thenextweb.com/syndication/2019/01/02/how-a-poor-victorian-woman-changed-the-way-we-do-dinosaur-science/>

Temperatures increase as continental collision develops & result in Barrovian sequence of regional metamorphism

- <https://eos.org/research-spotlights/regional-metamorphism-occurs-before-continent-collide>

15th International Circumpolar Remote Sensing Symposium was held in Potsdam, Germany

- <https://eos.org/meeting-reports/remote-sensing-leads-to-better-understanding-of-polar-regions>

Geophysical methods may provide methods of soil structure characterization over varied spatial & temporal scales

- <https://eos.org/editors-vox/the-geophysical-signatures-of-soil-structure>

Exploring the far side of the Moon – geological & geopolitically significant

- <https://www.theatlantic.com/science/archive/2019/01/far-side-moon-china/579349/>

Creating a “virtual seismologist”

- <http://www.caltech.edu/news/qa-creating-virtual-seismologist-84789>

Geologically constrained velocity models improve field development

- <https://www.epmag.com/geologically-constrained-velocity-models-improve-field-development-1727146>

Derivation of some geologic terms: orogeny, ostracods, schist & gneiss

- <https://interestingengineering.com/8-fascinating-origins-of-some-common-science-words>

Reflections on the legacy of Grove Karl Gilbert (1843-1918)

- <https://eos.org/features/reflections-on-the-legacy-of-grove-karl-gilbert-1843-1918>

Exploring the inside of a glacial crevasse

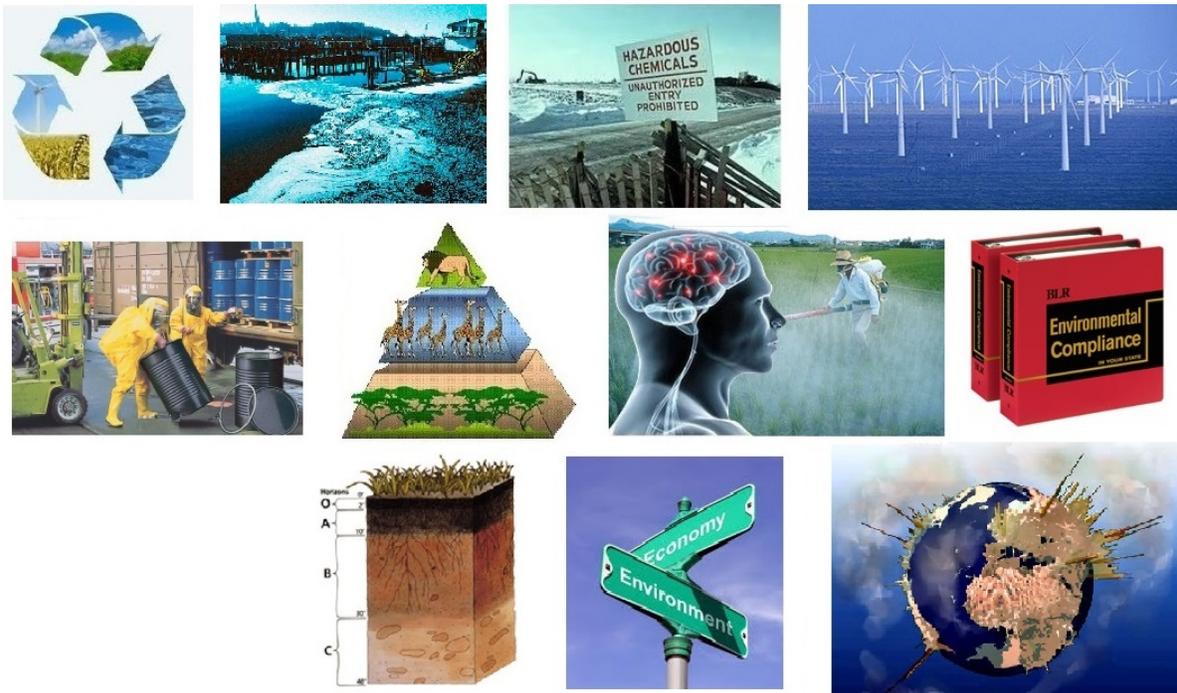
- <https://www.accuweather.com/en/videos/incredible-footage-shows-explorer-climbing-up-glacier-crevasse/n3n2h5zze6goacq31ytzyt8wurc1ub8>

Seismic hazard estimate for Seattle has increased – the M9 project

- <https://www.seattletimes.com/seattle-news/science/how-safe-are-seattles-high-rises-new-study-predicts-stronger-earthquake-shaking/>
- The Project: <https://hazards.uw.edu/geology/m9/>

Zircon crystals may not provide evidence of early development of magnetic field of Earth

- <https://phys.org/news/2019-01-zircon-crystals-evidence-early-magnetic.html>



Environmental Science Bulletin Board – 7 January 2019 – compiled by Elaine J. Hanford

Easy New Year resolution: consume less

- <https://www.nytimes.com/2019/01/02/climate/climate-fwd-new-years-resolutions.html>

Fungus-like infection detected in wild ponies in Chincoteague National Wildlife Refuge – 7 dead to date

- <https://www.msn.com/en-us/news/us/on-an-island-famous-for-wild-ponies-a-dangerous-infection-is-killing-horses/ar-BBRARDS>

Re-evaluating mercury emissions standards based on cost-benefit standard in Clean Air Act

- <https://apnews.com/5c675cd468e648e7b97d4988bbb3d05e>

Perspective: Lessons from Orange County, California, water strategy: recycling & efficiency

- <https://www.greenbiz.com/article/lessons-orange-county-californias-water-strategy>

In China, 1.39B population is aging and birth rate is declining

- https://start.att.net/news/read/category/news/article/newsweek-experts_chinas_population_is_degenerating-rnewsweek
- <https://www.news18.com/news/world/chinas-two-child-policy-fails-to-click-new-borns-number-dips-by-2-million-in-2018-1989577.html>

Centuries old hydraulic systems to improve access to water in Peruvian Andes

- <https://www.npr.org/sections/goatsandsoda/2019/01/02/600833370/climate-change-is-bad-for-perus-pastures-but-theres-a-1-200-year-old-solution>

US ends 2018 with much of the West again in drought

- <https://www.npr.org/2018/12/26/676953511/theres-a-lot-at-stake-in-the-weekly-u-s-drought-map>

Mojave County, Arizona, coping with too much agriculture and water wells – groundwater declines

- <https://www.eenews.net/stories/1060110247>

Three beetles named after “Game of Thrones” dragons

- https://www.huffingtonpost.com/entry/brett-ratcliffe-game-of-thrones-beetles_us_5c2a7256e4b08aaf7a92e3de

More than 10,000 contracted Hepatitis A in outbreaks across the US in 2018 – mostly homeless & drug-using populations

- https://www.huffingtonpost.com/entry/hepatitis-a-outbreak-america_us_5c0ecf0fe4b06484c9fd9d0c

Mega-sewer beneath the City of Chicago – attempting to build their way out of a problem

- <https://slate.com/business/2019/01/chicagos-deep-tunnel-is-it-the-solution-to-urban-flooding-or-a-cautionary-tale.html>

Trawler ran aground at Svalbard – crew rescued but 300,000 liters of diesel oil remain on board

- <https://thebarentsobserver.com/en/arctic/2018/12/drama-arctic-waters-trawler-runs-aground-svalbard>

Yosemite visitors creating crisis of garbage and human waste in the National Park

- <https://www.sacbee.com/news/nation-world/national/article223795490.html>

Apparent reversal in shrinking of Lake Urmia in Iran

- http://www.terradaily.com/reports/Iran_sees_revival_of_imperilled_Lake_Urmia_999.html

Zinc is essential component of health and metabolic functions

- http://www.terradaily.com/reports/Genetic_polymorphisms_and_zinc_status_999.html

Men should consider how exposure to THC in pot could impact their sperm and possibly future children

- <https://www.sciencedaily.com/releases/2018/12/181219075846.htm>

Previously unknown strain of bacteria from ancient Irish soil halts growth of superbugs

- <https://www.sciencedaily.com/releases/2018/12/181227111427.htm>

Chinese war on particulate air pollution causing more severe ozone pollution

- <https://phys.org/news/2019-01-china-war-particulate-air-pollution.html>

Agricultural nutrient & sediment runoff impact stream water quality over time – conservation tillage

- https://www.eurekalert.org/pub_releases/2019-01/asoa-lta123118.php

2020 Olympic torches to be made from aluminum recycled from Fukushima temporary housing

- <https://www.japantimes.co.jp/news/2019/01/01/national/2020-olympic-torches-made-recycled-aluminum-fukushima-temporary-housing/#.XCz-FfZFyUk>

New study modeled complementarity in Texas of wind & solar resources for power generation

- <https://www.houstonchronicle.com/business/energy/article/Texas-has-enough-sun-and-wind-to-quit-coal-Rice-13501700.php>
- Paper: <https://jrenewables.springeropen.com/articles/10.1186/s40807-018-0054-3>

Maryland banned fracking & now rejects proposed TransCanada pipeline under the Potomac River

- <https://www.apnews.com/87385a8db7094a28814c8abb12c035c2>

Woman in Virginia dies from rabies weeks after being bitten by dog in India

- https://www.cdc.gov/mmwr/volumes/67/wr/mm675152a2.htm?s_cid=mm675152a2_w

Book Review: “Sicker, Fatter, Poorer” - costs of hormone-disrupting chemicals

- <https://www.cbsnews.com/news/sicker-fatter-poorer-the-cost-of-hormone-disrupting-chemicals/>

Monarch Butterflies are now wintering in Florida rather than Mexico

- <https://www.popsci.com/monarch-butterflies-winter-destinations-florida#page-2>

Endangered Florida panther habitat for hunting & roaming lies within proposed construction area

- <https://www.theguardian.com/us-news/2019/jan/02/florida-panther-extinction-collier-county-development-project>

Seeking to unify river corridor exchange in propagation & transformation of landscape

- <https://www.advancedsciencenews.com/advancing-predictive-understanding-of-river-corridor-exchange/>



Coastal Zone Management Bulletin Board – 7 January 2019 – compiled by Elaine J. Hanford

2nd tallest cable-stayed bridge in the US in final year of construction

- <https://www.equipmentworld.com/construction-heads-into-final-year-for-2nd-tallest-cable-stayed-bridge-in-u-s-video/>

18-km sunken-tube road & rail tunnel will link Denmark & Germany

- <https://www.enr.com/articles/46135-tunnel-linking-denmark-and-germany-wins-approval>

20-year old wind farm off coast of Sweden upgraded and revitalized

- <https://arstechnica.com/information-technology/2018/12/offshore-act-two-new-owner-repowers-20-year-old-wind-farm-off-swedish-coast/>

Trash is economic, environmental, human health, and aesthetic problem for Gulf Coast communities

- <https://www.sciencedaily.com/releases/2018/12/181228164819.htm>

Seagrass beds are effective in protecting tropical beaches from erosion – saves beaches & money

- https://www.eurekalert.org/pub_releases/2019-01/rnif-ssb121718.php

Down to Earth with Coastal Scientist Gary Griggs

- <https://www.earthmagazine.org/article/down-earth-coastal-scientist-gary-griggs>

Major tsunami struck southern coast of China in 1076 causing “drastic cultural decline”

- <https://phys.org/news/2019-01-major-tsunami-struck-southern-china.html>

Increased seismic research in Eastern Mediterranean by Turkey angers Cyprus & Greece

- <https://ahvalnews.com/eastern-mediterranean/increased-turkish-seismic-research-eastern-mediterranean-angers-cyprus-and>

Potential consequence of poor coastal planning in New Jersey

- <https://whyy.org/articles/poor-coastal-planning-makes-n-j-vulnerable-as-climate-changes-study-finds/>

Being born in these coastal areas may mean longer lifespan

- <https://www.coastalliving.com/lifestyle/florida-life-expectancy-longer>

In response to lawsuit – Oregon must issue new regulations addressing trapping of critically imperiled Humboldt martens in coastal forests

- https://www.biologicaldiversity.org/news/press_releases/2019/coastal-marten-01-03-2019.php

Bird habitat preservation initiative adds 1700 acres of coastal land in New Jersey

- <https://whyy.org/articles/bird-habitat-preservation-initiative-adds-1700-acres-of-coastal-n-j-land/>

Recycled Christmas trees to be used as natural sand fence in Virginia to reduce coastal erosion

- <https://wtkr.com/2019/01/02/recycled-christmas-trees-fight-coastal-erosion-in-virginia-beach-and-the-outer-banks/>

US Army Corps of Engineers awarded \$92M contract for first phase to deepen & widen Corpus Christi Ship Channel – project estimated at \$326M

- <https://www.chron.com/business/energy/article/First-dredging-contract-awarded-to-deepen-widen-13506747.php>