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### Geoscience Bulletin Board – 3 December 2018 – compiled by Elaine J. Hanford

Interpreting an apparent weakening of the Atlantic Meridional Overturning Circulation

- [http://www.spacedaily.com/reports/Ocean\\_circulation\\_in\\_North\\_Atlantic\\_at\\_its\\_weakest\\_999.html](http://www.spacedaily.com/reports/Ocean_circulation_in_North_Atlantic_at_its_weakest_999.html)
- <https://www.forbes.com/sites/trevornace/2018/11/27/global-ocean-circulation-keeps-slowing-down-heres-what-it-means/#59ed2a916720>

Atlantic Ocean slowly became a part of global oceanic circulation

- [http://www.spacedaily.com/reports/How\\_the\\_Atlantic\\_Ocean\\_became\\_part\\_of\\_the\\_global\\_circulation\\_at\\_a\\_climatic\\_tipping\\_point\\_999.html](http://www.spacedaily.com/reports/How_the_Atlantic_Ocean_became_part_of_the_global_circulation_at_a_climatic_tipping_point_999.html)

Sunset Crater and the San Francisco volcanic field were active about 1,000 years ago

- [http://www.spacedaily.com/reports/Sunset\\_crater\\_San\\_Francisco\\_volcanic\\_field\\_999.html](http://www.spacedaily.com/reports/Sunset_crater_San_Francisco_volcanic_field_999.html)

Caldera cycles in the Phlegraean Fields near Naples, Italy

- [http://www.terraily.com/reports/The\\_final\\_stage\\_before\\_a\\_big\\_bang\\_999.html](http://www.terraily.com/reports/The_final_stage_before_a_big_bang_999.html)

Oxygen-producing photosynthesis could have occurred on Earth 3.5B years ago

- <https://www.sciencedaily.com/releases/2018/11/181127131552.htm>

Powerful volcanic eruption occurred on Deception Island 3,980 years ago – comparable to 1815 Tambora eruption

- <https://www.sciencedaily.com/releases/2018/11/181126105503.htm>

Whatever happened to the Siberian unicorn?

- <https://www.technology.org/2018/11/27/climate-change-wiped-out-the-siberian-unicorn/>

North & South Island of New Zealand slowly getting closer together

- <https://www.livescience.com/64175-earthquake-pushed-new-zealand-islands-closer.html>

What is the lifespan of impact craters on the surface of the Moon?

- <https://sciencetrends.com/small-impact-craters-of-the-moon-how-long-is-their-life-on-the-lunar-surface/>

New natural gas production fields in Gulf of Mexico could reverse declines in production

- <https://www.technology.org/2018/11/27/new-projects-expected-to-reverse-gulf-of-mexico-natural-gas-production-declines/>

*Lisowicia bojani* – newly discovered Triassic mammal cousin weighed about 9 tons

- <https://www.sciencemag.org/news/2018/11/giant-time-dinosaurs-ancient-mammal-cousin-looked-cross-between-rhino-and-turtle>

GEER Report on the 2018 landslide & floods of Kerala, India

- [http://www.geerassociation.org/administrator/components/com\\_geer\\_reports/geerfiles/GEER\\_2018\\_August\\_Kerala\\_Flood\\_Report\\_V1.pdf](http://www.geerassociation.org/administrator/components/com_geer_reports/geerfiles/GEER_2018_August_Kerala_Flood_Report_V1.pdf)

35<sup>th</sup> year of observations of the North Cascade Range

- <https://blogs.agu.org/fromaglaciersperspective/2018/11/19/35th-annual-field-observations-of-north-cascade-glaciers/>

Leaning Tower of Pisa tilt has reduced by about 1.5 inches

- <https://www.smithsonianmag.com/smart-news/leaning-tower-pisa-has-gotten-little-straighter-180970882/>

15-carat HPHT synthetic diamond

- <https://www.gia.edu/gems-gemology/summer-2018-labnotes-15-carat-hpht-synthetic-diamond>

Massive ilmenite project enters final permitting stage in Greenland

- <http://www.mining.com/bluejay-mining-enters-final-permitting-stages-massive-ilmenite-project-greenland/>
- <https://www.titanium.gl/announcements/dundas-permitting-update/>
- Ilmenite: <https://geology.com/minerals/ilmenite.shtml>

Data from 50-year old seismometers on the Moon providing data for new insights

- <https://spectrum.ieee.org/tech-talk/aerospace/space-flight/old-lunar-data-gets-new-life-with-help-from-seismologists>

Ground collapse confirmed following 2017 North Korea nuclear test

- [https://www.upi.com/Top\\_News/World-News/2018/11/28/5641543395598/?sl=1](https://www.upi.com/Top_News/World-News/2018/11/28/5641543395598/?sl=1)

How geology made America great as a result of continental collision

- <https://www.forbes.com/sites/davidbressan/2018/11/28/how-geology-made-america-great/#5cb843cb5b74>

Characterizing & tracing the history of a new African meteorite from Madagascar

- <https://www.sciencedaily.com/releases/2018/11/181127111028.htm>

Perspective of one geologist on the origins of Half Dome in Yosemite

- <http://discovermagazine.com/2018/dec/eyewitness-to-geology>
- Paper: <https://www.nature.com/articles/s41467-017-02728-1>

New algorithm identifies & tracks explosive volcanic ash plumes

- <https://www.sciencenews.org/article/algorithm-volcanic-ash-clouds-airplanes>

Newest Mars mission may transform the science of Interplanetary Geology

- <https://www.theatlantic.com/science/archive/2018/11/insight-lander-mars-nasa/576622/>

Construction has added significant weight to London, England

- <https://www.forbes.com/sites/lauriewinkless/2018/11/27/london-has-been-putting-on-weight-thanks-to-construction/#65c6911228a3>

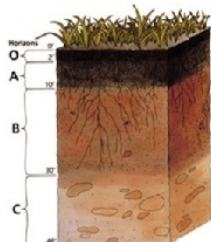
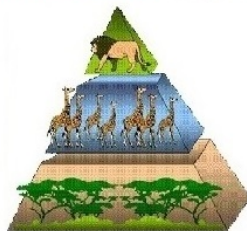
Groundbreaking set for new geothermal energy project in Saskatchewan, Canada

- <http://www.hydrogenfuelnews.com/canadian-geothermal-power-project-to-break-ground-in-saskatchewan/8536446/>

Lee cloud captured in image of volcano Arsia Mons on Mars – 950 miles in length

- <https://www.space.com/42535-mysterious-cloud-over-mars-volcano.html>

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## Environmental Science Bulletin Board – 3 December 2018 – compiled by Elaine J. Hanford

“Camp Fire” is now fully contained thanks to rains & snow on Thanksgiving – but work remains

- <https://www.apnews.com/66e6718c51d947cbbd9b7ccfb283fdf7>
- <https://www.npr.org/2018/11/27/671074763/88-dead-203-still-unaccounted-for-after-camp-fire-contained>

68 high-rises in San Francisco have potential flaws prone to crack in an EQ

- <https://www.sfchronicle.com/science/article/68-SF-high-rises-crack-earthquake-which-ones-safe-13418917.php>
- <https://www.sfchronicle.com/bayarea/article/New-report-finds-overlooked-earthquake-13279765.php>

An early Christmas present for global warming alarmists: Fourth National Climate Assessment – Volume II: Impacts, Risks & Adaptation in the US – 3 degrees warming by 2100?

- <https://www.theatlantic.com/science/archive/2018/11/most-chilling-parts-2018-climate-assessment/576598/>
- <https://www.forbes.com/sites/marshallshepherd/2018/11/26/what-is-the-national-climate-assessment-and-where-did-it-come-from/#78ac10c93666>
- [https://www.huffingtonpost.com/entry/trump-climate-assessment\\_us\\_5bf5b31fe4b0771fb6b57ccb](https://www.huffingtonpost.com/entry/trump-climate-assessment_us_5bf5b31fe4b0771fb6b57ccb)
- Report: <https://nca2018.globalchange.gov/>
- [http://www.terradaily.com/reports/Greenhouse\\_gas\\_levels\\_in\\_atmosphere\\_hit\\_new\\_high\\_UN\\_999.html](http://www.terradaily.com/reports/Greenhouse_gas_levels_in_atmosphere_hit_new_high_UN_999.html)
- <https://phys.org/news/2018-11-carbon-atmosphere-climate-catastrophe.html>

China issued new rules to tighten notification for cases of African Swine Fever

- <https://www.euronews.com/2018/11/21/china-cracks-down-on-african-swine-fever-reporting>

Perspective: Key element of wind energy – useful lifespan of turbine is only 20 years

- <https://www.powerlineblog.com/archives/2018/11/exposed-a-key-element-of-the-wind-energy-fraud.php>
- <https://arstechnica.com/science/2018/11/repowering-the-uks-oldest-wind-farms-could-boost-energy-generation-by-171/>

Perspective: Should California allow more wind energy?

- <https://www.sanluisobispo.com/opinion/editorials/article221979270.html>
- <https://www.nature.com/articles/d41586-018-07528-1>

Goals of “Global Burden of Disease” are not being met

- <https://www.npr.org/sections/goatsandsoda/2018/11/27/668233128/were-living-longer-but-a-medical-journal-sees-many-causes-for-alarm>
- Paper: [https://www.thelancet.com/pdfs/journals/lancet/PIIS0140-6736\(18\)32279-7.pdf](https://www.thelancet.com/pdfs/journals/lancet/PIIS0140-6736(18)32279-7.pdf)

Treatment trials launched amidst outbreak of Ebola in Democratic Republic of the Congo

- <https://www.npr.org/2018/11/27/670913385/ebola-treatment-trials-launched-in-democratic-republic-of-the-congo-amid-outbreak>



NAFTA created an impending crisis in Mexico - illusory sustainability & water demands

- <https://sese.asu.edu/about/news/article/3652>

Assessing the basis for identifying chemicals as toxic to the environment

- <https://www.treehugger.com/clean-water/teflon-replacement-track-test-definition-hazardous-chemicals.html>

You are what you eat: pesticide residues in the food supply

- <https://www.ehn.org/when-safe-may-not-really-be-safe-2621578745.html>
- <https://www.fda.gov/NewsEvents/Newsroom/FDAInBrief/ucm622192.htm>
- Report:  
<https://www.fda.gov/downloads/Food/FoodbornIllnessContaminants/Pesticides/UCM618373.pdf>

Antibiotic resistant bacteria in Puget Sound wildlife could also pose threat to humans

- <https://www.kuow.org/stories/superbacteria-showing-up-in-puget-sound-wildlife-from-orcas-to-otters>

The role of soil in the global carbon cycle

- [http://www.spacedaily.com/reports/Six\\_feet\\_under\\_a\\_new\\_approach\\_to\\_global\\_warming\\_999.html](http://www.spacedaily.com/reports/Six_feet_under_a_new_approach_to_global_warming_999.html)

Population of Monarch butterflies has declined 80% since 2005

- <http://www.wlrn.org/post/monarch-butterfly-population-down-80-2005-researchers-say-there-s-still-hope>

When should US EPA issue certificate of completion for Hudson River PCB dredging project?

- [https://www.dailyfreeman.com/news/local-news/too-soon-for-hudson-river-dredging-to-be-deemed-complete/article\\_a54c1d5e-f18e-11e8-aeb5-3ba9877c0237.html](https://www.dailyfreeman.com/news/local-news/too-soon-for-hudson-river-dredging-to-be-deemed-complete/article_a54c1d5e-f18e-11e8-aeb5-3ba9877c0237.html)

Pilot project releasing millions of genetically modified mosquitoes to eliminate diseases did not work

- <https://edmontonjournal.com/news/world/millions-of-genetically-modified-mosquitoes-released-in-scheme-to-get-rid-of-diseases-like-malaria-it-didnt-work/wcm/7fb111e5-09f8-4154-8e4d-b6bc7db0d96c>

Book Review: "The Poison Squad" relates development of food safety laws

- <https://arstechnica.com/science/2018/11/meet-the-father-of-the-fda-a-fearless-crusader-for-food-safety/>

Persistence of pesticides threaten European soils & agriculture

- <https://www.sciencedaily.com/releases/2018/11/181126134257.htm>

USDA to invest \$449M+ in innovative water management system in Sacramento Valley, California

- <https://www.usda.gov/media/press-releases/2018/11/27/usda-invests-innovative-management-california-water-supply>

Plans for mega-dams on Santa Cruz River in Argentina put environment at risk

- <https://www.worldwildlife.org/stories/plans-for-mega-dams-put-argentina-s-santa-cruz-river-its-wildlife-local-livelihoods-and-perito-moreno-glacier-at-risk>

Ancient dental plaque reveals how much human microbiome has changed

- <https://arstechnica.com/science/2018/11/medieval-dental-plaque-sheds-light-on-how-our-microbiomes-have-changed/>

Is it possible to have “commons” with the “tragedy” – sharing resources under certain conditions

- <https://phys.org/news/2018-11-people-sustainably-resources-conditions.html>

Fertile soil is becoming a rarity

- <http://www.earthisland.org/journal/index.php/articles/entry/will-work-for-dirt>

FSAP publishes Joint Strategic Plan

- [https://www.aphis.usda.gov/about\\_aphis/downloads/aphis-strategic-plan.pdf](https://www.aphis.usda.gov/about_aphis/downloads/aphis-strategic-plan.pdf)

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Women in small island states exposed to high levels of mercury from power plants & artisanal gold mining

- <https://news.mongabay.com/2018/11/women-in-small-island-states-exposed-to-high-levels-of-mercury-study/>
- Report: [https://ipen.org/sites/default/files/documents/ipen-mercury-sids-v1\\_5-en-web.pdf](https://ipen.org/sites/default/files/documents/ipen-mercury-sids-v1_5-en-web.pdf)

Nuclear waste graveyard in Kara Sea is now home to influx of snow crabs

- <https://thebarentsobserver.com/en/ecology/2018/11/arctic-crab-invasion-comes-nuclear-waste-graveyard>

Coastal zone management in the Virgin Islands – historic overview

- <https://stjohnsource.com/2018/11/05/czm-no-easy-solution-to-protecting-coastal-waters/>

Updated hydrographic information in Jamaica

- <https://www.hellenicshippingnews.com/marine-interests-in-jamaica-set-to-benefit-from-updated-hydrographic-information/>

Call for protecting a vanishing shoreline in Connecticut

- <https://www.ctpost.com/politics/article/Connecticut-s-vanishing-shoreline-One-storm-13424766.php>

A new methodology for calculating biological productivity in coastal waters

- <https://eos.org/research-spotlights/tool-to-capture-marine-biological-activity-gets-coastal-upgrade>

Virginia alters state building code to require stronger & safer construction for coastal homes

- [https://www.washingtonpost.com/local/new-state-building-code-could-alter-coastal-neighborhoods/2018/11/28/ae573d9c-f2ed-11e8-99c2-cfca6fcf610c\\_story.html?utm\\_term=.501e2419f12c](https://www.washingtonpost.com/local/new-state-building-code-could-alter-coastal-neighborhoods/2018/11/28/ae573d9c-f2ed-11e8-99c2-cfca6fcf610c_story.html?utm_term=.501e2419f12c)

Project intended to slow coastal erosion on north shore of Oahu is damaged by winter waves

- <https://www.hawaiinewsnow.com/2018/11/28/powerful-winter-waves-damage-project-aimed-slowing-coastal-erosion/>

Considering a wall to protect Tangier Island in Chesapeake Bay

- <https://www.dw.com/en/can-a-wall-protect-tangier-island-from-rising-seas/a-46056726>

Concrete structure uncovered on Sullivan's Island may be coastal defense turret "Panama"

- <https://wpde.com/news/local/concrete-structure-uncovered-on-sullivans-island-believed-to-be-coastal-defense-turret>

Promoting coastal rowing as a spectator sport

- <https://www.scmp.com/sport/hong-kong/article/2175018/testing-waters-coastal-rowing-can-find-mass-appeal-spectator-sport>

Plan for repaving Highway 80 on Tybee Island following flood waters

- <https://www.wsav.com/top-stories/tybee-leaders-address-repaving-project-after-coastal-flooding-closes-hwy-80/1619435954>

Different ways to respond to potential coastal flooding in Southern California

- <https://www.sandiegouniontribune.com/news/columnists/michael-smolens/sd-me-smolens-sea-level-rise-20181125-story.html>