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Geoscience Bulletin Board – 31 December 2018 – compiled by Elaine J. Hanford

Partial collapse of Anak Krakatau volcanic island triggered tsunami that hit Indonesia

- <https://uk.reuters.com/article/us-indonesia-tsunami-science/krakatau-volcano-partial-collapse-triggered-indonesia-tsunami-officials-idUKKCN1ON034>
- http://www.spacedaily.com/reports/Indonesias_angry_Child_of_Krakatoa_rumbles_on_999.html
- https://www.huffingtonpost.com/entry/us-geological-survey-unable-to-provide-tsunami-data-due-to-government-shutdown_us_5c1fd6c7e4b0407e907c331d
- <https://www.bbc.com/news/science-environment-46666633>
- <https://blogs.agu.org/landslideblog/2018/12/26/anak-krakatau-1/>

Mount Etna eruption accompanied by dozens of seismic tremors as new vent opened

- <https://www.bbc.com/news/world-europe-46675110>
- <http://blogs.discovermagazine.com/rockyplanet/2018/12/24/new-vent-lava-ash-on-italys-etna/>
- <https://www.brisbanetimes.com.au/world/europe/panic-as-earthquake-at-mount-etna-jolts-sicily-20181227-p50ock.html>

O&G exploration halted after Exxon-Mobil ship confronted by Venezuelan authorities

- <https://www.chron.com/business/energy/article/Exxon-Mobil-exploration-halted-after-Venezuela-13488586.php>

Evaluating “ground up” formation of tornadoes for issuing warnings

- <https://phys.org/news/2018-12-wrong-tornadoes.html>

Impacts of dust deposition on “greatest snow on Earth” in Wasatch Mountains of Utah

- <https://phys.org/news/2018-12-threatens-utah-greatest-earth.html>

Bakchar ironstone deposits in western Siberia may have resulted from upward migration of Fe-rich brine and hydrothermal fluid

- https://www.eurekalert.org/pub_releases/2018-12/tpu-hro122118.php

Mammal lineages co-existed with the dinosaurs with four surviving the end-Cretaceous mass extinction event

- https://www.eurekalert.org/pub_releases/2018-12/fda-ti122018.php

Tennis ball sized, cauliflower shaped hailstones pummel Sydney, Australia

- http://www.spacedaily.com/reports/Sydney_pummelled_by_hail_the_size_of_tennis_balls_999.html

Did you see the winter solstice moon?

- <https://www.treehugger.com/natural-sciences/everything-know-about-winter-solstice-moon.html>
- <https://www.earthmagazine.org/article/geologic-column-light-amid-darkness-celebrations-during-winter-solstice>
- <https://www.livescience.com/57280-winter-solstice-science-explained.html>

USGS updates the 2005 Volcanic Threat Assessment

- <https://www.usgs.gov/news/which-us-volcanoes-pose-a-threat>

Significance of some 200 flying pterosaurs from the Stonesfield Slate in Great Britain

- <https://www.sciencedaily.com/releases/2018/12/181220104705.htm>

450 fossilized millipedes found in 100 myo Burmese amber

- <https://www.sciencedaily.com/releases/2018/12/181219115600.htm>

Copper was not included on the list of “critical minerals”

- <https://www.earthmagazine.org/article/critical-minerals-list-snubs-copper-sparks-discussion-criticality>

7 interesting facts about snow

- <https://www.technology.org/2018/12/22/7-interesting-facts-about-snow-what-it-is-whats-its-colour-and-how-warm-are-igloos/>

Geochemical methods resolve long-standing debate in amber paleontology

- <https://sciencetrends.com/geochemical-methods-help-resolve-a-long-standing-debate-in-amber-palaeontology/>

Sea-floor sediment transport & the summer monsoon season

- <https://sciencetrends.com/investigating-sea-level-sediment-transport-and-the-summer-monsoon-season/>

Paper: Closure of the Bering Strait caused Mid-Pleistocene Transition cooling & lengthening of glacial cycles

- <https://www.nature.com/articles/s41467-018-07828-0>

Paper: Triassic eustatic variations re-examined limited by paucity of preserved marine stratigraphic records

- <http://www.geosociety.org/gsatoday/science/G381A/GSATG381A.pdf>

Bouvet Island – most remote - a small volcanic rock in the South Atlantic

- <https://www.bbc.com/news/science-environment-46547254>

Utah among top 10 states for mining production in 2017

- <https://www.deseretnews.com/article/900047932/utah-has-plenty-of-bling-from-mining.html>

“Rat-hole” mining in Meghalaya despite NGT court ban in India

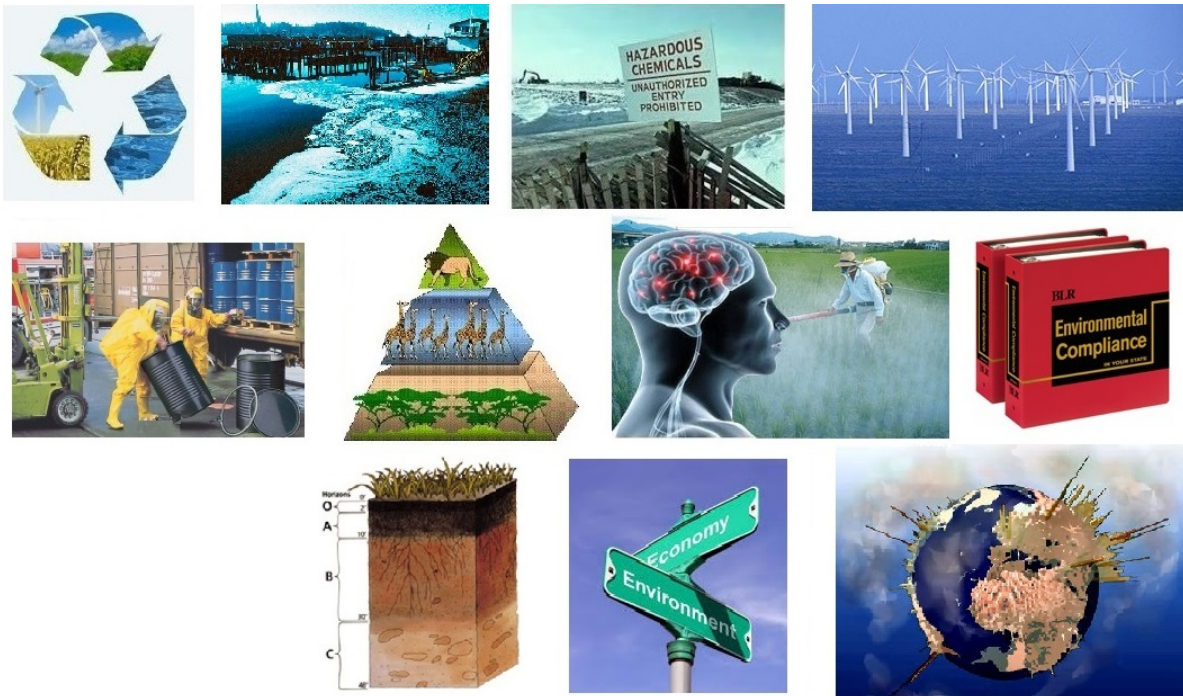
- <https://www.ndtv.com/india-news/rat-hole-mining-rampant-in-meghalaya-despite-green-court-ban-1967891>

Geomythologists prove Atlantis-style myths to be true

- <https://www.forbes.com/sites/davidbressan/2018/12/21/the-atlantis-style-myths-that-geology-proved-to-be-true/#4c77d187110b>

Glaciers “sing” as they fracture at night

- <https://www.scientificamerican.com/article/glaciers-sing-as-they-crack-at-night/>



Environmental Science Bulletin Board – 31 December 2018 – compiled by Elaine J. Hanford

Americans are getting fatter – Time to make and keep a New Year Resolution to get healthier!

- <https://start.att.net/news/read/article/cnn-are-you-heavier-or-shorter-than-the-average-american-cnn2/category/news>
- 2018 Report: <https://www.cdc.gov/nchs/data/nhsr/nhsr122-508.pdf>
- 2004 Report: <https://www.cdc.gov/nchs/data/ad/ad347.pdf>

Global warming alarmists decry loss of Sierra snowpack for California water supply

- <https://www.chicoer.com/2018/12/17/water-shortages-ahead-sierra-nevada-snow-pack-on-track-to-shrink-79-percent-new-study-finds-2/>

US BLM draft report on environmental impacts & oil resources in the Arctic National Wildlife Refuge

- <https://www.apnews.com/09f6a9aa79624a83852bd63c12671415>
- Draft EIS: <https://eplanning.blm.gov/epl-front-office/eplanning/planAndProjectSite.do?methodName=dispatchToPatternPage¤tPageId=152110>

64% of Valley residents oppose California bullet train – potential adverse consequences abound

- <https://www.sacbee.com/latest-news/article223441880.html>

CCAP will help citizens of Columbus, Ohio, to adapt ... not “mitigate” variations in climate

- <https://www.smartcitiesdive.com/news/researchers-present-columbus-oh-leaders-with-climate-adaptation-plan/544898/>

Plastic addition, production increasing, “sustainable plastics” made from bioplastic polymers?

- https://www.eurekalert.org/pub_releases/2018-12/afot-sa122418.php
- https://www.huffingtonpost.com/entry/big-business-plastic-waste-trash_us_5c1abc64e4b0407e9076c30e
- https://www.huffingtonpost.com/entry/plastic-waste-science-solutions_us_5c12b3e5e4b0860b8b5c863c
- <https://www.treehugger.com/plastic/missing-plastic-debate.html>

Dems believe in “global warming” not “green new deal”

- https://www.huffingtonpost.com/entry/kathy-castor-climate_us_5c1c0843e4b08aaf7a869cfd
- <https://www.newyorker.com/news/news-desk/the-optimistic-activists-for-a-green-new-deal-inside-the-youth-led-singing-sunrise-movement>

Tsunami warning system failed the citizens of Indonesia

- <https://us.cnn.com/2018/12/24/asia/indonesia-tsunami-disaster-year-intl/index.html>

“Invisible pollutants” – endocrine disrupting chemicals abound causing potent, long-lasting & life-altering

- <https://www.ehn.org/sicker-fatter-poorer-invisible-pollutants-and-the-tipping-point-for-endocrine-disruption-2622696987.html>

Are we eating food or chemicals?

- <https://www.irishexaminer.com/breakingnews/views/ourview/the-drugs-we-eat--chemicals-on-farms-end-up-on-your-plate-893432.html>

State-by-state guide to how energy production has changed

- <https://www.nytimes.com/interactive/2018/12/24/climate/how-electricity-generation-changed-in-your-state.html>

Texas Public Policy Foundation perspective on renewable energy sources

- <https://cleantechnica.com/2018/12/24/renewable-energy-opponents-turn-up-the-volume/>
- <https://www.texaspolicy.com/listen-to-texans-renewable-energy-subsidies-are-a-bad-deal/>

Lingering contamination from Hurricane Florence in North Carolina – worse than thought

- <https://www.charlotteobserver.com/news/business/article223328915.html>

Far-reaching impacts of pollutants from wildfires

- <https://www.sciencedaily.com/releases/2018/12/181221123706.htm>
- Paper: <https://www.nature.com/articles/s41467-018-07921-4>

Re-introducing fisher cats to northern Cascades – were extinct since early- to mid-1900s

- <http://www.earthisland.org/journal/index.php/articles/entry/returning-fishers-to-the-north-cascades>

WTO issued final ruling against Mexican effort to overturn dolphin safe tuna label

- <http://www.earthisland.org/journal/index.php/articles/entry/mexicos-ten-year-effort-to-overturn-the-dolphin-safe-tuna-label-ends-in-defeat>

Inactive or abandoned mines pose major environmental & safety risks

- <https://www.nytimes.com/2018/12/20/us/west-virginia-coal-mine-solutions.html>

Venezuela the worst of six countries regarding illegal mining across the Amazon

- <https://www.scidev.net/global/pollution/news/venezuela-worst-for-illegal-amazon-mining-study.html>

Ellicott City, Maryland, debates response to 1,000-yr flood and “prevention” for the future

- https://www.washingtonpost.com/local/md-politics/in-ellicott-city-painful-debate-on-preventing-deadly-floods-in-historic-district/2018/12/24/94466fc8-02eb-11e9-9122-82e98f91ee6f_story.html?utm_term=.beda720ecae0

Cape Town, South Africa, narrowly missed Day Zero

- <https://www.desmogblog.com/2018/12/26/year-day-zero-cape-town-arizona-west-mega-drought-climate>

Air in Delhi, India, continues to be toxic as air quality is “hazardous”

- <https://qz.com/india/1507659/delhi-struggles-with-toxic-air-pollution-as-2018-ends/>

Pollution, scarcity & changing climate remain top water risks in 2018

- <https://www.circleofblue.org/2018/world/the-year-in-water-2018/>

Perspective: Busting myths about Fukushima No. 1 nuclear power plant

- https://www.japantimes.co.jp/opinion/2018/12/26/commentary/japan-commentary/busting-myths-fukushima-no-1/#.XCO_YIVKiM8



Coastal Zone Management Bulletin Board – 31 December 2018 – compiled by Elaine J. Hanford

Access to coastal plain of ANWR for O&G production could increase US energy security

- <https://www.worldoil.com/news/2018/12/23/api-access-to-alaska-s-coastal-plain-for-natural-gas-and-oil-production-could-increase-us-energy-security>
- <https://goldrushcam.com/sierrasuntimes/index.php/news/local-news/16892-blm-alaska-releases-draft-environmental-impact-statement-for-the-coastal-plain-oil-and-gas-leasing-program>
- Draft EIS: <https://eplanning.blm.gov/epl-front-office/eplanning/planAndProjectSite.do?methodName=dispatchToPatternPage¤tPageId=152110>

Winter solstice full moon caused astronomical high tides & advisories along Pacific NW coast

- <https://katu.com/news/local/coastal-flood-advisory-in-effect-as-full-moon-brings-astronomical-high-tides>

Coastal cleanup netted 2.7 tons of trash including plastic, glass, shotgun shells, and a pirate hat

- <http://www.middletontranscript.com/news/20181222/coastal-cleanup-nets-plastics-glass---and-dishwasher>

Nine Atlantic coastal states join lawsuit to ban offshore air gun blasts

- <https://earther.gizmodo.com/nine-coastal-states-join-lawsuit-to-ban-offshore-air-gu-1831240544>

Judge finally ends lawsuit from beach where man died while walking near shore as sand collapsed

- <https://local21news.com/news/local/judge-ends-suit-from-beach-where-3-died-walking-near-shore>

Exxon-Mobil continues drilling offshore Guyana following confrontation in Venezuela

- <https://www.reuters.com/article/us-guyana-venezuela-oil/exxon-continues-drilling-offshore-guyana-despite-venezuela-incident-idUSKCN1OP0UB>

Perspective: Offshore wind development in Virginia – smaller, better & more cost-effective

- https://www.richmond.com/opinion/their-opinion/guest-columnists/ross-tyler-column-when-it-comes-to-offshore-wind-in/article_bc9dec54-3df9-5a04-ae2a-32cf962e8afe.html

Deeper fixed foundations for offshore wind development

- <https://www.greentechmedia.com/articles/read/how-offshore-wind-will-cope-with-200-foot-depths#gs.219FOno>

Year in review: offshore vessels and commerce in Brazil

- <https://www.oedigital.com/news/461149-brazil-offshore-vessels-year-in-review>

Pipelines continue to be laid in 2 offshore zones in Swedish EEZ

- <https://www.offshore-mag.com/articles/2018/12/allseas-vessels-at-work-in-two-nord-stream-2-offshore-zones.html>

Predicting continued slow and steady growth in global offshore O&G sector

- <https://www.houstonchronicle.com/business/energy/article/Offshore-sector-to-grow-in-2019-but-mostly-13474480.php>

Stowaways aboard cargo ship in Thames Estuary escape & threaten crew with iron bars – ship retaken

- <https://www.standard.co.uk/news/uk/thames-estuary-police-called-to-cargo-ship-off-coast-of-margate-amid-reports-of-stowaways-on-board-a4024071.html>
- <https://news.sky.com/story/special-forces-storm-cargo-ship-after-migrants-threatened-staff-11588563>

This beluga likes the Maritimes

- <https://nationalpost.com/news/stubborn-young-beluga-wont-stay-away-from-the-maritimes-2>

Concern for Caloosahatchee estuary, economic development & pollution in SW Florida

- <https://www.news-press.com/story/news/2018/12/26/fort-myers-beach-sanibel-captiva-islands-five-things-watch/2206973002/>

6M gallons of sewage overflow hit the Hudson River in 2018

- <https://www.hudsonvalley360.com/article/city-sewage-overflow-6m-gallons>
- <https://nyacknewsandviews.com/2018/12/earth-matters-hudson-river-sediment-bacteria/>

Carmel River Lagoon project resulting in alteration of channel & habitat creation

- <https://www.montereyherald.com/2018/12/20/carmel-river-lagoon-project-accomplishing-its-goals/>

\$7.2M test well for proposed deep (30-60 ft) wells for excess Lake Okeechobee water

- <https://www.tcpalm.com/story/news/local/indian-river-lagoon/health/2018/12/13/well-test-sending-lake-o-water-underground-cost-7-2-million/2294082002/>