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Geoscience Bulletin Board – 8 October 2018 – compiled by Elaine J. Hanford

M8.2 Chiapas EQ in Mexico was followed by M7.1 closer to Mexico City – may have broken through entire tectonic plate

- <https://arstechnica.com/science/2018/10/movement-during-2017-earthquake-extended-clean-through-tectonic-plate/>

Building collapses in Palu, Indonesia, due to soil liquefaction during 7.5M earthquake

- <https://www.theguardian.com/world/2018/oct/02/indonesia-earthquake-soil-liquefaction-blamed-for-building-collapses>

7.5M Indonesia EQ had strike-slip displacement & may have caused landslide that triggered large (6-meter) tsunami that hit Palu

- <https://www.bbc.com/news/science-environment-45711190>

Possible cause of “stagnant slabs” of oceanic plates

- <https://www.sciencedaily.com/releases/2018/10/181001171151.htm>
- http://www.spacedaily.com/reports/A_wrench_in_Earths_engine_999.html

Indonesia EQ, tsunami and volcanic eruption may or may not be related

- <https://www.usatoday.com/story/tech/science/2018/10/03/indonesia-earthquake-and-volcanic-eruption-they-related/1513205002/>

Study of natural methane flux in Pacific Northwest indicates methane dissolves in the ocean

- <https://phys.org/news/2018-10-quantifies-natural-flux-methane-gas.html>

Ranie Lynds, Wyoming Geological Survey, presentation: "Unraveling the Geologic History of the Greater Green River Basin in Wyoming"

- <https://buckrail.com/unraveling-the-geologic-history-of-the-greater-green-river-basin/>

15th Regional Congress on Geology, Mineral & Energy Resources of SE Asia in Hanoi 16-17 October

- <http://en.nhandan.org.vn/scitech/item/6677802-hanoi-to-host-first-regional-geological-and-energy-congress.html>

Optimism for the growth potential of geology in South Africa

- <https://www.sapromo.com/sas-geology-holds-great-growth-potential/14418>
- Report: <https://irr.org.za/reports/occasional-reports/files/sas-geological-endowment.pdf>

Geo-Ontological: Deep Time panel – art and connections to geology addressed at Cerritos College

- <https://www.talonmarks.com/college-life/arts-entertainment/arts/2018/09/27/geo-ontological-deep-time-panel-art-and-its-connections-to-geology/>

Boots of Adam Sedgwick returned to Cambridge home after 191 years in Scotland

- <https://www.thewestmorlandgazette.co.uk/news/16910558.renowned-dent-geologists-boots-returned-to-his-home-after-191-years/>

Photo-essay: mud pots of Yellowstone National Park

- https://helenair.com/lifestyles/recreation/bubbling-mudpots-show-the-diversity-of-yellowstone-national-park-s/article_ac23d523-a89b-5dca-888f-d8c1b1eb1e60.html#19

Differentiating anthropomorphic features from geology at Revolutionary War POW camp, York, PA

- <https://www.abc27.com/news/local/york/new-details-on-historic-revolutionary-war-pow-camp-in-york-county/1493718320>

Snorkeling in the Silfra fissure in Iceland

- <https://www.scmp.com/magazines/post-magazine/travel/article/2166829/snorkelling-iceland-swim-between-tectonic-plates>

Large angiosperm trees were growing in North America by Turonian stage of Late Cretaceous 92 myo

- <http://www.sci-news.com/paleontology/cretaceous-angiosperm-trees-north-america-06465.html>

Lilly Pilly fossils in Snowy Mountains of Australia reveal history of rainforest vegetation

- http://www.spacedaily.com/reports/Lilly_Pilly_fossils_reveal_snowless_Snowy_Mountains_999.html

Turbidity currents also involve movement of the seafloor

- <https://phys.org/news/2018-10-turbidity-currents-involve-movement-seafloor.html>

Ground shaking can occur during catastrophic floods

- <https://phys.org/news/2018-10-ground-devastating-insights.html>

Travels in geology: Trail Ridge Road in the Rockies

- <https://www.earthmagazine.org/article/travels-geology-roof-rockies-trail-ridge-road>

Ephemeral rivers in arid regions may play significant role in global carbon cycle

- <https://www.earthmagazine.org/article/dry-rivers-secretly-star-carbon-cycle>

Planetary geology: Curiosity Mars Rover – technical & geological forensics

- <http://www.leonarddavid.com/curiosity-mars-rover-technical-and-geological-forensics/>

Ilmenite (TiO₂) as a photo-catalyst

- <https://sciencetrends.com/hidden-gems-of-ilmenite-as-a-photocatalyst/>

Jasper stone as an aggregate mineral

- <https://sciencetrends.com/jasper-stone-an-aggregate-mineral/>

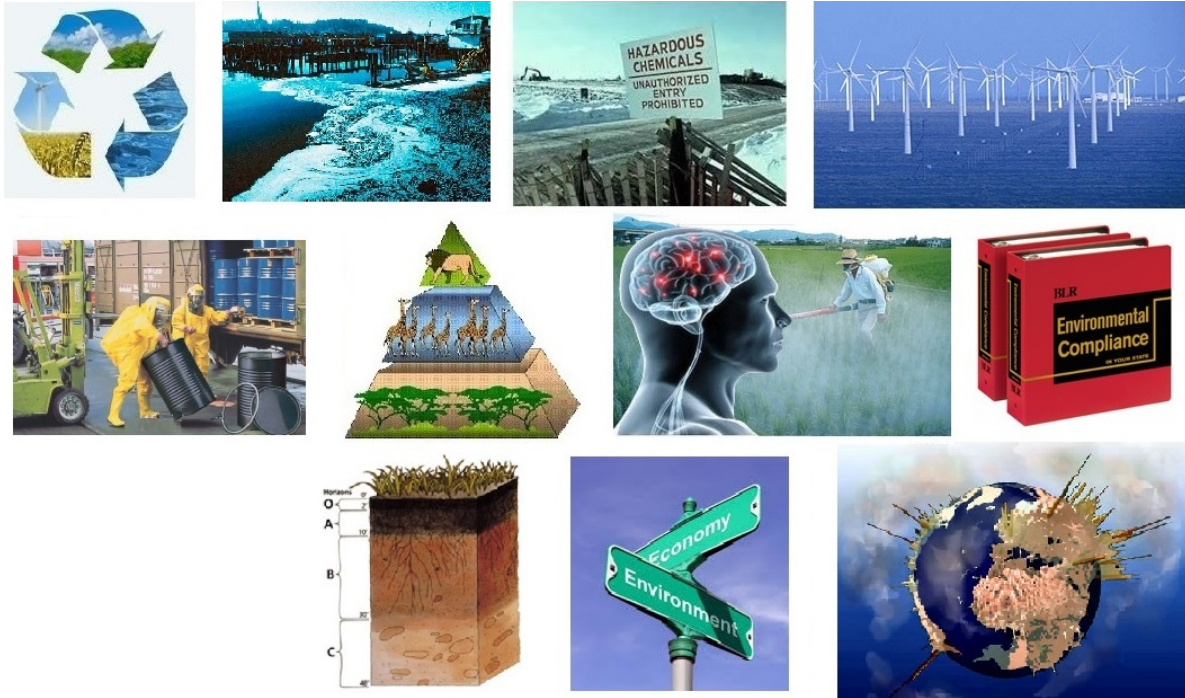
Black Onyx – cryptocrystalline quartz

- <https://sciencetrends.com/black-onyx-a-cryptocrystalline-form-of-quartz/>

Geological influences on barrier island & lagoon systems at decade to century timescales

- <https://sciencetrends.com/geological-influences-on-barrier-lagoon-behavior-at-decade-to-century-timescales/>

Environmental Science Bulletin Board – 8 October 2018 – compiled by Elaine J. Hanford



Six trillion cigarettes produced in a year have significant health & environmental impacts

- <https://phys.org/news/2018-10-cigarettes-significant-impact-environment-health.html>

Growing & harvesting bio-energy crops is poor use of land and resources

- <https://phys.org/news/2018-09-biofuels-green-space-climate-action.html>

Geo-engineering in an effort to “stop” climate change could cause significant health impacts

- <https://phys.org/news/2018-09-climate-disease-impacts.html>

In the wake of Hurricane Florence – supersize mosquitoes besiege North Carolina - *Psorophora ciliata*

- <https://www.wired.com/story/north-carolina-fends-off-swarms-of-super-sized-mosquitoes/>

Deadly things some people do to take selfies – selficides are increasing – typically male age 10-29

- <https://www.techspot.com/news/76753-study-selfie-related-deaths-increasing-young-people-taking.html>
- <https://gizmodo.com/researchers-identify-hundreds-of-selfie-deaths-from-med-1829513496>

World Rabies Day & USDA Wildlife Services – National Rabies Management Program

- https://www.aphis.usda.gov/aphis/ourfocus/wildlifedamage/programs/nrmp/ct_rabies

Earthquake safety bill that would create list of vulnerable buildings get vetos from California governor

- <http://www.sandiegouniontribune.com/news/california/la-me-ln-veto-quake-safety-bill-20180928-story.html>

Cat owners not happy with increased license fees and curfews to protect wildlife – but an indoor cat is usually a much healthier cat

- <https://www.coffscoastadvocate.com.au/news/sydneys-randwick-council-wants-to-stop-cats-going-/3539006/>

Portland, Oregon, to add facility filtering for water treatment plant - \$500M & 9 years to finish

- <https://www.enr.com/blogs/15-evergreen/post/45303-new-water-filtration-plant-coming-to-portland>

Paris, France, making “eco-effort” to meet environmental & social responsibility

- <https://www.reuters.com/article/us-climatechange-paris/green-and-inclusive-paris-builds-a-zero-carbon-future-with-a-social-conscience-idUSKCN1MC03Q>

How did Renaissance Italians ward off natural disasters?

- <https://blog.oup.com/2018/10/domestic-religion-renaissance-italy/>

Perspective: there has never been an energy transition

- <https://www.powerlineblog.com/archives/2018/10/there-has-never-been-an-energy-transition.php>

US Supreme Court declines to hear challenge to Grand Canyon uranium mining ban

- <https://www.powerlineblog.com/archives/2018/10/there-has-never-been-an-energy-transition.php>
- <https://www.grandcanyontrust.org/blog/supreme-court-grand-canyon-uranium-mining-ban>

Utility corridor under Straits of Mackinac would include oil & LNG pipeline – estimated at \$300M to \$650M

- <https://amp.freep.com/story/news/local/michigan/2018/10/03/gov-rick-snyder-enbridge-reach-oil-pipeline-deal/1509866002/>

Assessing storm damage from H. Florence still being hindered by flood waters

- <https://www.enr.com/articles/45383-carolinas-storm-damage-tally-impeded-by-lingering-floods>

Quality of drinking water delivered to homes across the US is declining

- <http://www.wbur.org/npr/649850498/you-just-don-t-touch-that-tap-water-unless-absolutely-necessary>

Senate passes bill toward re-authorization of earthquake preparedness

- <https://homelandprepnews.com/stories/30695-senate-advances-legislation-for-strengthening-earthquake-safety-programs-preparation/>
- <https://www.ktvz.com/news/senate-passes-wyden-merkley-quake-preparedness-bill/802228160>

Milwaukee, Wisconsin, announces Green Infrastructure Plan Framework

- <http://www.milwaukeeindependent.com/featured/citys-presents-environmental-infrastructure-plan-create-sustainable-greenspaces/>

After EQ and tsunami, Indonesia now battling fake news & looters as death toll climbs

- <https://www.theguardian.com/world/2018/oct/04/sulawesi-tsunami-indonesia-battles-fake-news-as-hoaxers-spread-panic>
- <https://www.newsweek.com/indonesia-tsunami-death-toll-hits-more-1400-92-people-arrested-looting-1152752>
- http://www.spacedaily.com/reports/Perfect_storm_of_factors_behind_Indonesian_quake-tsunami_999.html

Officials in Abuja asking public to stay calm as they assess gaseous emissions in the community

- <https://www.vanguardngr.com/2018/10/abuja-gaseous-emissions-fg-analyses-samples-calls-for-calm/>

Texas tries to convince business owners that sustainability can make business sense – only problem is that “sustainability” & “green practices” as practiced is a myth

- <https://dallasinnovates.com/the-green-future-of-north-texas/>

Colorado will vote in November on ballot initiative to provide setbacks to oil & gas drilling

- <https://www.boulderweekly.com/opinion/dont-frack-close/>

Re-using urban storm water means needing an effective technology to first clean it up

- <https://www.ehn.org/how-to-capture-clean-reuse-stormwater-2608371465.html>

Study suggests exposure to BPA could alter insulin release & elevate risk of type 2 diabetes

- <https://www.ehn.org/bpa-linked-to-diabetes-2604258226.html>

Perspective: Toxic waste cleanup is overdue at Berry’s Creek in New Jersey – PCBs & mercury

- <https://www.northjersey.com/story/opinion/editorials/2018/10/03/editorial-berrys-creek-toxic-waste-cleanup-long-overdue/1502270002/>

Global warming alarmist perspective on how to “stop climate change”

- <https://www.nytimes.com/2018/10/06/opinion/sunday/climate-change-global-warming.html>

Class Action Lawsuit against 3M & DuPont & Chemours & 8 other companies for PFAS chemicals

- <https://theintercept.com/2018/10/06/duPont-pfas-chemicals-lawsuit/>

Battle brewing in southeast Houston over neighboring oil refinery

- <https://grist.org/article/frontline-community-fight-oil-refinery/>

3 conservation groups intend to sue over water pollution at Rosebud Coal Mine in SE Montana

- <https://ktvq.com/news/montana-news/2018/10/04/environmental-groups-say-theyre-suing-over-pollution-at-colstrip-coal-mine/>

Despite regulated new pump nozzles, gas stations emit 10X more toxic fumes than thought

- <https://www.sciencedaily.com/releases/2018/10/181004110021.htm>



Coastal Zone Management Bulletin Board – 8 October 2018 – compiled by Elaine J. Hanford

Natural infrastructure – NOT more cement – is the solution to coastal flooding & storm damage

- <https://thehill.com/opinion/energy-environment/409561-the-answer-to-coastal-flooding-is-not-more-cement>

Tsunami death toll likely will exceed 1,200 in coastal towns on Sulawesi

- <http://www.latimes.com/world/la-fg-quake-tsunami-indonesia-20180930-story.html>

Significant damage due to liquefaction in Palu during EQ and tsunami

- <https://www.nytimes.com/2018/10/03/world/asia/indonesia-earthquake-tsunami-liquefaction.html>

US Supreme Court declines Martins Beach case on coastal access law

- <http://www.latimes.com/local/lanow/la-me-martins-beach-supreme-court-20181001-story.html>

Texas lawmakers urge denial of insurance rate increase due to wind & hail damages along coast

- <https://www.insurancejournal.com/news/southcentral/2018/10/01/503072.htm>

To change or not to change? That is the question in Boothbay Harbor, Maine

- <https://www.pressherald.com/2018/09/30/moguls-empire-ignites-fight-over-boothbay-harbors-coastal-identity/>

Research directed toward adaptation to changes in sea level

- <https://phys.org/news/2018-10-collaboration-coastal.html>

Lower East Side Coastal Resiliency Project in New York City – potentially will be fast-tracked

- <https://www.6sqft.com/lower-east-side-coastal-resiliency-project-will-get-fast-tracked-with-an-updated-design/>
- <https://ny.curbed.com/2018/9/28/17915352/east-side-resiliency-project-park-plans-updated>
- <https://archpaper.com/2018/10/new-york-east-side-coastal-resiliency-project-update/#gallery-0-slide-0>

Suggesting that development should be halted along North Carolina Coast

- <https://www.reuters.com/article/us-storm-florence-outer-banks/hurricane-raises-questions-about-rebuilding-along-north-carolinas-coast-idUSKCN1M01FU>

Beach communities from Newport to Redondo have been plagued by “rotten egg” smell

- <https://www.ocregister.com/2018/10/03/what-we-know-about-the-coastal-rotten-egg-smell-and-what-it-means-for-your-health/>

“Do not burn treated wood” among the debris left by Hurricane Florence

- <https://www.coastalreview.org/2018/10/federation-says-dont-burn-treated-wood/>

Mostly industrial pollutants make Inner Harbor at Victoria the most polluted coastal waterway in BC

- <https://www.vicnews.com/news/victorias-inner-harbour-most-polluted-waterway-in-b-c/>

Major ecosystem mapping project identifies conditions in the Barents Sea

- <https://thebarentsobserver.com/en/arctic-ecology/2018/10/dramatic-barents-ecosystems>

Full-scale pollution containment exercise conducted in Manistique Harbor in Michigan

- https://www.mlive.com/news/index.ssf/2018/09/full-scale_pollution_containme.html

Marion Conservation Commission addressed Flood Zone Bylaw in Massachusetts

- <https://www.wanderer.com/news/flood-zone-bylaw-at-issue-at-concom-hearing/>

Phocine distemper virus outbreak responsible for many pinniped deaths along US East Coast

- <https://vineyardgazette.com/news/2018/10/02/born-polluted-fates-arent-sealed>

EQs in Manila Trench could cause tsunami up to 5-m height impacting Taiwan in next 100 years

- <https://www.taiwannews.com.tw/en/news/3546974>