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Geoscience Bulletin Board – 5 November 2018 – compiled by Elaine J. Hanford

“WSGS Semonoe State Park Brochure” highlights rock formations, sand dunes & hydrogeology

- <https://buckrail.com/in-the-know-about-seminoe-a-geological-study/>
- Brochure: <https://2zk8ci15bz0240i2m999gkf1-wpengine.netdna-ssl.com/wp-content/uploads/2018/10/WSGS-Semonoe-State-Park-brochure.pdf>

Second-generation Antarctic Digital Magnetic Anomaly Project examines structure of the crust

- <https://eos.org/research-spotlights/a-more-detailed-look-at-earths-most-poorly-understood-crust>
- ADMAP: <https://www.scar.org/science/admap/about/>

M6.4 EQ moved the Greek island of Zakynthos at least 3 centimeters to the southwest

- <https://greece.greekreporter.com/2018/10/29/scientists-zakynthos-earthquake-moved-island-by-3-centimeters/>
- EQ: <https://greece.greekreporter.com/2018/10/26/6-4-magnitude-earthquake-hits-zakynthos-island-rattles-greece-video/>
- Aftershocks: <https://greece.greekreporter.com/2018/10/27/aftershock-activity-on-zakynthos-island-very-high/>

Yet another new disaster movie: “The Quake” – reminds me of “Volcano”

- <http://www.darkhorizons.com/trailer-the-quake-a-sequel-to-the-wave/>
- <http://www.horror-movies.ca/2018/10/31-days-guilty-pleasures-volcano/>

A ranking of the 18 most dangerous volcanoes in the US – pose “very high threat” – Yellowstone caldera not on the short list

- <https://www.smithsonianmag.com/smart-news/these-are-united-states-18-most-dangerous-volcanoes-180970650/>
- <https://www.forbes.com/sites/trevornace/2018/10/29/yellowstone-supervolcano-is-only-the-21st-most-dangerous-in-america/#2c5e3d503f9d>

“Gallop in’ Gertie” was caused by wind – “Wobbly Bridge” in London caused by people

- <https://arstechnica.com/science/2018/10/new-study-sheds-more-light-on-what-caused-millennium-bridge-to-wobble/>

Using seismic “noise” to accurately track water levels in aquifers

- <https://news.harvard.edu/gazette/story/2018/10/study-uses-seismic-noise-to-track-water-levels-in-underground-aquifers/>

Bedrock stress may be a factor in fracking-induced earthquakes

- <https://toronto.citynews.ca/2018/10/29/bedrock-stress-factor-in-fracking-caused-earthquakes-study/>

New video of eruption of Anak Krakatau

- <https://www.forbes.com/sites/ericmack/2018/10/29/eruption-of-the-infamous-krakatoa-volcano-seen-creating-its-own-lightning-flinging-lava-bombs/#1a8002bc2d37>

Improved sensor data readings to better distinguish EQs and explosions from “noise”

- <https://phys.org/news/2018-10-majority-earthquakes-explosions.html>

New dataset may provide details on configuration of supercontinent Rodinia

- <https://phys.org/news/2018-10-dataset-configuration-supercontinent-rodinia.html>

In a few million years, islands of Tenerife & Gran Canaria could be closer together

- [https://www.eurekalert.org/pub\\_releases/2018-10/uos-tio102518.php](https://www.eurekalert.org/pub_releases/2018-10/uos-tio102518.php)

Moon rocks to be sold at auction – expected to fetch up to \$1M

- [https://www.huffingtonpost.com/entry/moon-rocks-auction-sothebys\\_us\\_5bd997c1e4b019a7ab58d112](https://www.huffingtonpost.com/entry/moon-rocks-auction-sothebys_us_5bd997c1e4b019a7ab58d112)

The hoodoos of Aqua Canyon in Bryce Canyon National Park

- <https://www.treehugger.com/slideshows/readers-photos/photo-beautiful-hoodoos-aqua-canyon/>

International Maritime Organization puts focus on reducing marine litter & other issues

- <http://www.imo.org/en/MediaCentre/IMOMediaAccreditation/Pages/MEPC73preview.aspx>
- <http://www.imo.org/en/MediaCentre/HotTopics/marinelitter/Pages/default.aspx>

Oroville Dam \$1.1B spillway will be completed before the rainy season

- <https://apnews.com/372678d315fc44f2b659e6b84a2f103a>
- <https://www.sacbee.com/news/state/california/water-and-drought/article220898645.html>

California Geological Survey issued 5 preliminary seismic hazard zone maps for San Mateo County

- [https://www.hmbreview.com/news/new-maps-spell-out-seismic-hazards/article\\_75ae72ce-d247-11e8-8acc-f341213af784.html](https://www.hmbreview.com/news/new-maps-spell-out-seismic-hazards/article_75ae72ce-d247-11e8-8acc-f341213af784.html)

Perspectives: Global warming catastrophism

- <https://truthout.org/articles/new-un-report-warns-of-impending-catastrophe-as-world-warms-glaciers-melt/>
- [https://www.opednews.com/articles/Is-The-Evidence-of-Global-by-Paul-Craig-Roberts-Climate\\_Evidence\\_Global-Awareness\\_Global-Collapse-181102-382.html](https://www.opednews.com/articles/Is-The-Evidence-of-Global-by-Paul-Craig-Roberts-Climate_Evidence_Global-Awareness_Global-Collapse-181102-382.html)

“Slow One” is a muddy geyser in southern California – recognized since 1953 Nyland Geyser is not that hot & human efforts to stop it have been in vain

- <https://www.livescience.com/63998-mud-pool-creeping-across-california.html>

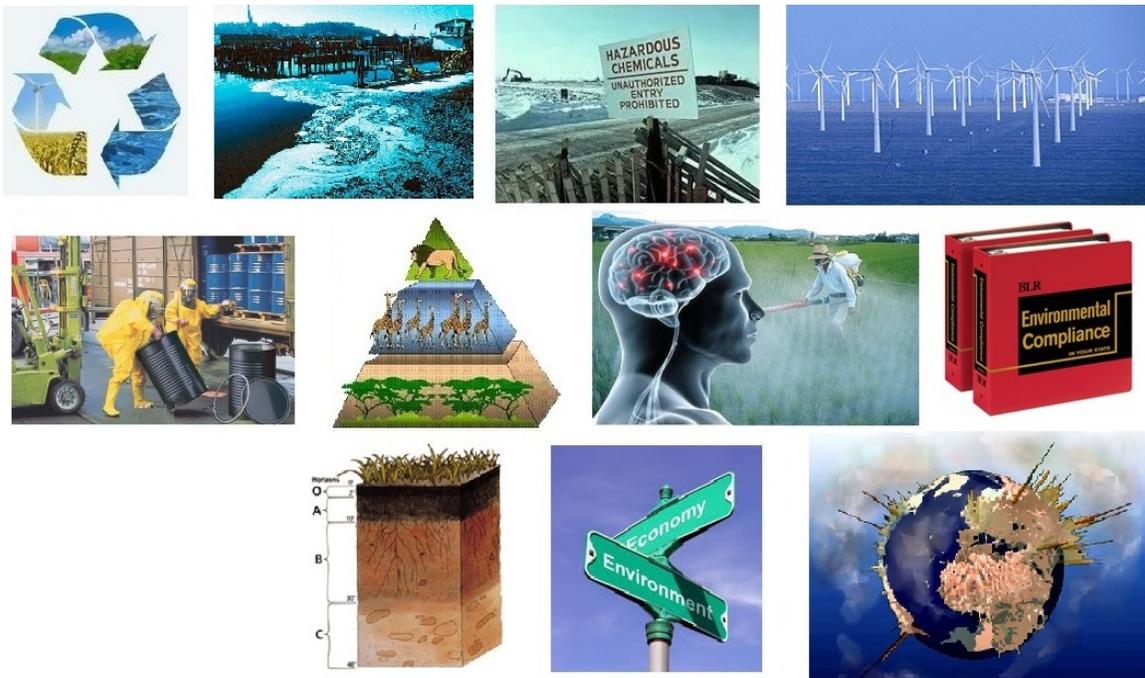
“Glacial flour” in massive dust plume that drifted 80 miles across Greenland

- <https://www.livescience.com/64001-glacier-flour-greenland.html>

“Lion Emerald” unearthed at Kagem mine in Zambia, Africa, is 5,655 carats & weighs about 2.5 pounds – will be sold at auction

- <https://www.livescience.com/63993-giant-lion-emerald-unearthed-zambia.html>

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**Environmental Science Bulletin Board – 5 November 2018 – compiled by Elaine J. Hanford**

On 6<sup>th</sup> anniversary of Hurricane Sandy, New Jersey sets \$230M plan for flood walls to protect a portion of Hoboken, Jersey City & Weehawken – \$1B restoration of LIRR not yet started on Long Island

- <https://apnews.com/2433eb1f9dc648dd8861f275cb6bbc90>
- <https://www.newsday.com/long-island/superstorm-sandy-lirr-1.22497747>

A fracking boom on federal lands in Wyoming – good for economy but raises environmental concerns

- <https://www.nytimes.com/2018/10/27/climate/trump-fracking-drilling-oil-gas.html>

Predators, like this mountain lion, help keep animal populations under control – how Nature works!

- <https://www.canberratimes.com.au/environment/sustainability/this-northern-california-mountain-lion-is-a-serial-killer-of-horses-20181031-p50d5b.html>

World Disasters Report 2018 says Australia has suffered more damages than most other countries

- <https://www.canberratimes.com.au/environment/weather/two-billion-people-hit-by-natural-disasters-in-the-past-decade-red-cross-20181030-p50cy3.html>
- Exec Summary: <https://media.ifrc.org/ifrc/wp-content/uploads/sites/5/2018/10/B-WDR-2018-EXECSUM-EN.pdf>
- Report: <https://media.ifrc.org/ifrc/wp-content/uploads/sites/5/2018/10/B-WDR-2018-EN-LR.pdf>

For now, EPA says farmers can keep using Dicamba – despite wind drift & collateral crop damages

- <https://www.npr.org/sections/thesalt/2018/11/01/662918255/the-epa-says-farmers-can-keep-using-weedkiller-blamed-for-vast-crop-damage>

Superior Court Judge reduces damage award against Monsanto to only \$39M for putative damages for glyphosate-induced cancer

- <https://theconversation.com/roundup-weed-killer-lawsuit-hits-a-snag-but-monsanto-is-not-off-the-hook-105559>

Smithfield Foods now promising to cover hog manure lagoons to reduce environmental impacts

- <https://www.npr.org/sections/thesalt/2018/10/29/661064123/worlds-biggest-pork-producer-pledges-to-cover-manure-ponds>

Forest-dwelling swallowtail butterfly discovered in Fiji

- <https://www.treehugger.com/animals/spectacular-forest-dwelling-swallowtail-discovered-fiji.html>

IMO adopts new plan to crack down on plastic pollution & other litter from ships into the ocean

- <https://www.treehugger.com/plastic/shipping-industry-cracks-down-plastic-waste.html>

Two more major corporations join fight against abandoned fishing nets – “ghost” fishing gear

- <https://www.treehugger.com/plastic/corporate-giants-join-fight-stop-ghost-fishing-gear.html>
- GGGI: <https://www.ghostgear.org/news/2018/10/25/5th-gggi-annual-meeting-kicks-off-in-bali-ahead-of-our-ocean-2018>

Hairstreak butterfly has striped socks & false head for defense mechanism

- <https://www.treehugger.com/slideshows/readers-photos/photo-hairstreak-butterfly-has-striped-socks-and-false-head/>

“The Devil We Know” film began exposing corporate scandal surrounding toxic Teflon chemical

- <https://www.ehn.org/dupont-teflon-cover-up-pfas-2614570951.html>
- Movie Trailer: <https://thediavilweknow.com/>

Organic diets cut cancer risks – suspect related to reduction in pesticide dietary exposure

- <https://www.ehn.org/charles-benbrook-new-study-showing-organic-diets-cut-cancer-risk-is-a-big-deal-lets-treat-it-that-way-2615419272.html>

Perspective: the costs of coal energy – but to be fair a full cost analysis is needed for other energies

- <https://theconversation.com/coal-cant-compete-with-cheaper-alternatives-and-the-industrys-true-costs-are-higher-than-they-appear-105933>

Perspectives: Animal agriculture impacts the environment but cows are not killing the climate – but do you want to eat “lab-grown” meat?

- <https://theconversation.com/yes-eating-meat-affects-the-environment-but-cows-are-not-killing-the-climate-94968>
- <https://theconversation.com/why-cows-are-getting-a-bad-rap-in-lab-grown-meat-debate-103716>

Sea lice on salmon farms becoming resistant to pesticide

- <https://biv.com/article/2018/11/sea-lice-becoming-resistant-pesticide>
- Report: [https://livingoceans.org/sites/default/files/Lice%20report%20final\\_0.pdf](https://livingoceans.org/sites/default/files/Lice%20report%20final_0.pdf)

International team of scientists call for action to deter extinction of wilderness

- <https://newrepublic.com/article/151981/extinction-wilderness-untouched-lands-oceans-disappearing>

Is the Burmese python invasion in Florida a legacy of Hurricane Andrew in 1992?

- <https://www.cbsnews.com/news/burmese-python-invasive-species-in-florida-hurricane-andrew-legacy-cbsn-originals/>

Study identifies sources of errors in calculating leakage from natural gas production

- <https://arstechnica.com/science/2018/11/how-leaky-is-natural-gas-production-one-puzzle-solved/>

Estimating the high costs of obesity in the US – direct & indirect costs of 60.2% of population age 2 and over either obese or overweight

- <https://arstechnica.com/science/2018/11/a-new-eye-wateringly-high-estimate-of-the-cost-of-obesity-in-the-us/>
- Report: <https://assets1c.milkeninstitute.org/assets/Publication/ResearchReport/PDF/Mi-Americas-Obesity-Crisis-WEB.pdf>

Geoengineering to satisfy global warming alarmists comes with significant unintended impacts

- <https://arstechnica.com/science/2018/10/geoengineering-could-stop-warming-but-comes-with-side-of-sea-level-rise/>

34 global leaders sign U20 Communique to advance “sustainable development” – wanting to achieve the unachievable

- <https://www.smartcitiesdive.com/news/u20-communique-advance-sustainable-development-global-leaders/541053/>

North Carolina governor buys in to global warming mythology & greenhouse gas emission cuts

- <https://www.myrtlebeachonline.com/news/state/north-carolina/article220789175.html>

Kauai Island Utility Coop finalized contract for design, engineering & construction of new renewable energy facility on west side

- <https://www.bizjournals.com/pacific/news/2018/10/31/kiuc-taps-san-francisco-civil-engineering-firm-for.html>

Hidden costs of Brucellosis in wild elk population of Yellowstone National Park

- <https://www.sciencedaily.com/releases/2018/10/181029135220.htm>

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### **Coastal Zone Management Bulletin Board – 5 November 2018 – compiled by Elaine J. Hanford**

West Coast waters now seasonal hypoxia – dead zone along Oregon, Washington & California

- <https://www.npr.org/2018/10/28/658953894/coastal-pacific-oxygen-levels-now-plummet-once-a-year>

US Army Corps of Engineers releases “The Coastal Texas Protection & Restoration Feasibility Study”

- <https://communityimpact.com/houston/clear-lake-league-city-nassau-bay/development-construction/2018/10/29/u-s-army-corps-of-engineers-releases-study-on-texas-coastal-spine-project/>

- Draft IFR & EIS:  
[https://www.swg.usace.army.mil/Portals/26/docs/Planning/Public%20Notices-Civil%20Works/Coastal-TX%20DIFR-EIS/Coastal%20Texas%20DIFR-EIS\\_Oct2018.pdf](https://www.swg.usace.army.mil/Portals/26/docs/Planning/Public%20Notices-Civil%20Works/Coastal-TX%20DIFR-EIS/Coastal%20Texas%20DIFR-EIS_Oct2018.pdf)

US Army Corps of Engineers coastal barrier plan for Texas could cost \$32B

- <https://www.constructiondive.com/news/texas-chosen-army-corps-coastal-barrier-plan-could-cost-up-to-32b/541035/>
- <https://communityimpact.com/houston/clear-lake-league-city-nassau-bay/development-construction/2018/10/29/u-s-army-corps-of-engineers-releases-study-on-texas-coastal-spine-project/>
- <http://www.glo.texas.gov/the-glo/news/press-releases/2018/october/general-land-office-u-s-army-corps-of-engineers-release-coastal-texas-protection-and-restoration-feasibility-study-draft-integrated-feasibility-report-and-environmental-impact-statement.html>
- Feasibility Study: <https://www.swg.usace.army.mil/Business-With-Us/Planning-Environmental-Branch/Documents-for-Public-Review/>

Population growth on the Southeastern Coastal Plain will have impacts

- [https://www.chronicleonline.com/news/real\\_estate/southeastern-coastal-plan-population-growth/article\\_5aeeafac-d97d-11e8-ab3a-af2bd1d703ed.html](https://www.chronicleonline.com/news/real_estate/southeastern-coastal-plan-population-growth/article_5aeeafac-d97d-11e8-ab3a-af2bd1d703ed.html)

Voters asked to approve \$7M+ for coastal infrastructure upgrades & water treatment plant repairs in Scituate, Massachusetts

- <http://www.patriotledger.com/news/20181029/environmental-policies-coastal-repairs-coming-up-at-scituate-town-meeting>

Photo-essay – Ghost forests show impacts of salt water intrusion along coast

- <https://www.accuweather.com/en/weather-news/photos-ghost-forests-show-the-skeletons-of-dead-trees-as-saltwater-encroaches-coastal-areas/70006467>

Plans to protect 1.2M coastal homes in England not affordable

- <https://www.ecowatch.com/coastal-homes-england-sea-level-rise-2615363264.html>

China “must” design policies & infrastructure to be protected from strong coastal storms

- <https://www.scmp.com/news/hong-kong/health-environment/article/2170740/protect-coastal-areas-stronger-storms-world-warms>

“Shelf Seas: The Engine of Productivity” warns of potential damage to coastal waters

- <https://www.theguardian.com/environment/2018/oct/28/shelf-sea-british-coastal-waters-trawler-damage-carbon-dioxide>
- Report: [https://www.uk-ssb.org/shelf\\_seas\\_report.pdf](https://www.uk-ssb.org/shelf_seas_report.pdf)

“Dire warnings” have impact on lowering coastal property values

- <https://www.treehugger.com/climate-change/sea-level-rise-has-caused-74-billion-drop-home-prices-southeast-us.html>

Reef plan is welcomed by anglers on the Outer Banks of North Carolina

- <https://www.coastalreview.org/2018/11/outer-banks-anglers-welcome-reef-plan/>

Strategic partnership aims to expand global aquaculture growth

- <http://bigislandnow.com/2018/11/01/unique-strategic-partnership-to-expand-global-aquaculture-growth/>

Pacific archipelago of Palau is first nation to ban “reef-toxic” sunscreens

- <https://www.npr.org/2018/11/02/663308800/palau-in-western-pacific-is-first-nation-to-ban-reef-toxic-sunscreens>
- [https://www.huffingtonpost.com/entry/palau-ban-sunscreen-coral-reefs\\_us\\_5bdbd2bde4b01ffb1d00c440](https://www.huffingtonpost.com/entry/palau-ban-sunscreen-coral-reefs_us_5bdbd2bde4b01ffb1d00c440)

With heavy rains & higher tides, Venice is really “under water”

- <https://www.npr.org/2018/10/30/662284942/heavy-rains-wind-blamed-for-11-deaths-in-italy>
- <https://www.treehugger.com/climate-change/75-percent-venice-was-just-underwater.html>

Coral becomes diseased when impacted by plastic

- <https://www.treehugger.com/ocean-conservation/coral-becomes-diseased-when-it-tangles-plastic.html>

Sea lice on open net salmon farms in Canada becoming resistant to pesticide

- <https://biv.com/article/2018/11/sea-lice-becoming-resistant-pesticide>
- Report: [https://livingoceans.org/sites/default/files/Lice%20report%20final\\_0.pdf](https://livingoceans.org/sites/default/files/Lice%20report%20final_0.pdf)

South Carolina Port Authority emphasizes infrastructure investment in State of the Port

- <https://www.ajot.com/news/sc-ports-state-of-the-port-emphasizes-importance-of-infrastructure-investment>

Seabed foundation conditions may pose challenges for offshore wind development

- [https://www.owjonline.com/news/view,us-foundations-face-multiple-challenges\\_55725.htm](https://www.owjonline.com/news/view,us-foundations-face-multiple-challenges_55725.htm)