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### **Geoscience Bulletin Board – 18 February 2019 – compiled by Elaine J. Hanford**

Old-school survey maps translated into three dimensions

- <https://www.engadget.com/2019/02/10/the-big-picture-3d-us-geological-survey-maps/>
- Website: <https://www.scottreinhardmaps.com/shop/yellowstone-national-park>

Surge of Shisper glacier creates lake in Hunza – erroneously called “artificial lake”

- <https://www.dawn.com/news/1463111/glacier-surge-creates-artificial-lake-in-hunza>

Reviews of Books for Kids: “When Bugs were Big, Plants were Strange, and Tetrapods Stalked the Earth: A Carton Prehistory of Life before Dinosaurs” – and --- “Will it Blow? Become a Volcano Detective at Mount St Helens”

- <https://blogs.agu.org/mountainbeltway/2019/02/11/when-bugs-were-big-bonner/>
- <https://blogs.scientificamerican.com/rosetta-stones/mount-saint-helens-volcano-detectives-activate/>

Erosion risk fears at Valentia Island where the first transatlantic cable was linked

- <https://www.irishexaminer.com/breakingnews/ireland/--903494.html>

Glacial outwash sands may become valuable resource in Greenland

- <https://phys.org/news/2019-02-sand-glacial-greenland-economic-salvation.html>

EQ prediction in Greece spurs conflicting opinions

- <https://greece.greekreporter.com/2019/02/11/greek-seismologists-at-war-over-possibility-of-powerful-quake/>

Charles Darwin was a “rock hound” during his voyages on the Beagle

- <https://www.forbes.com/sites/davidbressan/2019/02/12/charles-darwin-a-rockhound-aboard-the-beagle/#5f4e325633ad>

Pu’u ‘O’o crater on eastern flank of Kilauea collapsed after 3 decades of eruption

- <https://www.cbc.ca/radio/asithappens/a-whole-generation-of-scientists-mourn-end-of-35-year-hawaiian-volcano-eruption-1.5014327>

Volcanic island of Stromboli caused 3 tsunamis in Middle Ages – could do it again

- <https://eos.org/articles/ancient-tsunami-tied-to-volcanic-flank-collapse-in-italy>

Second meteor crater discovered beneath Greenland ice sheet

- <https://www.sciencenews.org/article/greenland-may-have-another-massive-crater-hiding-under-its-ice>
- <https://gizmodo.com/it-looks-like-theres-a-second-bigger-impact-crater-und-1832541413>

Soil tests being conducted near bubbling Erin Bouff mud volcanoes in Los Iros

- <http://www.guardian.co.tt/news/soil-tests-resume-on-earthquakedevastated-lands-6.2.778050.858b06998f>

Will artificial intelligence be better than human intelligence in solving complexity of Earth systems?

- <https://www.nature.com/articles/d41586-019-00556-5>

Airborne geophysical survey of Papua New Guinea included gravity, gravity-gradiometry & magnetics

- <https://www.oilfieldtechnology.com/exploration/14022019/searcher-completes-airborne-geophysical-survey-in-papua-new-guinea/>

Top 10 EarthScope discoveries

- [https://www.eurekalert.org/pub\\_releases/2019-02/eno-eat020519.php](https://www.eurekalert.org/pub_releases/2019-02/eno-eat020519.php)

An arch of gypsum in Sicily

- <https://blogs.agu.org/mountainbeltway/2019/02/14/friday-fold-sicily-gypsum/>

Another dire study decrying the melting of glaciers in the Hindu Kush Himalaya

- <https://newhumanist.org.uk/articles/5417/the-reality-of-climate-change>
- Summary: <http://lib.icimod.org/record/34450/files/HKHAssessmentReportSummary.pdf>
- [http://lib.icimod.org/record/34383/files/icimod2019\\_Book\\_TheHinduKushHimalayaAssessment.pdf](http://lib.icimod.org/record/34383/files/icimod2019_Book_TheHinduKushHimalayaAssessment.pdf)

ESA satellite data reveal interconnected plumbing system of Bali volcano

- <https://phys.org/news/2019-02-satellite-images-reveal-interconnected-plumbing.html>
- Paper: <https://www.nature.com/articles/s41467-019-08564-9>

Latest estimate for the global volume of glacier ice (excluding Greenland & Antarctic Ice Sheets)

- <https://phys.org/news/2019-02-ice-volume-anew.html>

Sand mining permits in Trincomalee suspended to allow assessment of illegal activity

- <http://www.dailymirror.lk/article/Sand-mining-permits-in-Trincomalee-suspended-162369.html>
- <http://www.adaderana.lk/news/53241/all-sand-mining-permits-in-trincomalee-district-suspended>

KYB Corporation falsified quality data on EQ shock absorbers to meet delivery deadlines

- <http://mainichi.jp/english/articles/20190214/p2g/00m/0na/004000c>

Mars rover was built to last 90 days – mission now ends after 15 years!

- <http://news.cornell.edu/stories/2019/02/built-last-90-days-mars-rover-opportunity-ends-mission-after-15-years>
- <https://www.iflscience.com/space/so-long-opportunity-and-thanks-for-all-the-science/>

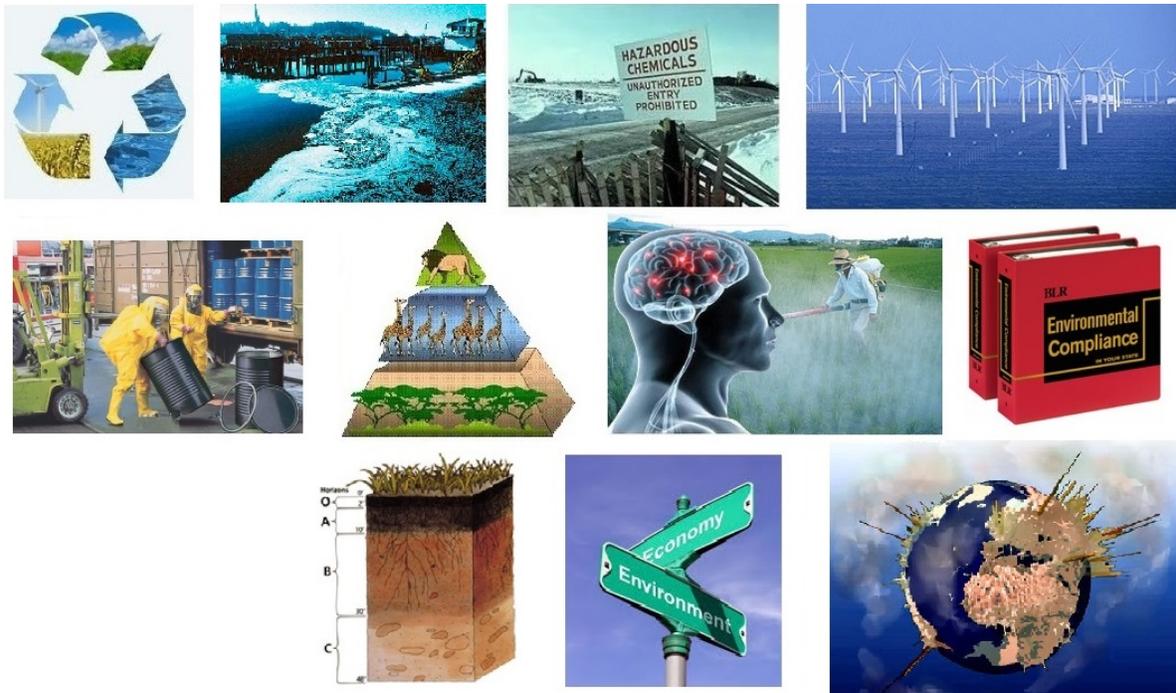
Tis the season of mudslides, snow and flash floods as “atmospheric river” soaks California & Sierra wind gust hits 164 mph

- <https://www.msn.com/en-us/weather/topstories/mudslides-snow-and-flash-floods-an-atmospheric-river-is-soaking-california/ar-BBTBe5n>
- <https://www.msn.com/en-us/weather/topstories/hurricane-force-164-mph-wind-gust-blasts-sierra-you-cant-stand-under-your-own-force/ar-BBTB7ss>

The “witchcraft” of water dowsing

- <https://arstechnica.com/science/2019/02/we-look-at-the-witchcraft-behind-why-dowsers-usually-find-water/>

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**Environmental Science Bulletin Board – 18 February 2019 – compiled by Elaine J. Hanford**

Illegally trafficked “Mexican oxy” takes American lives in Arizona & the US Southwest

- <http://www.dcourier.com/news/2019/feb/13/fentanyl-deaths-mexican-oxy-pills-hit-arizona-hard/>

Black leopard spotted in Kenya, Africa, for first time in a century

- <https://www.msn.com/en-us/news/world/black-leopard-spotted-in-africa-for-first-time-in-100-years/ar-BBTtTQL>
- Paper:  
[https://onlinelibrary.wiley.com/doi/epdf/10.1111/aje.12586?referrer\\_access\\_token=Bj6Lzxck4O6CY5jIL4X7Q4ta6bR2k8jH0KrdpFOxC65qpYX16YCvkAEYVdy3Px9BeFoJFW-wUFczO9mJ-2KbeGcdNPuuvzwT0nJk5ZpiKHyEDObnU5xt8kcQ9GF3tsUs](https://onlinelibrary.wiley.com/doi/epdf/10.1111/aje.12586?referrer_access_token=Bj6Lzxck4O6CY5jIL4X7Q4ta6bR2k8jH0KrdpFOxC65qpYX16YCvkAEYVdy3Px9BeFoJFW-wUFczO9mJ-2KbeGcdNPuuvzwT0nJk5ZpiKHyEDObnU5xt8kcQ9GF3tsUs)

OIE Annual report suggests global shift in use of antibiotics in animals

- <http://www.oie.int/en/for-the-media/press-releases/detail/article/new-report-shows-global-shift-in-use-of-antibiotics-in-animals/>
- Fact sheet:  
[http://www.oie.int/fileadmin/Home/eng/Our\\_scientific\\_expertise/docs/pdf/AMR/Annual\\_Report\\_AMR\\_3.pdf](http://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/AMR/Annual_Report_AMR_3.pdf)
- Report:  
[http://www.oie.int/fileadmin/Home/eng/Our\\_scientific\\_expertise/docs/pdf/AMR/Annual\\_Report\\_AMR\\_3.pdf](http://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/AMR/Annual_Report_AMR_3.pdf)

Keystone may be likely source of estimated 1,800-gallon oil leak near St Louis, Missouri

- <https://www.apnews.com/234e4c25ff6149108ed0b3fe20e711a5>

LSU students help clean-up by creating bioswales: “Blight to Bioswales Project”

- <https://phys.org/wire-news/311318061/blight-to-bioswales-lsu-engineering-student-project-to-help-lowe.html>

BART Transbay Tube to be retrofitted for seismic conditions anticipating the Big One

- <https://www.sfchronicle.com/bayarea/article/What-you-need-to-know-about-the-Transbay-Tube-13602815.php>

Hundreds of people evacuated in Brazil – concern for possible failure of Sol Superior tailings dam

- <https://www.efe.com/efe/english/world/hundreds-evacuated-amid-risk-of-new-mine-dam-collapses-in-brazil/50000262-3892286#>

Plans to build \$B refinery in Permian Basin near Kermit, Texas

- <https://www.chron.com/business/energy/article/California-company-seeks-to-build-1-billion-13607508.php>

AVMA urges passage of legislation to help ban practice of soring horses

- <https://www.veterinarypracticenews.com/avma-urges-congress-to-act-on-horse-abuse/>

Tiger found caged in abandoned house in Houston, Texas

- <https://www.msn.com/en-us/video/news/tiger-found-inside-southeast-houston-home/vi-BBTsQop>

Slave trade in the Colonies began 400 years ago in Virginia

- <https://www.msn.com/en-us/news/us/1619-400-years-ago-a-ship-arrived-in-virginia-bearing-human-cargo/ar-BBTkM6M>

Researchers model potential spread of invasive long-horned tick across North America

- <https://www.k-state.edu/media/newsreleases/2019-02/raghavanticks21319.html>
- Paper: <https://www.nature.com/articles/s41598-018-37205-2>

Florida requesting \$200M to fast-track construction of Everglades restoration projects

- <https://www.tampabay.com/florida-politics/buzz/2019/02/12/desantis-scott-and-rubio-ask-trump-for-200-million-for-everglades-projects/>

Residents in 19 states potentially exposed to drug-resistant bacteria linked to raw milk

- <https://pix11.com/2019/02/13/nj-ny-among-19-states-potentially-exposed-to-drug-resistant-bacteria-linked-to-raw-milk-cdc/>
- CDC Alert: <https://www.cdc.gov/brucellosis/exposure/drug-resistant-brucellosis-linked-raw-milk.html>

Satellite data helps pinpoint widespread oil industry “flaring” in South Texas

- <https://phys.org/news/2019-02-satellite-widespread-oil-industry-flaring.html>
- Map: <https://pubs.acs.org/doi/pdf/10.1021/acs.est.8b05355>

New York State giving out free seedlings to landowners to prevent soil erosion

- <https://www.nbcnewyork.com/news/local/NY-Giving-Out-Free-Tree-Seedlings-to-Prevent-Soil-Erosion-New-York-505794711.html>

US Judge critical of PG&E 10-year wildfire mitigation plan in California

- <https://finance.yahoo.com/news/judge-critical-pg-es-wildfire-183021016.html>

Portland General Electric plans to spend \$160M on massive renewable energy project

- <https://www.oregonlive.com/business/2019/02/pge-will-spend-160-million-to-help-develop-massive-renewable-energy-project-in-eastern-oregon.html>

Endocrine disrupting chemicals don't just impact humans – linked to EMS in horses

- <https://thehorse.com/166842/study-endocrine-disrupting-chemicals-linked-to-ems-in-horses/>

TED Talk: how does bias shape our perceptions about science issues like climate?

- <https://www.npr.org/2019/02/15/694288204/j-marshall-shepherd-how-does-bias-shape-our-perceptions-about-science>

WHO forms committee to develop guidelines editing of human genes – scientific, ethical, social & legal

- <https://www.npr.org/sections/health-shots/2019/02/14/694710663/world-health-organization-forms-committee-to-guide-editing-of-human-genes>

Hidden Brain Podcast: Living vicariously poses dangers

- <https://www.npr.org/2019/02/05/691697963/close-enough-the-lure-of-living-through-others>

Large-scale poultry farms now more than 2X the number of industrial hog farms in North Carolina – new pollution concerns

- <https://www.ewg.org/release/new-investigation-recent-explosion-poultry-factory-farms-nc-piles-manure-515m-chickens-waste>
- Report: [https://cdn3.ewg.org/sites/default/files/u352/EWG\\_NC-CAFO\\_Report\\_C05.pdf](https://cdn3.ewg.org/sites/default/files/u352/EWG_NC-CAFO_Report_C05.pdf)

First global scientific review of insect population decline

- [https://www.huffingtonpost.com/entry/insect-population-decline-extinction\\_us\\_5c611921e4b0f9e1b17f097d](https://www.huffingtonpost.com/entry/insect-population-decline-extinction_us_5c611921e4b0f9e1b17f097d)
- Paper: <https://www.sciencedirect.com/science/article/pii/S0006320718313636>

“Naming & shaming” may be powerful tool to reduce plastic waste

- <https://www.treehugger.com/plastic/naming-and-shaming-powerful-tool-fight-against-plastic-waste.html>

Eliminating non-medical and medical exemptions for vaccinations poses risks to population

- <https://arstechnica.com/science/2019/02/anti-vaxxers-undermine-tougher-vaccination-laws-as-measles-outbreaks-roar/>

What will climate be like in 60 years? Remember – it is only a model (garbage in-garbage out)

- <https://arstechnica.com/science/2019/02/want-a-better-idea-of-your-future-climate-try-this-map/>
- Interactive map: <https://fitzlab.shinyapps.io/cityapp/>

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## Coastal Zone Management Bulletin Board – 18 February 2019 – compiled by Elaine J. Hanford

Will filling in old oil field canals help reverse coastal land loss?

- <http://www.fox8live.com/2019/02/12/lsu-researcher-believes-simply-filling-oil-field-canals-reverses-some-coastal-land-loss/>

Alaskans support opening the ANWR coastal plain as Draft EIR is publicly discussed

- <https://www.adn.com/opinions/2019/02/12/alaskans-support-opening-the-anwr-coastal-plain/>

Decision made to forgo plan to rebuild three coastal natural gas plants in California

- <https://abc7.com/technology/garcetti-to-scrap-plans-to-rebuild-3-coastal-natural-gas-plants/5134409/>

Study assesses wetland distribution & resilience in US estuaries

- <https://www.sciencedaily.com/releases/2019/02/190213124417.htm>

Public comment period on Coastal Texas Study now closed – comments to be reviewed

- <https://communityimpact.com/houston/clear-lake-league-city-nassau-bay/development-construction/2019/02/12/public-comments-on-coastal-texas-study-to-be-reviewed-implemented/>

Santa Barbara County Superior Court Judge refused approval of agreement that would allow very limited access to Hollister Ranch beaches

- [https://lompocrecord.com/news/local/state-and-regional/judge-won-t-approve-hollister-ranch-coastal-access-deal/article\\_b85fc376-d7fb-50b2-b9ea-39d1bd414803.html](https://lompocrecord.com/news/local/state-and-regional/judge-won-t-approve-hollister-ranch-coastal-access-deal/article_b85fc376-d7fb-50b2-b9ea-39d1bd414803.html)

98% of Isle de Jean Charles, Louisiana, has disappeared – gov't paying to move families northward

- <https://www.knoe.com/content/news/98-of-this-Louisiana-coastal-community-has-disappeared-505733391.html>

Louisiana CPRA has built or renewed 600 acres of marsh in Cameron Parish – cost: \$31M

- <https://www.kalb.com/content/news/Coastal-agency-Hundreds-of-acres-of-marsh-built-restored-505673091.html>

Strong storm sent heavy waves and surges onto islands in Hawaii

- <http://www.hawaiinewsnow.com/2019/02/11/coastal-flooding-expected-haleiwa-large-surf-flings-water-onto-road/>
- <http://time.com/5526508/hawaii-coastal-flooding-winter-storm-2019/>

West Coast Tormin mine inspected in advance of planned expansion

- <https://www.dailymaverick.co.za/article/2019-02-12-mantashe-inspects-west-coast-mine-ahead-of-its-expansion-plans/>

Coastal Barrier Resource Act amended to create more accurate digital maps

- <https://www.coastalreview.org/2019/01/law-tweaks-coastal-barrier-resource-act/>

Looking at the details of massive Samoa Fish Farm proposal for Humboldt Bay

- <https://lostcoastoutpost.com/2019/feb/11/humboldt-baykeeper-says-samoa-fish-farm-proposal-l/>
- <https://www.times-standard.com/2019/02/09/humboldt-bay-harbor-district-eyes-fish-farm/>

Contemplating “last chance” to embark on ecosystem restoration effort along Gulf Coast

- <https://thehill.com/opinion/energy-environment/429492-our-last-chance-to-save-the-gulf>

12 North Carolina towns win Beach Access Grants

- <https://www.coastalreview.org/2019/01/12-coastal-towns-win-beach-access-grants/>

Sustainable urban adaptation in Arab coastal cities

- <https://www.mei.edu/publications/climate-change-sea-level-rise-and-sustainable-urban-adaptation-arab-coastal-cities>

3 wave energy developers to test devices in Hawaii

- <https://www.enr.com/articles/46370-three-wave-energy-developers-ready-to-test-devices-in-hawaii>

Complex relationship between the environment & mercury pollution in coastal waters

- <https://phys.org/news/2019-02-complex-picture-mercury-pollution-period.html>

“Go-ahead” given to extended dredge disposal operation off Great Barrier Island

- <http://www.scoop.co.nz/stories/PO1902/S00102/epa-gives-go-ahead-to-extended-disposal-operation.htm>

CAA passed Friday to provide \$1.2B for coastal port & multi-modal grants

- <https://www.maritime-executive.com/article/port-related-funding-boost-in-fy19-minibus-agreement>

Red Tide in Florida finally appears to be ebbing

- <https://www.npr.org/2019/02/14/694479180/after-16-months-of-dead-fish-manatees-and-dolphins-floridas-red-tide-ebbs>