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Geoscience Bulletin Board – 25 March 2019 – compiled by Elaine J. Hanford

Offshore drilling – drillship & semi-sub fundamentals

- <https://seekingalpha.com/article/4248975-offshore-drilling-semi-sub-fundamentals-march-2019-edition>
- <https://seekingalpha.com/article/4248650-offshore-drilling-drillships-fundamentals-march-2019-edition>

Diving support vessel Seven Atlantic undergoes engine overhaul

- <https://www.offshore-mag.com/articles/2019/03/subsea-7-dsv-undergoes-engine-overhaul.html>

In Memoriam: Dimitri Komatitsch (1970-2019) – computational seismology

- <https://eos.org/articles/dimitri-komatitsch-1970-2019>

Geophysical techniques documents “missing” fault along North American northwest margin

- <https://eos.org/research-spotlights/resolving-a-cordilleran-conundrum>

Oceanic plates are more likely to become hydrated as spreading rate decreases

- <https://eos.org/project-updates/project-voila-the-volatile-recycling-in-the-lesser-antilles>

A priori information & geostatistical approach to new global crustal model

- <https://eos.org/editor-highlights/new-global-crustal-model-built-as-foundation-for-future-studies>

Pacific Plate magnetic anomalies suggest new locations of paleomagnetic poles

- <https://eos.org/research-spotlights/magnetic-anomalies-on-the-pacific-plate-reveal-true-polar-wander>

The Laschamps excursion – a geomagnetic pole reversal – what’s in a name?

- <https://eos.org/opinions/changing-name-for-earths-changing-poles>

Paper: slab morphology & deformation in the Izu-Bonin subduction zone

- <https://www.nature.com/articles/s41467-019-09279-7>

Paper: Synchronization of terrestrial, marine, and ice-core records in NADW & AMOC

- <https://www.nature.com/articles/s41467-019-09237-3>

Melting glaciers exposing dead bodies of explorers who perished on Mount Everest

- <https://thehill.com/policy/energy-environment/435138-melting-glaciers-are-exposing-bodies-of-dead-explorers-on-mount>

Massive magma movement beneath the sea floor may have caused 2018 massive Earth shake

- <https://www.sciencealert.com/we-just-got-a-lead-in-the-mysterious-case-of-a-massive-earth-shaking-seismic-wave>

Book Review: The Dinosaur Artist: Obsession, Betrayal & the Quest for Earth’s Ultimate Trophy”

- <https://blogs.agu.org/mountainbeltway/2019/03/20/the-dinosaur-artist-by-paige-williams/>

Fluid viscosity affects earthquake intensity

- https://www.eurekalert.org/pub_releases/2019-03/epfd-hfv032019.php

New model of formation of southern & central Rocky Mountains during Laramide Orogeny

- <https://phys.org/news/2019-03-southern-central-rocky-mountains-differently.html>

Underwater surveys reveal nature & activity of faults in Emerald Bay, Lake Tahoe Basin

- https://www.eurekalert.org/pub_releases/2019-03/gsoa-usi031919.php

Tribute to Luna Leopold

- <https://eos.org/opinions/luna-b-leopold-geoscience-pioneer>

More “global warming” alarmism: “projected to rise by 2.7 to 7.2 degrees” – especially since global average temp has increased by about 1.4 degrees since 1880

- <https://www.jsonline.com/story/news/local/wisconsin/2019/03/21/climate-change-great-lakes-region-warming-faster-than-rest-u-s/3229219002/>

California claims to be “drought free” first time in 7 years – but groundwater not replenished

- https://www.huffpost.com/entry/california-drought-free_n_5c8bd9efe4b03e83bdc08bf9

Lake in Death Valley was truly ephemeral

- <https://www.treehugger.com/natural-sciences/huge-lake-appears-north-americas-hottest-driest-spot.html>

World Water Day marked by citizen scientists collecting data on intermittent rivers in SW US

- https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=297579&org=GEO&from=news

Oso Landslide in Washington State – 5 year retrospective

- https://www.usgs.gov/news/five-years-later-oso-sr-530-landslide-washington?qt-news_science_products=1#qt-news_science_products

\$983M proposed budge for FY20 for USGS

- <https://www.usgs.gov/news/president-proposes-983-million-fy20-budget-usgs>

An abundance of 500,000 year old fossils found in China – Cambrian explosion

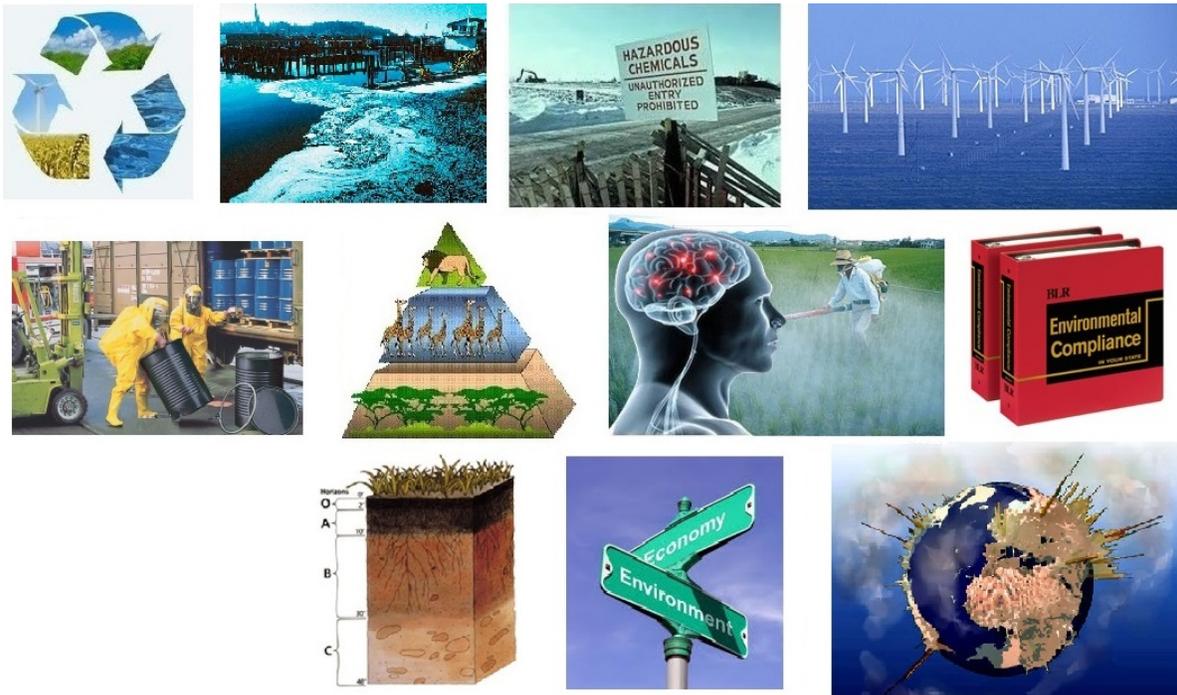
- <https://bgr.com/2019/03/22/china-fossils-qinjiang-biota-paleontology/>
- <https://theconversation.com/exquisite-fossil-finds-shed-new-light-on-the-cambrian-explosion-when-oceans-first-filled-with-complex-animal-life-114054>
- <https://www.livescience.com/65048-new-cambrian-fossil-bed-china.html>

Notable women in the Geosciences

- <https://oceanservice.noaa.gov/news/womens-history-month/>

High-resolution mobile electromagnetic (TDEM) survey in Beauce Gold Fields in Quebec, Canada

- <https://www.miningmagazine.com/exploration/news/1359242/beauce-gold-fields-using-new-geophysics-technology>



Environmental Science Bulletin Board – 25 March 2019 – compiled by Elaine J. Hanford

Additional cases of virulent Newcastle Disease & new case in northern California – flocks euthanized

- <https://content.govdelivery.com/accounts/USDAAPHIS/bulletins/236fb74>

1M pounds of pork smuggled from China to New Jersey seized amid African swine fever outbreak

- <https://www.nj.com/news/2019/03/feds-seize-1-million-lbs-of-pork-smuggled-from-china-to-nj-port-amid-african-swine-fever-outbreak.html>
- USDA info: <https://content.govdelivery.com/accounts/USDAOC/bulletins/237bec1>
- <https://www.phnompenhpost.com/national/african-swine-fever-spreads-vn-cambodia-border>

Testing 12,917 square foot solar panel array in Chile floating on tailings pond containing mining waste

- <https://www.apnews.com/b9bdd29b8059489eb92810581c4bfe5e>

Flood waters in the Mississippi River Basin – breached levees, damaged infrastructure & at least 3 deaths

- <https://www.apnews.com/989eeba58b2b4089992441516e8225f5>
- <https://www.enr.com/articles/46528-historic-midwest-floods-destroy-roads-bridges-dams-and-levees>

NYC violated Safe Drinking Water Act, to undertake \$3B in improvements to reservoir under consent order

- <https://www.enr.com/articles/46532-in-consent-decree-nyc-agrees-to-nearly-3b-in-reservoir-projects>

Cyclone Idai hits Mozambique with strong winds & caused extensive flooding – death toll rises

- <https://www.msn.com/en-us/news/world/cyclone-idai-survivors-clinging-to-rooftops-in-mozambique-as-they-await-rescue-aid-officials-say/ar-BBUWHqh>
- https://start.att.net/news/read/article/newser-cyclone_could_be_among_hemispheres_worst_disasters-rnewsernor/category/news+

Severe decline in population of bighorn sheep in southern California desert – die-off of 2/3 of population

- <https://goldrushcam.com/sierrasuntimes/index.php/news/local-news/17905-survey-shows-severe-decline-in-southern-california-desert-bighorn-sheep-population-cdfw-reports>

Ironic: San Francisco wants to ban e-cigarette labs & sales to minors – but provides sanctuary to illegals

- <https://www.msn.com/en-us/news/us/san-francisco-weighing-e-cigarette-ban/ar-BBUZiop>

EPA Administrator correct in recognizing unsafe drinking water is greater threat than “climate change” & notes “Green New Deal” does not value reliable electric grid

- <https://www.msn.com/en-us/news/us/epa-head-says-dirty-water-is-worse-threat-than-climate-change/ar-BBV01gZ>

7 states finally reach agreement on Drought Contingency Plan for Colorado River

- <https://www.apnews.com/bdeff90296094e4eb3f787e44dd573bf>

5-year, \$524M project begins on 10,500-acre storage reservoir along Caloosahatchee River in Florida

- <https://www.enr.com/articles/46541-florida-reservoir-project-sets-records-for-owner-and-contractor>

USGS SW Region Workshop focused on Drought Science

- <https://eos.org/meeting-reports/better-approaches-to-managing-drought-in-the-american-southwest>

Retirees leaving Florida in advance of FEMA adopting risk-based pricing in 202 for flood insurance

- <https://www.msn.com/en-us/money/retirement/retirees-flee-florida-as-climate-change-threatens-their-financial-future/ar-BBV0FZG>

Golfers not phased (but should be) by massive nearby petro-chemical fire – health impacts

- <https://www.msn.com/en-us/news/us/theres-a-massive-fire-burning-nearby-but-these-golfers-are-so-not-worried/ar-BBV1ImV>
- <https://www.msn.com/en-us/news/us/houston-suburb-sees-wave-of-sickness-as-disaster-intensifies/ar-BBV6T6R>

Another study links drinking piping hot tea with increased risk of esophageal cancer

- <https://www.msn.com/en-us/health/health-news/drinking-hot-tea-almost-doubles-risk-of-esophageal-cancer-new-study-says/ar-BBV0fBf>

2nd phase of trial begins on liability & potential damages for Roundup® (glyphosate) caused cancer

- <https://www.msn.com/en-us/money/companies/us-jury-hears-more-evidence-as-second-phase-of-roundup-cancer-trial-begins/ar-BBV1eHR>

Bottled water is an expensive scam

- https://start.att.net/news/read/article/business_insider-12_facts_that_show_why_bottled_water_is_one_of_the-newscred2/category/finance

Missouri regulators reverse decision & approve proposed Grain Belt Express transmission line

- <https://www.apnews.com/7b4013b6938741698d3c26e4c8447740>

Viewing wastewater as a source of nutrients, energy & precious metals

- <https://theconversation.com/wastewater-is-an-asset-it-contains-nutrients-energy-and-precious-metals-and-scientists-are-learning-how-to-recover-them-113264>

CRS Report: Federal Lands & Related Resources”

- <https://fas.org/sgp/crs/misc/R43429.pdf>

Perspective: “It’s time to talk about ditching statistical significance” – making science better

- <https://www.nature.com/articles/d41586-019-00874-8>

Paper: descriptive epidemiology of severe injury & mortality impacts of the 1931 Hawke’s Bay EQ

- <https://www.nature.com/articles/s41598-019-41432-6>

Examining the psychology behind humans risking their lives for a selfie disconnected from Nature

- <https://www.nationalgeographic.com/animals/2019/03/psychology-of-why-people-enter-wild-animal-enclosures-at-zoos/>

Major milestone in Whooping Crane recovery

- <https://www.usgs.gov/news/significant-milestone-whooping-crane-recovery>

Mercury concentrations highest in side canyons in lower Lake Powell reservoir - bioaccumulation

- <https://www.usgs.gov/news/mercury-concentrations-lake-powell-higher-side-canyons>
- Report: <https://pubs.er.usgs.gov/publication/ofr20181159>

The recent evolution of the African Rift valley between Ethiopia & Kenya

- <https://phys.org/news/2019-03-evolution-african-rift-valley.html>

California wants to bypass environmental regulations to prepare for the coming wildfire season

- <https://phys.org/news/2019-03-california-waive-environmental-season-prep.html>

Grand Canyon ecosystem communities on the North Rim Trail

- <https://www.cbsnews.com/news/nature-up-close-grand-canyon-ecosystems/>



Coastal Zone Management Bulletin Board – 25 March 2019 – compiled by Elaine J. Hanford

Proposed LNG plant on Brownsville Ship Channel gets environmental approval but concerns raised for endangered ocelot, jaguarundi and aplomado falcon

- <https://www.chron.com/business/energy/article/Feds-give-Texas-LNG-green-light-in-environmental-13692551.php>
- <https://www.spglobal.com/platts/en/market-insights/latest-news/natural-gas/031519-ferc-clears-final-eis-for-texas-lng-project-flags-cumulative-impacts>
- https://www.rigzone.com/news/texas_lng_project_clears_ferc_hurdle-18-mar-2019-158400-article/
- FERC FEIS: <https://www.ferc.gov/industries/gas/enviro/eis/2019/03-15-19-FEIS.asp>

If one believes all the IPCC (and other) hype about global warming, then could impact coastal tourism

- <https://www.greenbiz.com/article/coastal-tourism-danger-going-underwater>

Perspective: Saving coastal communities Louisiana style

- <https://thehill.com/opinion/energy-environment/434785-a-lesson-from-louisiana-saving-coastal-communities>

VIMS updating Chesapeake Bay coastal inventory

- <https://www.wm.edu/news/stories/2019/vims-updates-chesapeake-bay-coastal-inventory.php>

Support for terminal groins erodes in North Carolina

- <https://www.coastalreview.org/2019/03/analysis-support-for-terminal-groins-erodes/>

Coastal mountain lions headed for extinction in Southern California – habitat fragmentation

- https://www.biologicaldiversity.org/news/press_releases/2019/southern-california-mountain-lions-03-20-2019.php

Final weld to connect near-shore and offshore pipeline in Turkey in the Black Sea

- <https://www.worldpipelines.com/project-news/20032019/above-water-tie-in-for-turkstream-completed/>

Young male Cuvier's Beaked Whale washed up near shore in Philippines – ate 88 pounds of plastic

- <https://www.forbes.com/sites/ericmack/2019/03/18/how-we-could-have-prevented-this-dead-whale-that-ate-88-pounds-of-plastic-bags/#796214193210>

EU Horizons wave energy project completes advanced custom interaction WEC model

- <https://www.waterpowermagazine.com/news/newsmilestone-for-eu-wave-energy-project-7051474>

European fish farms attempting to reduce notorious aquaculture pollution impacts (video)

- <https://www.euronews.com/2019/03/15/how-fish-farming-is-reducing-its-impact-on-the-environment>

Final Restoration Plan 1 approved for water quality & park amenities in Florida

- <http://www.northescambia.com/2019/03/escambia-to-receive-16-million-in-bay-restoration-funds>

Oregon House votes to prohibit drilling & exploration in state marine waters

- <https://www.kdrv.com/content/news/Oregon-bans-offshore-drilling-507398331.html>

Estuary sediments and hypoxia in coastal waters

- <https://eos.org/research-spotlights/when-the-river-meets-the-sea-estuary-sediments-and-hypoxia>

Microbes & organic matter raise toxic methylmercury production in Great Lakes estuary

- https://www.newswise.com/doescience/?article_id=708628&returnurl=aHR0cHM6Ly93d3cubmV3c3dpc2UuY29tL2FydGljbGVzL2xpc3Q=

- Paper: <https://peerj.com/articles/4575/>

Visitors & residents of Knysna, South Africa, cautioned over high levels of *E. coli* in estuary

- <https://ewn.co.za/2019/03/13/knysna-residents-visitors-cautioned-over-high-levels-of-e-coli-in-estuary>

Impacts of hydroelectric dams on estuaries of tropical rivers

- Paper: <http://advances.sciencemag.org/content/5/3/eaau9875.full>

Carnival Cruise Lines begins work on \$163M Port Canaveral – its largest terminal project

- <https://www.wesh.com/article/new-cruise-terminal-under-construction-at-port-canaveral/26862054>
- <https://www.travelweekly.com/Cruise-Travel/Work-on-Carnival-Port-Canaveral-terminal-underway>

M7.9 EQ off-shore Alaska in January 2018 prompted tsunami alert in Port Alberni – lessons to be learned

- <https://theprovince.com/news/local-news/real-life-tsunami-threat-in-port-alberni-offers-evacuation-lessons/wcm/de062606-daeb-443e-95ea-f4d11e9373bc>