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Geosciences Bulletin Board – 6 June 2016 - compiled by Elaine J. Hanford

Cache of fossils in Colorado yields valuable tiny Jurassic fossils in Morrison formation

Geologists studying granite in Wyoming for clues to what is happening in magma chambers beneath the Yellowstone super volcano

Sensors to be placed on Ol Doinyo Lengai in Tanzania in effort to predict eruption of this natroncarbonatite volcano in the African Rift

Will plate tectonic activity on Earth cease in five billion years?
- https://www.sciencenews.org/article/plate-tectonics-just-stage-earth’s-life-cycle

Landslide flow movement has slowed as a result of the drought in California
Newly developed cryogenic deformation apparatus being used to measure ice deformation behavior

19th Century glass models of marine life...process still not fully understood

Perspective: Science & engineering have solutions to challenges, but policymakers wage political war on science
- http://www.huffingtonpost.com/shawn-lawrence-otto/the-war-on-science-excerp_b_10114824.html

Collecting 'hurricane hunter' data while storm is developing improves hurricane intensity predictions

Book Review: “The Hudson Valley in the Ice Age”

New USGS models will help to predict hurricane impacts on beaches

Using high-tech remotely operated vehicle (ROV) to investigate ocean floor hydrothermal vents
- https://www.sciencedaily.com/releases/2016/05/160531143217.htm

Mapping in high-definition reveals details of the seafloor

Magnetic field of Earth was generated by the geodynamo, but what sustains it?

New geoglyph has been discovered near the Nazca Lines in southern Peru

June is National Ocean Month – six things you can do to get involved
- http://www.alternet.org/environment/6-impressive-things-scientists-are-doing-underwater-and-along-us-coasts-and-how-you-can

Deep, old water explains why Antarctic Ocean hasn’t warmed
Seismic activity continues beneath Bárðarbunga volcano in Iceland

- http://icelandmag.visir.is/article/earthquakes-keep-hitting-iclands-most-powerful-volcano

65 million years of geological history of Abu Dhabi


New seismic-tomography model suggests an unexpected, massive reservoir of magma under the South Korean island of Ulleung-do in the Sea of Japan


Assessing the threat of massive rock falls in Norwegian fjords


Enviro-Sciences Bulletin Board – 6 June 2016 – compiled by Elaine J. Hanford

WHO updates guidelines to attempt to prevent sexual transmission of Zika virus & battling mosquito-borne diseases with bacteria


CDC issues practical guide for health care professionals on diagnosis & management of tick-borne diseases
- [http://www.cdc.gov/mmwr/volumes/65/rr/rr6502a1.htm](http://www.cdc.gov/mmwr/volumes/65/rr/rr6502a1.htm)

Survey shows only a small percentage of Americans agree that bacterial resistance is a serious problem

Supreme Court rebukes the Army Corps of Engineers & allows that expansive interpretation of Clean Water Act can be challenged in court

With more than seven billion humans on Earth, there is a lot of human waste that South Korea thinks could be used to produce biofuel

New study reveals more damage from the Deep Horizon Oil Spill
- [https://psmag.com/the-gulf-oil-spill-left-more-damage-than-we-previously-thought-ac59562074ca#.qp5iihws4](https://psmag.com/the-gulf-oil-spill-left-more-damage-than-we-previously-thought-ac59562074ca#.qp5iihws4)
- Paper: [http://www.pnas.org/content/early/2016/05/26/1513156113.full.pdf](http://www.pnas.org/content/early/2016/05/26/1513156113.full.pdf)

Elwha River ecology in Washington State recovering after removal of Glines Canyon dam (Video)

Scale is key to monitoring human impacts on biodiversity

Dakota Access pipeline construction may begin soon, but environmental concerns remain

Adequate funding must be secured to protect the oceans
Photo-essay: Sidoarjo, East Java, Indonesia, residents damaged by the 2006 Sidoarjo mudflow eruption promised compensation from Indonesian oil and gas company Lapindo Brantas

Grizzly bear shot by authorities after killing 40-plus sheep on Montana ranch

Flood waters sweeping oil and toxic chemicals into rivers in Texas, bring snakes and other critters & are deadly

New eco-village is under construction near Amsterdam...designed to be completely self-sufficient

First National Lakes Assessment shows toxic algal blooms occur nationwide

Cigarette smoking promotes biofilm formation by several pathogens including Staphylococcus aureus, Streptococcus mutans, Klebsiella pneumonia & Pseudomonas aeruginosa

New method to systematically organize and evaluate data on human carcinogen, key to assessing potential carcinogenicity of unstudied chemicals

Controversial approval given by NIH for experiments to reactivate brains of dead people

Tradition of battery recycling in Indonesia resulted in heavy metal toxicity and now toxic smoke

Eating organic is a bit more expensive....is it worth the cost of not doing so?
“Jumping gene” responsible for dark peppered moths during the Industrial Revolution in the iconic example of evolution by natural selection

- [https://www.sciencedaily.com/releases/2016/06/160601141528.htm](https://www.sciencedaily.com/releases/2016/06/160601141528.htm)

Chemical & heavy metal contamination from Fort McMurray fire will delay return of evacuees


Summer weather is here...Plague is endemic in Western states....Idaho urges caution


Massive wildfire in 2015 threatened numerous sequoia groves, but also spurred regrowth


Perspective: Identification of super antibiotic resistant superbug may change the livestock industry


Australia sites excised from United Nations report on threatened World Heritage Sites


Buddhist Temple linked to suspected trafficking and abuse of wildlife, especially tigers


Largest dam in the world to be built in the Democratic Republic of Congo...likely without any surveys on environmental or social impacts of this mega-dam which will be significant


Planting more Milkweed is a start in a complicated process of saving Monarch Butterflies

- [http://www.npr.org/sections/thesalt/2016/05/31/479763154/can-planting-more-milkweed-save-monarch-butterflies-its-complicated](http://www.npr.org/sections/thesalt/2016/05/31/479763154/can-planting-more-milkweed-save-monarch-butterflies-its-complicated)

Hydropower dams create reservoirs that are detrimental to species diversity and promote extinctions

- [https://www.sciencedaily.com/releases/2016/05/160530101121.htm](https://www.sciencedaily.com/releases/2016/05/160530101121.htm)
Industrialized nations need to respond to wildfires with adaptive capacity at local, national, international scales


Using high-speed video to break down the anatomy of sneezes & coughs to understand infectious disease

- http://www.nature.com/news/the-snot-spattered-experiments-that-show-how-far-sneezes-really-spread-1.19996