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**Geosciences Bulletin Board – 30 May 2016 - compiled by Elaine J. Hanford**

2016 Hurricane season prediction is issued by NOAA
- [http://www.noaa.gov/near-normal-atlantic-hurricane-season-most-likely-year](http://www.noaa.gov/near-normal-atlantic-hurricane-season-most-likely-year)

New study suggests K-T Boundary extinction event also wiped out many marine organisms

Geologically “fresh” asteroid impact sites are identified near the south pole of our Moon

NASA creating better digital images of hurricanes

Surprisingly, the record of snowfall on Greenland is revealed by leaf waxes
- [http://www.buffalo.edu/news/releases/2016/05/044.html](http://www.buffalo.edu/news/releases/2016/05/044.html)

Why are climbers dying on Mount Everest? Because there are too many of them
Video of latest lava flows on Kilauea
  •  Photos:  https://www.rt.com/usa/344457-hawaii-volcano-lava-pahoa/

Perspective in Texas: politics, oil & gas industry, fracking, seismicity – taking it seriously
  •  http://www.dallasnews.com/opinion/latest-columns/20160526-jim-keffer-texas-lawmakers-take-drilling-related-seismicity-seriously.ece

Deltas complicate attempts to measure sea level rise
  •  http://www.earthmagazine.org/article/measuring-rising-seas-tricky-deltas

Van der Waals forces for a single atom are measured

Living next to an active volcano poses a risk, so why do people live there?

Volcanic eruptions can lead to strong earthquakes
  •  http://www.earthmagazine.org/article/double-trouble-volcanic-eruption-leads-strong-earthquake-eight-months-later

Explaining why sea ice is increasing around Antarctica, but seems to be decreasing in the Arctic

Largest sponge in the world discovered growing in the deep waters of Hawaii – size of a minivan

Prescribed fires not only reduce risk of wildfires, but also reduce tree death from drought

Research shows wildfires are not “spreading like wildfires” but are less common than in the past
  •  http://www.terradaily.com/reports/Wildfire_not_spreading_like_wildfire_999.html

Bacterial biodiversity in soil was shaped by the ice ages...Driftless Area of Wisconsin has the most diversity
  •  http://www.technology.org/2016/05/26/bacterial-diversity-soils-shaped-ice-ages/

Planetary geology: tidal forces could create tension cracks on icy moons
  •  https://www.sciencedaily.com/releases/2016/05/160525140541.htm

Fossil evidence suggests 750 million years ago, some amoeba may have predated like vampires
  •  https://www.sciencedaily.com/releases/2016/05/160525161354.htm

Understanding natural aerosols impact on cloud formation may help our understanding of climate
• https://www.sciencedaily.com/releases/2016/05/160526093525.htm

4,800 year old massive rock avalanche helped shape topography of Zion National Park

Is the core of the Earth younger than the crust? Measured in years, not days

Marcellus Shale is rich in barium that leaches out due to fracking fluids

Is NASA using bad statistics to estimate size of many asteroids?

New cloud studies suggest warming may not occur as rapidly as predicted
• http://www.sciencemag.org/news/2016/05/earth-s-climate-may-not-warm-quickly-expected-suggest-new-cloud-studies

What did Neanderthals do with stalagmites 175,000 years ago? Built structures but for what purpose?
• http://www.smithsonianmag.com/smart-news/neanderthals-built-mysterious-stalagmite-semicolon-180959257/
Zika virus updates

- Response funding? [https://www.fas.org/sgp/crs/misc/R44460.pdf](https://www.fas.org/sgp/crs/misc/R44460.pdf)

FDA lists antibiotics of importance for humans....limits use in livestock and poultry


Ecosystems take root in the climate change fight


Some helpful suggestions on how to cope with current “antibiotic apocalypse”


First case identified of a super superbug....resistant to all known antibiotics


Overview of progress under the National Action Plan for Combating Antibiotic Resistant Bacteria

- [http://www.hhs.gov/blog/2016/05/26/early-detection-new-antibiotic-resistance.html](http://www.hhs.gov/blog/2016/05/26/early-detection-new-antibiotic-resistance.html)

“Diagnosing the canvas” recognizes diseases in historical paintings


Do humans really have a “right to water” or not? If so, how can that right be guaranteed?

- [http://www.politico.com/agenda/story/2016/05/is-clean-drinking-water-a-right-000129](http://www.politico.com/agenda/story/2016/05/is-clean-drinking-water-a-right-000129)

Since 2000, Lake Mead has shrunk to about 37 percent of capacity...still not restricting use


“Water, Too Good to Waste” is award winning video on water purification

• Video: https://vimeo.com/124383956

Can urban planning help reduce pollution and the heat island effect?

Overall the Black Death wiped out about 45 percent of the population, with some areas as high as 85 percent

Investigating the business of disaster found millions of taxpayer dollars have gone to waste, mired in bureaucracy & red tape.
  • http://boisestatepublicradio.org/post/business-disaster-local-recovery-programs-struggle-help-homeowners

“Biodegradable plastic” may be a big lie...the oceans are full of it

Wildlife on Antarctica is at risk of human derived E. coli infections
  • http://www.technology.org/2016/05/26/antarctic-wildlife-risk-human-derived-e-coli/

Oil sands are leading source of particulate air pollution across North America

Perspective: Overview of natural disasters in the Middle East and North Africa
  • http://www.mei.edu/content/map/responding-natural-disasters-rowing-against-fast-rising-tide-risk

Cities with the most polluted air....Beijing & Delhi are not on the list
  • http://www.accuweather.com/en/features/trend/the_worlds_most_polluted_citie/57661335

Pipeline failure caused massive sinkhole in Florence, Italy, partially submerging parked cars

In the world of meerkats, competitive eating helps maintain social pecking order
  • http://www.smithsonianmag.com/science-nature/welcome-meerkats-world-competitive-eating-180959217/

“The Sting of the Wild” from sweat bees and Southern fire ants to warrior wasps

Toilets have an interesting history, from China to Mesopotamia to Crete to Rome and what they tell us about life and diet and health
• http://www.nature.com/news/the-secret-history-of-ancient-toilets-1.19960

Dung from cattle treated with antibiotics releases more than twice as much methane

Defeating an improper (i.e., illegal) use of the endangered species process
• http://www.wsj.com/article_email/washingtons-chicken-retreat-1464131965-MyQiAxMTI2NzI4NTQyNzU4Wj

Study shows oysters in Chesapeake Bay were bigger & more plentiful before the European invasion
• http://www.smithsonianmag.com smithsonian-institution/how-big-oysters-chesapeake-before-colonization-180959198/

Government pays farmers to plant riparian vegetation instead of farming along streams that drain to Chesapeake Bay
• http://www.politico.com/agenda/story/2016/05/obama-chesapeake-bay-restoration-000127

Before being renamed Kentucky Downs (yes, where the Derby is run), this site was one of the five bloodiest dueling grounds in the US
• http://www.smithsonianmag.com/travel/americas-dueling-history-180958953/

Yamuna River is one of the most polluted waterways in India and flies that breed there are leaving their green poop on the Taj Mahal

Predator-prey relationship documented between monkeys & bats...possible route for Ebola, Marburg and Henipa virus transmission
• http://www.upi.com/Science_News/2016/05/24/African-monkeys-documentd-eating-bats/2361464106035/

City of Annapolis bans asphalt and coal tar sealants which contain PAHs

Rapid microbiological methods to speed up detection of food-borne salmonella and improve accuracy
• http://www.digitaljournal.com/life/health/new-rapid-methods-for-salmonella-detection/article/466095

Native American archeological site may delay or necessitate re-routing of Dakota Access oil pipeline

Glen Canyon Dam may be decommissioned – if so, waters of Lakes Powell & Mead may merge
• http://www.nytimes.com/2016/05/22/opinion/unplugging-the-colorado-river.html
US CBP intercepts and prevents invasion of longhorn beetle from Ecuador in banana shipment

Perspective: Practice of spreading biosolids from sewage plant sludge in forests poses risks and needs to stop
  •  http://www.environmentalhealthnews.org/ehs/news/2016/may/opinion-were-making-a-mess-in-our-forests-with-our-sewage-sludge

Veterinarian researching new contraceptive methods for use to limit wild horse & burro population
  •  http://equusmagazine.com/blog/ohio-state-veterinarian-pzp-contraceptive-wild-horses-blm-53121

The history of penguins on Australia...only one species is still there

St. Louis jury orders Monsanto to pay three plaintiffs $46.5 million in latest PCB lawsuit & pay millions more in punitive damages