This is the world!
Sea-level

What if all the ice melted?
If all of the ice melts
Thermal expansion
Summary so far

Sea level is rising

What are the two reasons why?

- Ice melting
- Heating (thermal expansion)
Hurricane recipe
HURRICANE IRMA

About 2 months ago

Irma was a very large storm (the size of Texas before FL landfall), having impacts over the entire state.
Hurricane Hazards

- Storm Surge
- Wind
- Rain
- Tornadoes
- Waves/Rip Currents
Wind, Rain, and Waves
Storm Surge

**Storm surge** = water pushed on to land by wind

Brickell during Hurricane Irma (2017)
The future of sea level in Miami
So... Know Your Zone
If Hurricane Andrew (1992) happened again, but with a higher sea-level, what would we expect?

SLOSH storm surge prediction

In 1992 Andrew had up to 17 feet of storm surge. SL + 3 feet: storm surge would be up to 20 feet.

SL + 3 feet: storm surge would be up to 20 feet

Courtesy of Dr. Brian Soden
University of Miami
Summary of hurricanes and storm surge

What is storm surge?

Water pushed on to land by wind

Will sea-level rise affect hurricanes?

Yes
Be prepared!

- Get bottled water
- Canned food
- Medicine
- First-aid kit
- Charged cell phone
- Flashlight
- Radio and extra batteries
- Fill bathtub with water
- Evacuate when told
How you can help!

• Reduce, reuse, recycle
• Reusable water bottles
• Bring reusable bags to the store
• Turn off the water while you brush your teeth
• Turn off the lights
• Don’t litter