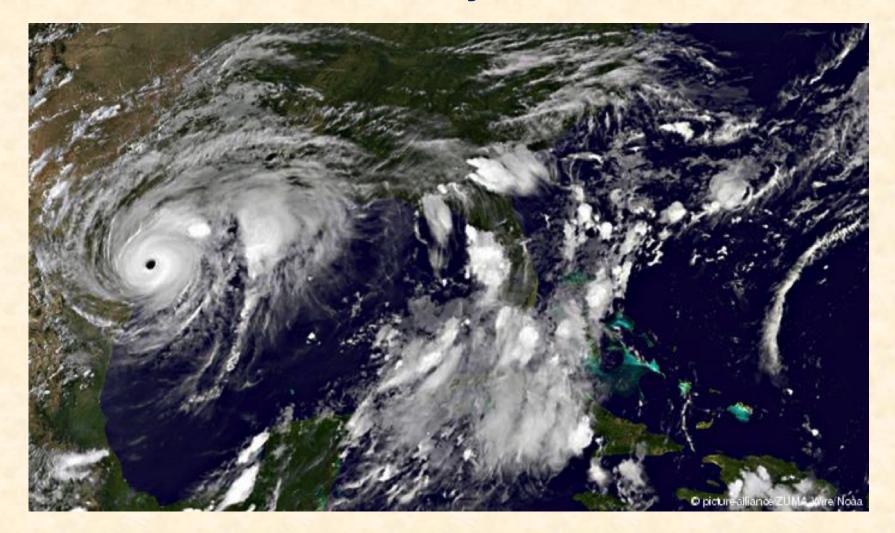
## **Hurricanes Harvey and Florence**



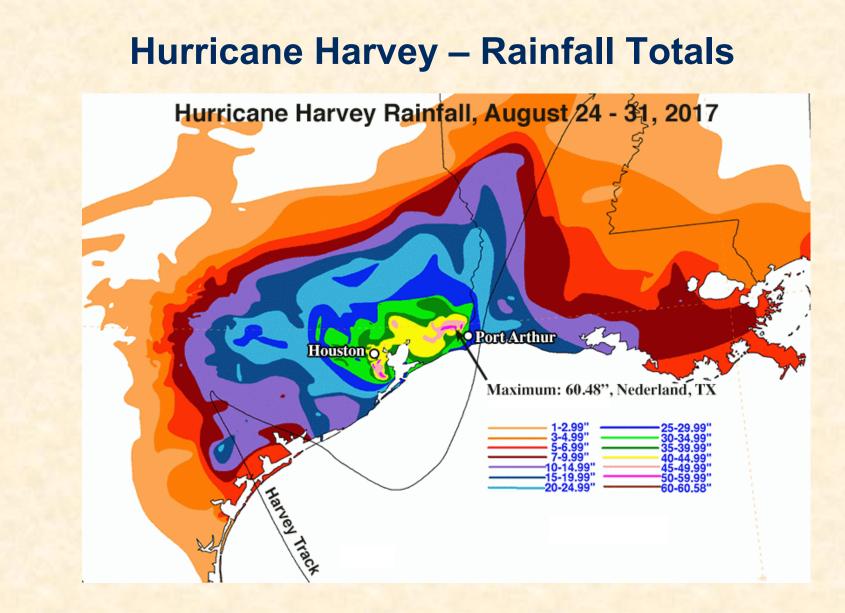


Image Credit: NOAA / Weather Underground

#### **Hurricane Florence Rainfall Totals**

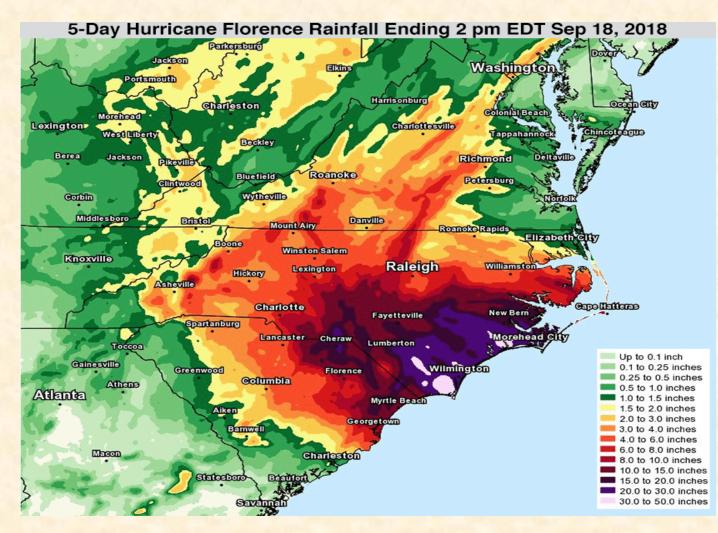


Image Credit: National Weather Service / Weather Underground

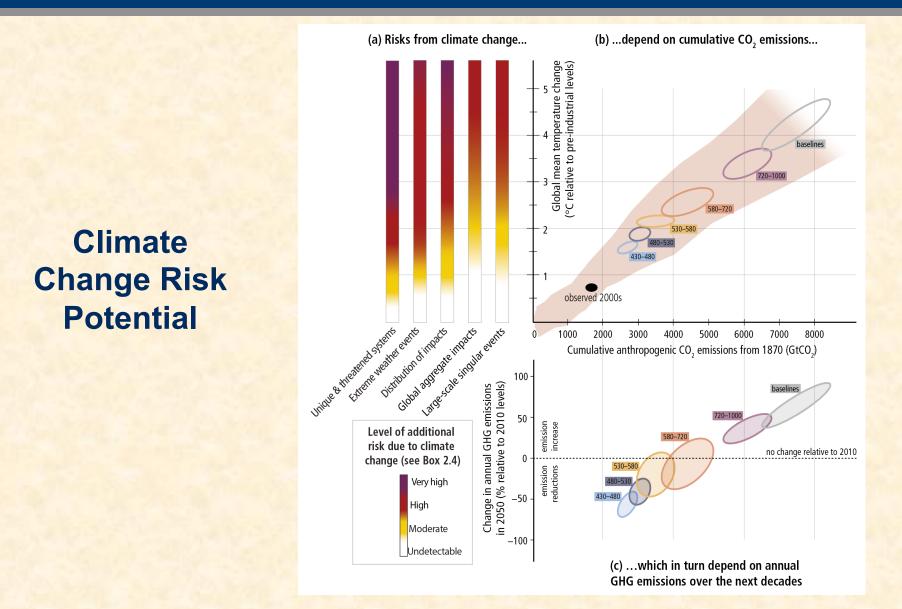
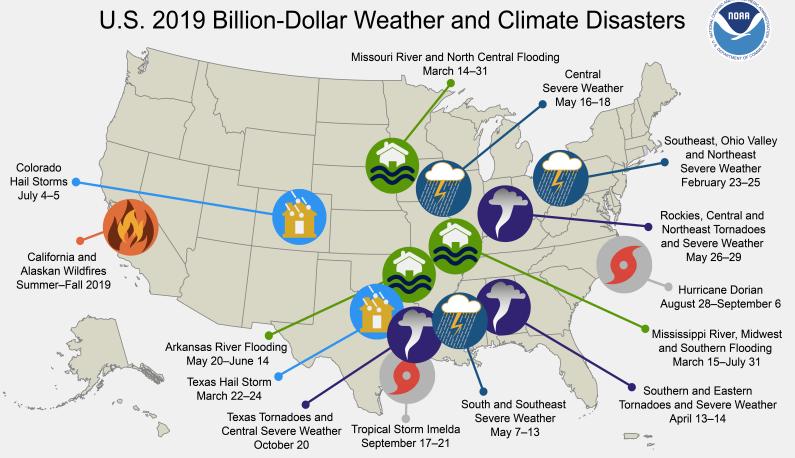


Fig. 3.1 – Ch. 3 – Observed Changes and Their Causes: *Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [*Core Writing Team, R.K. Pachauri and L.A. Meyer (eds.)]IPCC, Geneva, Switzerland,

# **Some Considerations**

- What is a "100-year Event"?
- How do you Calculate the Loss for an Event?

#### **US Billion-Dollar Weather/Climate Disasters - 2019**



This map denotes the approximate location for each of the 14 separate billion-dollar weather and climate disasters that impacted the United States during 2019.

NOAA National Centers for Environmental Information (NCEI) U.S. Billion –Dollar Weather and Climate Disasters (2020). <u>https://ncdc.noaa.gov/billions/</u>

## US Billion-Dollar Events – 1980-2019

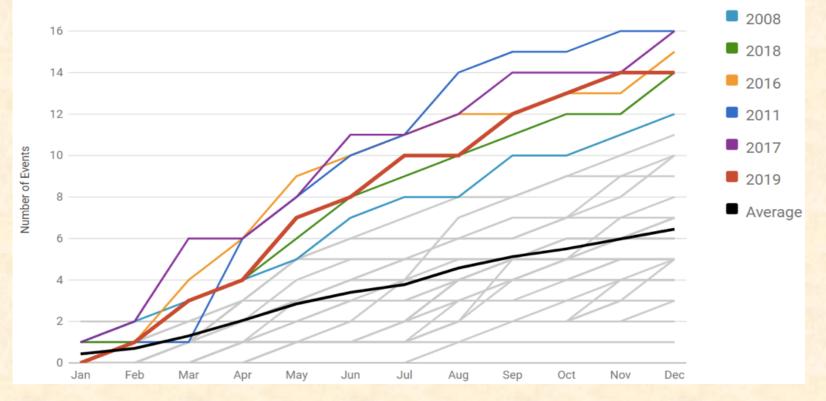
DISASTER TYPE	NUMBER OF EVENTS	CPI-ADJUSTED LOSSES (BILLIONS OF DOLLARS)	AVERAGE EVENT COST (BILLIONS OF DOLLARS)
TROPICAL CYCLONE	44	\$945.9	\$21.5
DROUGHT	26	\$249.7	\$9.6
SEVERE STORMS	113	\$247.8	\$2.2
FLOODING	32	\$146.5	\$4.6
WILDFIRES	17	\$84.9	\$5.0
WINTER STORMS	17	\$49.3	\$2.9
FREEZES	9	\$30.5	\$3.4
ALL DISASTERS	258	\$1,754.6	\$6.8

NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2020). <u>https://www.ncdc.noaa.gov/billions/</u>

#### **US Billion Dollar Weather Disasters – 1980-2019**

#### Are They Becoming More Frequent?

**1980-2019 Year-to-Date United States Billion-Dollar Disaster Event Frequency (CPI-Adjusted)** Event statistics are added according to the date on which they ended.



NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2020). <u>https://www.ncdc.noaa.gov/billions/</u>

# Climate Change Litigation

# Climate Change Litigation: Two Types of U.S. Suits

Government Suits Against Energy Producers

- First and Second Generation Suits
- More relevant for Insurance Industry

Suits by Young People Against the Government

- Juliana et al., v. The United States of America, et al., 6:15-cv-01517 (Dist. OR. 2015)
- Dismissed January 2020.

## **Climate Change Litigation – Snapshot\***

- Climate Change Lawsuits filed in at least 28 Countries;
- At least 1328 Suits Filed as of 2019; 1023 filed in US;
- Purpose to Change Corporate Behavior, Seek Compensation; Influence Government Policy.
- Suits Brought by Citizens, Government Entities, Corporations, and NGOs

\* Setzer J. and Byrnes R. (2019) Global Trends in Climate Change Litigation: 2019,

# **Direct Climate Change Litigation**

First generation suits:

Am. Elec. Power Co., Inc. v. Connecticut, 564 U.S. 410 (2011); ("AEP")

and

Native Village of Kivalina v. ExxonMobile Corp., 696 F.3d 849 (9th Cir. 2012) ("Kivalina")

## Kivalina and Am. Elec. Power

- Remedy sought against multiple energy companies for public nuisance based on defendants' CO<sub>2</sub> <u>emissions;</u>
- The defendants successfully moved to dismiss the lawsuit on two separate grounds;
  - 1.Standing Lack of ability to demonstrate "substantial likelihood" that Defendants' conduct caused injury.
  - 2.Lack of Subject Matter Jurisdiction Non-Justiciable Political Question – required input from legislature.
- Preemption was the Key: Courts held that Clean Air Act preempted federal common law in regards to CO<sub>2</sub> emissions (AEP) and damages caused by global warming (Kivalina)

#### "Second Generation" Climate Change Litigation -Government Suits

#### 16 and Counting

California - Cities of San Francisco, Oakland, Richmond, Imperial Beach, and Santa Cruz, and the counties of San Francisco, San Mateo, Marin, and Santa Cruz;

#### New York City;

- Colorado Boulder, Boulder County, and San Miguel County;
- Washington State King County (Seattle);
- Rhode Island and City of Baltimore latest filings.

### "Second Generation" Climate Change Litigation -Government Suits

- Filed in State Courts generally based on State Law claims rather than on Federal claims;
- Allegations based on Defendants' <u>knowledge</u>;
- Alleging <u>Public and Private Nuisance</u>, <u>Trespass</u>, and some <u>Products-Liability claims – Failure to Warn</u>;
- Based on Defendants' <u>Production</u>, not <u>Emissions</u>;
- Sought Reimbursement for Costs Expended to Respond to Climate Change Damages.

#### "Second Generation" Climate Change Litigation -Government Suits

How did Defendant's Respond?

Brushed aside attempt to reframe debate as one of <u>Production</u> rather than <u>Emissions</u>; Same thing.

Argued:

- Congress has displaced common law claims;
- Combustion, not extraction = emissions;
- (Key Science Point) Impossible to link releases to injury;
- (Key Legal Point) Claims violate Separation of Powers Court would invade legislative and executive (foreign affairs) spheres of influence

### **Government Suits - Where Are We Now?**

- Oakland and San Francisco suits, removed to federal court; motion to remand denied; dismissed on June 25, 2018; (preemption, extraterritoriality);
- New York suit dismissed on July 19, 2018;
- Other California suits remanded to state court after removal; actions stayed pending appeals to 9<sup>th</sup> Circuit;
- Colorado and King County suits still alive; motions to dismiss filed by Defendants based on Kivalina and AEP reasoning;
- Baltimore and Rhode Island suits remanded to state court, both still active.

## **Attribution Science – How Do We Know?**

Extreme Event Attribution ("EEA")

### Generally:

- Would a Specific Event have Occurred in the Absence of Anthropogenic Climate Change?
  Specifically in Legal/Insurance Context:
- For Example, How do you prove that an Energy Company's Actions in Location A Caused the Claimed Injury in Location B, in the Context of Anthropogenic Climate Change.

# Is There A Duty To Defend Climate Change Suits??

## **Potential Defenses??**

- Known Loss?
- Pollution Exclusions Greenhouse Gasses as Pollutants?
- Expected or Intended Injury?
- Accident? Occurrence?
- Products-Completed Operations Hazard Exclusion?

## **Duty to Defend – What Happened??**

 AES Corp. v. Steadfast Insurance Co. – First and ONLY(!) Duty to Defend Climate Change Suit



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# **Questions?**



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