Where Do We Go From Here?

Mark Osler

Senior Advisor for Coastal Inundation and Resilience

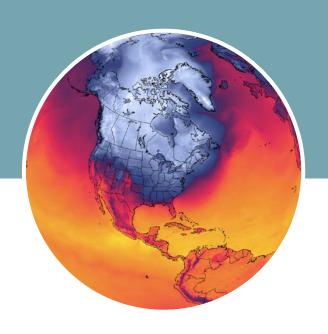
National Oceanic and Atmospheric Administration U.S. Department of Commerce

Association of State Floodplain Managers Annual National Conference Building Resilience May 21, 2019





NOAA's Mission







Science.

To understand and predict changes in climate, weather, oceans, and coasts.

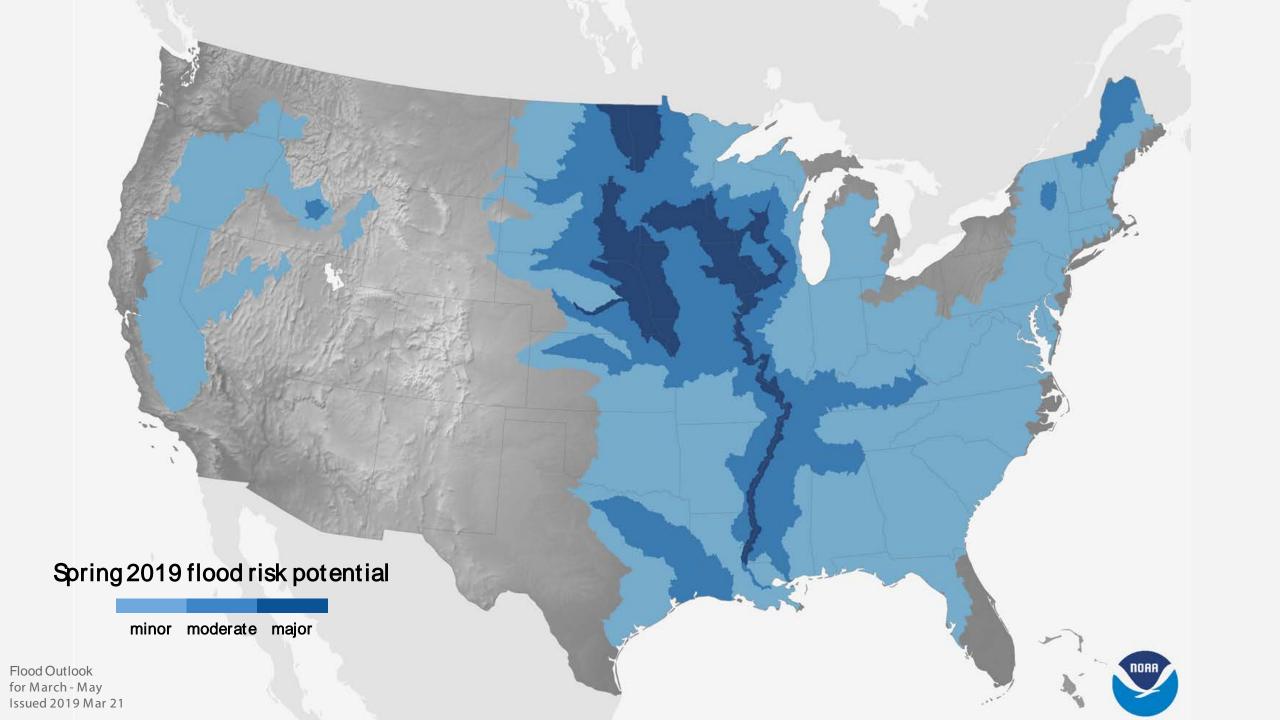
Service.

To share that knowledge and information with others.

Stewardship.

To conserve and manage coastal and marine ecosystems and resources.





Top 5 Riverine Flood Events From 2009 (CPI adjusted)

Date	Location	Deaths	Costs
August 2016	Louisiana Flooding	13	\$10.7 billion
April - May 2011	Mississippi River Flooding	7	\$3.4 billion
April 2016	Houston Flooding	8	\$2.9 billion
May 2015	Texas and Oklahoma Flooding and Severe Weather	31	\$2.7 billion
April 2010	East/ South Flooding and Severe Weather	32	\$2.7 billion

Top 5 Hurricane Events From 2009 (CPI adjusted)

Date	Location	Deaths	Costs
August 2017	Hurricane Harvey	89	\$128.8 billion
September 2017	Hurricane Maria	2,981	\$92.7 billion
October 2012	Sandy	159	\$72.8 billion
September 2017	Hurricane Irma	97	\$51.5 billion
October 2017	Hurricane Michael	49	\$25.2 billion

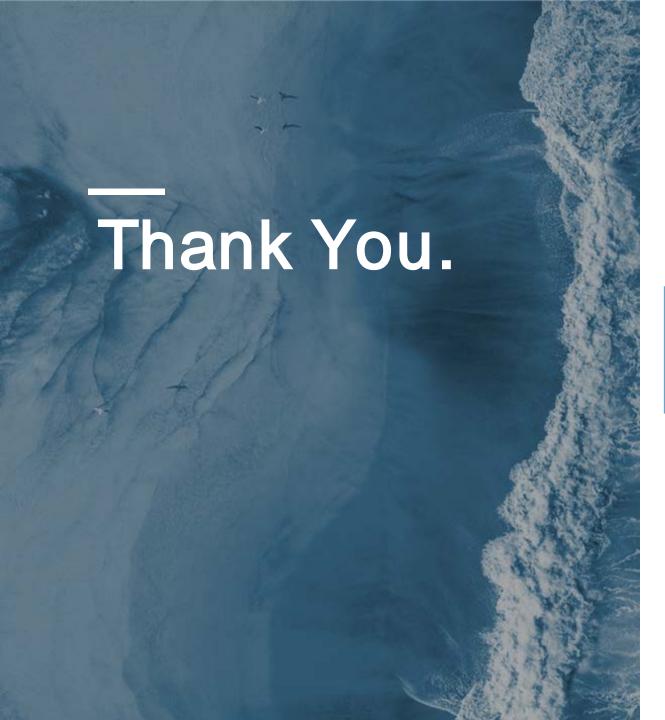
Top 5 Hurricane Events From 2006 - 2016 (CPI adjusted)

Date	Location	Deaths	Costs
October 2012	Sandy	159	\$72.8 billion
September 2008	Hurricane Ike	112	\$36 billion
August 2011	Hurricane Irene	45	\$15.5 billion
October 2016	Hurricane Matthew	49	\$10.7 billion
September 2008	Hurricane Gustav	53	\$7.2 billion









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