

## About the Flood Hub

Flooding affects all of Florida, from coastal to inland communities – and the risk of flooding is increasing. Estimating the future risk of flooding is the role of the Florida Flood Hub for Applied Research and Innovation. The Florida Flood Hub informs investments in resilience to flooding by assembling and analyzing the best available and most up-to-date data on rising sea levels, increasingly extreme rainfall, and stronger storms.

## How the Flood Hub serves Florida

The Flood Hub supports all local, regional, and statewide stakeholders as they:

- **Safeguard lives and property.** The Flood Hub's up-to-date estimates of future risk of flooding help decision makers identify and protect people and their assets.
- **Invest wisely.** The Flood Hub's state-of-the-art assessments of increasing risk inform cost-effective investment of resources.
- **Prepare for the future.** The Flood Hub's statewide view of risk supports all communities as they plan for enhanced resilience.

## Florida's changing flood risk

To paint an accurate picture of risk, the Flood Hub looks at:



### Sea level rise & tides

Higher sea levels will increase high tide flooding, also known as king tide or sunny-day flooding.



### Rainfall

Heavier rainstorms can overwhelm stormwater systems and flood adjacent areas, especially if combined with higher sea levels or storm surge that reduce outflows.



### Storm surge

More intense hurricanes and tropical storms can push life-threatening amounts of water into coastal areas, with higher sea levels amplifying the danger.



### Rivers

More severe rainfall can accumulate and overflow the banks of rivers, especially when higher sea levels or storm surge diminish discharges.



### Groundwater

Heavier rain or higher sea levels can cause underground water to breach the surface and create a flood.

Rising sea levels, increasingly extreme rainfall, and stronger storms cause more frequent flooding that threatens the integrity of our infrastructure and the safety of our communities. The Flood Hub leads pivotal research that helps protect the lives, livelihoods, and property of Floridians.

For more information, please contact [floodhub@usf.edu](mailto:floodhub@usf.edu).