



Florida's Trifecta & The Path to Adaptation

How 2024 proved the climate has changed

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The Climate Adaptation Center (CAC)

- One-of-a-kind 501(c)(3) focused on climate adaptation
- Our first of 6 regional centers is in Sarasota serving Florida and then the SE US

Who am I?

Scientist, educator,
entrepreneur

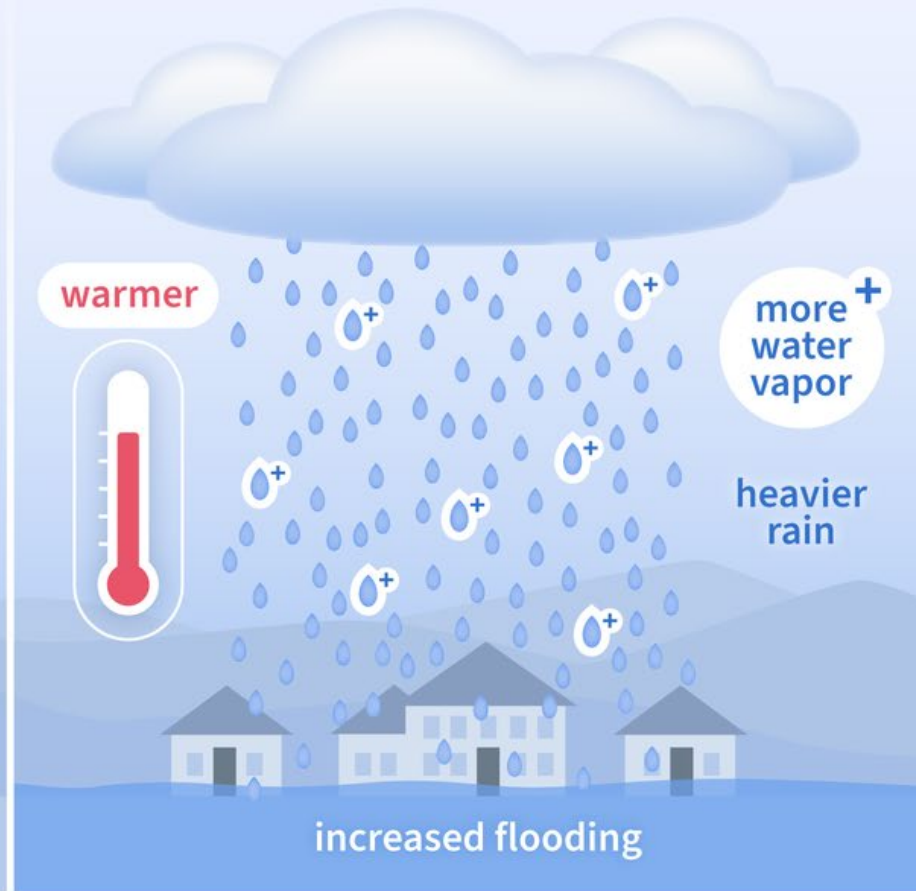
Solving climate risk needs
broad, interdisciplinary
thinking.



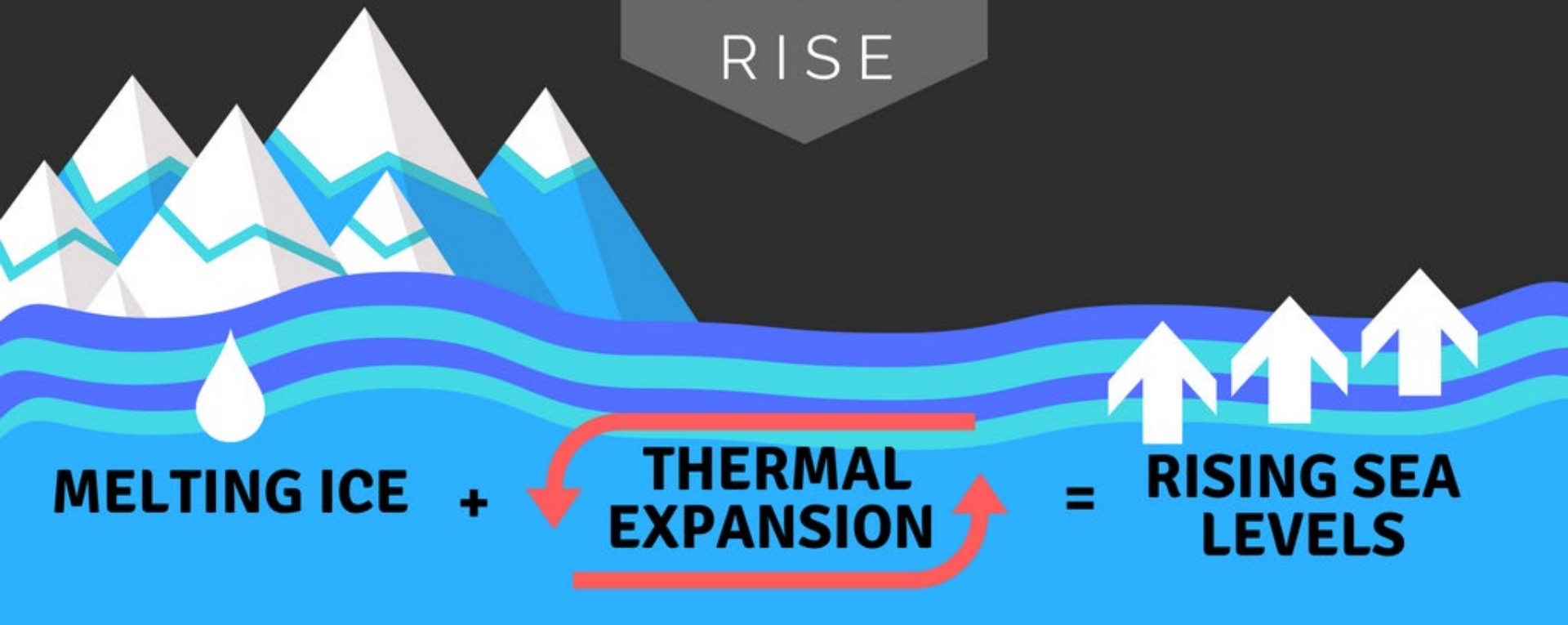
**Lowering climate risks
requires multifaceted scientists
...not just silo thinkers**

Why? Because Climate Risk Is Rising

For every **1°C/1.8°F** of warming, water vapor can increase by **7%**.



SEA LEVEL RISE



Combo creates escalating
and more damaging flood
events



Two Flood Types

Freshwater & Saltwater

Freshwater Flooding

- Heavier rainfall: 2× more common
- Flash floods (Texas, **Spain**, etc., etc.)
- Thunderstorms
- Inland tropical storm events
- Prolonged inland flooding



Saltwater Flooding

- Sea-level rise: 8–12” already, +1 ft by 2050
- Sunny-day flooding (Annapolis)
- Hurricane storm surges on top of higher seas (Florida)

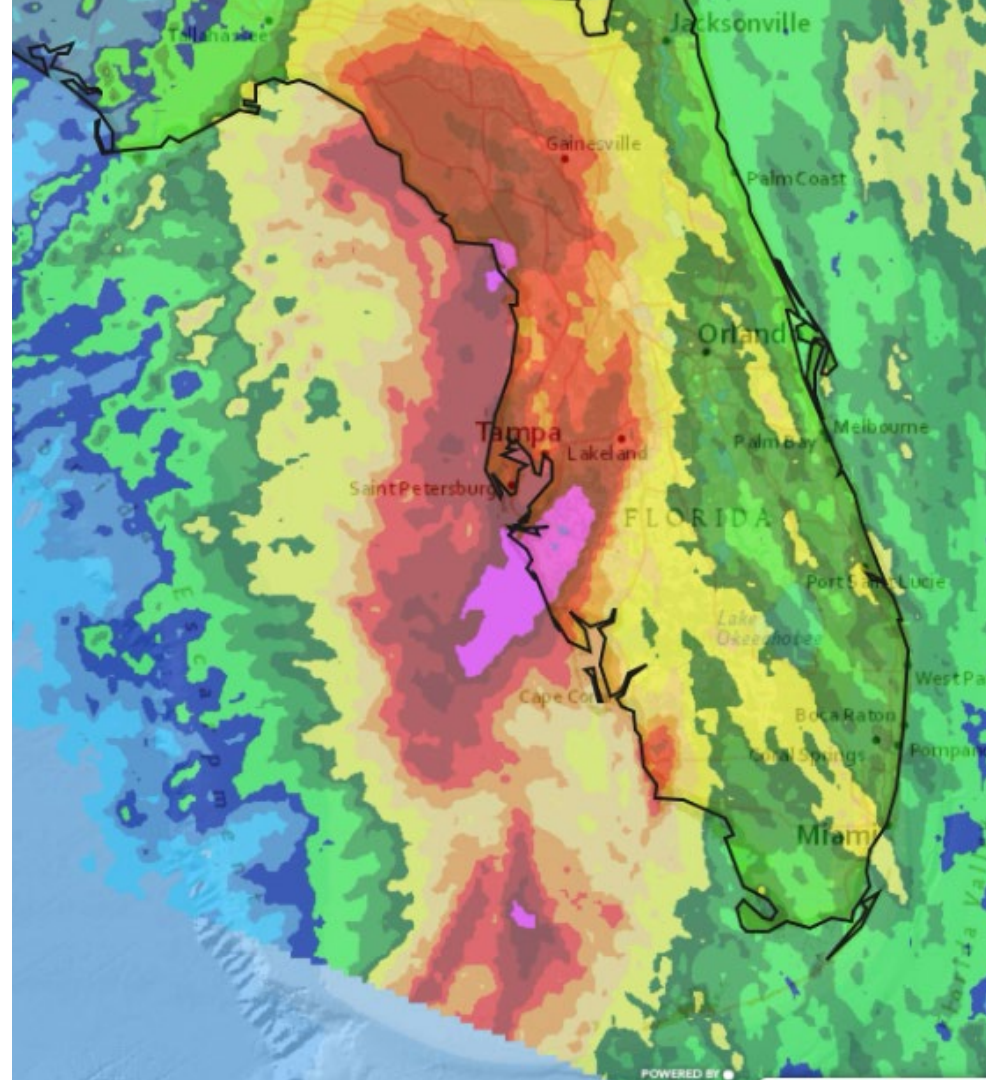


Trifecta of Hurricanes in Sarasota 2024!

Debby, Helene, Milton —all show the impacts of a warmer
climate

Debby

- Rainfall double that of same storm in 1980
- Inland flooding worsened by dam release
- \$12-\$28B in damages

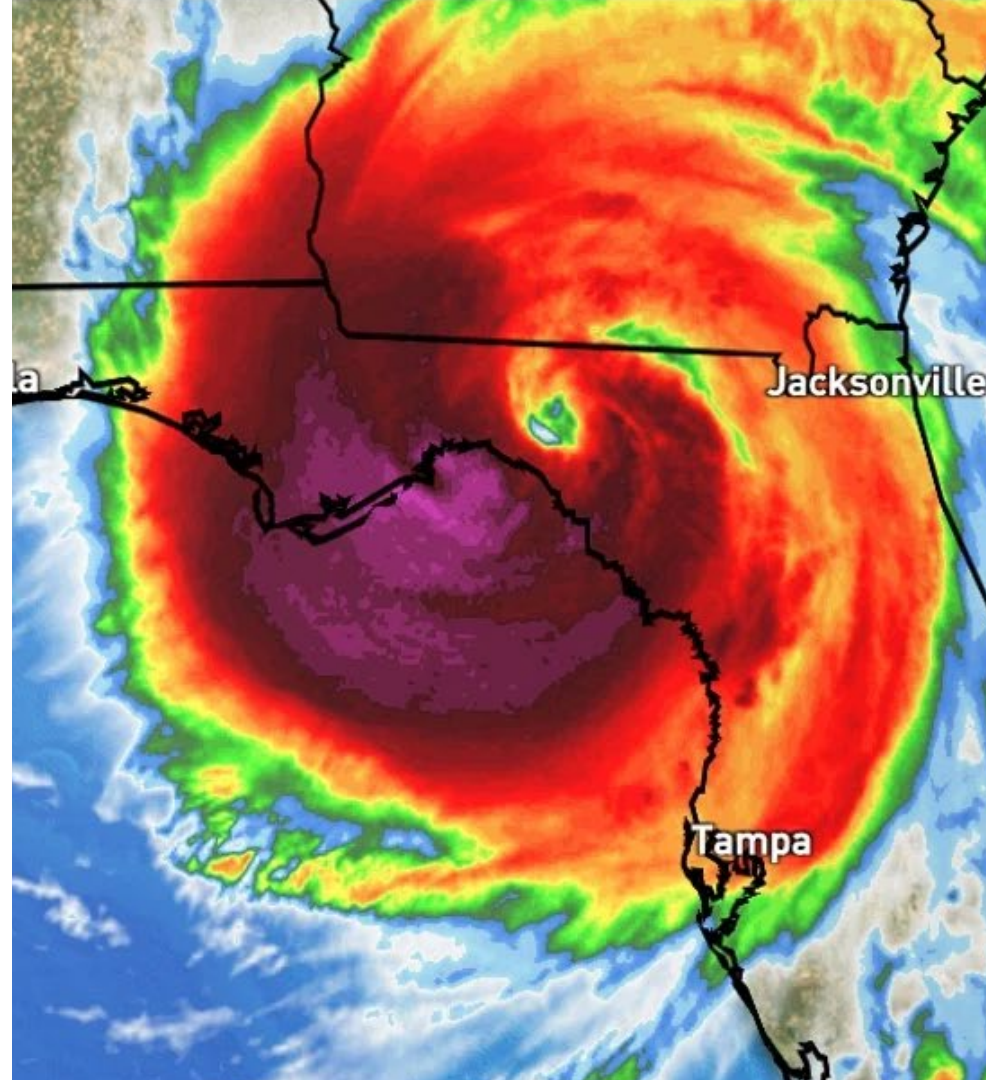






Helene

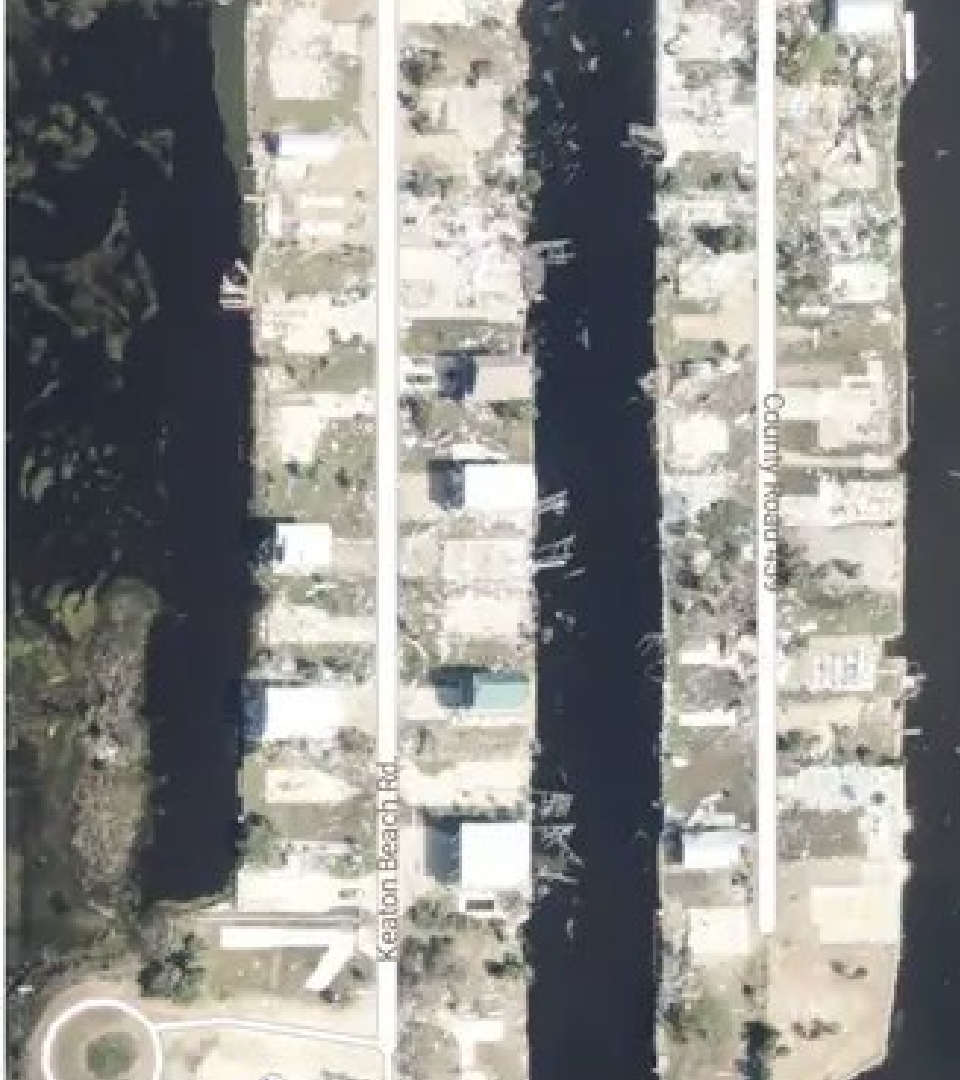
- 6.7-foot storm surge
- Barrier island & bay destruction
- \$59-\$79B+ in damages





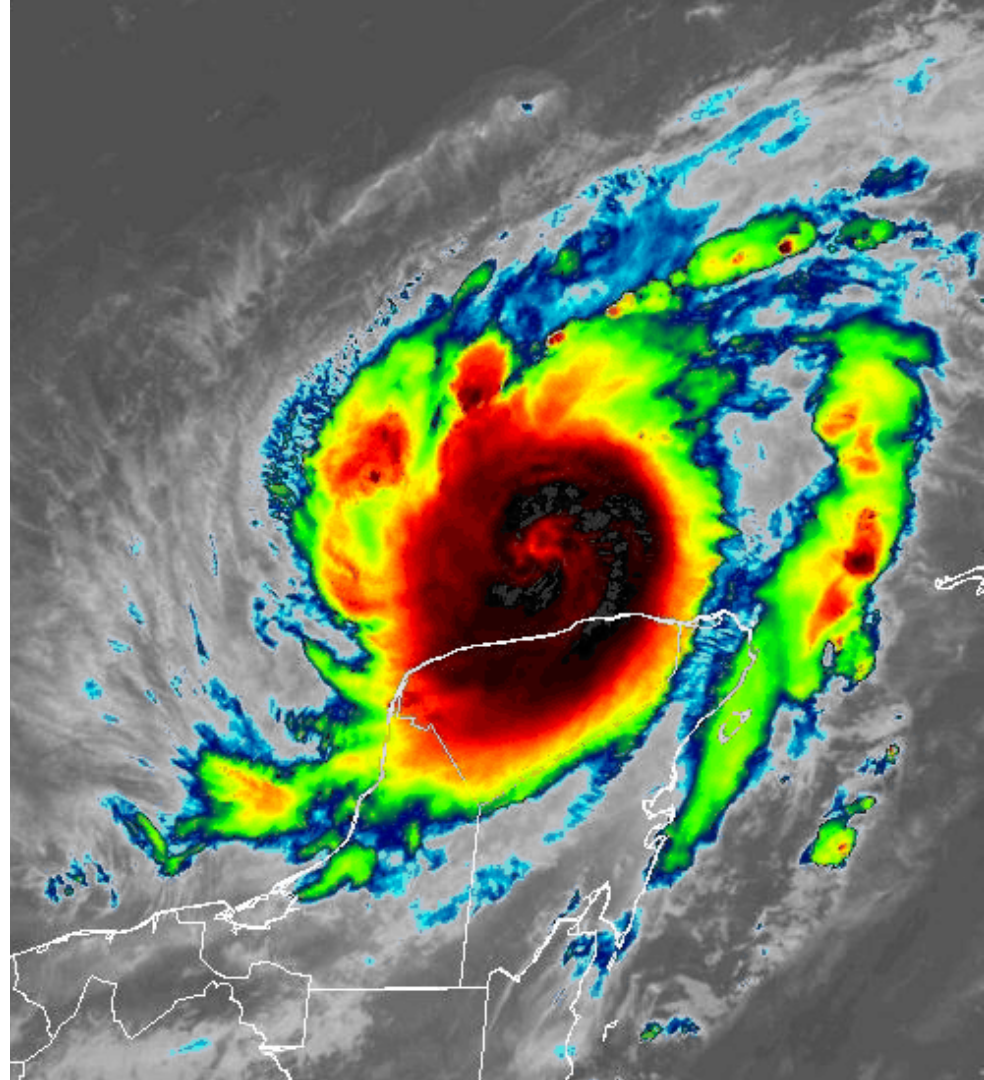


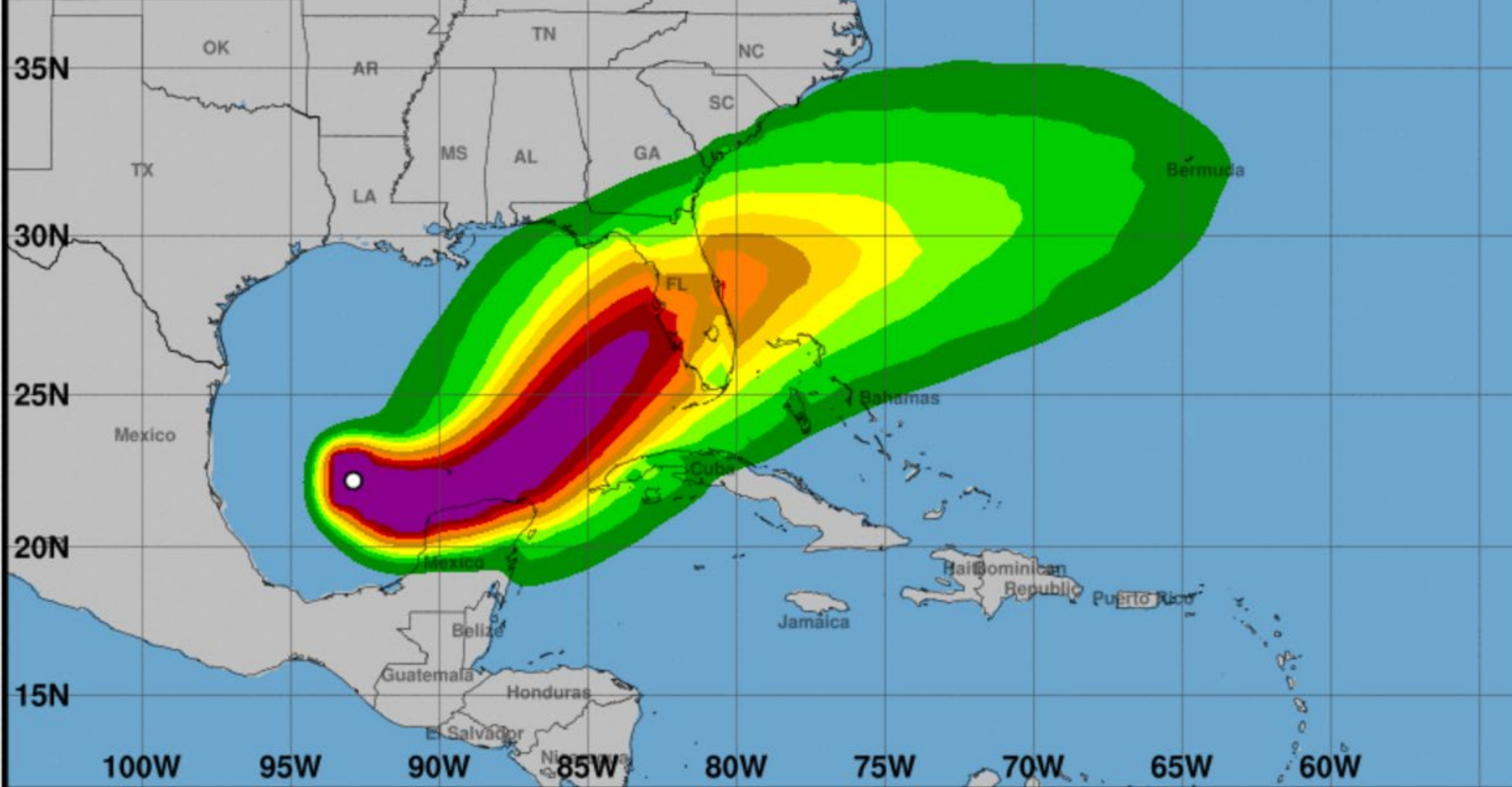
Business Insider



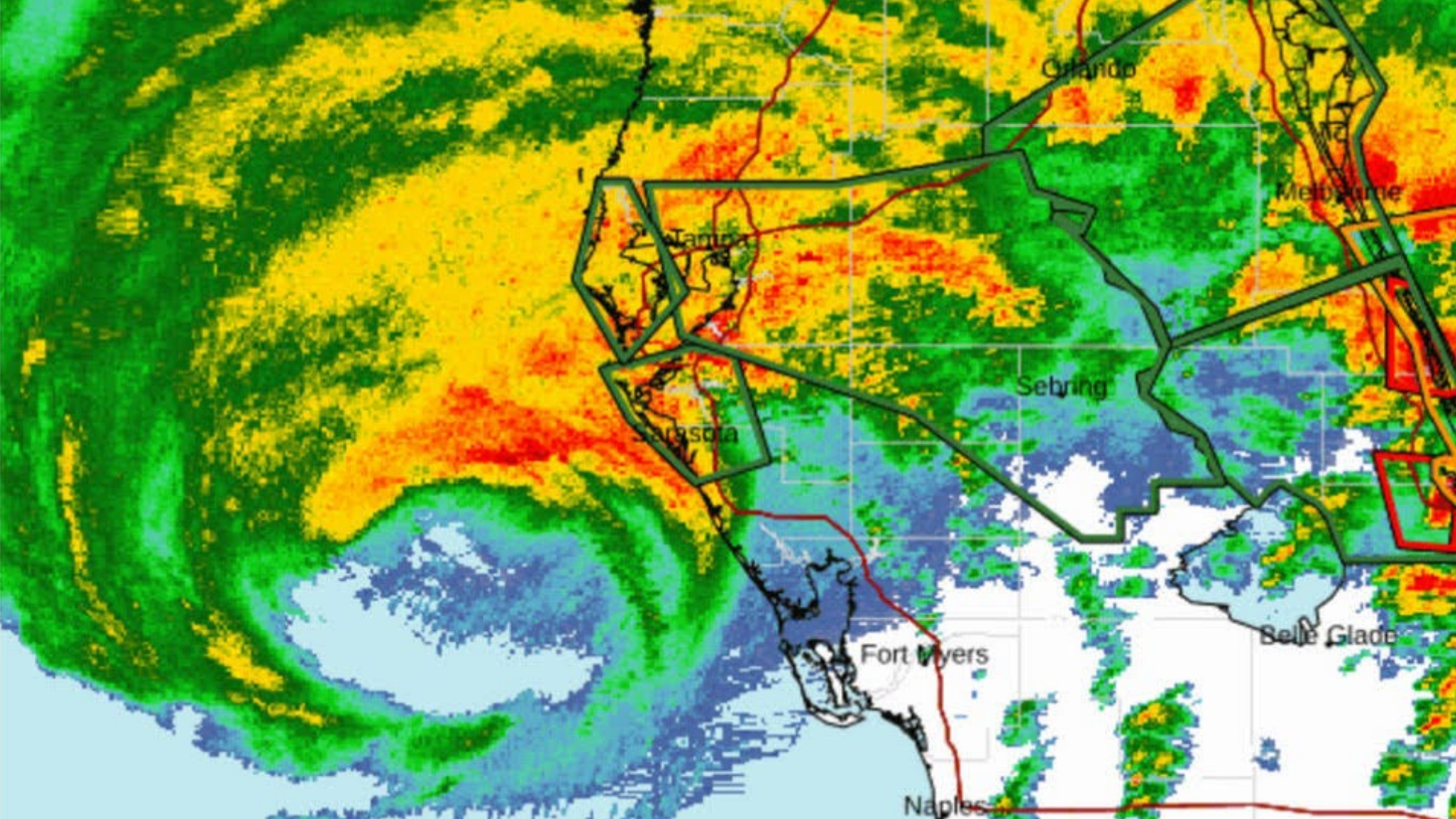
Milton

- Rapid intensifier, direct hit
- 6–10 ft surge, gusts to 129 mph
- \$34-\$60B in damages





Probability of tropical-storm-force winds (1-minute average ≥ 39 mph) from Hurricane Milton
○ indicates Hurricane Milton center location at 1 AM CDT MON OCT 07, 2024 (Forecast/Advisory #9)





Conclusion

- Climate impacts are accelerating.
- Adapt locally, from the ground up.
- Progress starts with education, action, and community.



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The CAC 5th Climate Conference: Climate & Biodiversity on November 13