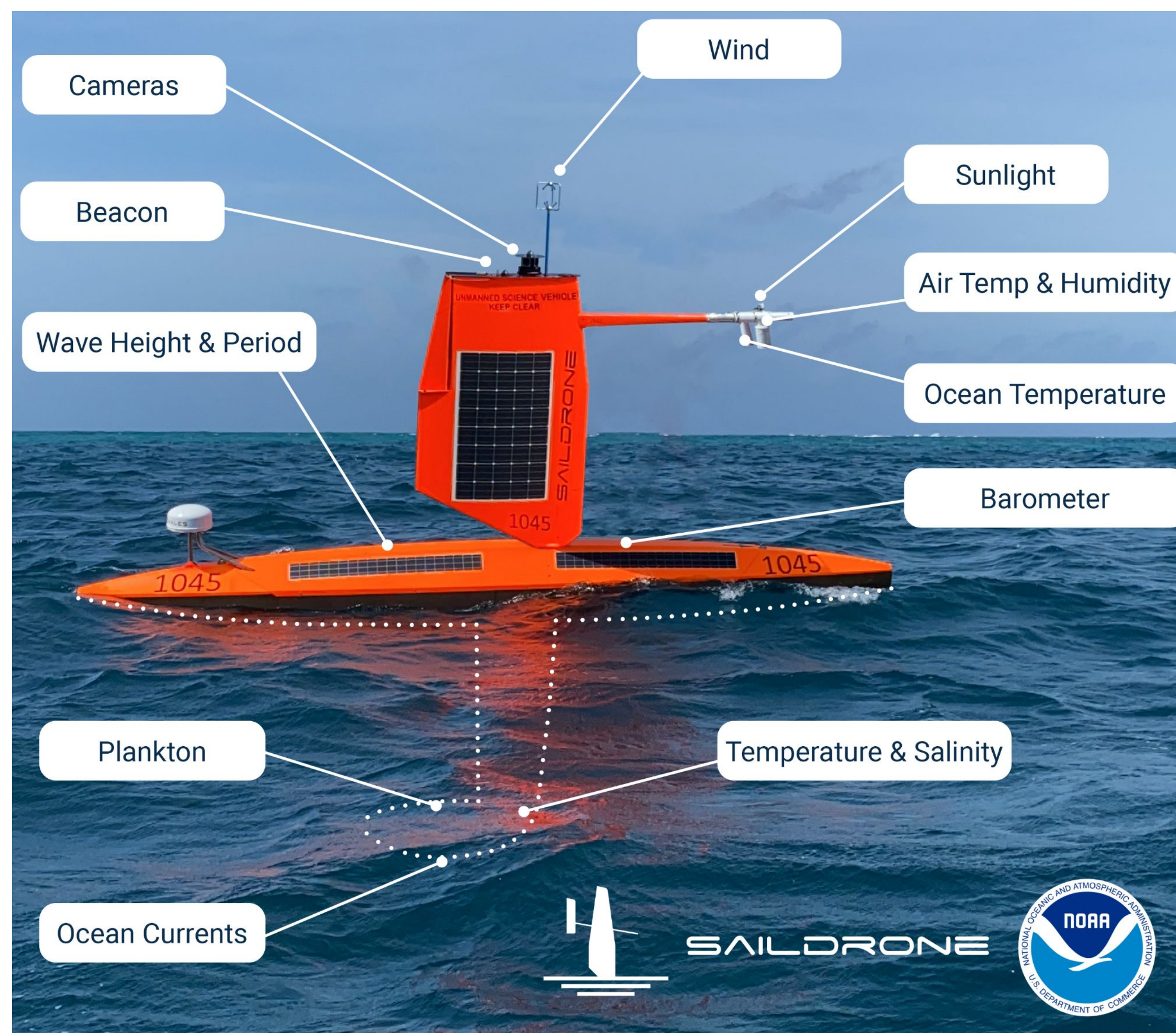


Coordinated Saildrone Observations in Hurricanes

Lev Looney (PhOD/CIMAS), Greg Foltz (PhOD), Hyun-Sook Kim (PhOD),
Jun Zhang (HRD/CIMAS), Francis Bringas (PhOD) and **Many Others**

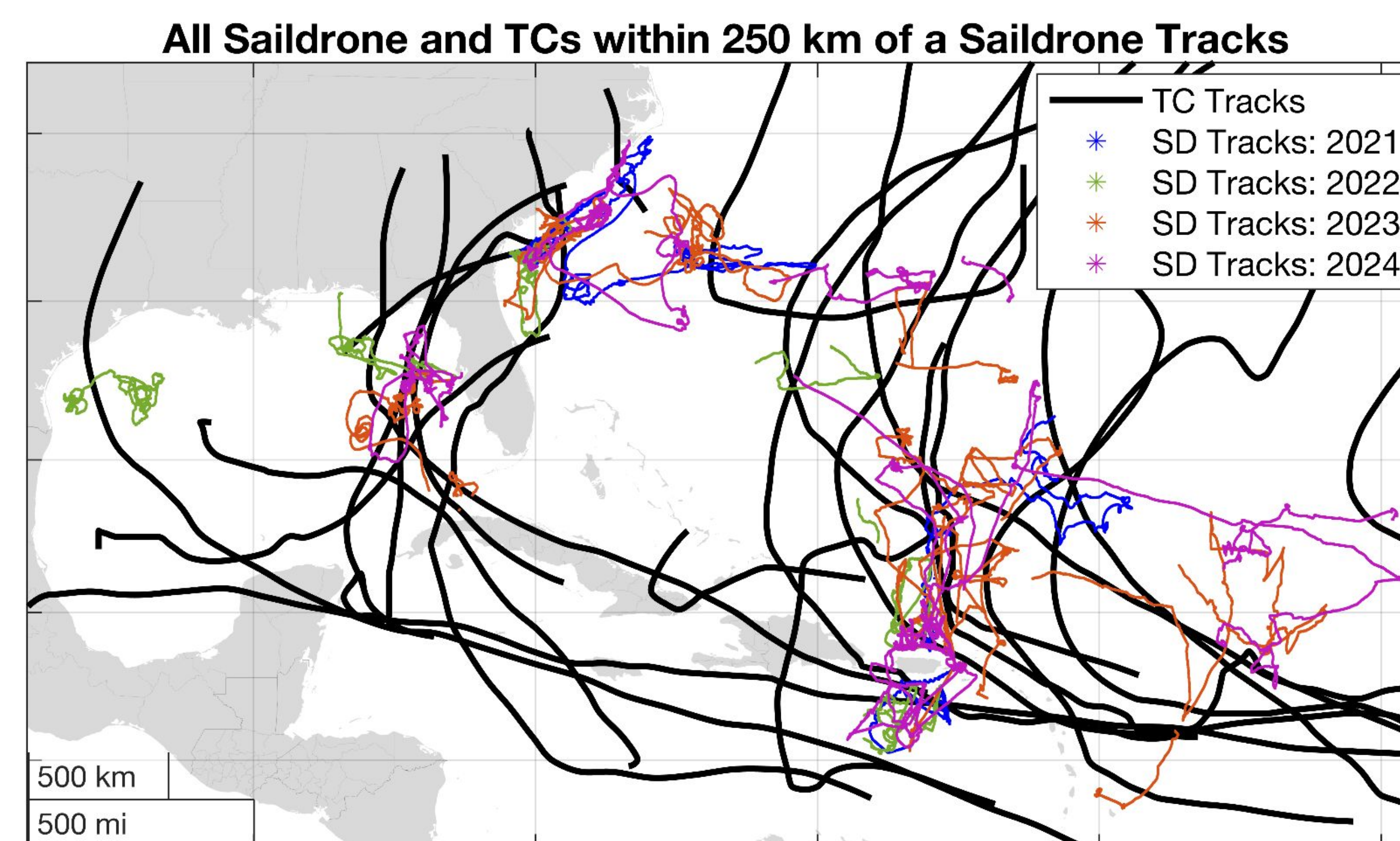
Saildrones

- **What:** Uncrewed Surface Vehicle modified for extremes
- **Goal:** Observe hurricanes to improve process understanding, models, and predictions



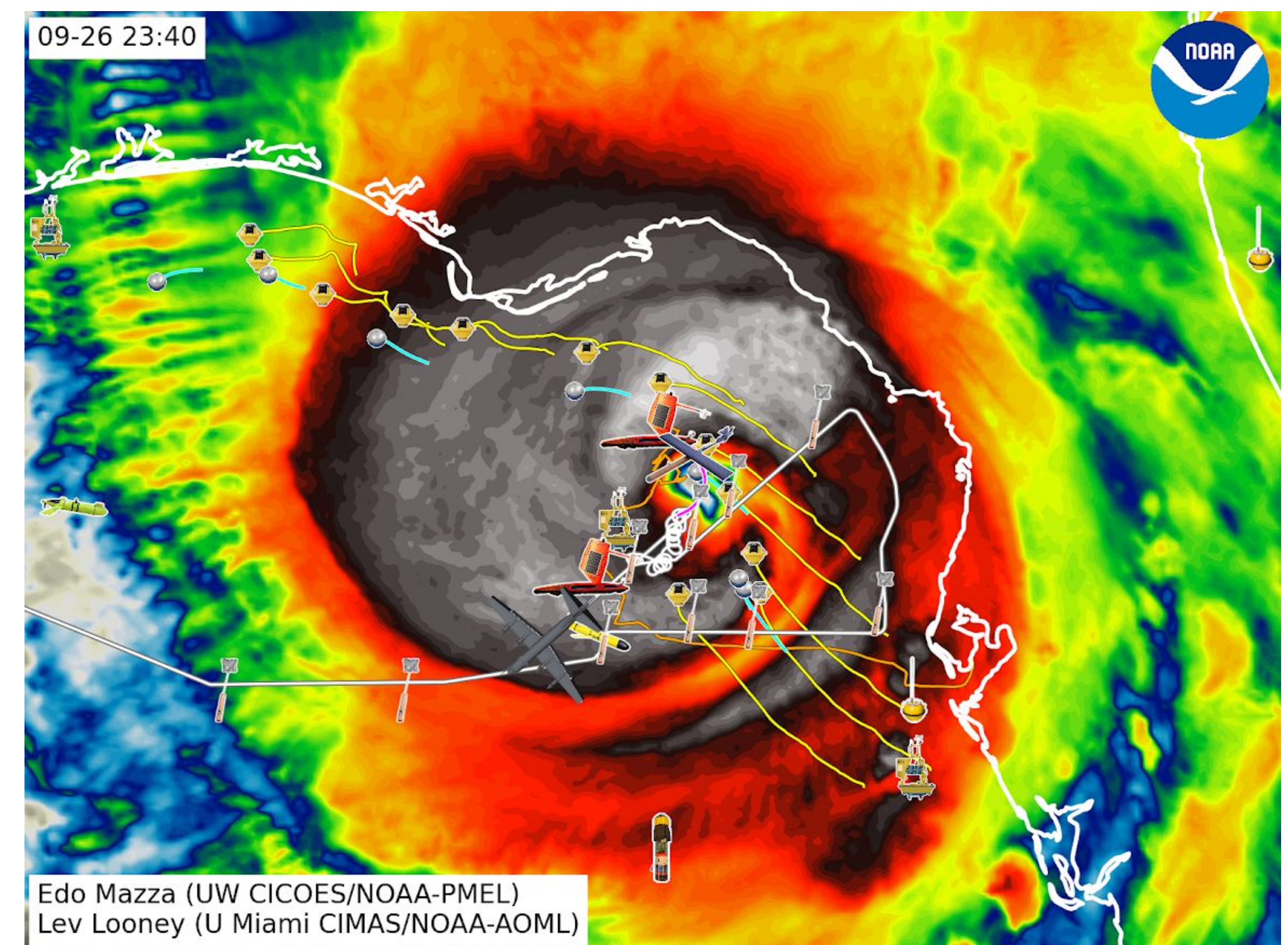
Successes

- **7 years** of 1-minute observations
- **12 Days** of sustained TS+ Winds
- **22 Days** of waves over 5 m



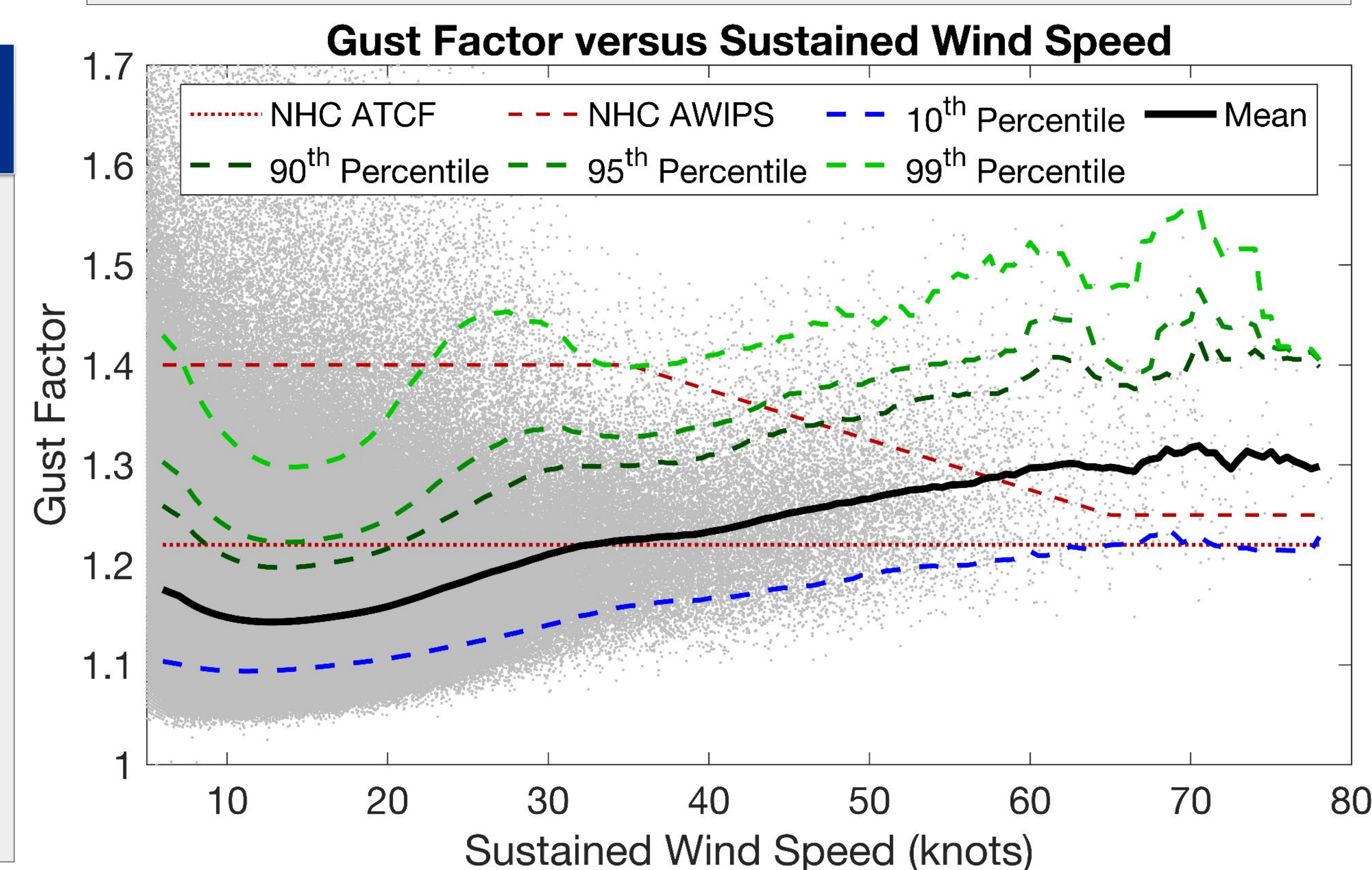
Coordination

- **Improves understanding** of coupled processes and aid coupled DA development
- **279 days** within 10 km of a mooring
- **64 times** in SAR TC Swath
- **100 dropsondes** splashed within 50 km



Research

Ongoing: co-validation of platforms & models, gust factor, drag coeff., ocean current response, and more



Partnerships

- **5 NOAA Line Offices** including a fully signed transition plan
- **20 Universities**
- **5 Private Companies**
- **Discussions in 5 Continents**

Want more info?

Hurricane Saildrone Missions



Watch the Animation:



Please Reach Out:
lev.looney@noaa.gov

