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Session 9a: Designing and delivering seamless services

Title: NOAA High Tide Flooding Products for the United States: Research to operations across climate time scales

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High tide flooding (HTF) is occurring more frequently every year as sea levels continue to rise, accelerating in many locations, across coastal regions of the United States. It is increasingly disrupting coastal community life, causing significant damage to private property, public infrastructure, and natural resources. The National Oceanic and Atmospheric Administration (NOAA) is responsible for monitoring water levels in the US and has invested in research to better understand observed trends and underlying tidal, weather, and climatic process that influence HTF frequency. This presentation will review a suite of NOAA HTF products based on recent research that span multiple climate time scales.