

Quantifying Bridge Risk Using NOAA's Rainfall Data

Damage from Remnants of Hurricane Ida, September 2021



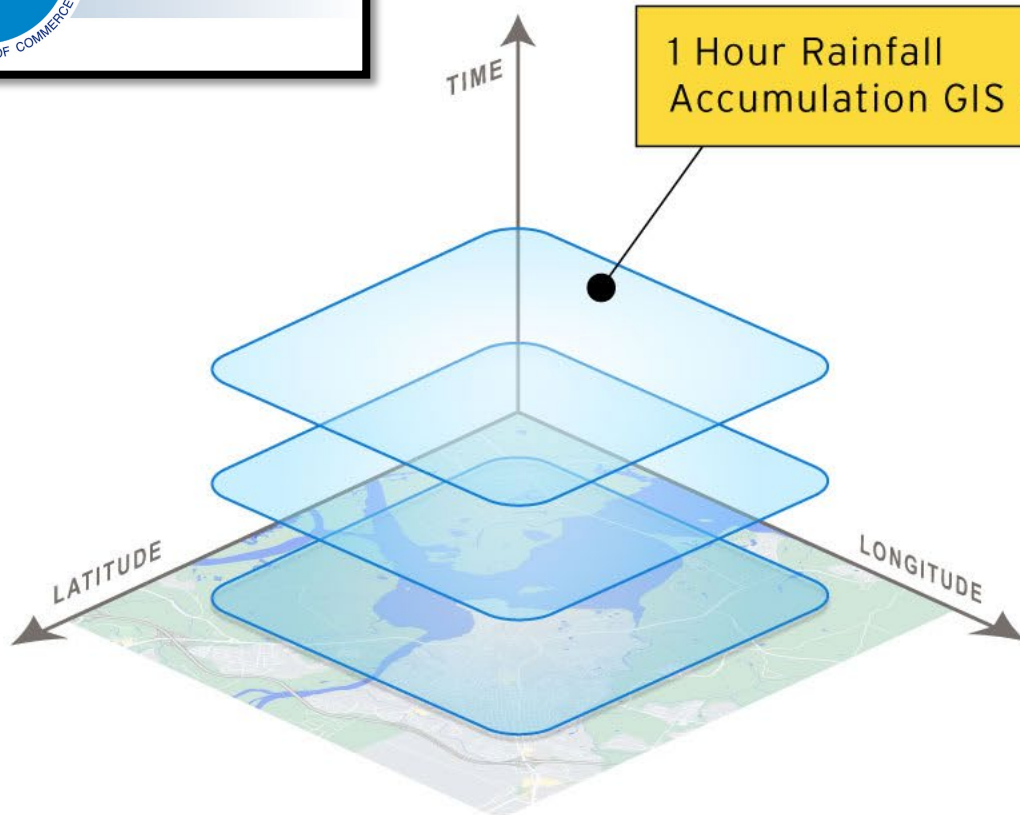
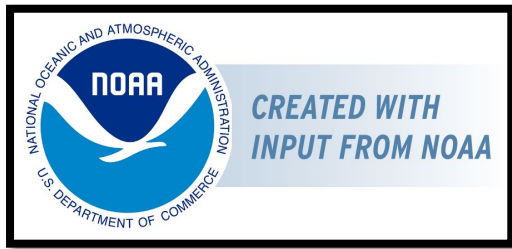
2024 VTrans Research
and Innovation
Symposium

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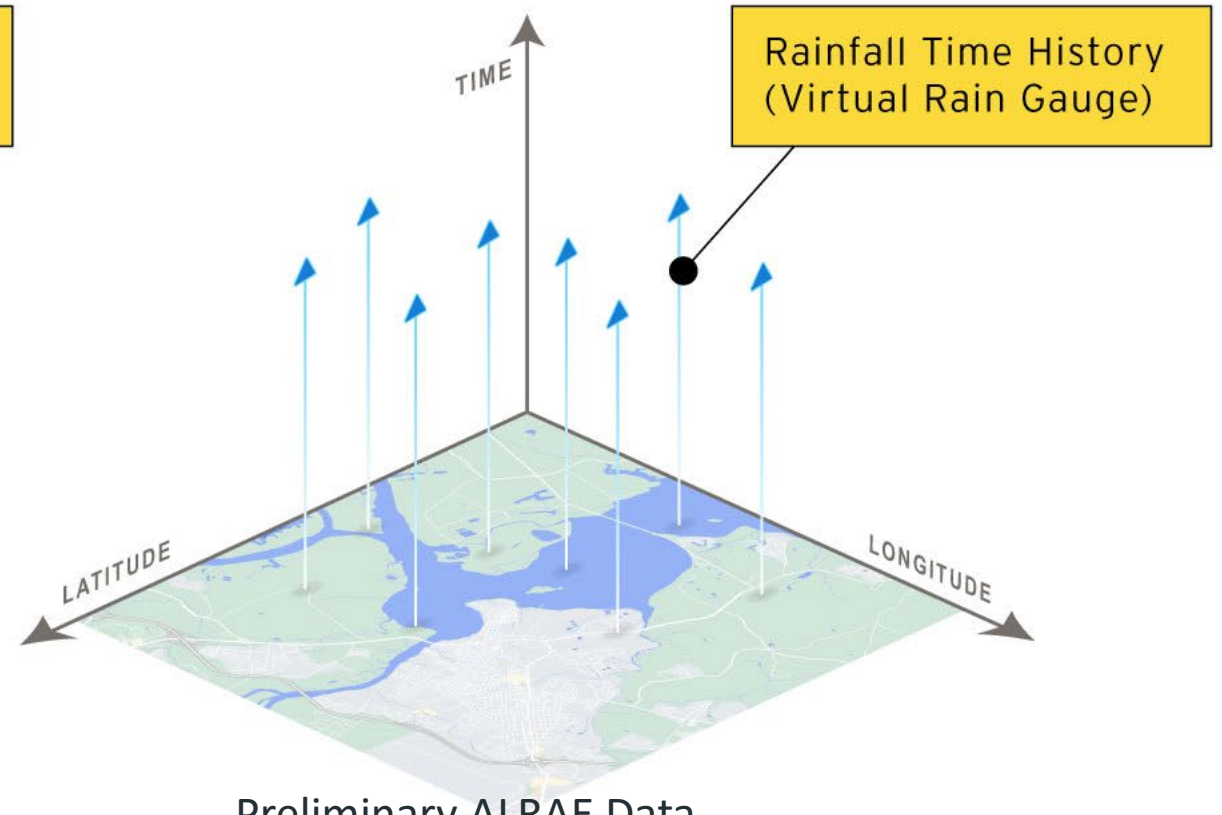
Photo credit: The Journal News

Transforming Rainfall Data to Understand Risk

Asset Level Rainfall Analytics Exercise (ALRAE)



NOAA Provided Data

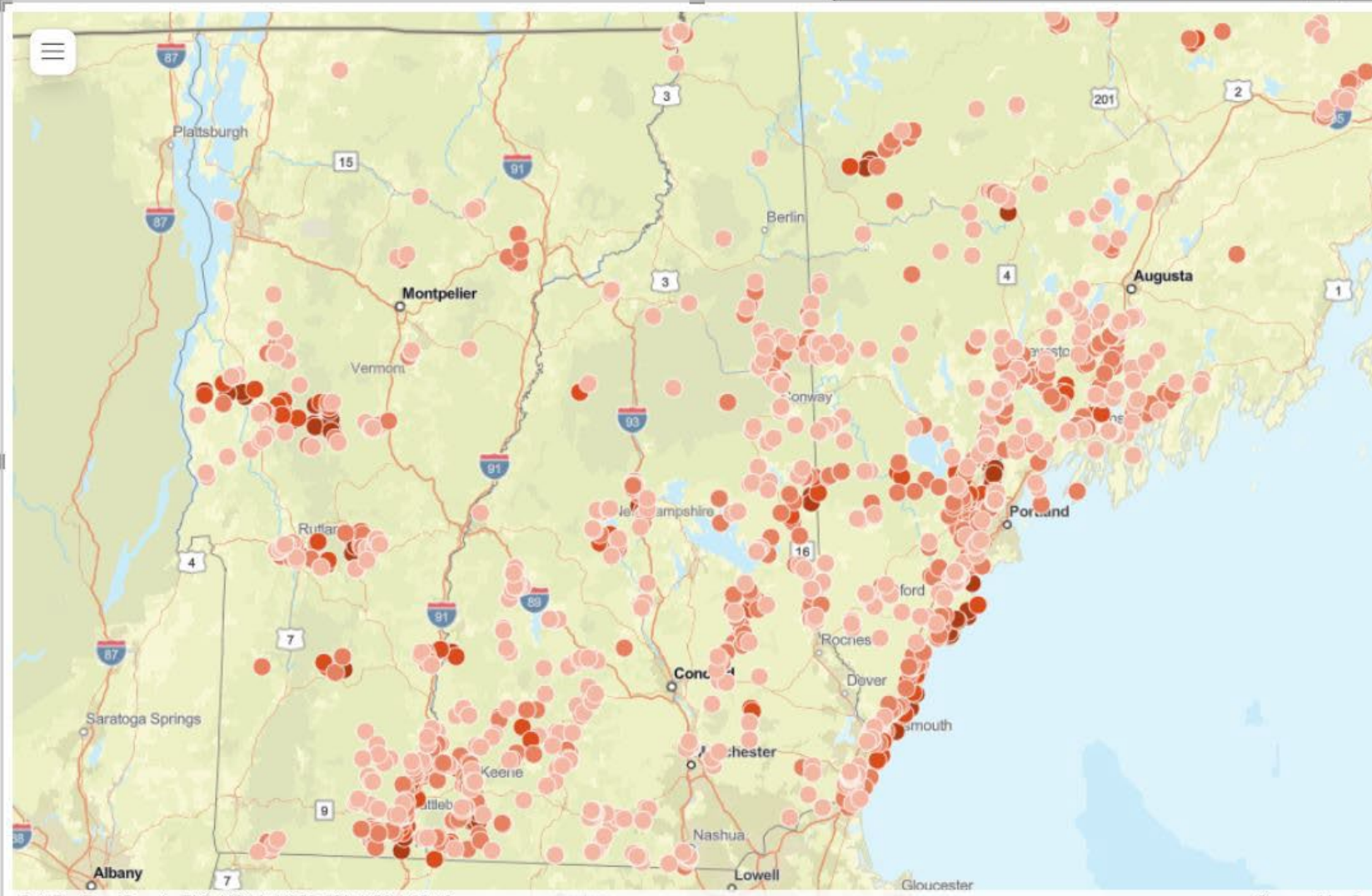


Preliminary ALRAE Data

Rainfall Records Dashboard

Peak 2023 Rainfall for 3 Hour Duration

Source: National Oceanic and Atmospheric Administration (NOAA) MRMS precipitation dataset. The information shown is part of a preliminary research effort and the data set utilized has not been evaluated for accuracy or completeness. HNTB provides this data "as-is" without warranty of any kind, either express or implied.



Filter By 2023 Max Rainfall (in)

1.96

5.93

Filter By 2023 Date

6/15/2023

9/9/2023

Scour Criticality

All

Number Of Bridges

1449