

USGS Real Time Data

TOTAL STATE OF THE PROPERTY O

511 Traffic Camera

Twitter

Twitter Streamer

Data Analytics

Flood Frequency Analysis

Field Data Collection

The Convergence of IoT, Machine Learning, and Big Data for Advancing Flood Analytics Knowledge

Vidya Samadi ¹, Ph.D. & Rakshit Pally ²

First Name First Name

Email ID Email Address

Latitude Latitude

Time Stamp --:--

Flood Depth (in ft) Flood Depti

Choose File No file chose

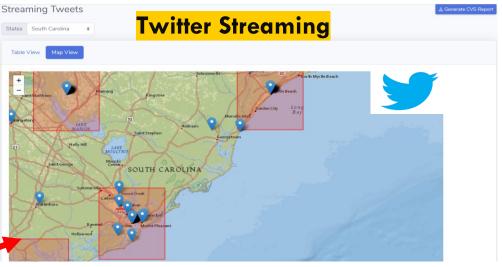
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EGU General 2021

Image Processing Upload Image Drop files here to upload

Last Name Last Name

Location Location

Date mm/dd/yyyy

Longitude Longitude

Water: 0.81 Residential area: 0.8 Suburb: 0.71

Label and Score Flood: 0.91

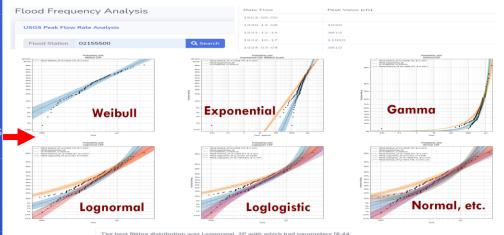
Floodplain: 0.68 Event: 0.63

Photography: 0.62

Road: 0.58 Thoroughfare: 0.58

Tsunami: 0.54

USGS 02155500 PACOLET RIVER NEAR FINGERVILLE, SC





Overall, we developed 12 python modules for the FIAS development.

