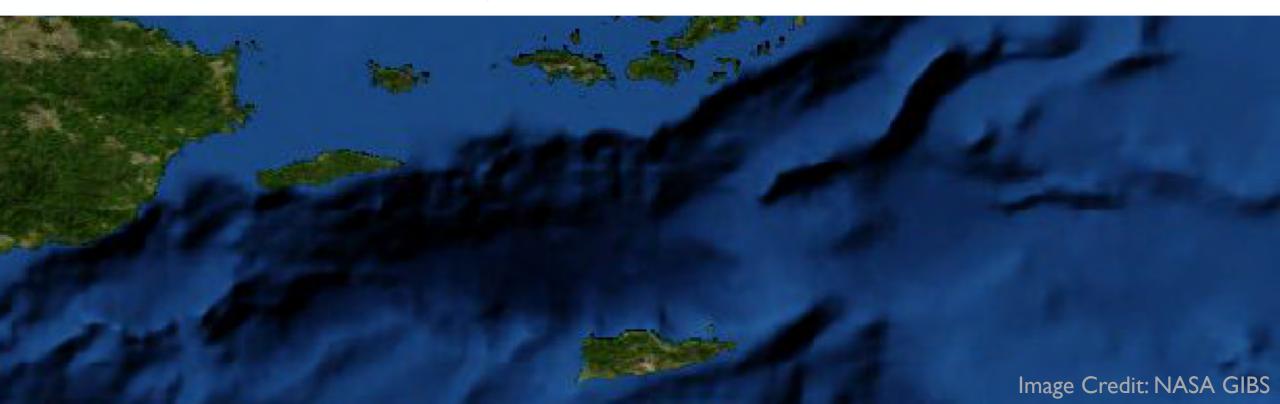# DATA MANAGEMENT NEEDS AND OPPORTUNITIES FOR HAZARD MITIGATION PLANS

KARL BENEDICT, PHD

DIRECTOR OF RESEARCH DATA SERVICES, UNIVERSITY LIBRARIES – UNIVERSITY OF NEW MEXICO

Image Credit: NASA GIBS

Needs

Preparation

Outcomes

NEEDS

- **Audiences**
  - **Decision Makers – Management of response and plan execution**
  - **Public – Supporting family, neighbors, friends in responding**
  - **Emergency Responders – Prioritizing response and effectively responding**
  - **Etc.**

NEEDS

- **Information**
  - **Emergency Response Requests**
  - **Guidance to Public**
  - **Status of Critical Infrastructure**
  - **Capacity of Support Facilities**
  - **Availability of Resources**
  - **Forecast and Current Conditions**

Image Credit: Reliefweb

NEEDS

- **Information Delivery Systems**
  - **Desktop computers**
    - **Applications (e.g. GIS, web applications, statistical models)**
  - **Mobile Devices (apps, web based, messages)**
  - **Large-scale Displays/Alerts**
  - **Printed Materials**

NEEDS

- **Data**
  - **Emergency Service Requests**
  - **Location and Severity of Infrastructure Damage**
  - **Areas at Risk for Further Impact**
  - **Locations and Types of Resources**
  - **Current and Forecast Conditions**

PREPARATION

Meet Needs
- Provide Appropriate Access
- Deliver to Diverse Platforms & Applications

Information/Access
- Standards-based - interoperable
- Robust Documentation

Data
- Workflows for maintaining current and new data
- Secure/scalable data storage

OUTCOMES

- **Data Based Planning & Response**

- **Rapid Access to Current and Forecast Information**

- **Reusable Information for Multiple Audiences & Purposes**

STRATEGY

- **Iterate Towards Increased Capacity & Functionality**

ACKNOWLEDGEMENTS