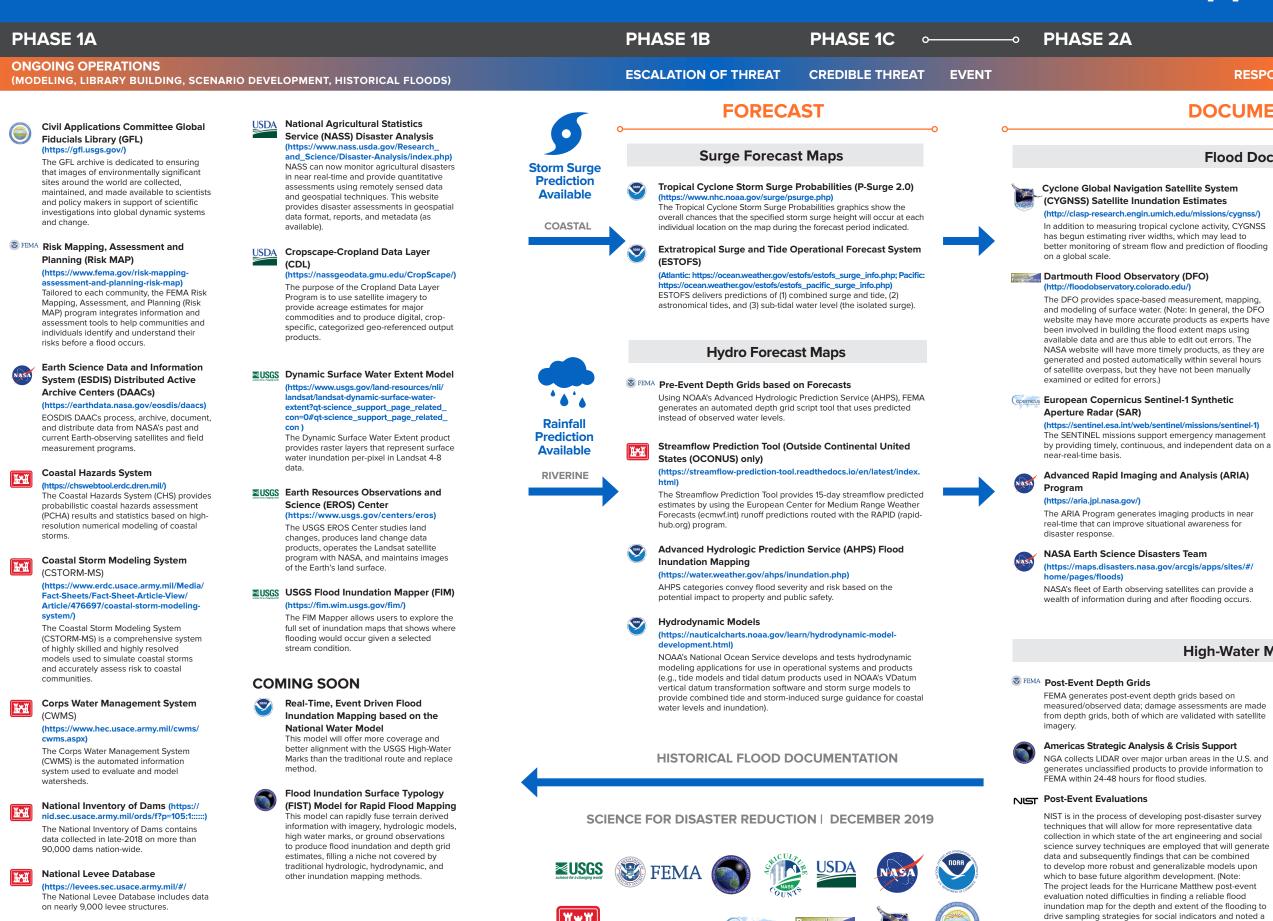
# What is Available and When: Real-time Flood Inundation Mapping Products



# PHASE 2B

### RESPONSE

# DOCUMENTATION

### **Flood Documentation**

high uncertainty in parcel level flood inundation.)



### Near Real-Time Global Flood Mapping

(https://floodmap.modaps.eosdis.nasa.gov/) NASA's Near Real-time Global Flood Mapping provides routine global mapping of likely flood water using available satellite data resources. (Note: In general, the DFO website may have more accurate products as experts have been involved in building the flood extent maps using available data and are thus able to edit out errors. The NASA website will have more timely products, as they are generated and posted automatically within several hours of satellite overpass, but they have not been manually examined or edited for errors.)



#### Flood Maps from NOAA Operational Weather Satellites

(https://www.ssec.wisc.edu/flood-map-demo/) NOAA provides experimental flood products based on satellite imagery that show flood areal extent and that can be used for situational awareness.

### **USGS USGS Flood Information**

#### (https://www.usgs.gov/mission-areas/water-resources/ science/usgs-flood-information?qt-science\_center\_ objects=0#qt-science\_center\_objects)

This webpage includes links to the collection of USGS flood data, including products to help Federal, State, and local agencies, decision makers, and the public before, during, and after a flood.

### **USGS** Hazard Data Distribution System (HDDSExplorer)

The HDDSExplorer is an event-based interface that provides a single point-of-entry for access to remotely sensed imagery and other geospatial datasets as they become available during a response, including data from public domain sources.

#### **ZUSGS** USGS Flood Inundation Mapper (FIM) (https://fim.wim.usgs.gov/fim/)

The FIM Mapper allows users to explore the full set of inundation maps that shows where flooding would occur given a selected stream condition.

## High-Water Mark + Mapping

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### COMING SOON



Machine Learning/Artificial Intelligence and Flood Inundation Science and Technology Integration

NGA, in collaboration with the National Center for Supercomputing Applications (NCSA), UGSS, NASA, NOAA, and the University of Alabama, is beginning to integrate machine learning and artificial intelligence to produce automated imagery analysis workflows to produce refined flood inundation extent and depth mapping capabilities.