

NOAA SATELLITE APPLICATIONS TO HURRICANE RESPONSE AND RECOVERY

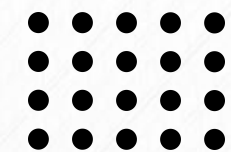
AMT COLLEGE

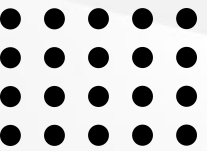
OPERATIONS

CHIEF

FLORIDA DIVISION OF EMERGENCY

MANAGEMENT





IMPACT OF SATELLITE IN DISASTER IMAGERY OPERATIONS

High-resolution satellite imagery can assist in the assessment of vulnerable areas ahead of a hurricane, provide a wide-area view of impacted areas for response officials, and show the level of change to an area to prioritize restoration and mitigation efforts.



ASSESSMENT OF

VULNERABILITIES



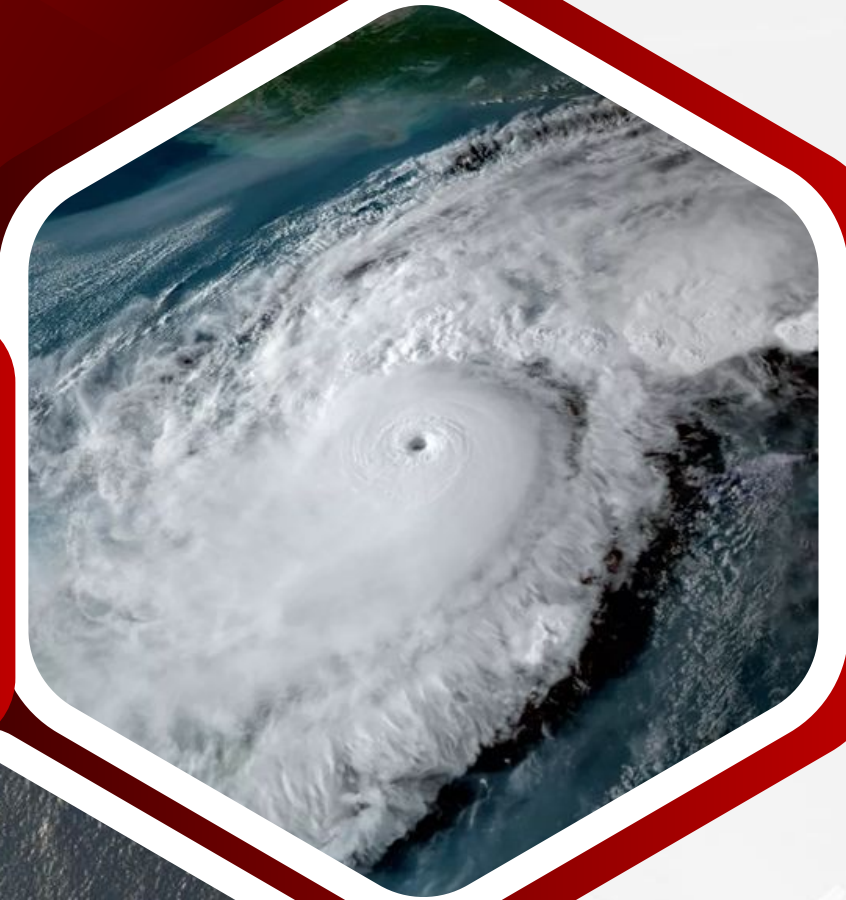
PRIORITIZATION OF

RESOURCES



FOCUSED RECOVERY AND

MITIGATION

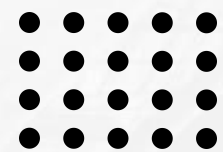


PRE-EVENT IMAGERY

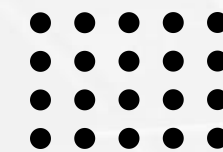


The State of Florida utilizes a combination of NOAA satellite, Google Earth, and low-level fixed-wing aircraft to survey the potential affected area(s) before a noticed event, such as a hurricane. Vulnerable locations such as barrier islands, beaches, bays, and coastally coupled riverine basins are captured, followed by other sensitive areas such as repetitive flood loss areas or areas recently impacted by a disaster (1-2 years or less)

Having recent high-resolution imagery is critical for response and recovery efforts. Satellite and fixed-wing images pre-event can show ongoing construction, congested areas, beach erosion and other potential hazards that could increase an areas vulnerability.



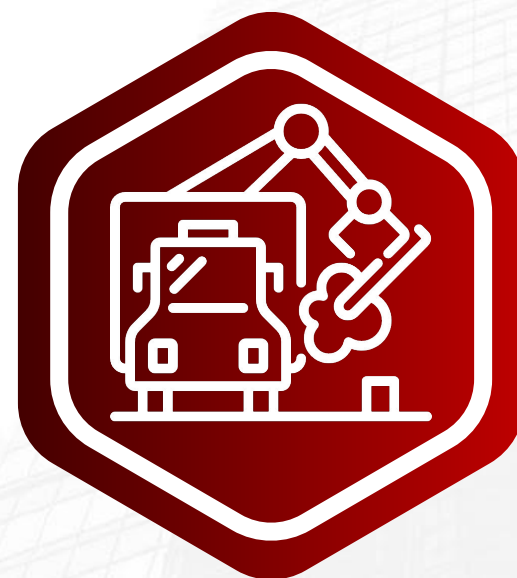
NOAA NGS EMERGENCY SUPPORTING HURRICANE IMAGERY RESPONSE



The State of Florida relies on storm-specific emergency response imagery, in combination with low-level fixed-wing aerial images/video to aid in response and recovery efforts.



**VALIDATE FIELD
REPORTS**



**DEBRIS OPERATIONS
PRIORITIZATION**

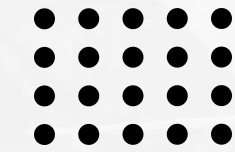


**SUPPORT
DECLARATION
REQUESTS**



**ESTABLISHING
RECOVERY
CENTERS**

INTEGRATION TO GEO-PLATFORMS



Imagery is integrated into state geospatial platforms and shared with local emergency managers, public works departments, and contracted debris monitoring firms to streamline coordination and tasking.



FLORIDA PUBLIC MAPPING

SYSTEMS



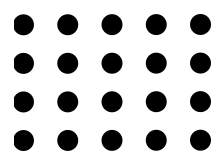
ARCGIS ONLINE DASHBOARDS



AI TOOLS



PRIVATE SECTOR SOFTWARE





THANK YOU

Feel free to reach out for any further discussions or questions.

 850-519-8483

 amy.godsey@em.myflorida.com

 Florida Division of Emergency Management

 www.floridadisaster.org

