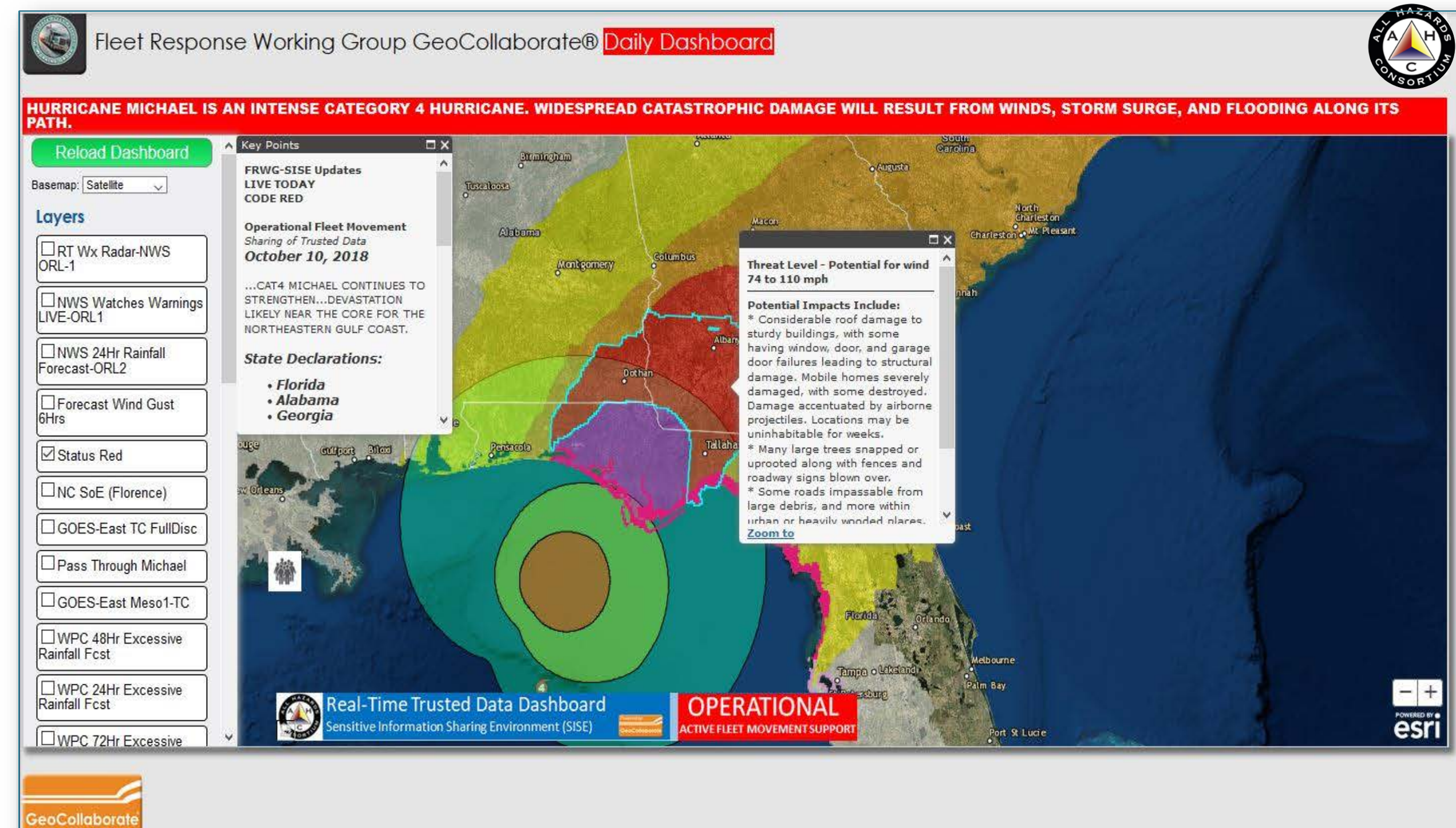


# Disasters Lifecycle Cluster



ABOUT: *Trusted Data. We collaborate with emergency managers to improve data-driven decision making in a Sensitive Information Sharing Environment (SISE)*



Operational dashboard screenshot of CAT4 Hurricane Michael approaching landfall, October 10, 2018, highlights threat levels and state emergency declarations



Introducing new products, e.g., NASA Airborne Science Data

UAVSAR aboard NASA G-III aircraft imaged Napa County, California on October 16 to observe areas affected by several wildfires that started on October 8 and burned thousands of buildings as well as vineyards and forests.

## NEW AND NOTEWORTHY



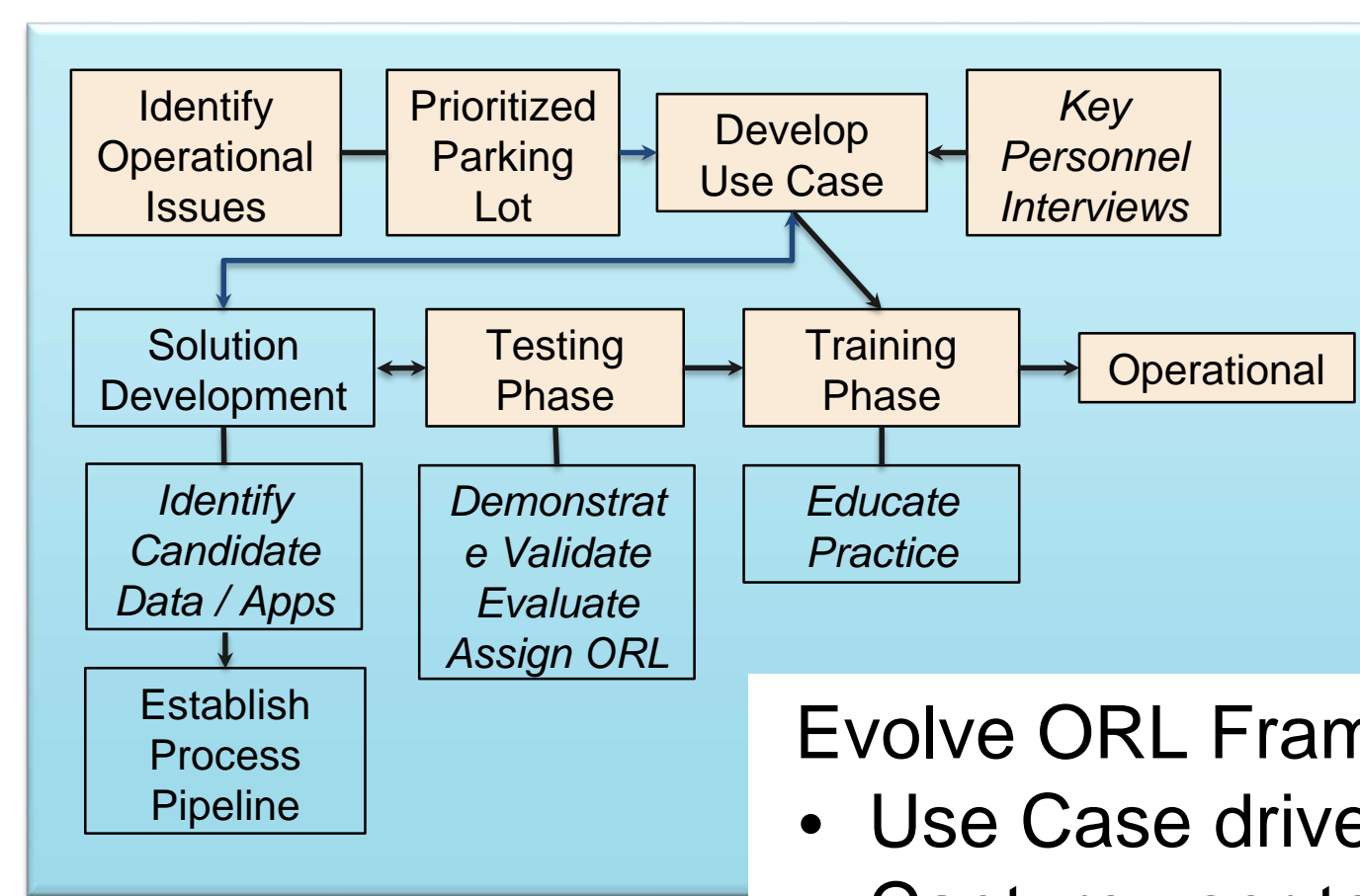
- **GeoCollaborate® Dashboard**  
Adopted by All Hazards Consortium, AHC [ESIP Testbed Success]
- **ORL Definitions and Criteria** adopted by AHC & Duke Energy for 2018 Hurricane Florence
- **ORL approach** endorsed by AHC partners in federal, state and private sector emergency managers, including FEMA & DHS National Infrastructure Coordinating Center, NICC
- **Data Driven Decision Making (3DM)**  
Quarterly workshops hosted by AHC for public / private stakeholder collaboration
- **ESIP Webinar “Managing disasters through improved 3DM”** Nov. 2018 see

<https://tinyurl.com/YouTube-ORL>

## NEXT STEPS: Disasters Communities' Terms & Semantics

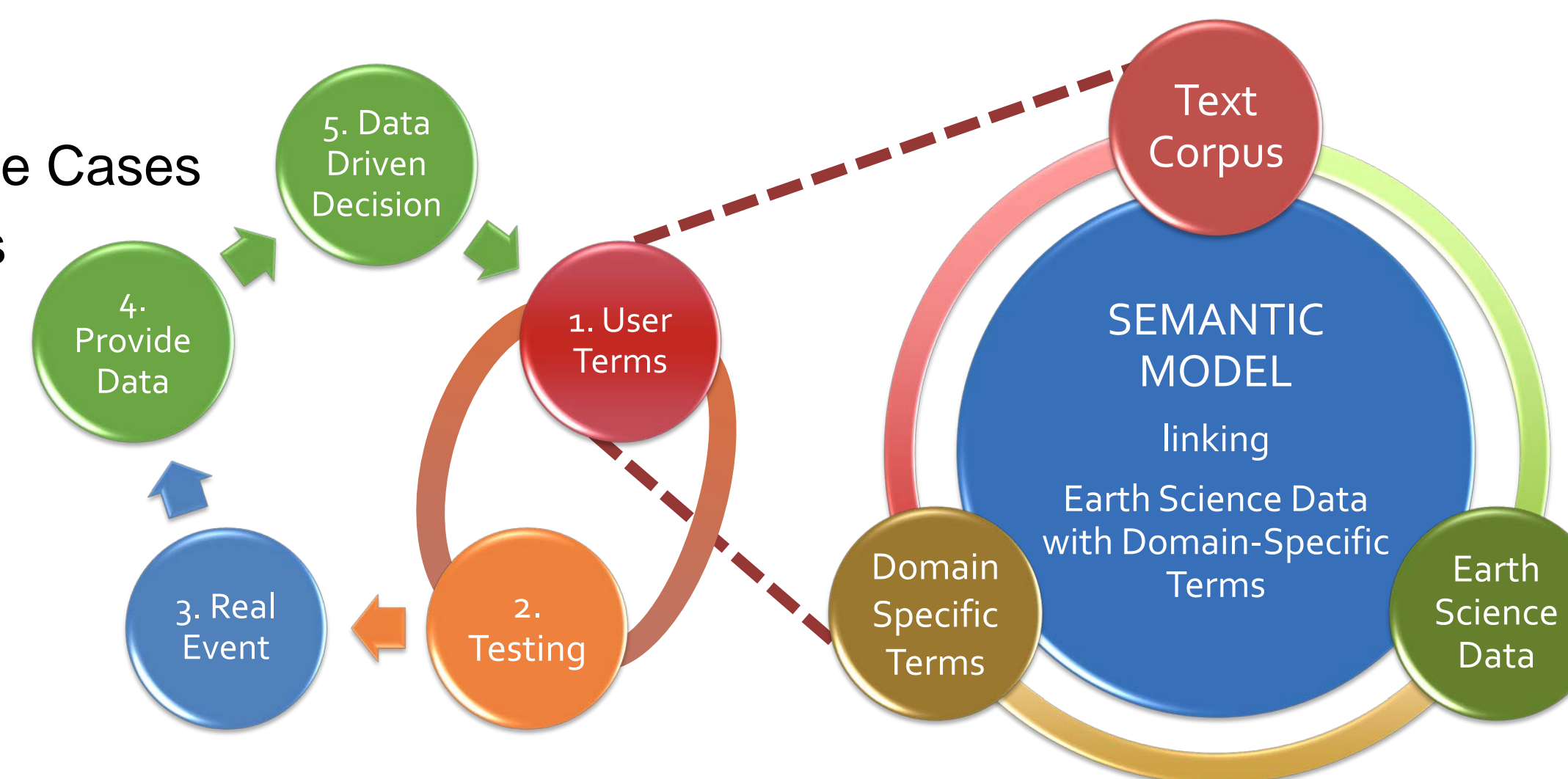
Develop an Operational Readiness Level Framework

1. Operations personnel submit identify key problems and develop Use Cases
2. Conduct interviews with key users to understand operational issues
3. Identify candidate data products
4. Assess Operational Readiness Level (ORL)
5. Establish a process pipeline for trusted data
6. Develop training packages



Evolve ORL Framework with a communications model

- Use Case driven approach connecting users with earth science data
- Capture user terminology, in their words, by analyzing user websites & text sources
- Use Natural Language Processing to identify terms & meanings and test with users



## ORL Definitions

ORL 1	Data available NOW 24/7 & Secure (SSL / HTTPS) Immediate SA & Decision Making DM [30 sec decisions] No Down Time – Operational Data is Critical to Decision Making Person available to contact (Fix link or service, report issues for open ticket)
ORL 2	Data available regularly, SA & DM [30 sec decisions] Event-driven, may be delayed due to acquisition and processing time required Likely very useful for Situational Awareness (SA) & Decision Making (DM) Person available to contact
ORL 3	Emerging operational data and/or mature testing phase Data not guaranteed Potential to improve SA and DM Target operations in 6-12 months
ORL 4	'New' emerging datasets, applications testing phase, training available Being evaluated for accuracy, validated, usefulness Target for operations 12+ months Not likely to be immediately useful for operations but could be

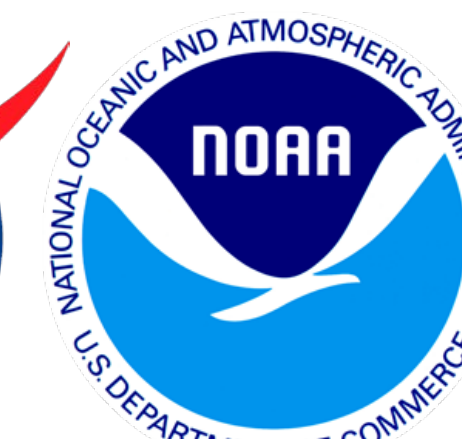
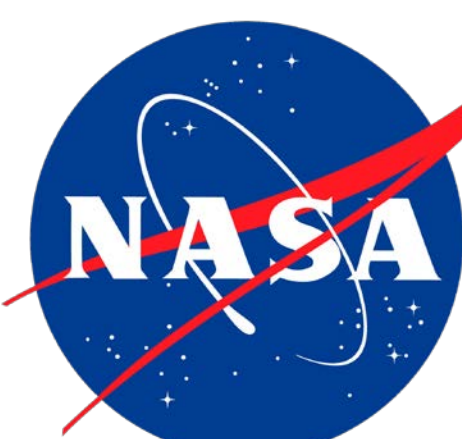
**Tags:** Trusted Data, Sensitive Information Sharing  
Data Driven Decision Making (3DM)  
Operational Readiness Levels (ORLs)

Want to learn more?

<http://wiki.esipfed.org/index.php/Disasters>

[www.esipfed.org](http://www.esipfed.org)

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