

**DISASTERS
PROGRAM**

Disasters Response Coordination System (DRCS)

Open Science for Disaster Response

How We Support Disaster Response

Satellite and airborne data can be used to better understand disaster impacts, especially when ground information is limited, delayed, or incomplete. DRCS delivers open access pre- and post-incident products that give emergency managers insight into the extent and severity of hazards and potential impacts to buildings and infrastructure.

Who Can Work with Us

You do not need an emergency or disaster declaration to request DRCS support. The DRCS can receive requests to activate domestically or internationally from disaster response agencies across all levels of government and non-profit organizations.

When To Work with Us

Before a Disaster (“Blue Sky”)

You are encouraged to engage with the DRCS before a disaster through:

- Capabilities briefings
- Data demonstrations
- Joint planning
- Tabletop exercises

During a Disaster (“Gray Sky”)

DRCS tools are useful for:

- Understanding hazards over large or remote areas
- Insights into infrastructure impacts
- Prioritizing damage assessments and resource allocation
- Data-driven response actions

How to Request DRCS Support

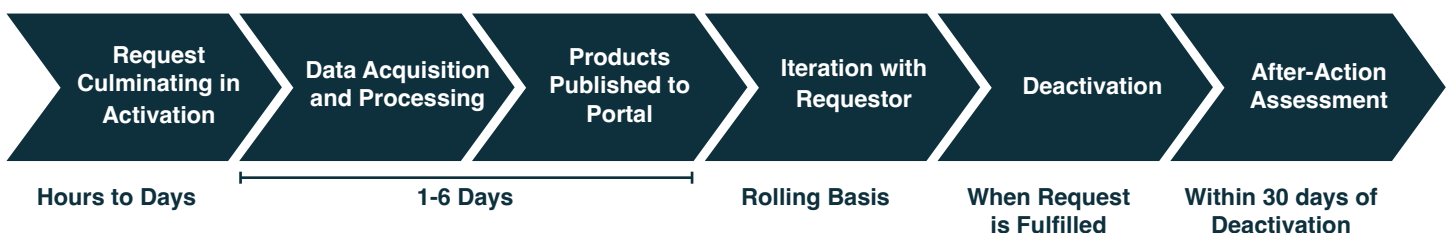
To request DRCS response support, email DRCS@nasa.gov with the following information included:

- ✓ Name, organization, and contact information
- ✓ Type of hazard
- ✓ Area of interest: List counties, cities, points of interest, or attach a file
- ✓ How DRCS can help: Questions you need answered, outcomes you need from the data, and products of interest

Detail allows the DRCS to quickly assess activation feasibility, expertise needed, and set realistic expectations.

Please note that NASA’s ability to meet a request depend on satellite overpass schedules, cloud cover, and team availability.

How Incident Coordination Process Works



Sample Products at a Glance

Core Product Types

Satellite Imagery

(pictures from space)
When having a bird's-eye view will be helpful.



Flood Detection

Changes in water location may indicate flooding.



Nighttime Lights/Power Loss

A loss of luminosity may indicate a potential power outage.



Active Fire/Thermal Imagery

Track the extent of active fires with updates every 12 hours.



Fire Perimeter/Burn Extent

Determine the total burn extent once a fire is under control.



Severe Weather

Estimate rainfall and detect areas potentially affected by severe weather.



Vegetation Disturbance

Changes in vegetation coverage may indicate damage from flood, fire, wind, landslides, and other hazards.



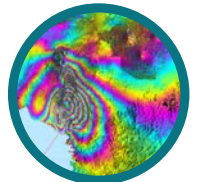
Landslide Detection

Determine where landslides have occurred or where risk is high after heavy rain or fires.



Land Deformation/Changes in Topography

Changes in the contours/height of the land.



Changes to the Built Environment

Estimates of damage or change to buildings and infrastructure.



During a disaster activation, DRCS products are posted publicly on the NASA Disasters Portal at maps.disasters.nasa.gov

DISASTERS PORTAL

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Contact Us

Email Us: DRCS@nasa.gov

Learn more about the Disasters Program and see NASA's Disasters Portal for examples of past responses: maps.disasters.nasa.gov

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