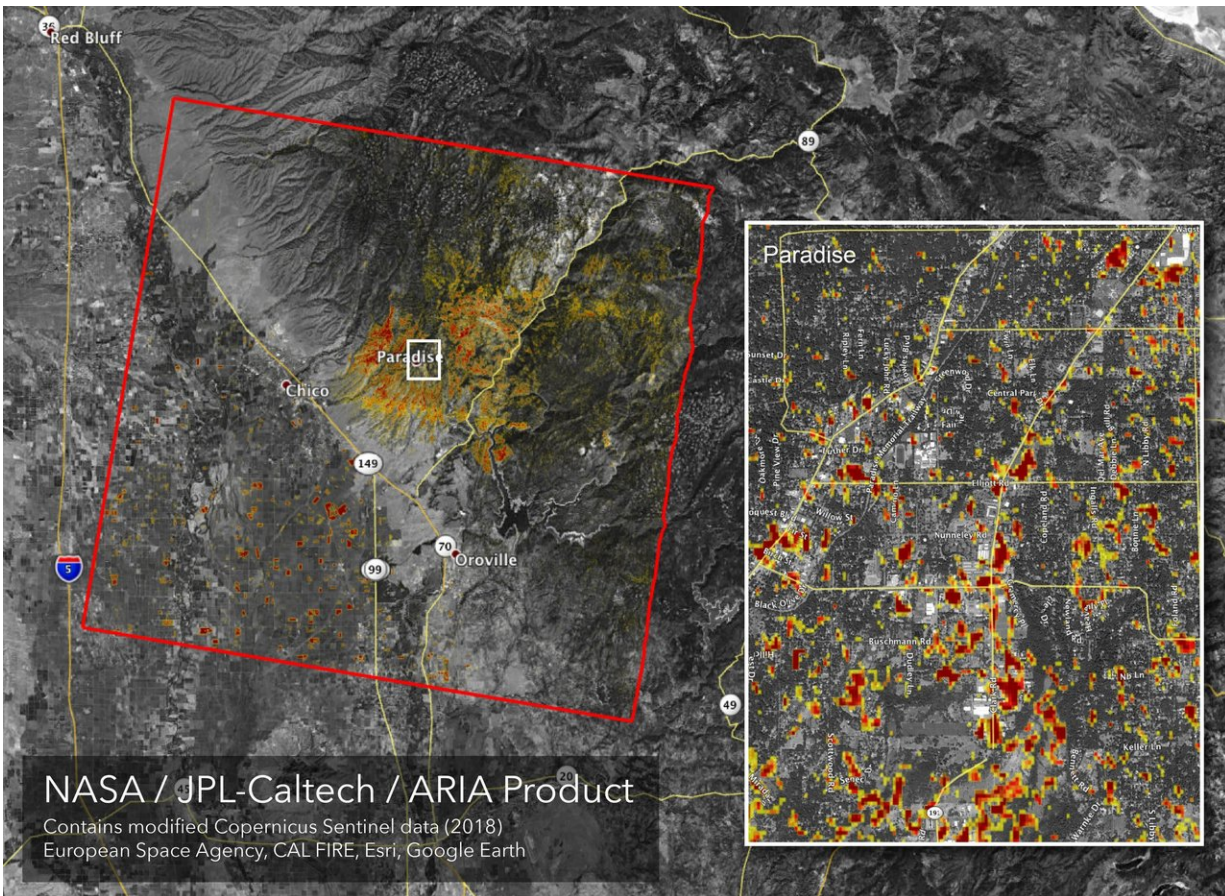


# Image: Updated NASA damage map of Camp Fire from space

November 20 2018



NASA's ARIA team produced this map of damage to Paradise, California, from the Camp Fire, the deadliest wildfire in the state's history. Credit: NASA/JPL-Caltech

As firefighters continue to battle the destructive Camp Fire in Northern California, the Advanced Rapid Imaging and Analysis (ARIA) team at NASA's Jet Propulsion Laboratory in Pasadena, California, has produced a new map showing damage as of Nov. 16.

The map was developed using synthetic aperture radar images from the Copernicus Sentinel-1 satellites operated by the European Space Agency. The map covers an area of 48 miles by 48 miles (78 by 77 kilometers), outlined in red on left. A closeup view of damage to the town of Paradise is inset on right, outlined in white. The color variation from yellow to red indicates increasingly more significant changes in the ground surface.

The ARIA team creates its maps by comparing before-and-after satellite images of the fire region to see the extent of change between the two [images](#). For this map, they compared the data for the image to a Cal Fire map for preliminary validation.

Although the maps may be less reliable over vegetated terrain, like forests, they can help officials and first responders identify heavily damaged areas and allocate resources as needed.

Sentinel-1 data were accessed through the Copernicus Open Access Hub. The image contains modified Copernicus Sentinel data (2018), processed by ESA and analyzed by the NASA-JPL/Caltech ARIA [team](#). This research was carried out at JPL and funded by NASA.

**More information:** More information about all of NASA's disaster-response efforts is available here [disasters.nasa.gov](https://disasters.nasa.gov)

Provided by Jet Propulsion Laboratory

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