

## **Images From NASA's Terra Spacecraft On Thai Flooding**

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<http://www.asianscientist.com/in-the-lab/nasa-terra-spacecraft-aster-thai-flooding-102011/>

*AsianScientist (Oct. 31, 2011)* - Since July this year, heavy monsoon rains in Southeast Asia have resulted in catastrophic flooding. In Thailand, about one third of all provinces are affected.

On October 23, 2011, when this image of the flooding in Thailand was acquired from ASTER, the Advanced Spaceborne Thermal Emission and Reflection Radiometer instrument on NASA's Terra spacecraft, flood waters were approaching the capital city of Bangkok as the Ayutthaya River overflowed its banks.

In this image, vegetation is displayed in red, and flooded areas are black and dark blue. Brighter blue shows sediment-laden water, and gray areas are houses, buildings and roads.

The image covers an area of 35.2 by 66.3 miles (56.7 by 106.9 kilometers) and is located at 14.5 degrees north latitude, 100.5 degrees east longitude.

With its 14 spectral bands from the visible to the thermal infrared wavelength region and its high spatial resolution of 15 to 90 meters (about 50 to 300 feet), ASTER images Earth to map and monitor the changing surface of our planet.

Launched on December 18, 1999 on Terra, ASTER is one of five Earth-observing instruments in space. The instrument was built by Japan's Ministry of Economy, Trade and Industry, and managed by a joint U.S.-Japan science team which is responsible for validation and calibration of the instrument and data products.

ASTER's broad spectral coverage and high spectral resolution provides scientists in numerous disciplines with critical information for surface mapping and monitoring of dynamic conditions and temporal change.

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Source: [NASA](#); Photo: NASA/GSFC/METI/ERSDAC/JAROS, and U.S./Japan ASTER Science Team.  
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