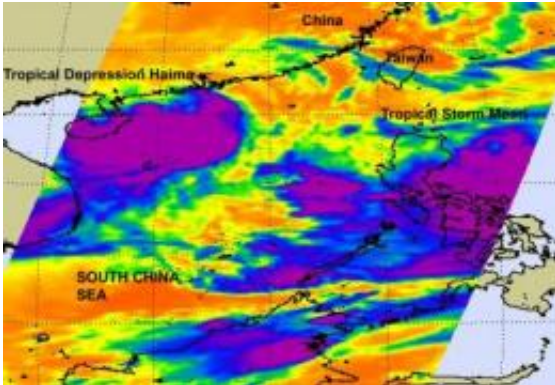


Satellite gets two tropical cyclones in one shot

June 23 2011



NASA's Aqua satellite captured this infrared image of 2 tropical cyclones from the AIRS instrument on June 22 at 17:53 UTC 1:53 p.m. EDT. The heaviest rainfall and strongest convection from Tropical Storm Meari (right) is currently over the Philippine Sea. The strongest thunderstorms (purple) in Haima (left) are mostly over the South China Sea and Hainan Island, China. Credit: Credit: NASA/JPL, Ed Olsen

The Northwestern Pacific Ocean is active with two tropical cyclones today, Tropical Storm Meari near the Philippines, and Tropical Depression Haima moving over China and now toward Vietnam. NASA's Aqua satellite passed over the region on June 22 and captured an infrared image of both storms in one image.

One of the instruments onboard NASA's Aqua satellite is the Atmospheric Infrared Sounder (AIRS). AIRS captures cloud top temperatures in [tropical cyclones](#) to determine the strength of convection

and thunderstorms. The strongest thunderstorms have [cloud tops](#) with icy [cold temperatures](#) of -63F/-52C and are indicative of areas where rainfall rates could reach up to 2 inches / 50 mm per hour and both Meari and Haima had large areas of those very cold cloud top temperatures.

AIRS captured the image on June 22 at 17:53 UTC 1:53 p.m. EDT and it showed the heaviest rainfall and strongest convection (rapidly rising air that forms the thunderstorms that power a tropical cyclone) from Tropical Storm Meari is currently over the [Philippine Sea](#) and skirting the east coast of Luzon. The imagery showed the large area of strong thunderstorms (and convection) in Haima mostly over the South China Sea and Hainan Island, China.

Haima is still a tropical depression as its [maximum sustained winds](#) on June 23 at 1500 UTC (11 a.m. EDT) were near 30 knots (34 mph/55 kmh). [Tropical storms](#) have maximum sustained winds between 38 and 73 mph. It was located over Hainan Island, China, and about 235 nautical miles west-southwest of Hong Kong, China near 21.4 North and 109.6 East. Tropical Depression Haima is moving westward at 10 knots (11 mph/19 kmh).

The Joint [Typhoon Warning Center](#) does not expect Haima to strengthen into a tropical storm because of its interaction with land over Hainan Island, and its short track over the South China Sea between there and Vietnam where it is expected to make its final landfall. An orange alert is now in effect for North and South Korea as [Tropical Depression](#) Haima is tracking in that direction.

Meari is a tropical storm, and has maximum sustained winds near 40 knots (46 mph/78 kmh). It is centered to the east of Luzon, the Philippines and about 500 nautical miles south-southwest of Kadena Air Base, Japan. Meari is moving to the northwest at 12 knots (14 mph/22

kmh).

The Joint Typhoon Warning Center noted that Meari's center of circulation is elongated and there are "multiple minor vortices developing and rotating cyclonically around the center." During the morning hours on June 23, AIRS data and microwave satellite data showed that convection has consolidated around the center, helping to better pinpoint the center in this massive storm system.

As Meari continues on a northward track it will run into cooler sea surface temperatures in the Yellow Sea, they will weaken the tropical storm quickly.

Meari's center is forecast now to remain at sea and brush Taiwan, eastern China and make landfall in the southwestern area of North Korea this weekend.

Provided by NASA's Goddard Space Flight Center

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