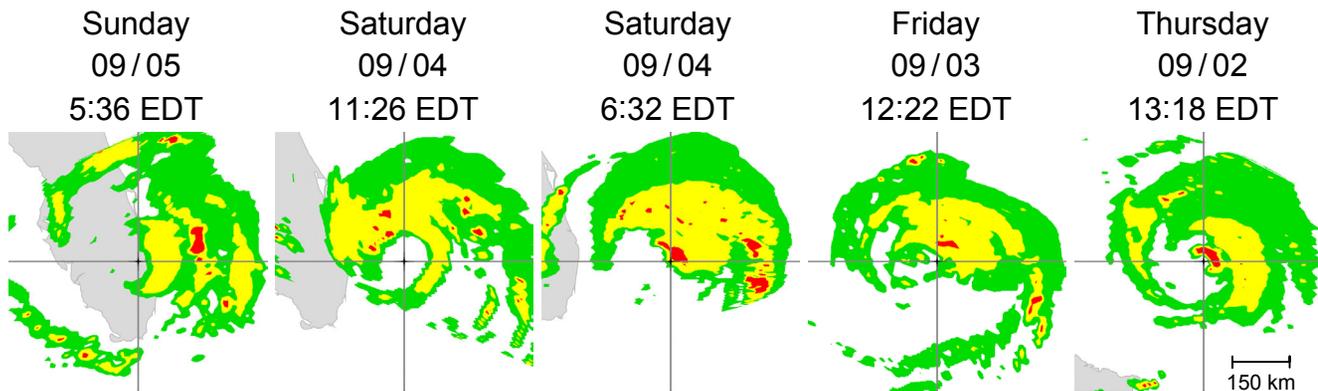
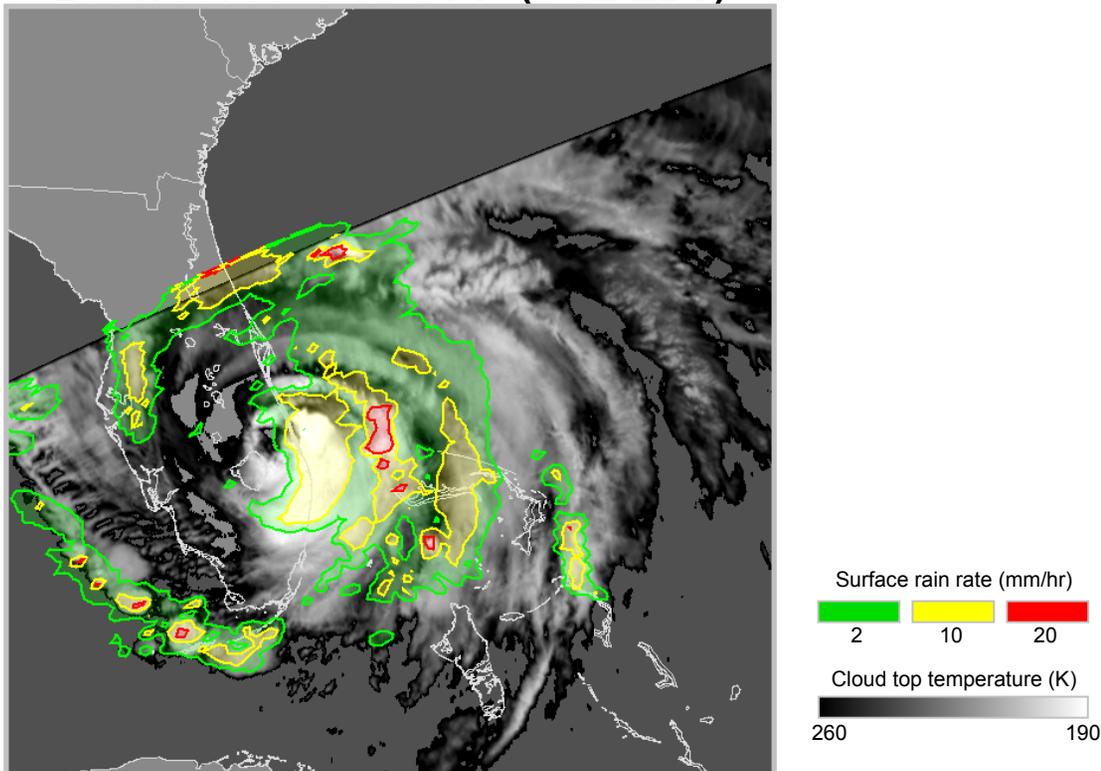


Hurricane Frances Strikes Florida

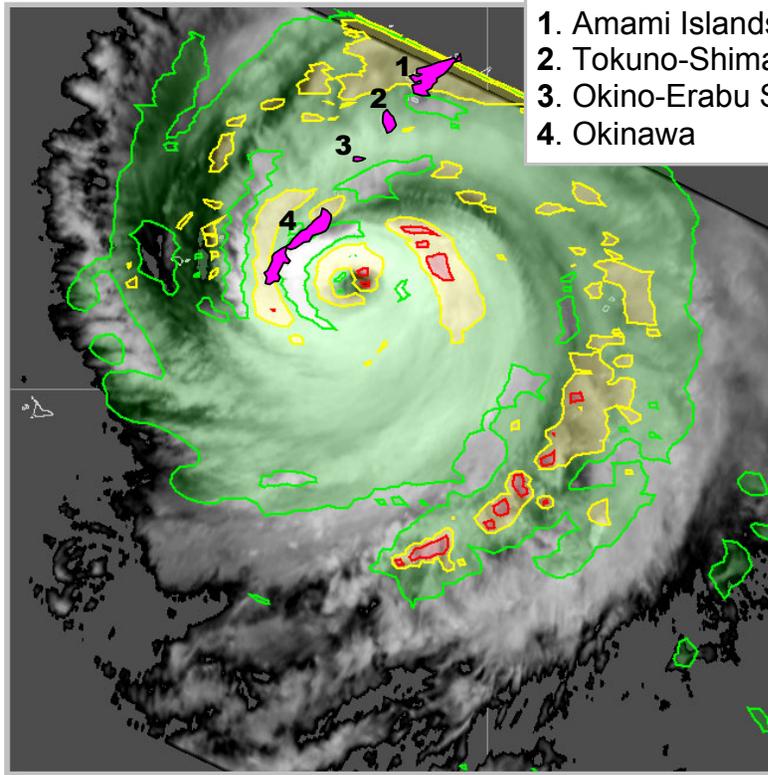
2004/09/05 9:36 UTC (5:32 EDT)



The Tropical Rainfall Measuring Mission (TRMM) satellite flew over Hurricane Frances as the storm's eye made landfall over central Florida. The upper image shows the TRMM overflight at 5:32 EDT on Sunday, September 5, 2004. A few hours later, Hurricane Frances was downgraded to a category 1 hurricane on the Saffir/Simpson scale with sustained winds under 96 mph. In the upper image, the shades of gray show the cloud height with white indicating the highest clouds. Colors contours indicate the surface rainfall rate. The sequence of images along the bottom repeats the 5:32 AM rain contours and provides the rain contours from four previous overflights. The sequence shows that for the past several days, the storm has been growing increasing asymmetric, with the exception of the 11:26 EDT overflight on September 4. Increasing asymmetry is often related to decreasing storm strength. TRMM is a joint mission between NASA and the Japanese Aerospace Exploration Agency (JAXA). For more information, visit the TRMM homepage at <http://trmm.gsfc.nasa.gov>.



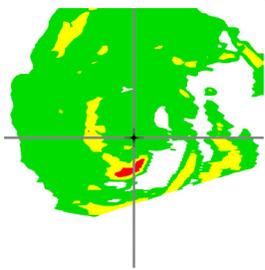
2004/09/05 11:16 JST



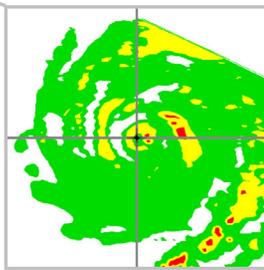
1. Amami Islands
2. Tokuno-Shima
3. Okino-Erabu Shima
4. Okinawa

Typhoon Songda (T0418) Strikes Okinawa

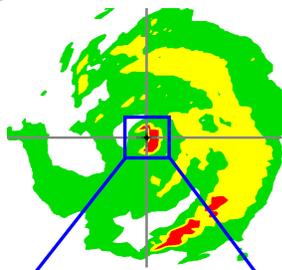
The Tropical Rainfall Measuring Mission (TRMM) satellite flew over Typhoon Songda before and after the storm struck the island of Okinawa on September 5, 2004. For several days, the storm had hovered between category 3 and 4 on the Saffir/Simpson scale with sustained winds in excess of 95 mph. In the upper image, the shades of gray show the cloud height with white indicating the highest clouds. Colors contours indicate the surface rainfall rate. The sequence of images below shows that, for several days, Typhoon Songda maintained a compact eyewall containing heavy rain, which suddenly dispersed several hours after striking Okinawa. The high resolution data from the TRMM Precipitation Radar shows how well organized the eyewall was prior to striking the island. TRMM is a joint mission between NASA and the Japanese Aerospace Exploration Agency (JAXA). For more information, visit the TRMM homepage at <http://trmm.gsfc.nasa.gov>.



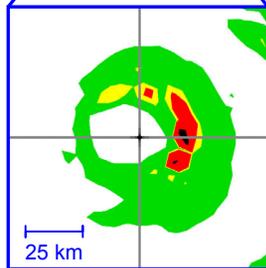
09/06
5:25 JST
After striking
Okinawa



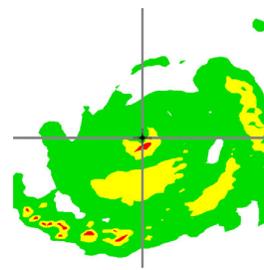
09/05
11:16 JST
Prior to striking
Okinawa



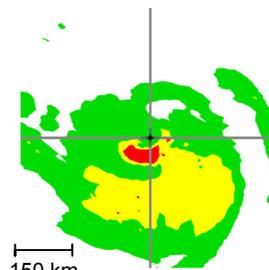
TRMM
Precipitation
Radar



09/05
4:43 JST



09/03
4:59 JST



09/02
12:28 JST

TRMM
Microwave
Imager

