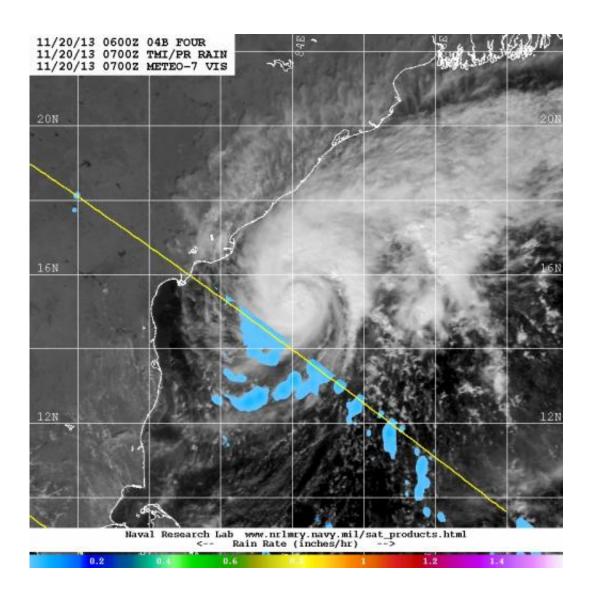


## Tropical Cyclone Helen headed for landfall in India

November 20 2013



Visible/short wave infrared data from ESA's METEO-7 satellite and rainfall data from NASA's TRMM satellite was combined to create this image of Tropical Cyclone Helen on Nov. 20. Credit: NRL/NASA/ESA



Tropical Cyclone 04B has strengthened and been renamed "Helen" as it slowly nears landfall in southeastern India.

On Nov. 20 at 1200 UTC/7 a.m. EST, Tropical Cyclone Helen had maximum sustained winds near 50 knots/57.5 mph/92.6 kph. It was centered near 15.5 north and 83.9 east, about 499 nautical miles/574.2 miles/924.1 km south-southwest of Calcutta, India. Helen was crawling to the northwest at 1 knot/1.1 mph/1.8 kph. A mid-level subtropical ridge (elongated area) of high pressure is expected to slowly build east of Helen and steer the storm on a more western track in the next day.

Current warnings are in effect for fishermen along the coasts of Andhra Pradesh, who are advised to return to shore.

Animated multispectral satellite showed a resurgence of deep convection over the low-level center of circulation. Satellite data also showed that the band of thunderstorms that appeared strong to the north has weakened and become fragmented. Visible/short wave infrared data from ESA's METEO-7 satellite and rainfall data from NASA's Tropical Rainfall Measuring Mission or TRMM satellite was combined at the Naval Research Laboratory to create a composite image of the storm on Nov. 20. The image showed the clouds associated with Helen were mostly still over the open waters of the Arabian Sea, and that south of the center, light rainfall was occurring.

Helen is expected to intensify to 60 knots/69.0 mph/111.1 kph over the next two days and weaken before <u>landfall</u>. Helen is forecast to pass just south of the Yelichetladibba Palem and Nachugunta Reserved Forests in Andhra Pradesh, located in the coastal plain of Krishna Delta. Helen is expected to make landfall in the vicinity of Chinnaganjam in southeastern India.



## Provided by NASA's Goddard Space Flight Center

Citation: Tropical Cyclone Helen headed for landfall in India (2013, November 20) retrieved 3 May 2024 from <a href="https://phys.org/news/2013-11-tropical-cyclone-helen-landfall-india.html">https://phys.org/news/2013-11-tropical-cyclone-helen-landfall-india.html</a>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.