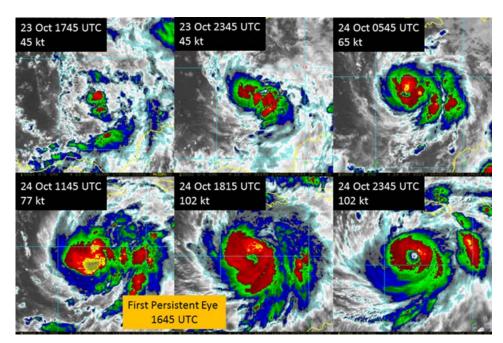


Diagnosis and Anticipation of Tropical Cyclone Behavior from New and Enhanced GOES-R Capabilities



Three tasks are proposed that will improve the use and interpretation of GOES-R imaging capabilities:

- 1. Anticipation of tropical cyclone eye formation.
- Improved understanding of cloud top microphysical variations in tropical cyclones.
- 3. Use of simulated HWRF IR imagery to improve tropical cyclone wind structure diagnosis from observed IR imagery.



Caption. Six-hourly IR images of Hurricane Mitch starting at 18 UTC 23 October. Dvorak-based intensities from SAB are listed in the upper right portion of the images. During this period of time Mitch transformed from a strong tropical storm with no indication of an eye to a major hurricane.

Improved interpretation and use of GOES-R imaging capabilities in the vicinity of tropical cyclones

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