



Marsupial Satellite Analysis Products for PRE-Depression Investigation of Cloud systems in the Tropics (PREDICT)

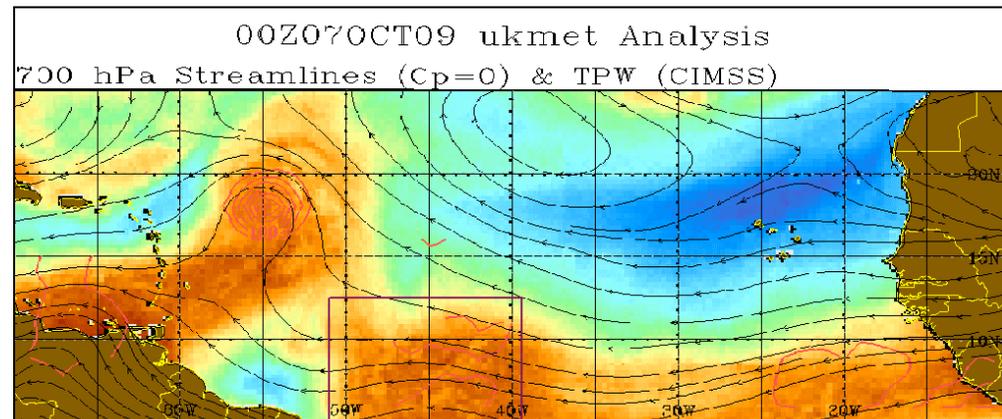
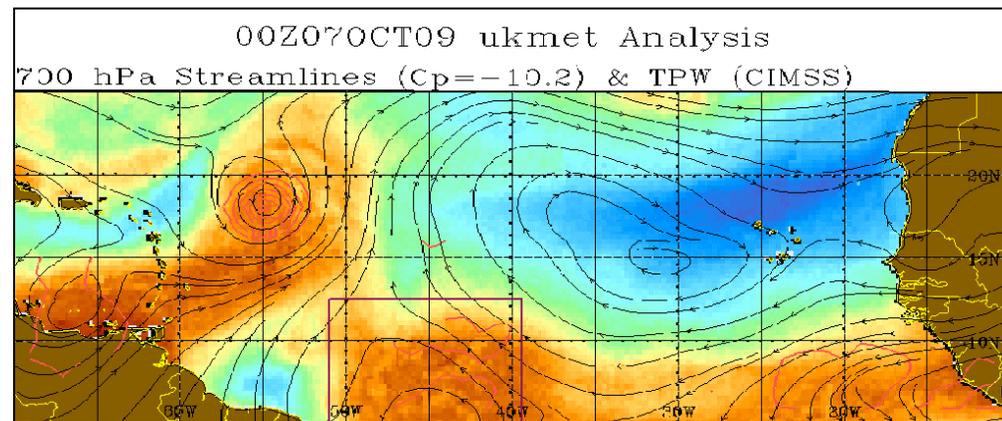
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Naval Postgraduate School
Monterey, CA***



700 hPa Streamlines & MIMIC/TPW



CIMSS MIMIC/TPW imagery overlaid w/ 700 hPa streamline analysis w/ OW from UKMET, NOGAPS, and GFS models

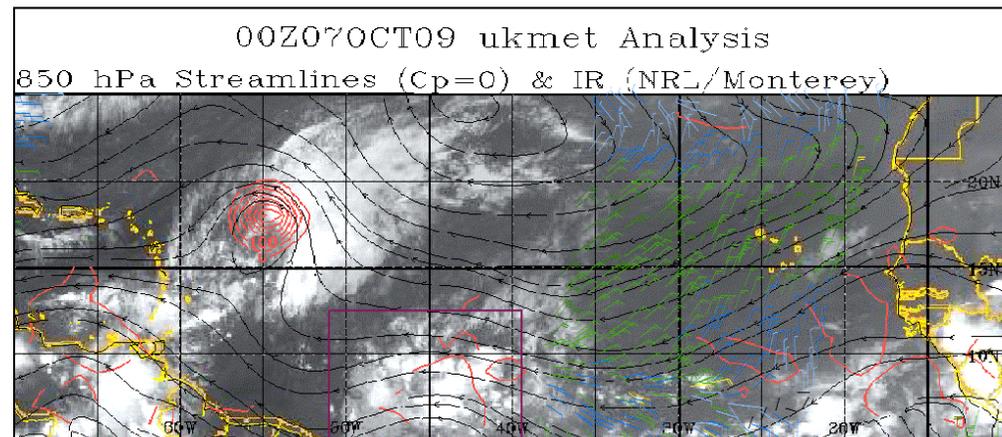
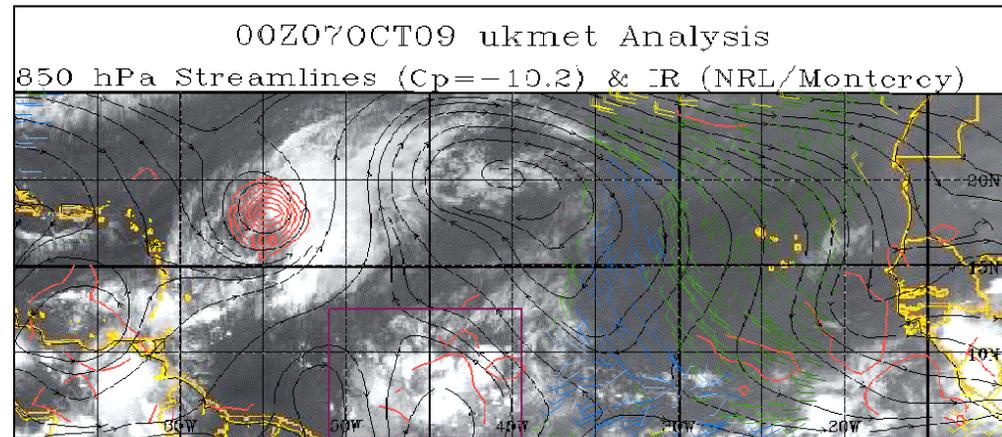




850 hPa Streamlines & IR Imagery



IR imagery overlaid w/ 850 hPa streamline analysis w/ OW from UKMET, NOGAPS, & GFS models, & quikscat winds





Future Upgrades



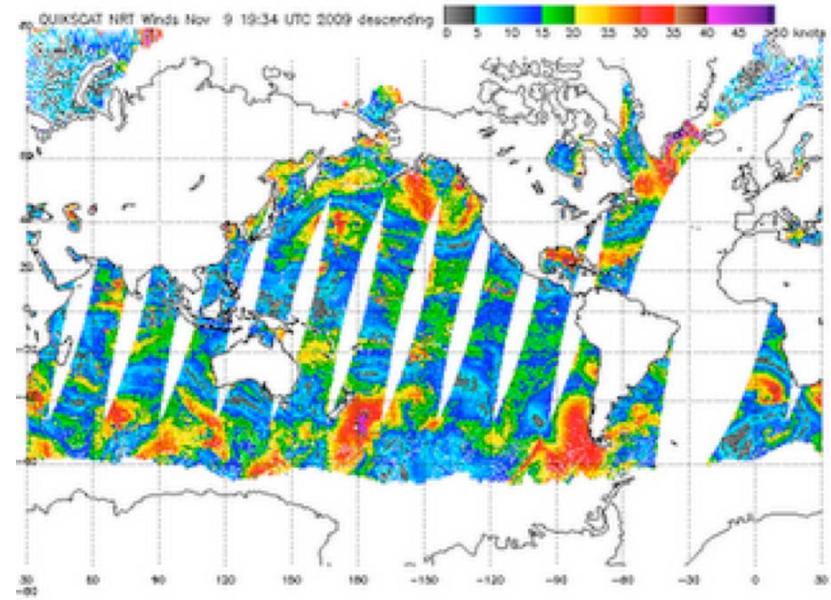
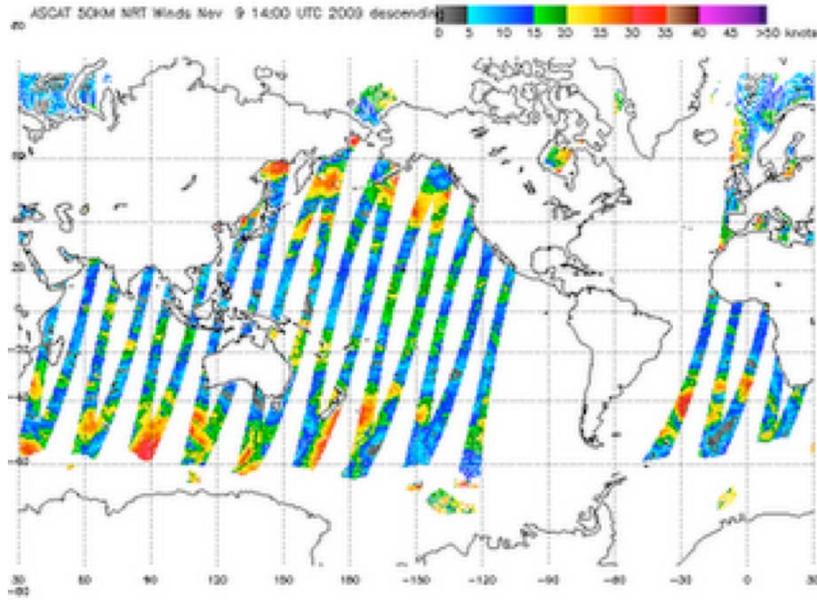
ASCAT in addition of QUIKSCAT data

Diabatic activation



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ASCAT & QuikSCAT

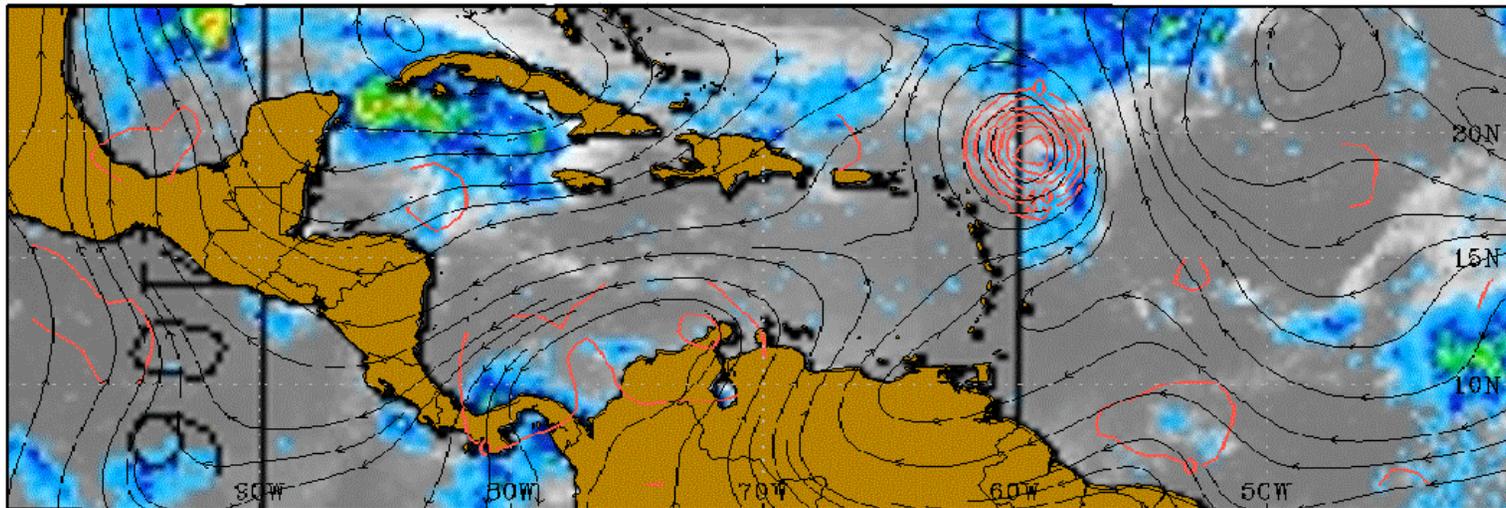




Diabatic Activation TRMM 12 Hour Rain Accumulation



00Z08OCT09 nogaps Analysis



Sample example product; streamlines 8 Oct 2009/ 12hr
precipitation recent event



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Questions ???





Possible Other Products



- Alternate TPW Product
- New TPW Anomaly Product
- Diabatic Activation Products
 - TRMM 12 Hour Precipitation
 - CloudSat Overpasses



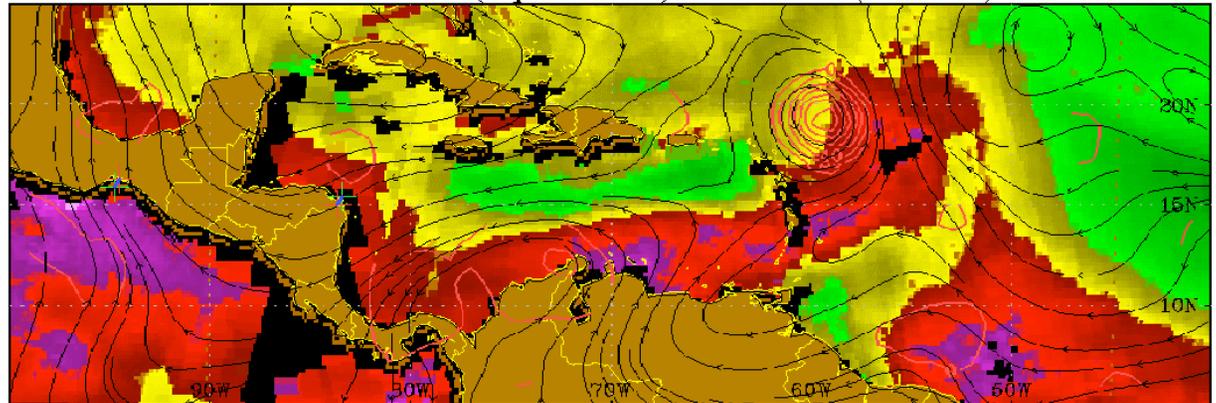
700 hPa NESDIS Merged TPW & TPW Anomaly



NESDIS Operational Merged TPW and TPW Anomaly imagery overlaid w/ 700 hPa streamline analysis from UKMET, NOGAPS, & GFS models

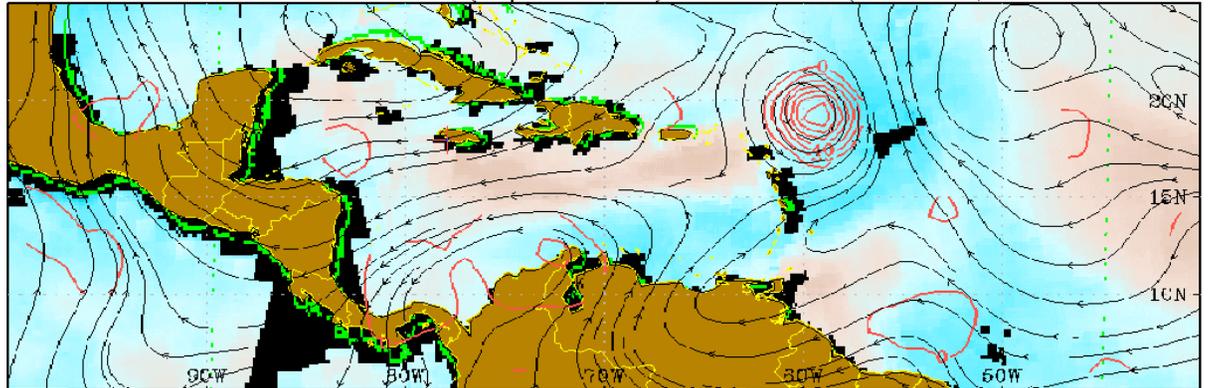
00Z08OCT09 nogaps Analysis

700 hPa Streamlines ($C_p = -5.5$) & TPW (CIMSS)



00Z08OCT09 nogaps Analysis

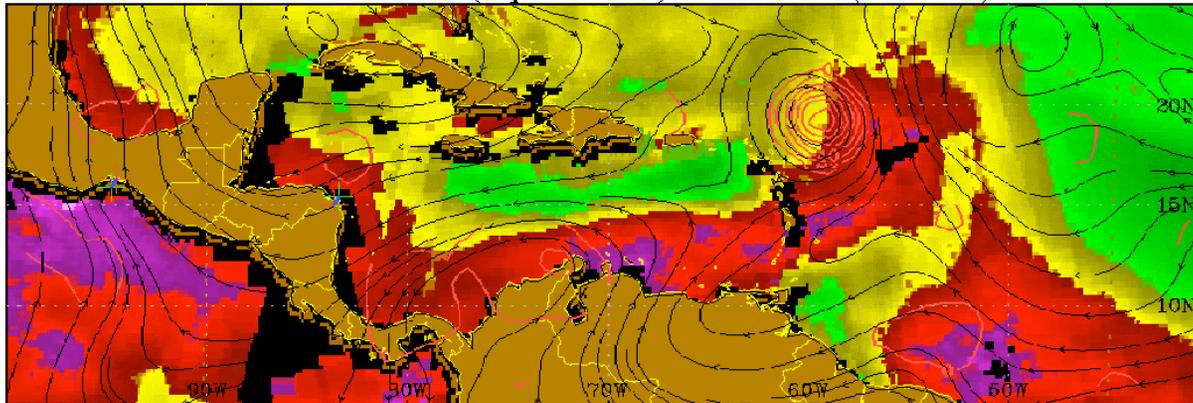
700 hPa Streamlines ($C_p = -5.5$) & TPW (CIMSS)



Comparison NESDIS TPW & CIMSS MIMIC TPW

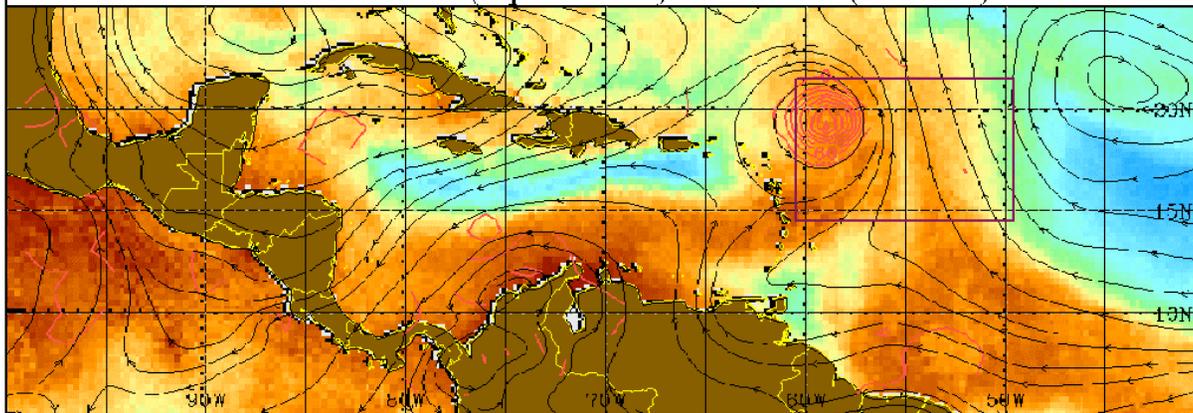
00Z08OCT09 nogaps Analysis

700 hPa Streamlines ($C_p = -5.5$) & TPW (CIMSS)



00Z08OCT09 ukmet Analysis

700 hPa Streamlines ($C_p = -5.1$) & TPW (CIMSS)





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Diabatic Activation from CloudSat

