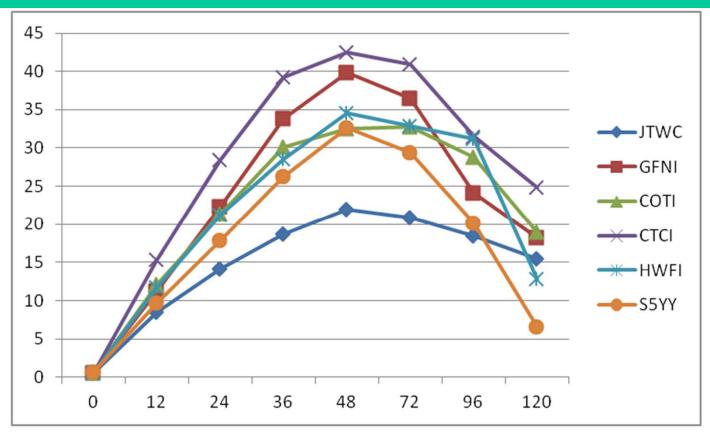


JOINT TYPHOON WARNING CENTER 2013 YEAR IN REVIEW



JTWC INTENSITY PERFORMANCE ON STY HAIYAN - PRELIMINARY



68th INTERDEPARTMENTAL HURRICANE CONFERENCE 4-6 MAR 2014

Mr. Robert (Bob) Falvey Director, Joint Typhoon Warning Center



MISSION

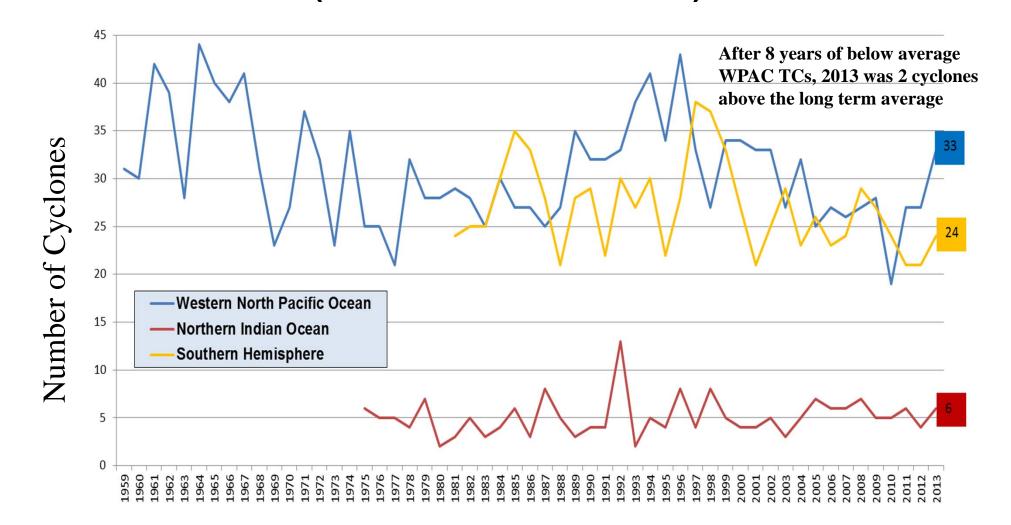


Provide tropical cyclone reconnaissance, analysis, forecast and warning support for Department of Defense, and other US Government assets in the Pacific and Indian Oceans as established by Commander, United States Pacific Command.



ANNUAL TC ACTIVITY (All Intensities All Basins)

SUBST OF THE

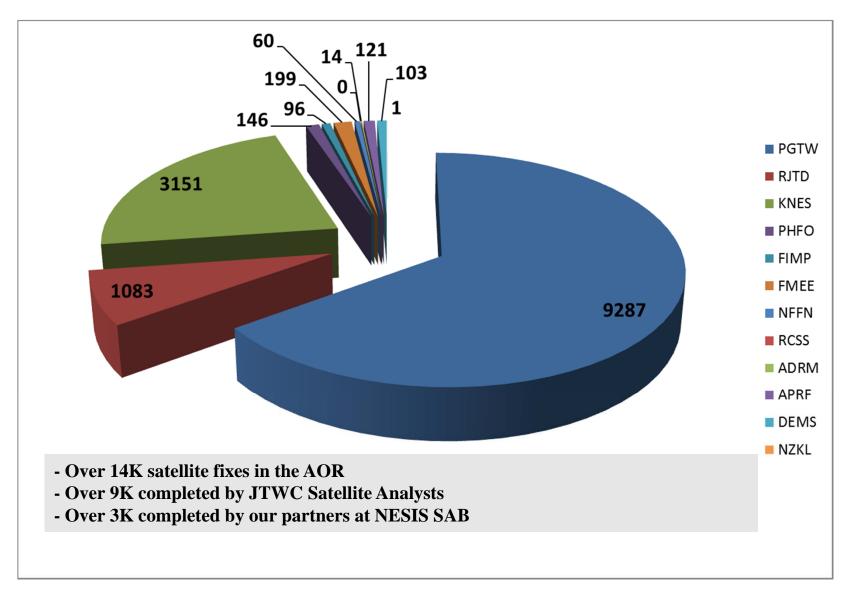




2013 SATELLITE RECON



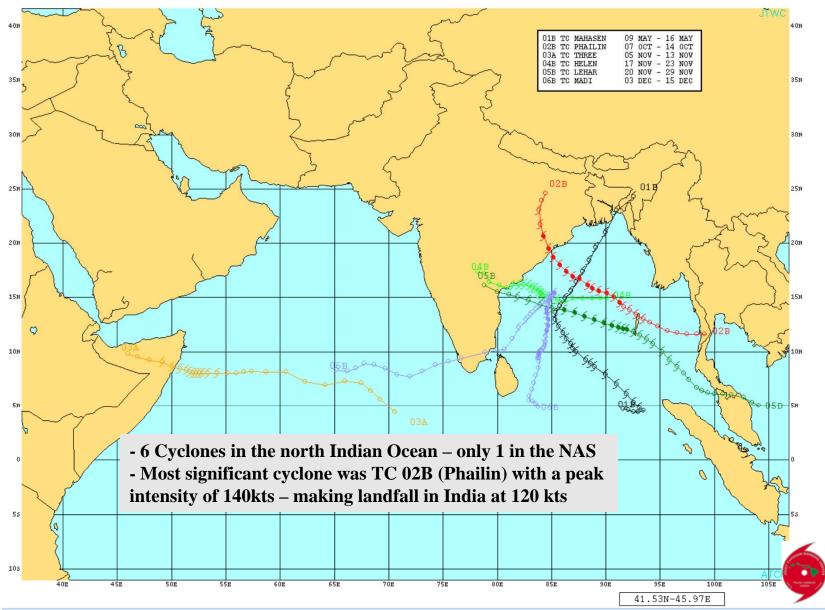
Fixes by Agency – 14,261





2013 NORTH INDIAN OCEAN

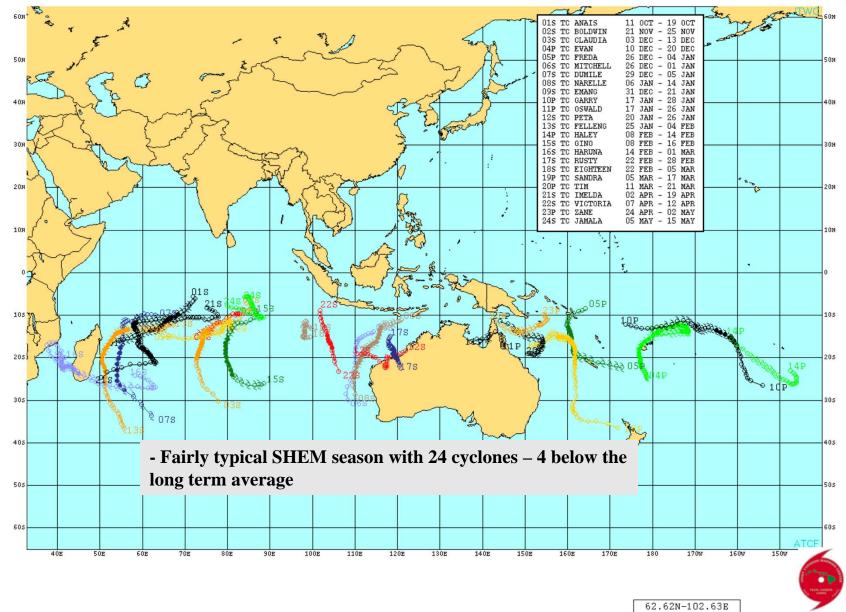




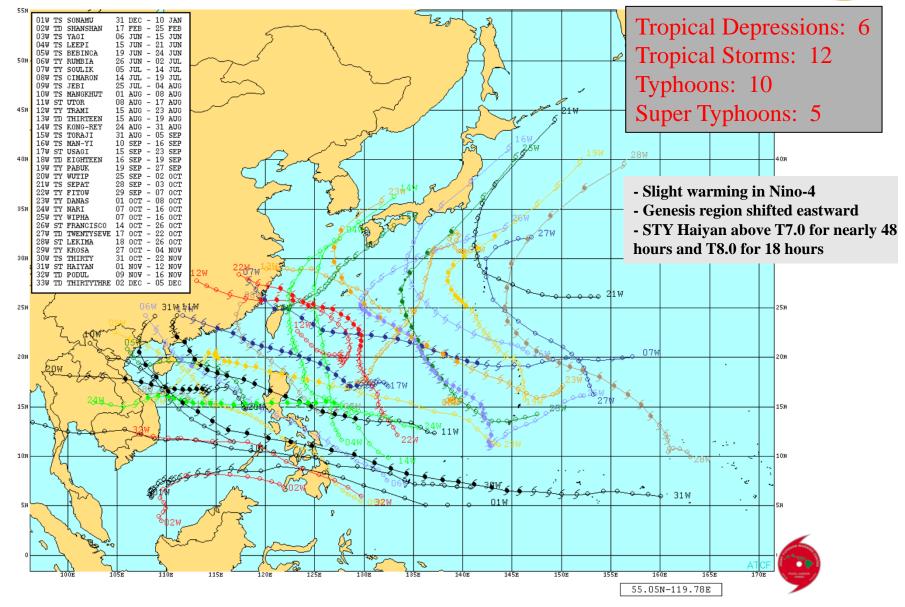


2013 SOUTHERN HEMISPHERE







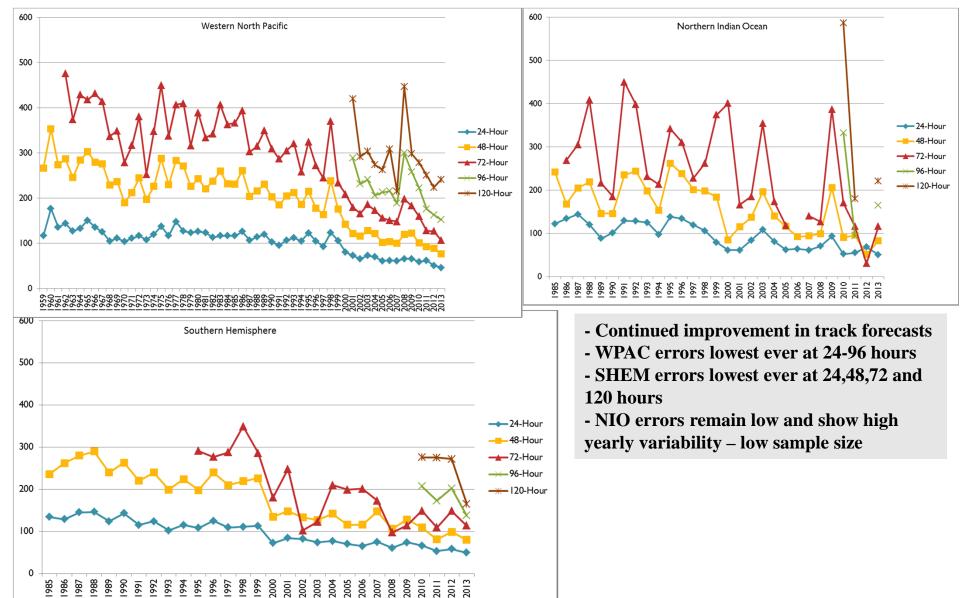




JTWC TRACK ERRORS

All Basins



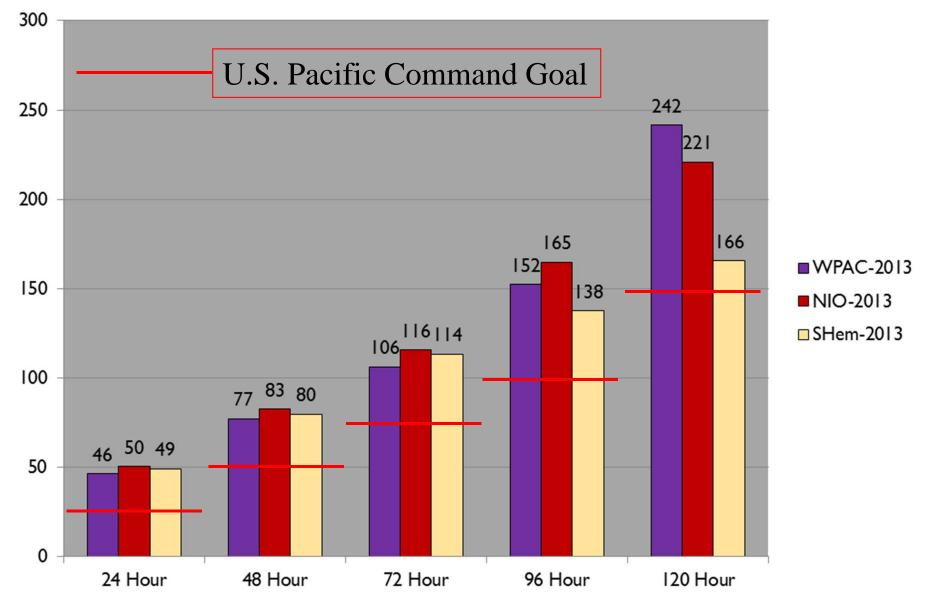




2013 JTWC TRACK ERRORS



All Basins

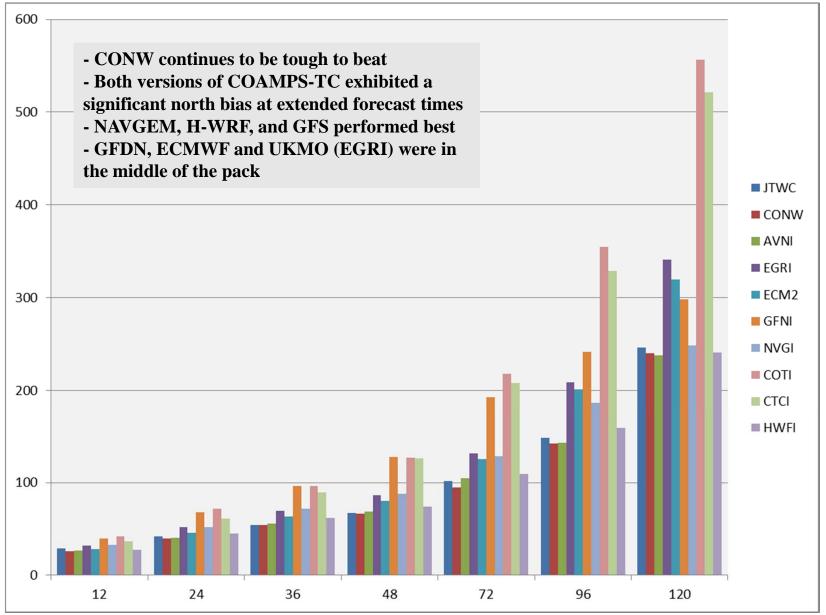




2013 MODEL TRACK ERRORS



(Western North Pacific – Homogeneous)

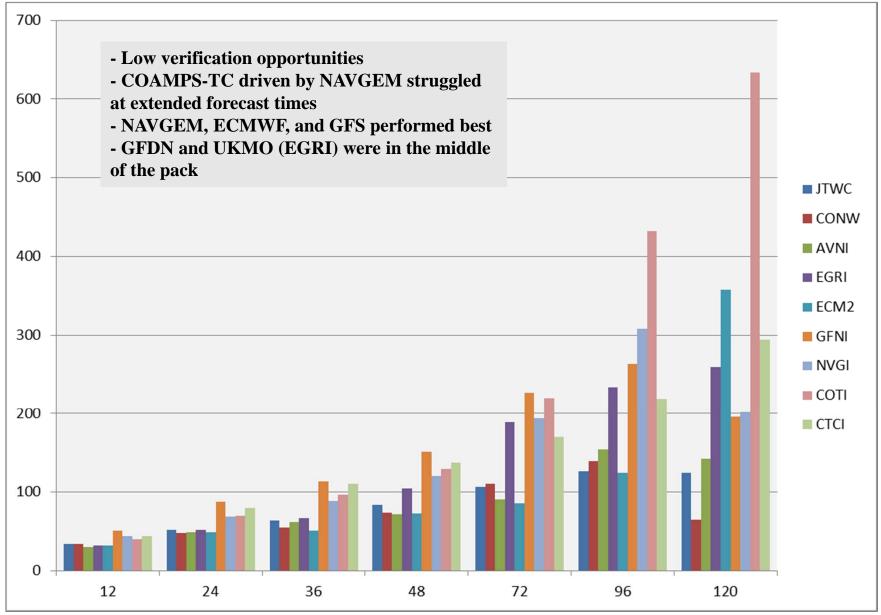




2013 MODEL TRACK ERRORS



(Northern Indian Ocean – Homogeneous)

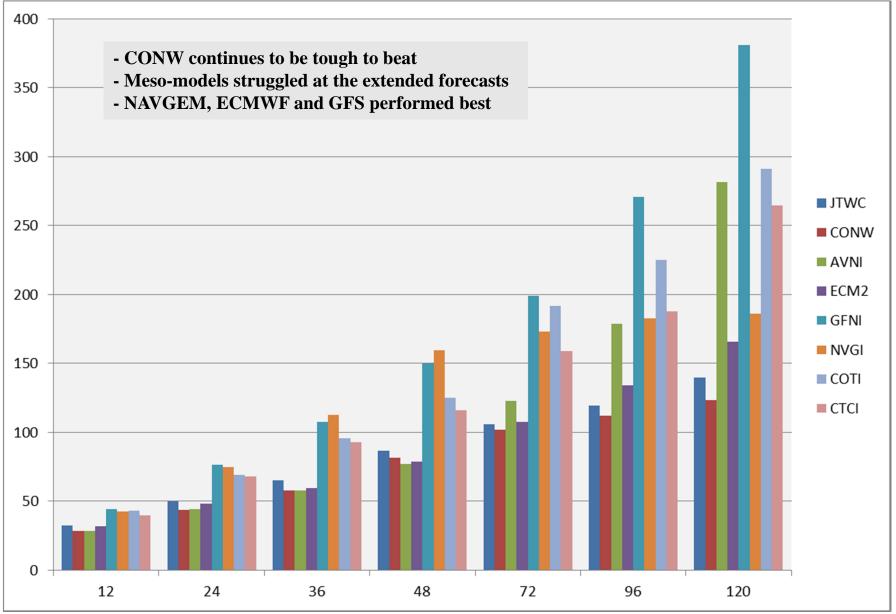




2013 MODEL TRACK ERRORS



(Southern Hemisphere – Homogeneous)

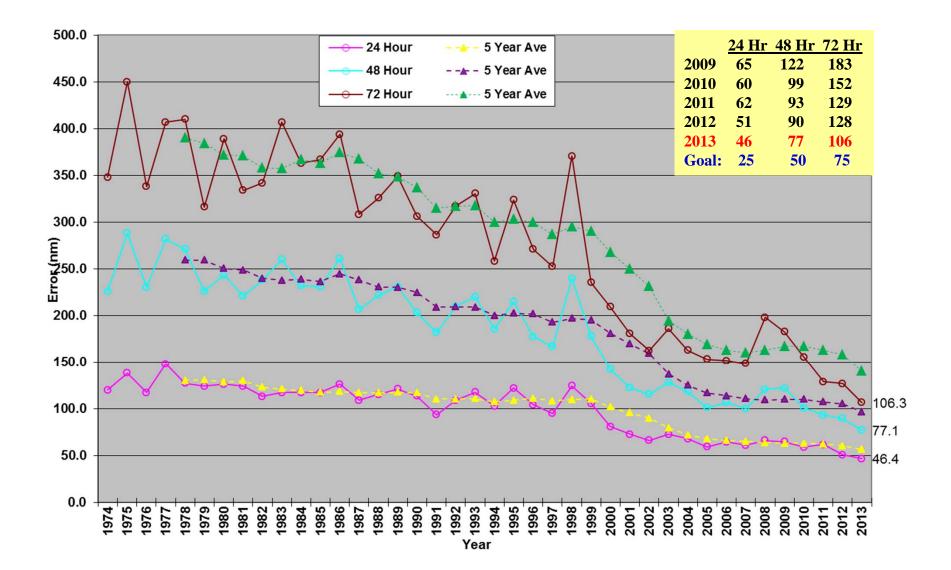




JTWC TRACK ERRORS

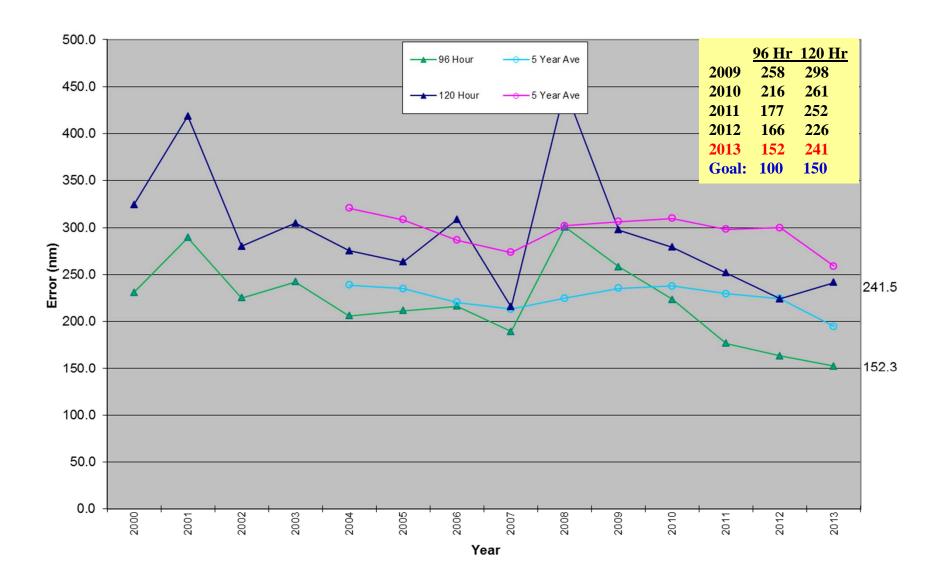


(Western North Pacific - 24-72 Hours)





JTWC TRACK ERRORS (WESTERN NORTH PACIFIC – 96-120 Hours)

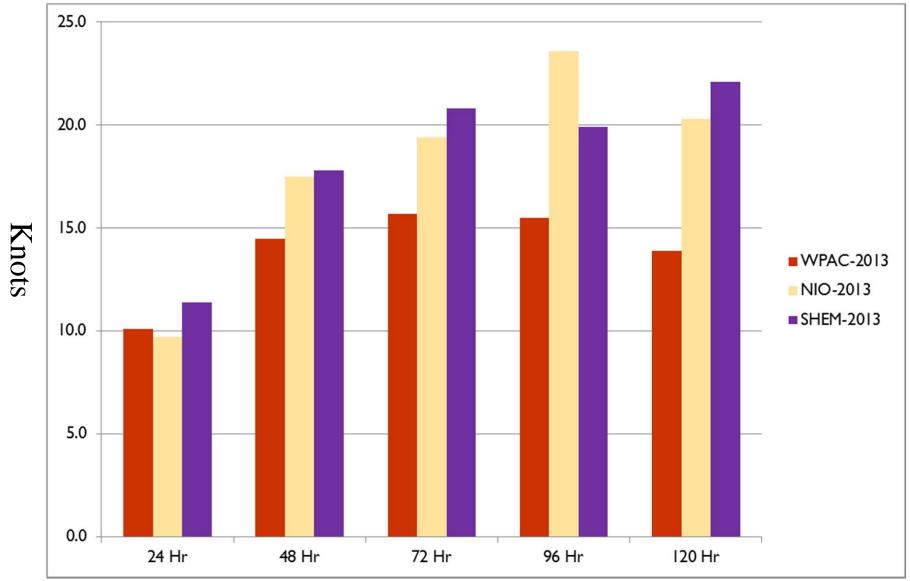






2013 JTWC INTENSITY ERRORS All Basins



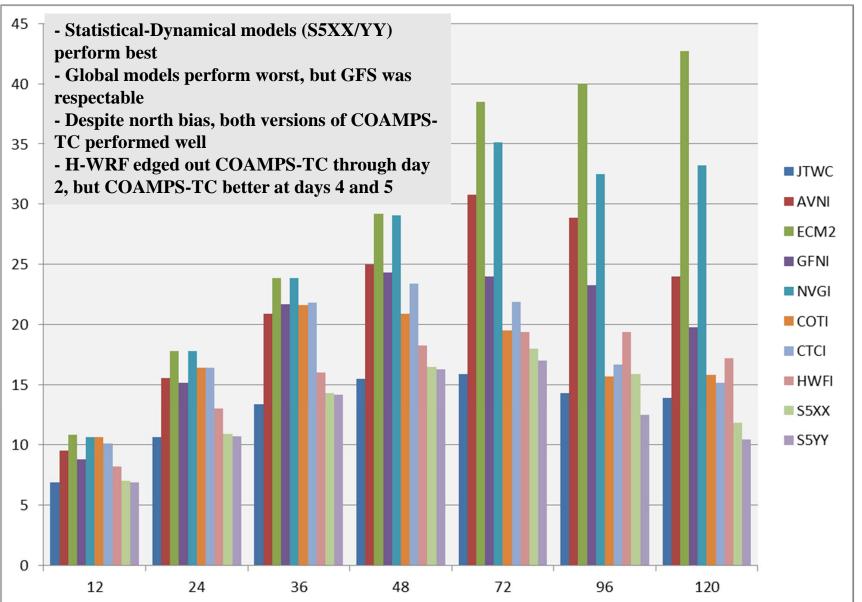




2013 MODEL INTENSITY ERRORS

(Western North Pacific – Homogeneous)



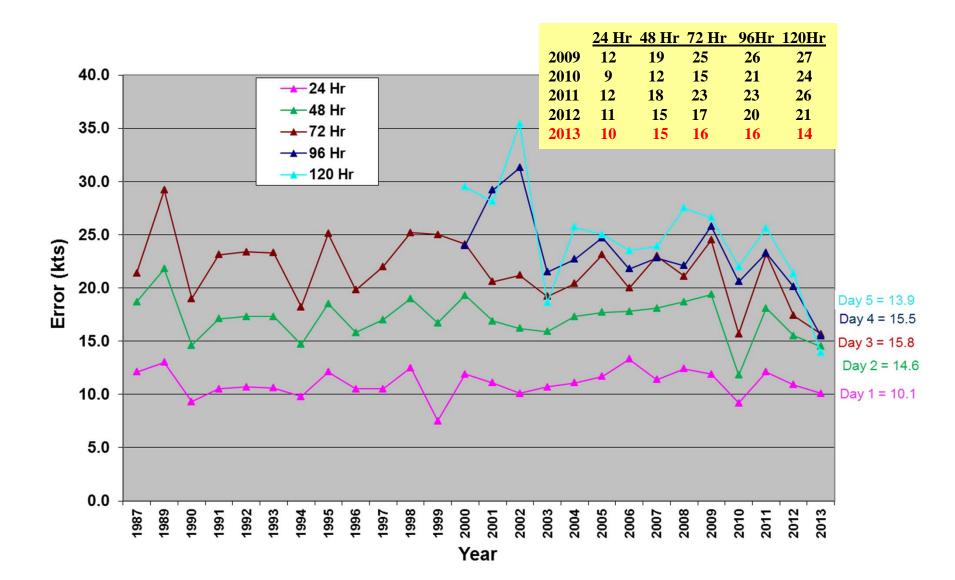




JTWC INTENSITY ERRORS



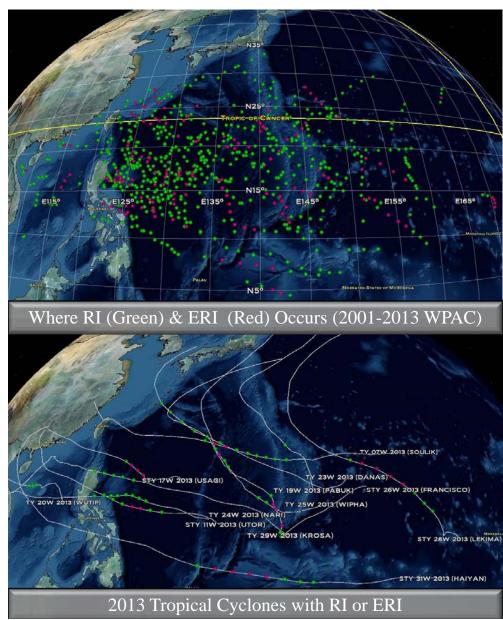
(Western North Pacific 24 - 120 Hours)





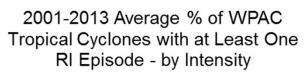
Rapid Intensification

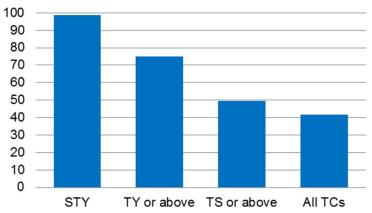




RI (≥30 kts/24 hrs) and ERI (≥ 50 kts/24 hrs) remains a intensity forecast challenge

- Widespread favorable conditions increase likelihood of RI/ERI in WPAC
- Over 40% of all TCs and 50% of TCs reaching TS strength or greater in WPAC experience RI
- RI handled poorly by models
- 12 TCs in 2013 with RI/ERI (6 in Oct!)







2013/4 PROJECTS/EVENTS



- Genesis or Development potential evaluation continues
- Ensemble TC forecasting evaluation continues
- ATCF Version 5.6 expected in April
- AWIPS-2 Stand-alone (ATOM) evaluation
- GFDN upgrades / coupling pushing to continue funding
- COAMPS-TC implemented at FNMOC NAVGEM as parent model
- COAMPS-TC running at NAVO GFS as parent model
- HFIP H-WRF runs expanded to cover entire JTWC AOR
- Global Hawk planned field campaign in WESTPAC in 2016/17
- JTWC Collaboration website moved to NDBC
 - https://pzal.ndbc.noaa.gov
- JTWC Public website planned move to NDBC



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QUESTIONS



