

Tropical Depression Rai - Estimated Impacts

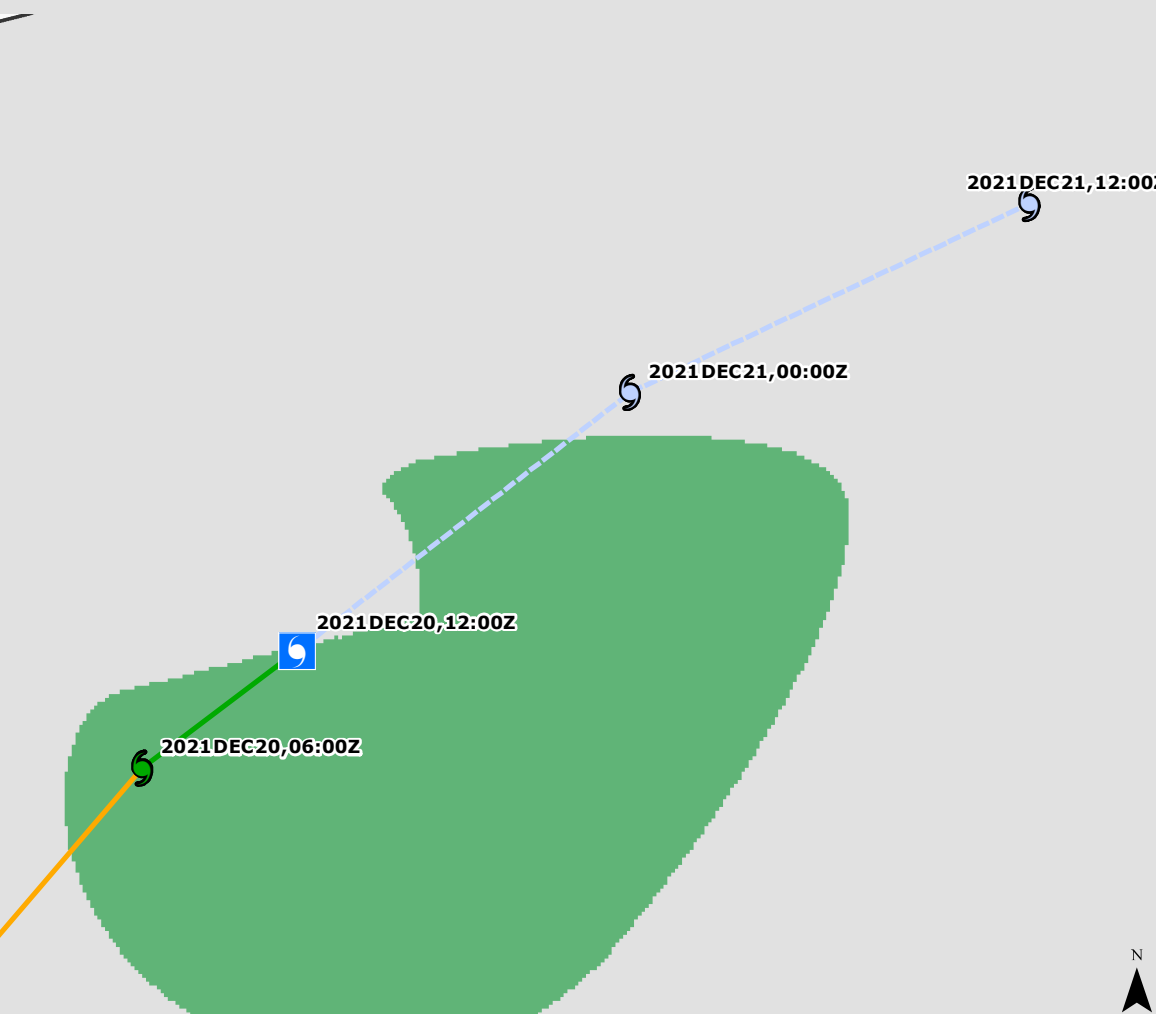
Warning 31, 20 December 2021 1500 UTC



PDC-28W-31A

JTWC Summary: TROPICAL DEPRESSION 28W (RAI), LOCATED APPROXIMATELY 231 NM SOUTH-SOUTHWEST OF HONG KONG, HAS TRACKED NORTHEASTWARD AT 08 KNOTS OVER THE PAST SIX HOURS. ANIMATED ENHANCED INFRARED (EIR) SATELLITE IMAGERY SHOWS THE SYSTEM CONTINUED TO RAPIDLY DETERIORATE AS THE CENTRAL CONVECTION HAS FURTHER COLLAPSED AND DISINTEGRATED AS IT IS NOW SHEARED 100+ NM NORTHEASTWARD OF A FULLY EXPOSED AND RAGGED LOW LEVEL CIRCULATION (LLC). THE INITIAL POSITION IS PLACED WITH HIGH CONFIDENCE BASED ON THE EXPOSED LLC. THE INITIAL INTENSITY IS EXTRAPOLATED WITH MEDIUM CONFIDENCE BASED ON A SERIES OF SCATTEROMETER DATA AND REFLECTS THE RAPID DETERIORATION. TD RAI IS IN A HIGHLY UNFAVORABLE ENVIRONMENT WITH STRONG (25+ KTS) RELATIVE VWS, COOL (25C) SSTs IN THE SOUTH CHINA SEA (SCS), AND COLD DRY AIR INTRUSION IN THE LOW LEVELS ASSOCIATED WITH THE NORTHEAST COLD SURGE IN THE SCS. THE SYSTEM IS EXPECTED TO DISSIPATE WITHIN 12 HOURS. THIS IS THE FINAL

Estimated Wind Impacts

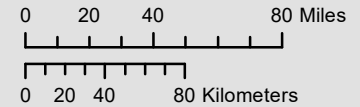


Tropical Cyclone Positions

- Hurricane/Typhoon >150 mph
- Hurricane/Typhoon > 74 mph
- Tropical Storm: 39-73 mph
- Tropical Depression: <39 mph
- Current Cyclone Position

Est Wind Impacts (TAOS)

- Small Trees Sway
- Large Trees Sway
- Branches Breaking
- Trees Down; some power loss
- Minor Damage; power out
- Moderate Damage 5% of value
- Widespread Damage
- Severe Damage
- Catastrophic Damage



Estimated Still Water Storm Surge



Estimated Tropical Cyclone Rainfall

