

Recommended Radar Interrogation Guidance for Potential of Tropical Cyclone Tornadoes

Range from Radar: < 40 nm	Range from Radar: 40-70 nm	Range from Radar: > 70 nm
<p style="text-align: center;"><u>Rotation Intensity</u></p> <p>Low-level $V_r \geq 20$ kts Contracting low-level diameter Low-level shear increasing to $\geq 0.01s^{-1}$</p> <p style="text-align: center;"><u>Convective Features</u></p> <p>Inflow notch or hook echo (appendage) feature</p> <p><i>(Identify at least one of the two following features)</i></p> <p>Horizontal Separation of Greater ZDR/KDP Values Mesocyclonic VES with enhanced radial velocity values of ≈ 30 kts or greater</p>	<p style="text-align: center;"><u>Rotation Intensity</u></p> <p>0.5° Tilt $V_r \geq 15$ kts Contracting diameter at the 0.5° tilt</p> <p style="text-align: center;"><u>Convective Features</u></p> <p><i>(Identify at least one of the two following features)</i></p> <p>Horizontal Separation of Greater ZDR/KDP Values Mesocyclonic VES with enhanced radial velocity values of ≈ 30 kts or greater</p> <div style="border: 1px solid red; padding: 5px; text-align: center; color: red;"> <p><i>Inflow notches, hook features could add confidence but not viable discriminators</i></p> </div>	<p style="text-align: center;"><u>Rotation Intensity</u></p> <p>0.5° Tilt $V_r \geq 12$ kts</p> <p style="text-align: center;"><u>Notes About the Guidance:</u></p> <p>Consider some of the following challenges when applying this guidance:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Range folding <input type="checkbox"/> Cone of silence <input type="checkbox"/> Distance from radar <p>Use your best judgment when applying this guidance, and remember that no guidance is perfect.</p> <p><u>Goal:</u> Reduce FAR</p>