

**DWR MACHILIPATNAM CYCLONE BULLETIN**

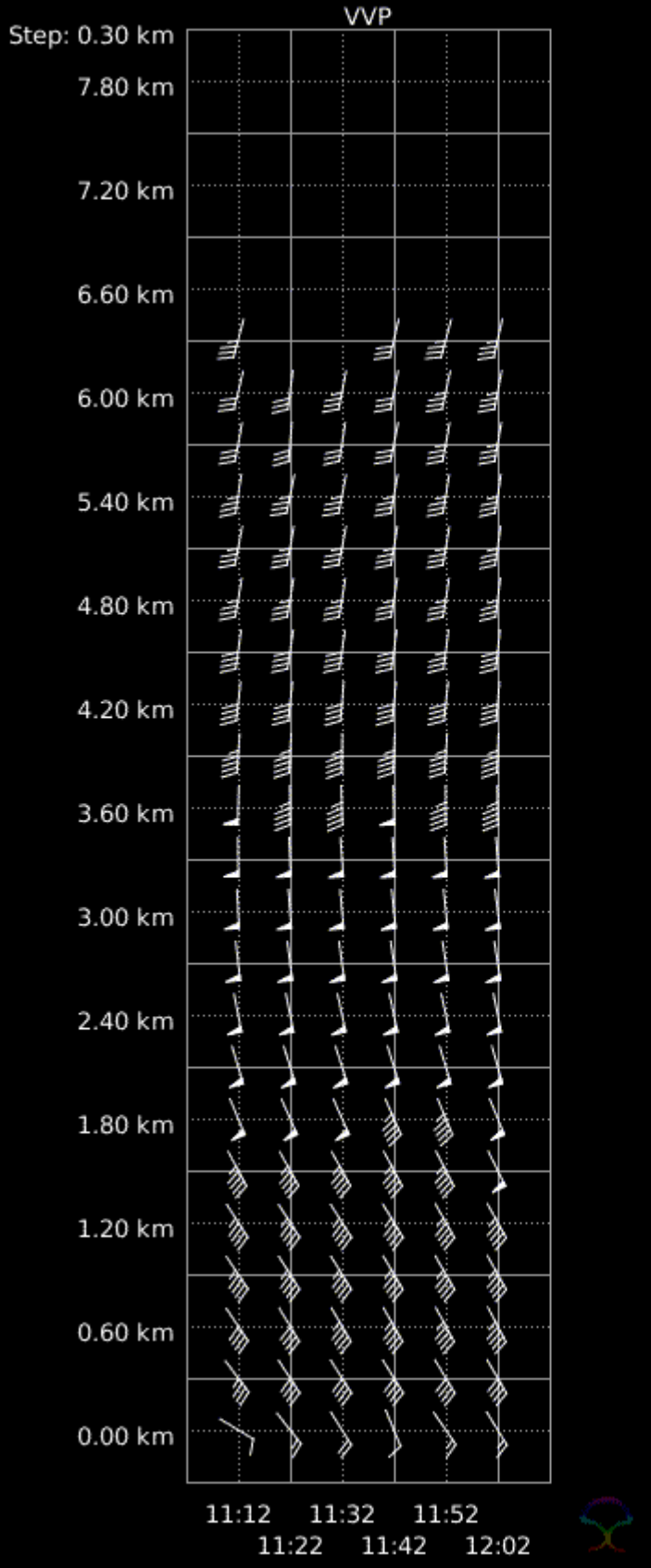
**CYCLONE BULLETIN NO: 22**

**MICHAUNG  
CYCLONE**

**TIME: 05/12/2023 1730IST**

<b>1.</b>	<b>Name of the station</b>	<b>DWR MACHILIPATNAM</b>
<b>2.</b>	<b>Date and Time of Observation (UTC)</b>	<b>12:00 UTC</b>
<b>3.</b>	<b>Name of the Cyclone</b>	<b>MICHAUNG</b>
<b>4.</b>	<b>Information about the eye of the Cyclone</b>	
	<b>a. Is the Eye Visible</b>	<b>NO</b>
	<b>b. Shape of the Eye</b>	<b>--</b>
	<b>c. Diameter of the Eye(km)</b>	<b>---</b>
	<b>d. Estimation of centre of the cyclone based on Eye/spiral band observation</b>	<b>16.038°N, 80.227°E</b>
	<b>e. Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)</b>	<b>2.18 Km</b>
	<b>f. Maximum radar reflectivity (dBZ) &amp; rainfall rate (mm/h) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)</b>	<b>30.0 dBZ 2.30 Km (272.2 deg, 100 km)</b>
	<b>g. Maximum reflectivity at any other area (spiral/ streamers etc)</b>	<b>43.50 dBZ 3.8 km (64.2 deg, 109.4 km)</b>
	<b>h. Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)</b>	<b>12.58 mps 1.35 kms (270.3 deg, 123.4 km)</b>
	<b>i. Maximum velocity in any other area (spiral / streamers / rain shields etc)</b>	<b>25.17 mps 0.65 km (304.9 deg, 78.1 km)</b>
<b>5.</b>	<b>Tendency of the Cyclone</b>	
	<b>a. Intensity(Increasing/Decreasing)</b>	<b>Decreasing</b>
	<b>b. Duration for which the information on movement pertains to</b>	<b>Last one Hour</b>
	<b>c. Direction of Movement</b>	<b>N</b>
	<b>d. Estimated speed of Movement</b>	<b>20 kmph</b>
<b>6.</b>	<b>Any other Significant Feature</b>	<b>---</b>
<b>7.</b>	<b>Confidence</b>	<b>FAIR</b>

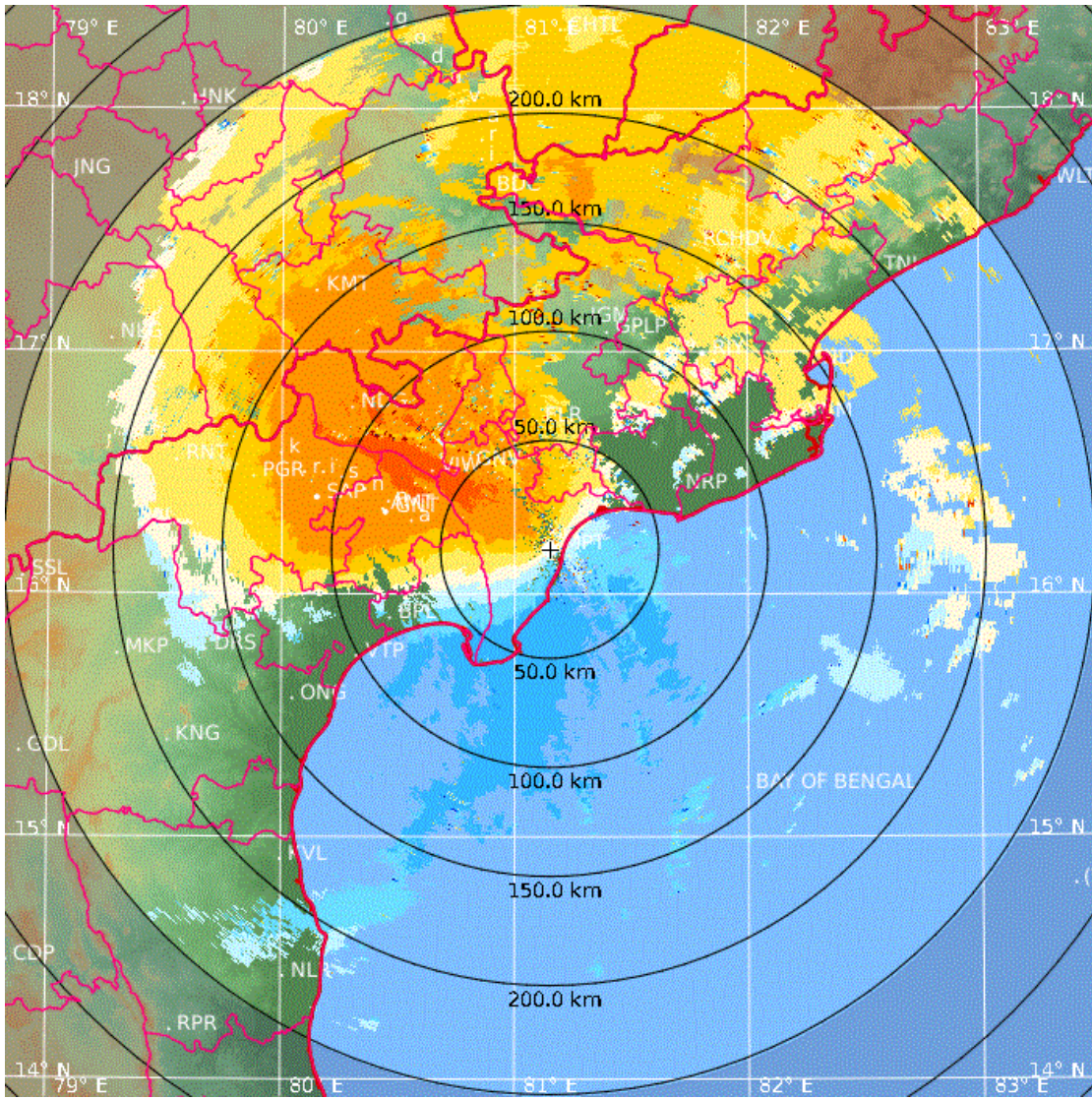
**S. PRAYEK  
OFFICER IN CHARGE  
DWR MACHILIPATNAM**



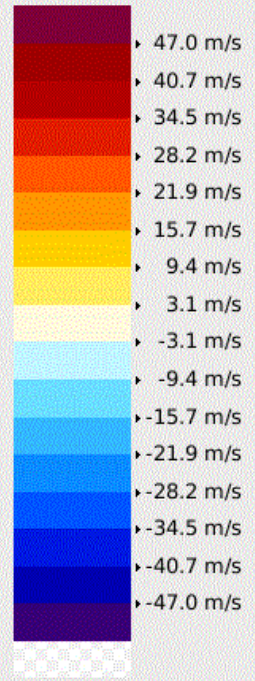
VVP (V)  
12:02 / 05-Dec-2023  
Machilipatnam

Pdf File: 30.vvp  
Range: 0 km to 30 km  
Clutter Filter: IIRDoppler 8  
Time sampling:48  
PRF: 600 Hz / 450 Hz  
Alg type: Complete  
Elevation: 0.2 deg to 16.0 deg  
Second reg: On

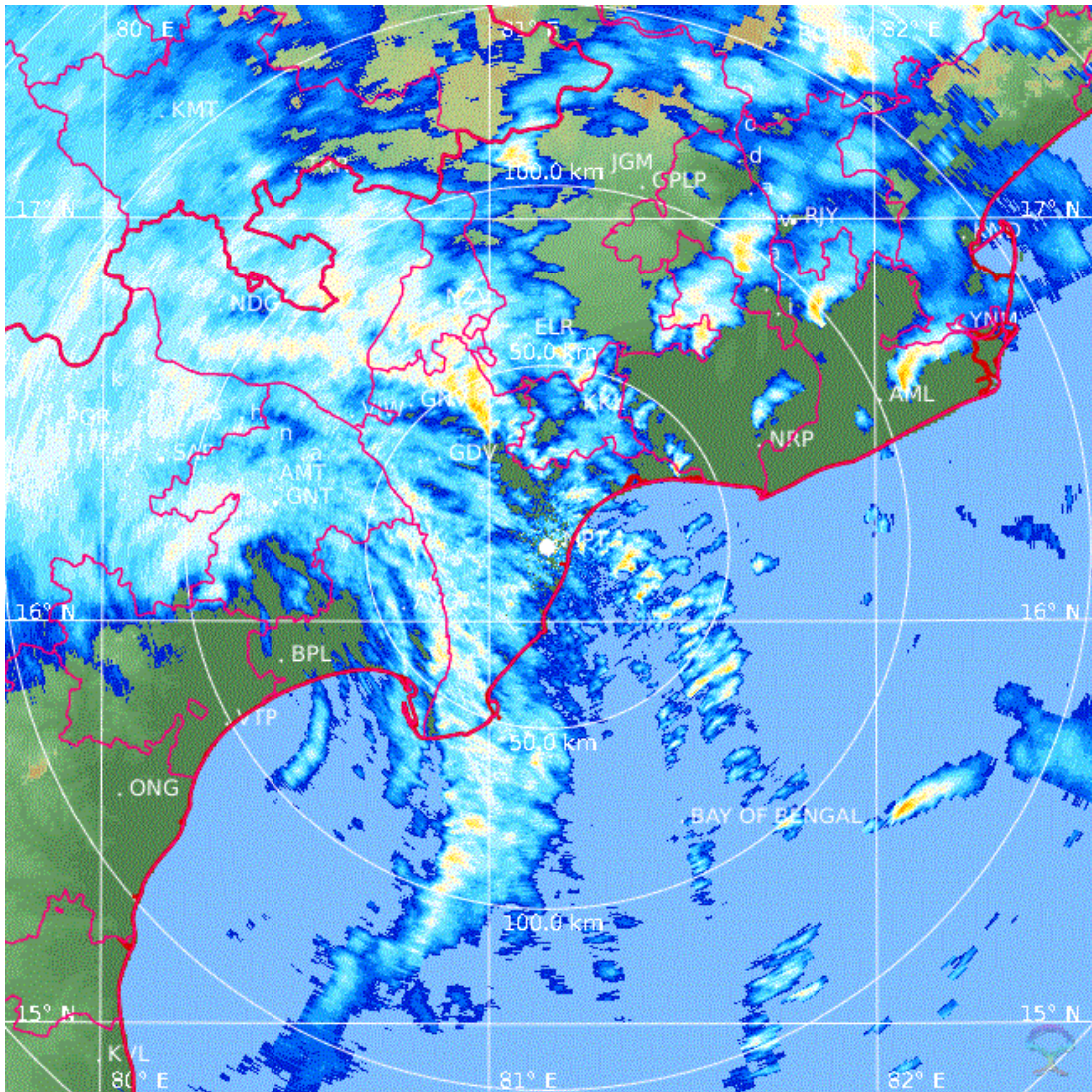
Rainbow® SELEX-SI



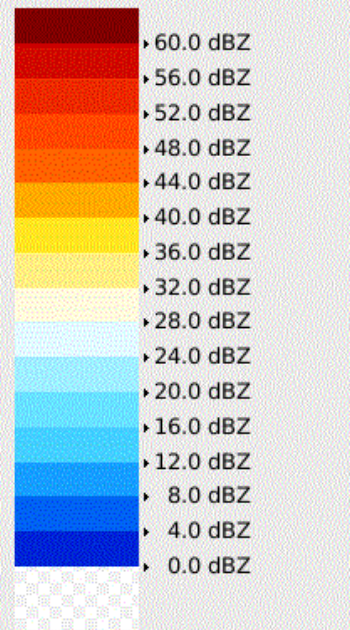
PPI (V)  
 12:02 / 05-Dec-2023  
 Machilipatnam



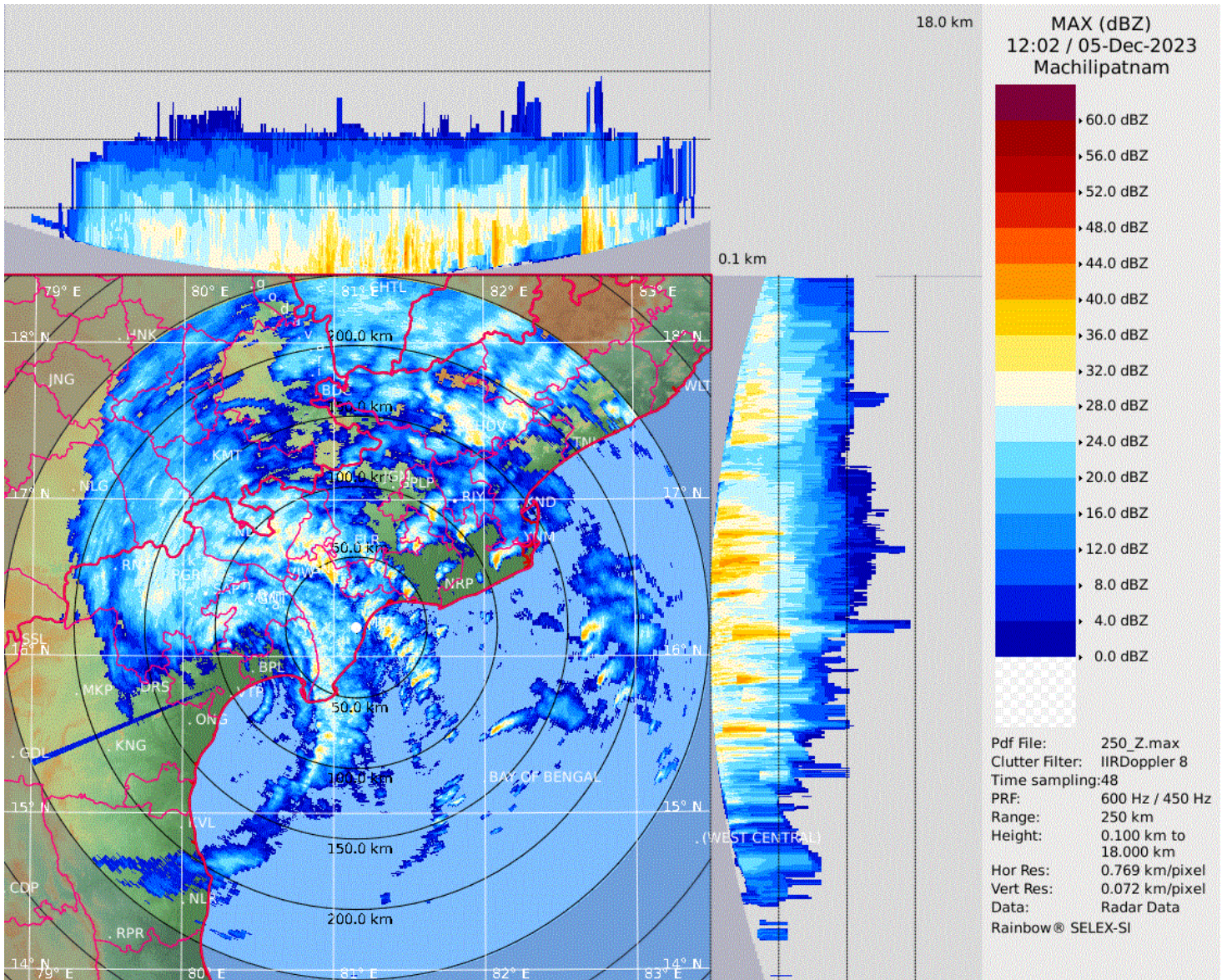
Pdf File: 250\_PPV.ppi  
 Clutter Filter: IIRDoppler 8  
 Time sampling: 48  
 PRF: 600 Hz / 450 Hz  
 Range: 250 km  
 Resolution: 0.714 km/pixel  
 Elevation: 0.2 deg  
 Data: Radar Data  
 Rainbow® SELEX-SI

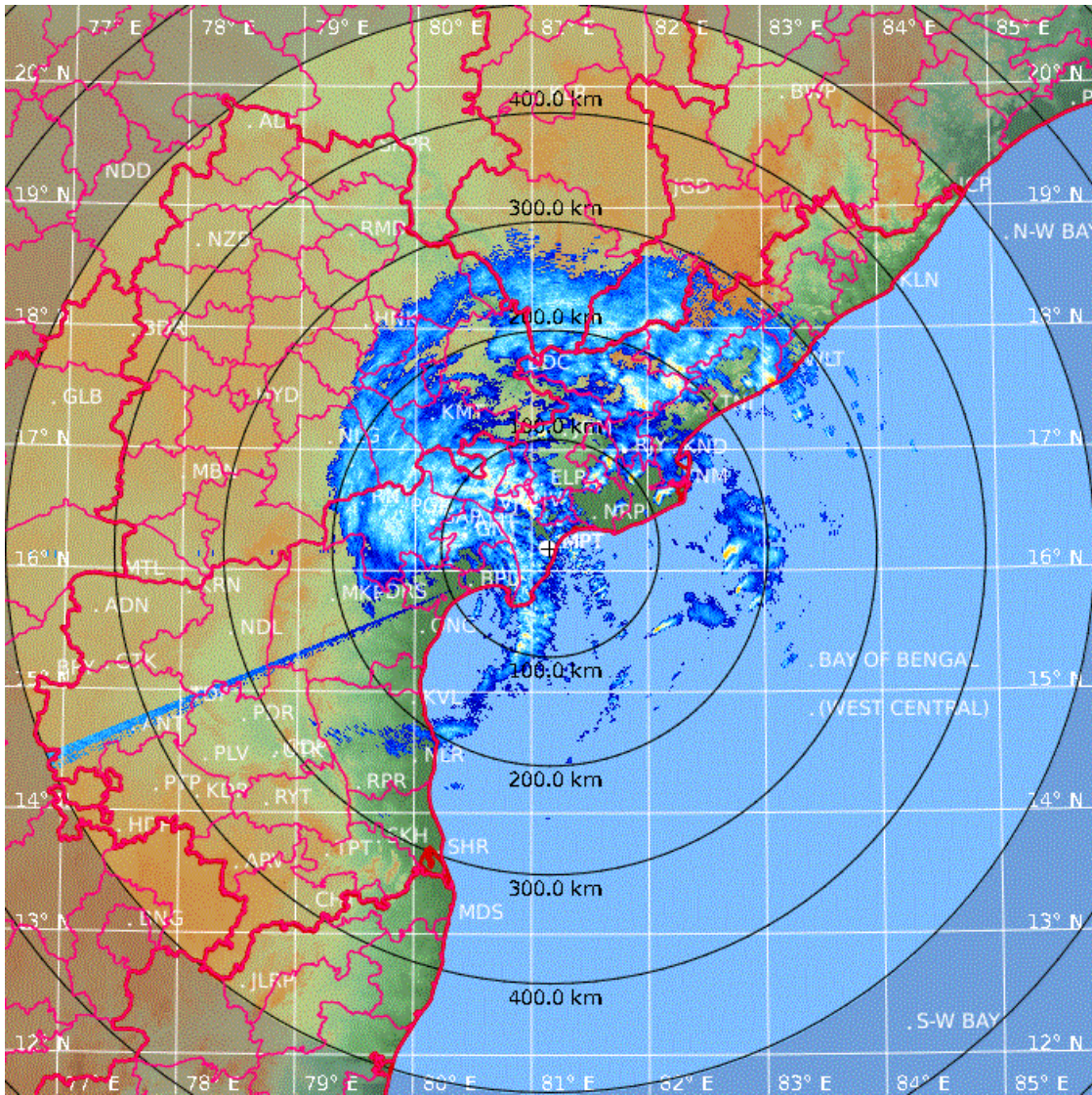


**PPI (dBZ)**  
**12:02 / 05-Dec-2023**  
**Machilipatnam**

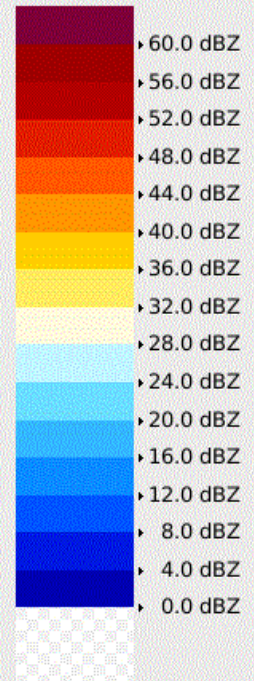


Pdf File: 150\_PPZ.ppi  
 Clutter Filter: IIRDoppler 8  
 Time sampling: 48  
 PRF: 600 Hz / 450 Hz  
 Range: 150 km  
 Resolution: 0.462 km/pixel  
 Elevation: 0.2 deg  
 Data: Radar Data  
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**PPI (dBZ)**  
**12:00 / 05-Dec-2023**  
**Machilipatnam**



Pdf File: 500\_PPZ.ppi  
 Clutter Filter: IIRDoppler 10  
 Time sampling: 25  
 PRF: 300 Hz  
 Range: 500 km  
 Resolution: 1.429 km/pixel  
 Elevation: 0.2 deg  
 Data: Radar Data  
 Rainbow® SELEX-SI

