

DWR MACHILIPATNAM CYCLONE BULLETIN

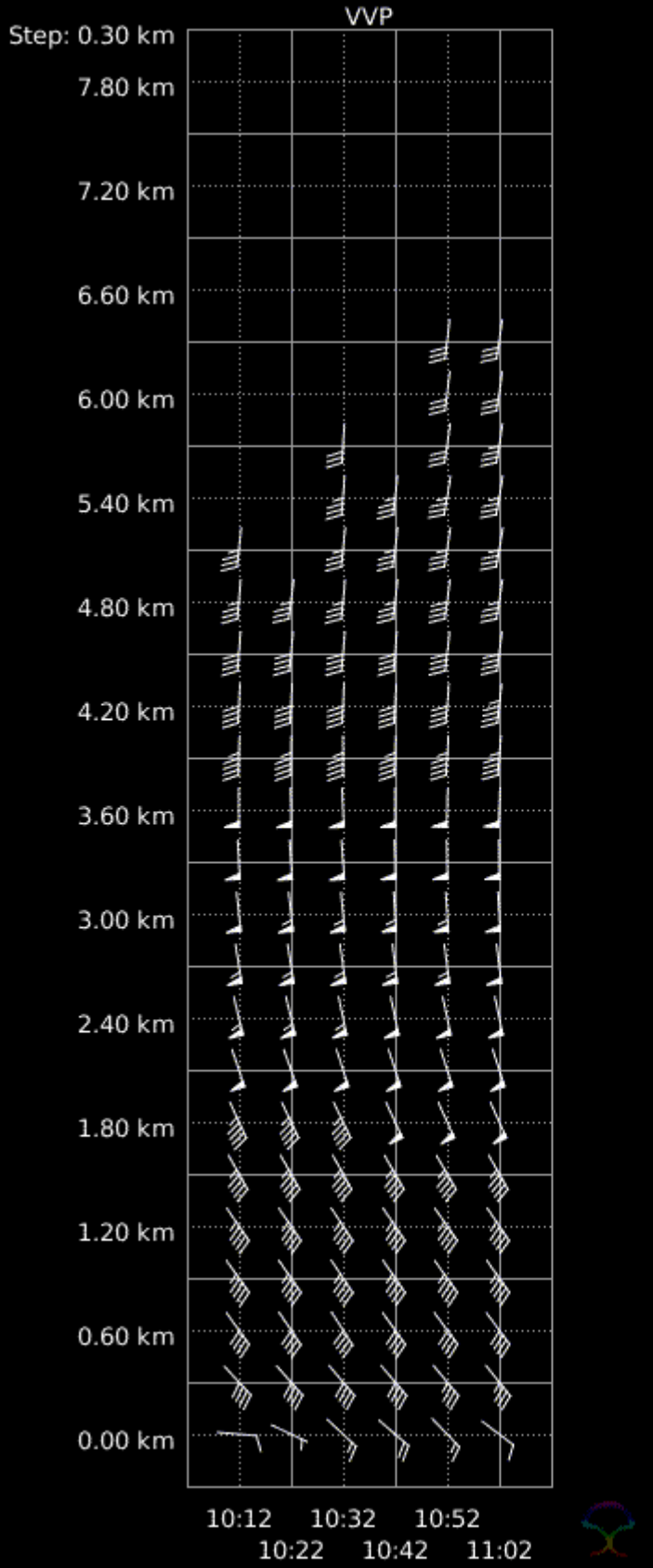
CYCLONE BULLETIN NO: 21

MICHAUNG  
CYCLONE

TIME: 05/12/2023 1630IST

1.	Name of the station	DWR MACHILIPATNAM
2.	Date and Time of Observation (UTC)	11:00 UTC
3.	Name of the Cyclone	MICHAUNG
4.	Information about the eye of the Cyclone	
	a. Is the Eye Visible	NOT CLEAR
	b. Shape of the Eye	Open EYE
	c. Diameter of the Eye(km)	---
	d. Estimation of centre of the cyclone based on Eye/spiral band observation	15.858°N, 80.220°E
	e. Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)	5.3 Km
	f. Maximum radar reflectivity (dBZ) & rainfall rate (mm/h) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)	31.00 dBZ 3.11 Km (283.4 deg, 110.5 km)
	g. Maximum reflectivity at any other area (spiral/ streamers etc)	45.00 dBZ 7.7 km (72.2 deg, 62.0 km)
	h. Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)	12.58 mps 1.32 kms (262.6 deg, 122.2 km)
	i. Maximum velocity in any other area (spiral / streamers / rain shields etc)	26.28 mps 0.64 km (292.5 deg, 77.1 km)
5.	Tendency of the Cyclone	
	a. Intensity(Increasing/Decreasing)	Decreasing
	b. Duration for which the information on movement pertains to	Last one Hour
	c. Direction of Movement	NE
	d. Estimated speed of Movement	06 kmph
6.	Any other Significant Feature	---
7.	Confidence	FAIR

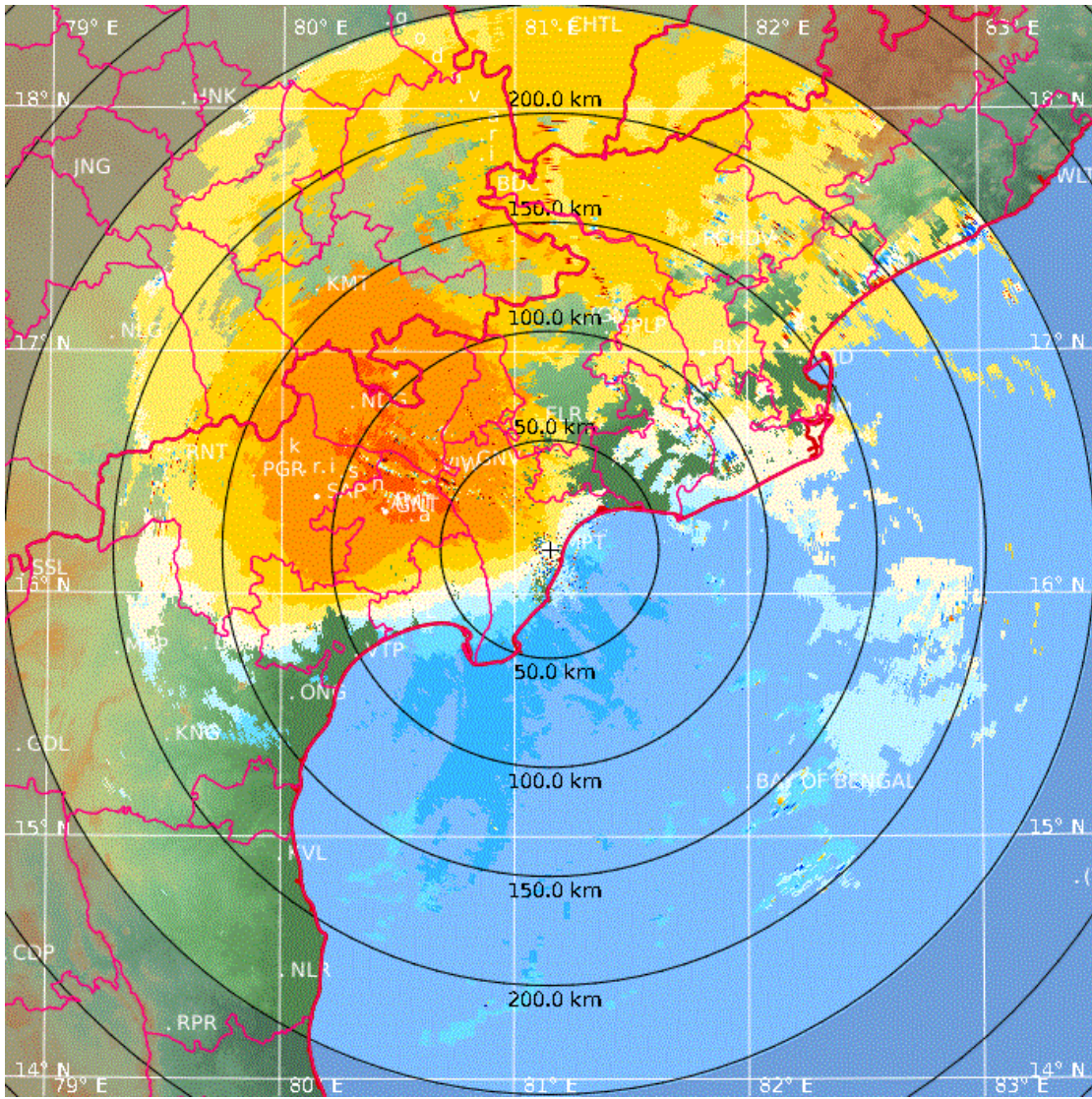
S. PRAYEK  
OFFICER IN CHARGE  
DWR MACHILIPATNAM



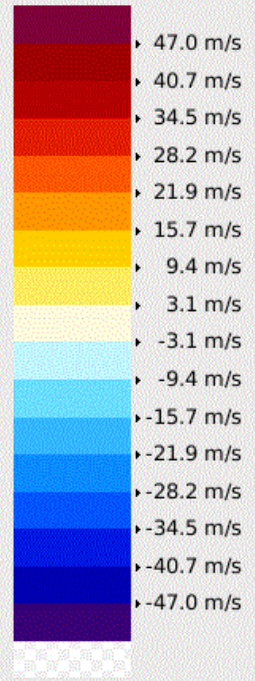
VVP (V)  
11:02 / 05-Dec-2023  
Machilipatnam

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

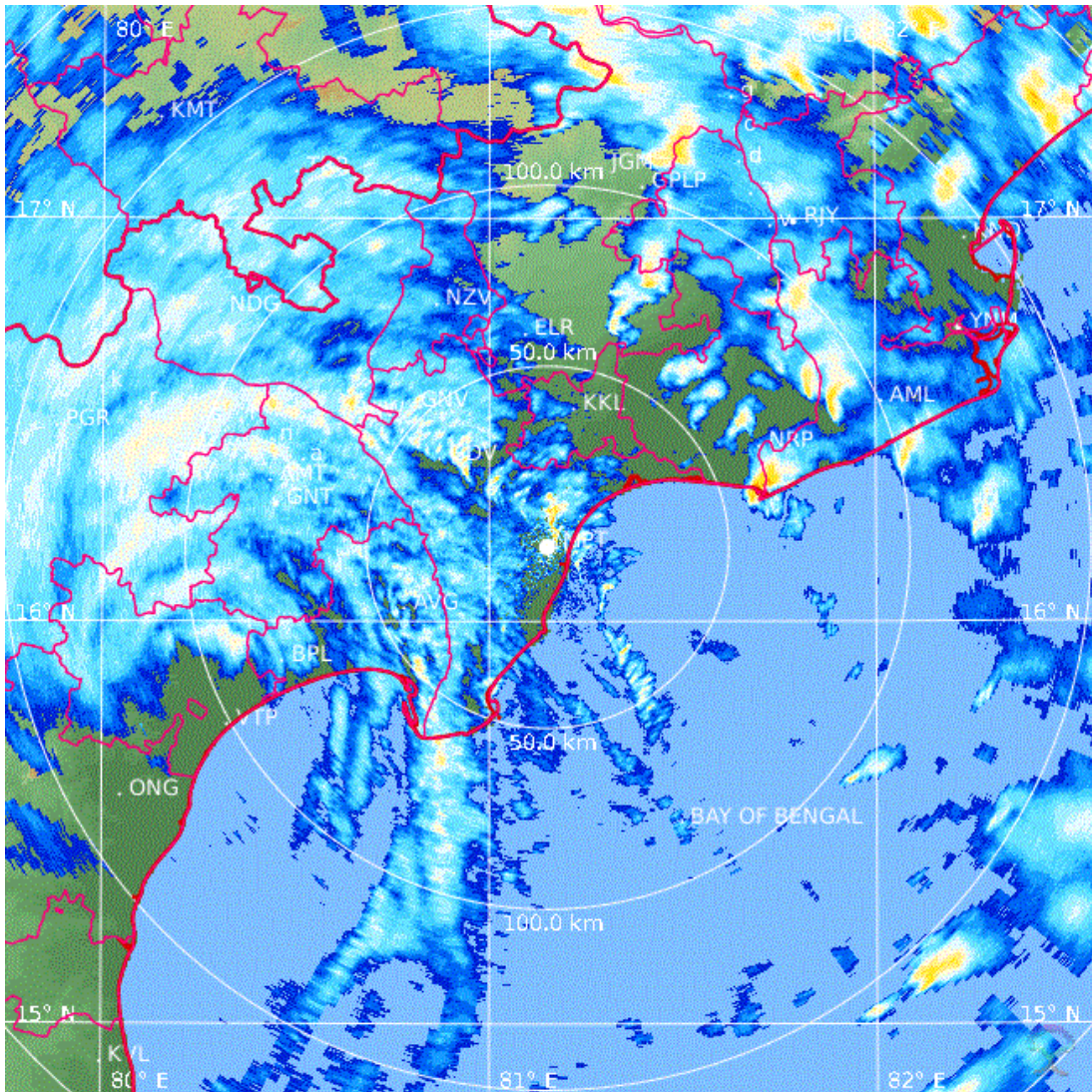
Rainbow® SELEX-SI



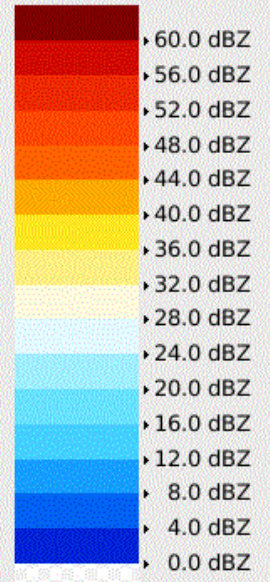
PPI (V)  
11:02 / 05-Dec-2023  
Machilipatnam



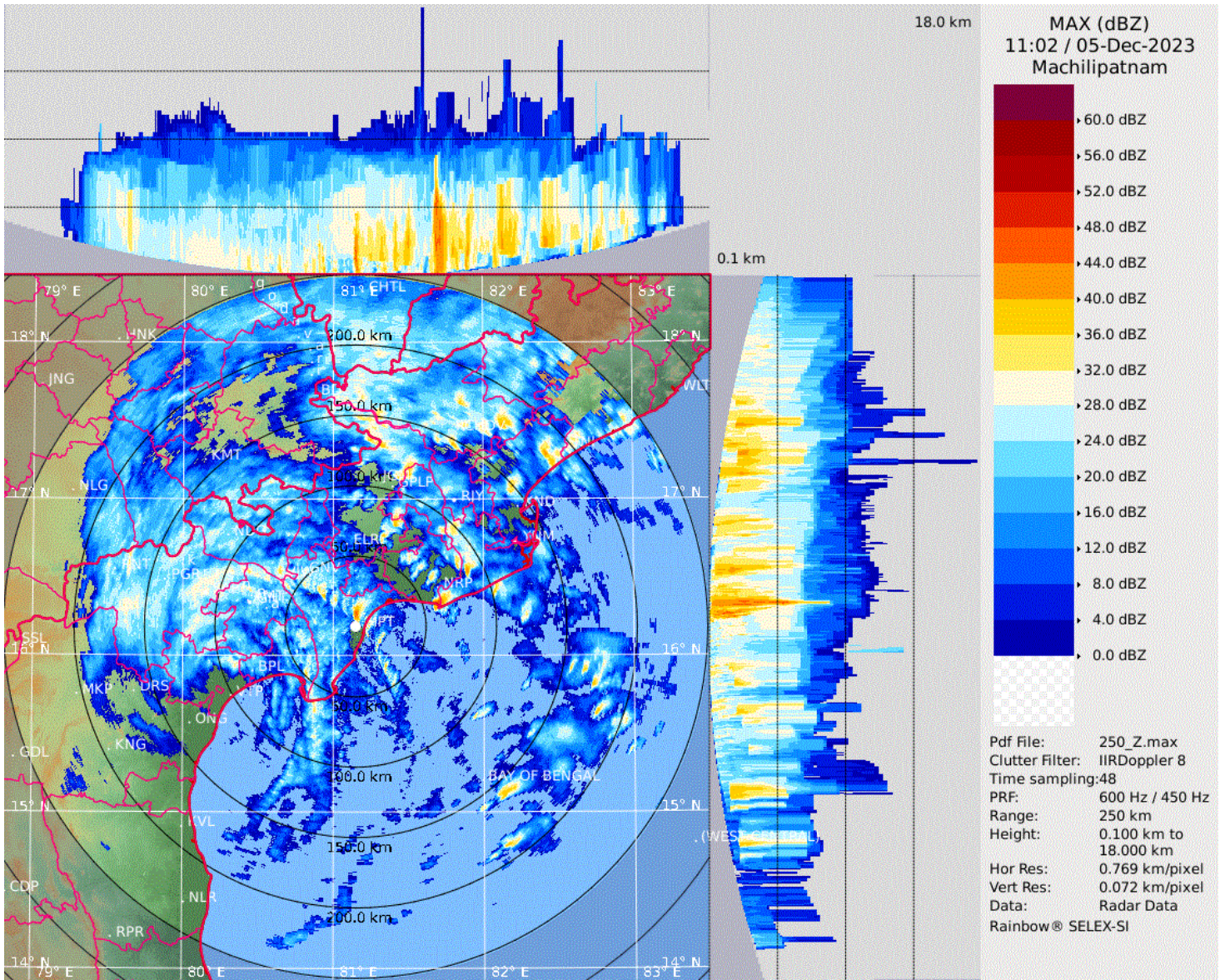
Pdf File: 250\_PPV.ppi  
 Clutter Filter: IIRDoppler 8  
 Time sampling: 48  
 PRF: 600 Hz / 450 Hz  
 Range: 250 km  
 Resolution: 0.714 km/pixel  
 Elevation: 0.2 deg  
 Data: Radar Data  
 Rainbow® SELEX-SI

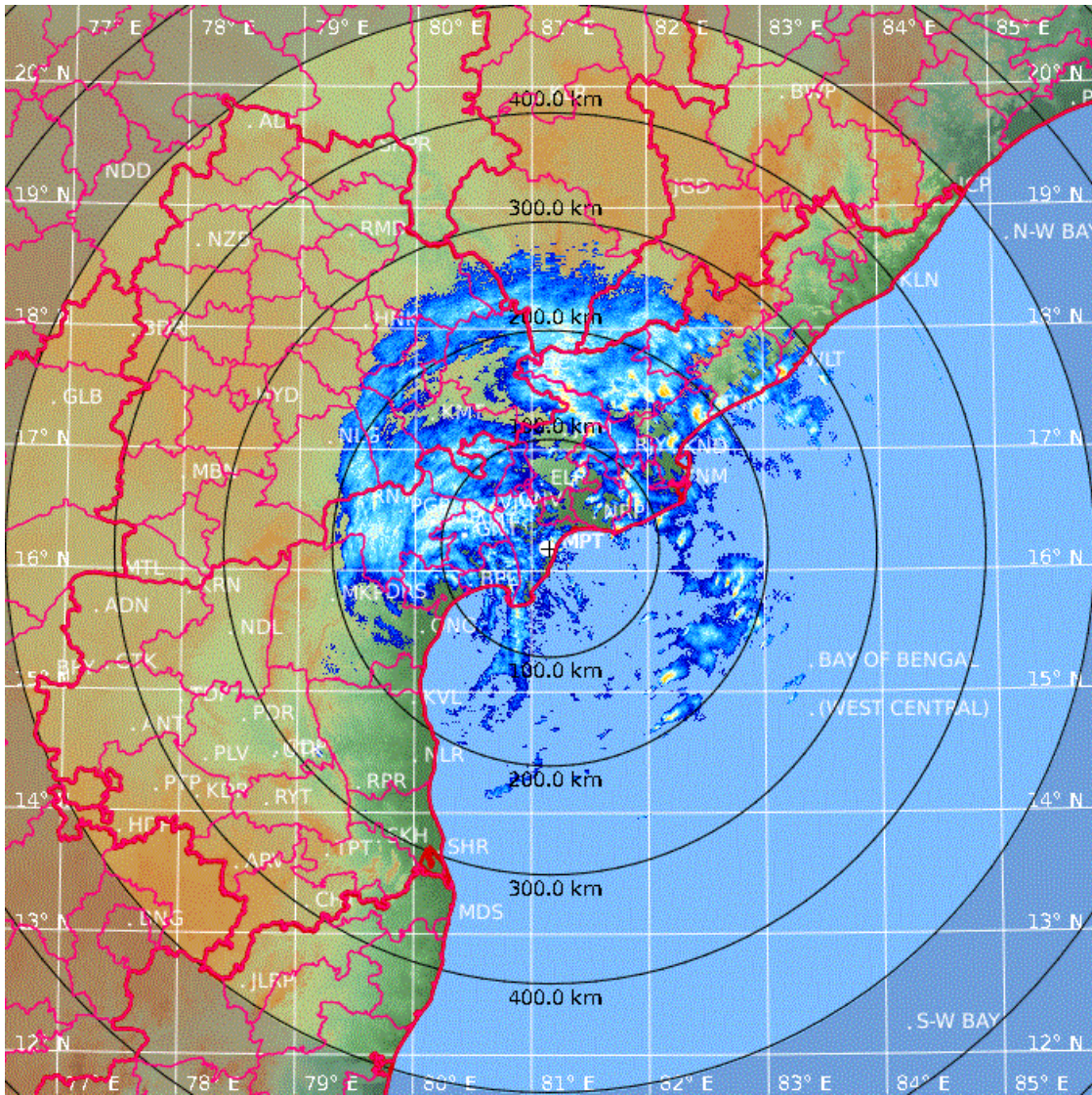


**PPI (dBZ)**  
**11:02 / 05-Dec-2023**  
**Machilipatnam**

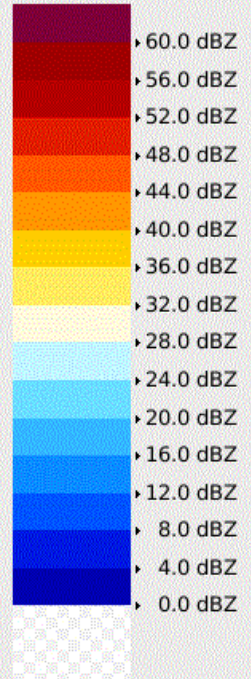


Pdf File: 150\_PPZ.ppi  
 Clutter Filter: IIRDoppler 8  
 Time sampling: 48  
 PRF: 600 Hz / 450 Hz  
 Range: 150 km  
 Resolution: 0.462 km/pixel  
 Elevation: 0.2 deg  
 Data: Radar Data  
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**PPI (dBZ)**  
**11:00 / 05-Dec-2023**  
**Machilipatnam**



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  
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