

DWR MACHILIPATNAM CYCLONE BULLETIN

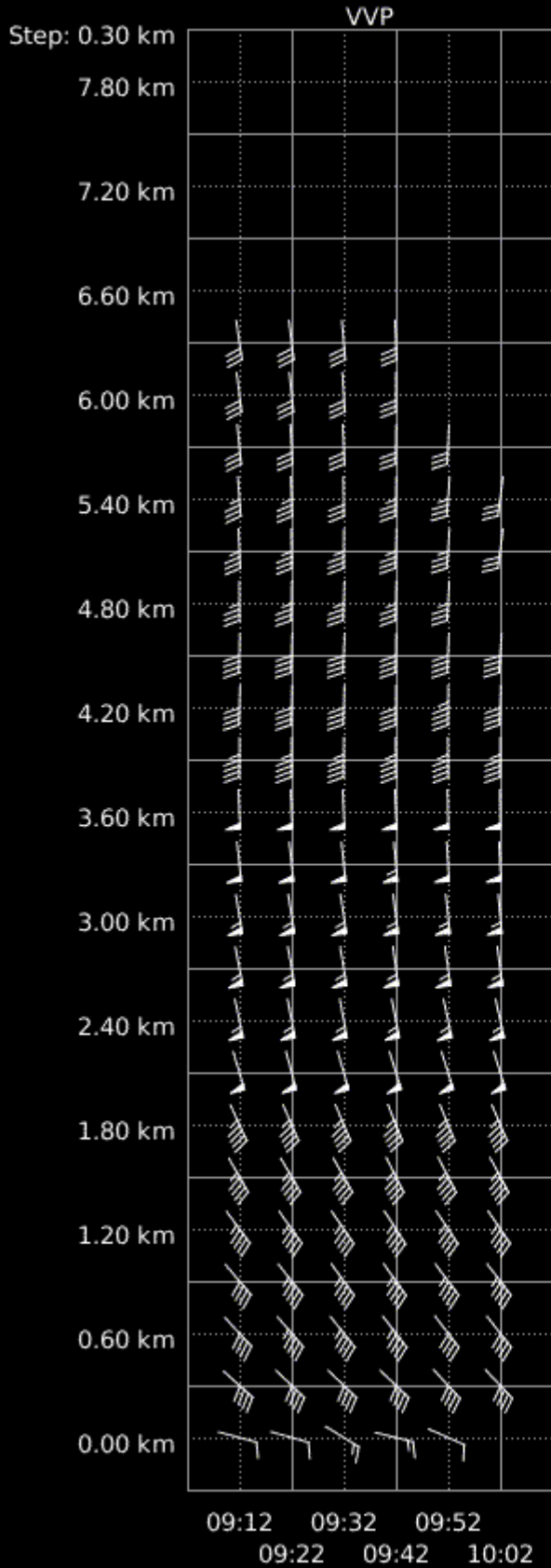
CYCLONE BULLETIN NO: 20

**MICHAUNG
CYCLONE**

TIME: 05/12/2023 1530IST

1.	Name of the station	DWR MACHILIPATNAM
2.	Date and Time of Observation (UTC)	10:00 UTC
3.	Name of the Cyclone	MICHAUNG
4.	Information about the eye of the Cyclone	
	a. Is the Eye Visible	Yes
	b. Shape of the Eye	Open
	c. Diameter of the Eye(km)	---
	d. Estimation of centre of the cyclone based on Eye/spiral band observation	15.816°N, 80.177°E
	e. Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)	5.7 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)	34.50 dBZ 1.3 Km (259.6 deg, 120.1 km)
	g. Maximum reflectivity at any other area (spiral/ streamers etc)	45.50 dBZ 3.11 km (116.8 deg, 78.0 km)
	h. Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)	17.02 mps 1.1 kms (259.4 deg, 109.4 km)
	i. Maximum velocity in any other area (spiral / streamers / rain shields etc)	46.26 mps 0.65 km (289.4 deg, 77.8 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	18 kmph
6.	Any other Significant Feature	---
7.	Confidence	FAIR

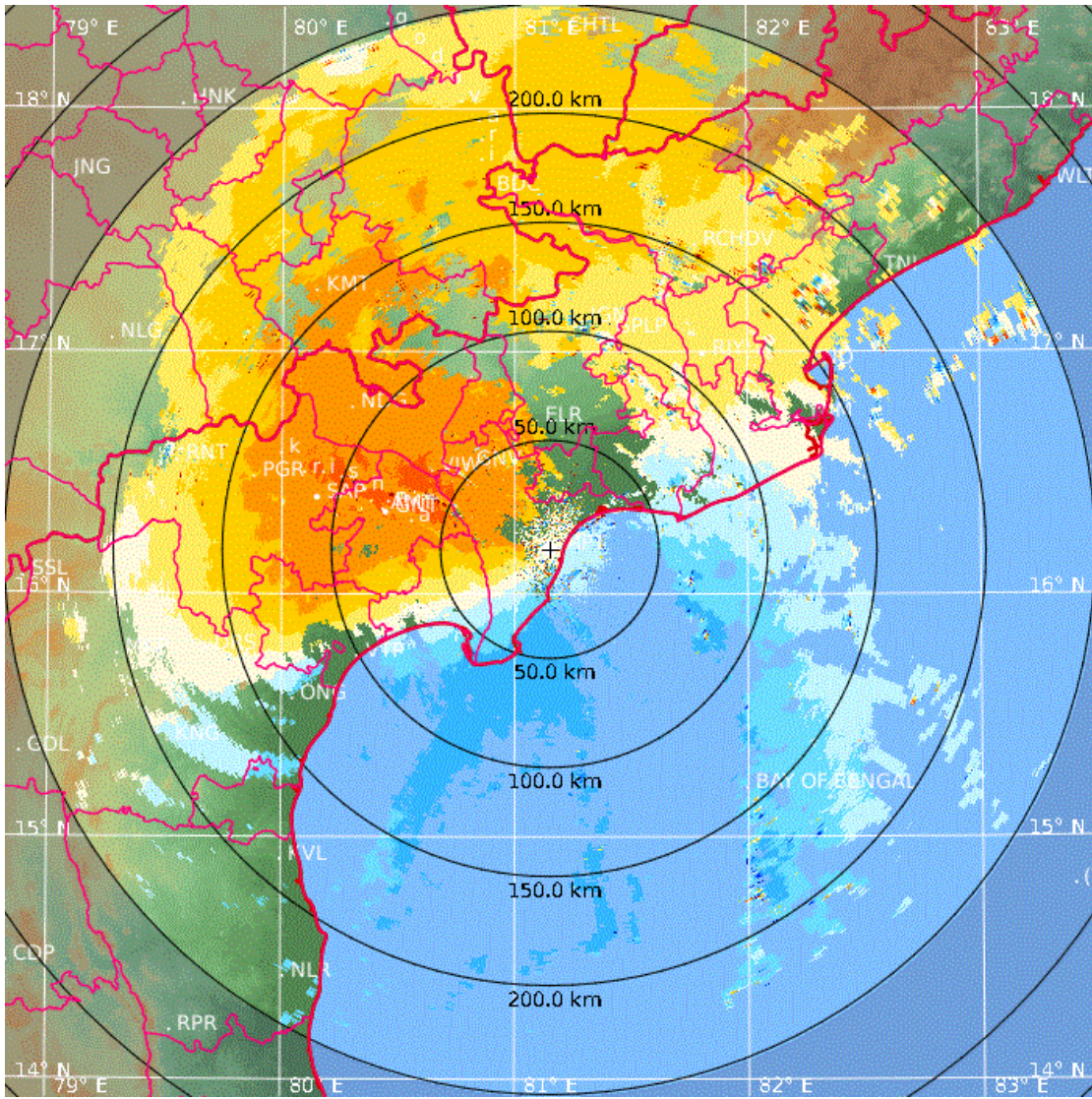
**S. PRAYEK
OFFICER IN CHARGE
DWR MACHILIPATNAM**



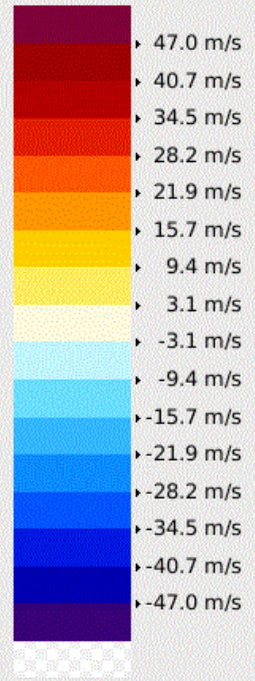
VVP (V)
10:02 / 05-Dec-2023
Machilipatnam

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

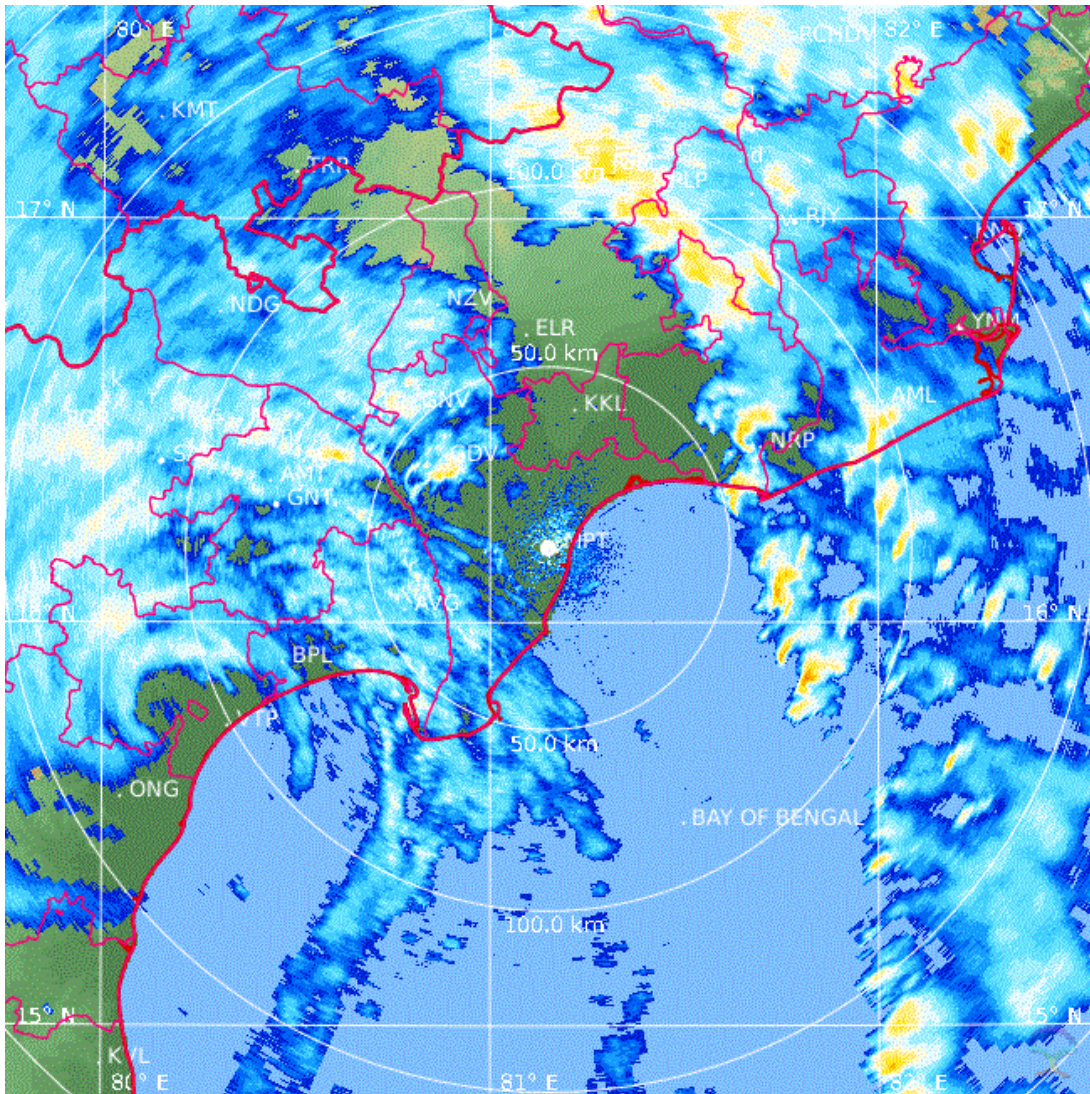
Rainbow® SELEX-SI



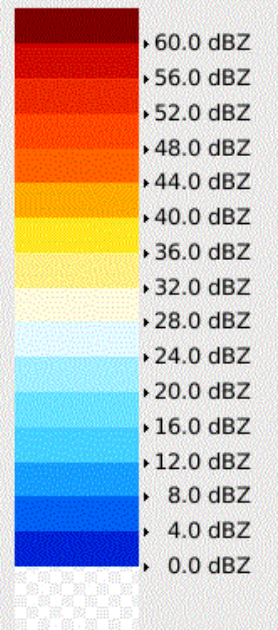
PPI (V)
10:02 / 05-Dec-2023
Machilipatnam



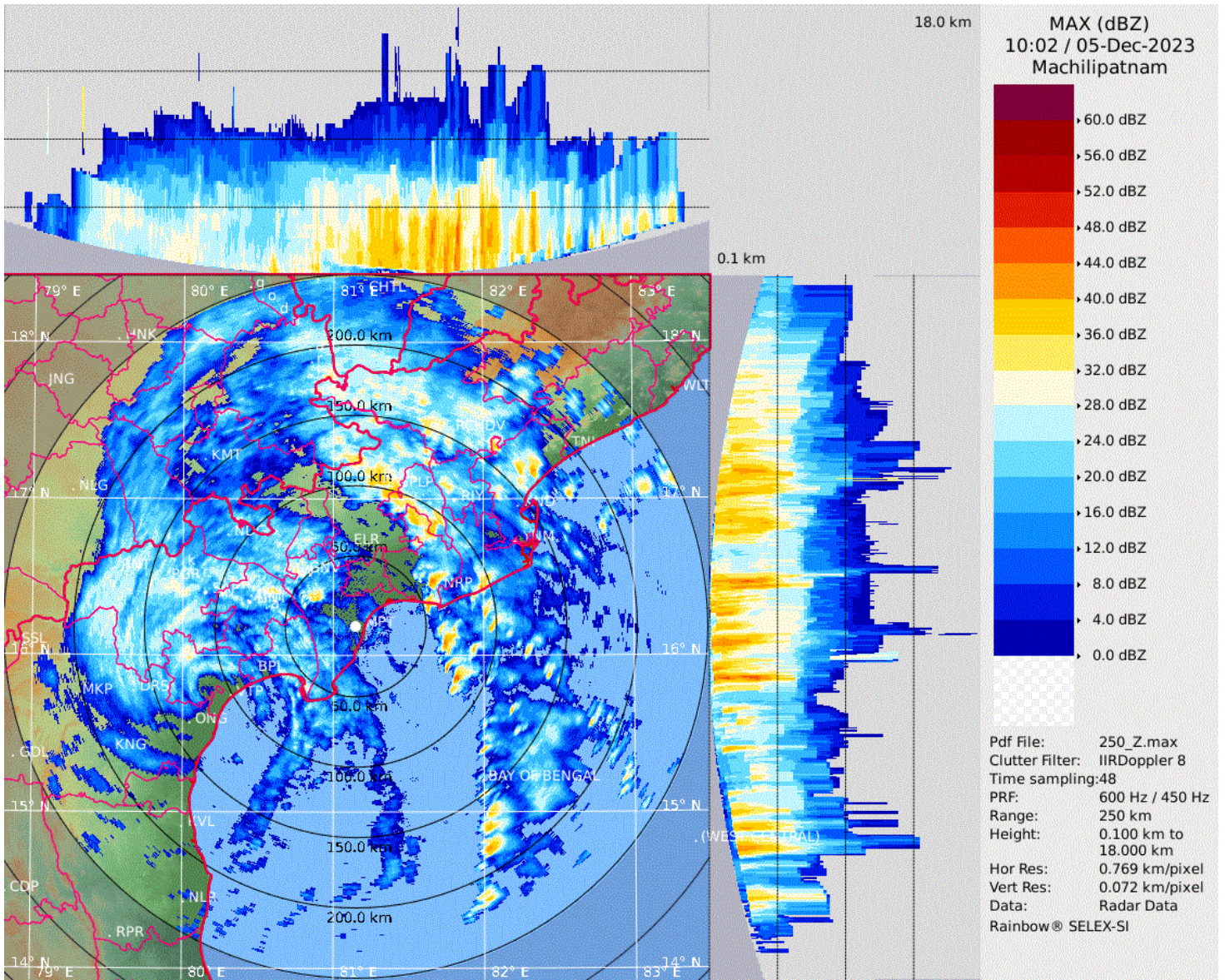
Pdf File: 250_PPV.ppi
 Clutter Filter: IIRDoppler 8
 Time sampling: 48
 PRF: 600 Hz / 450 Hz
 Range: 250 km
 Resolution: 0.714 km/pixel
 Elevation: 0.2 deg
 Data: Radar Data
 Rainbow® SELEX-SI

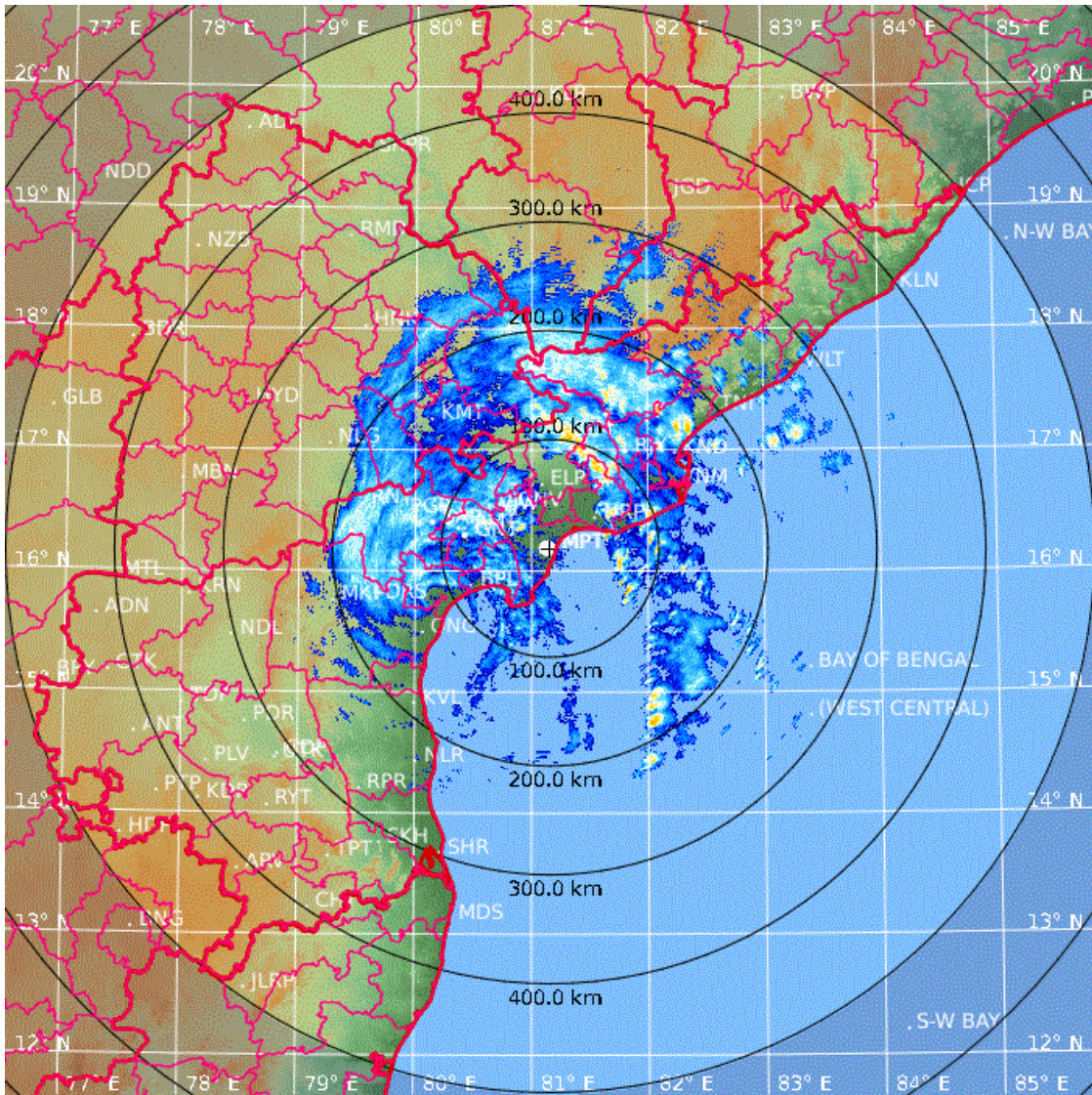


PPI (dBZ)
10:02 / 05-Dec-2023
Machilipatnam

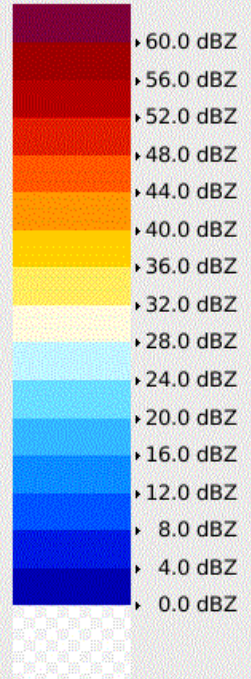


Pdf File: 150_PPZ.ppi
 Clutter Filter: IIRDoppler 8
 Time sampling: 48
 PRF: 600 Hz / 450 Hz
 Range: 150 km
 Resolution: 0.462 km/pixel
 Elevation: 0.2 deg
 Data: Radar Data
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PPI (dBZ)
10:00 / 05-Dec-2023
Machilipatnam



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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