

DWR MACHILIPATNAM CYCLONE BULLETIN

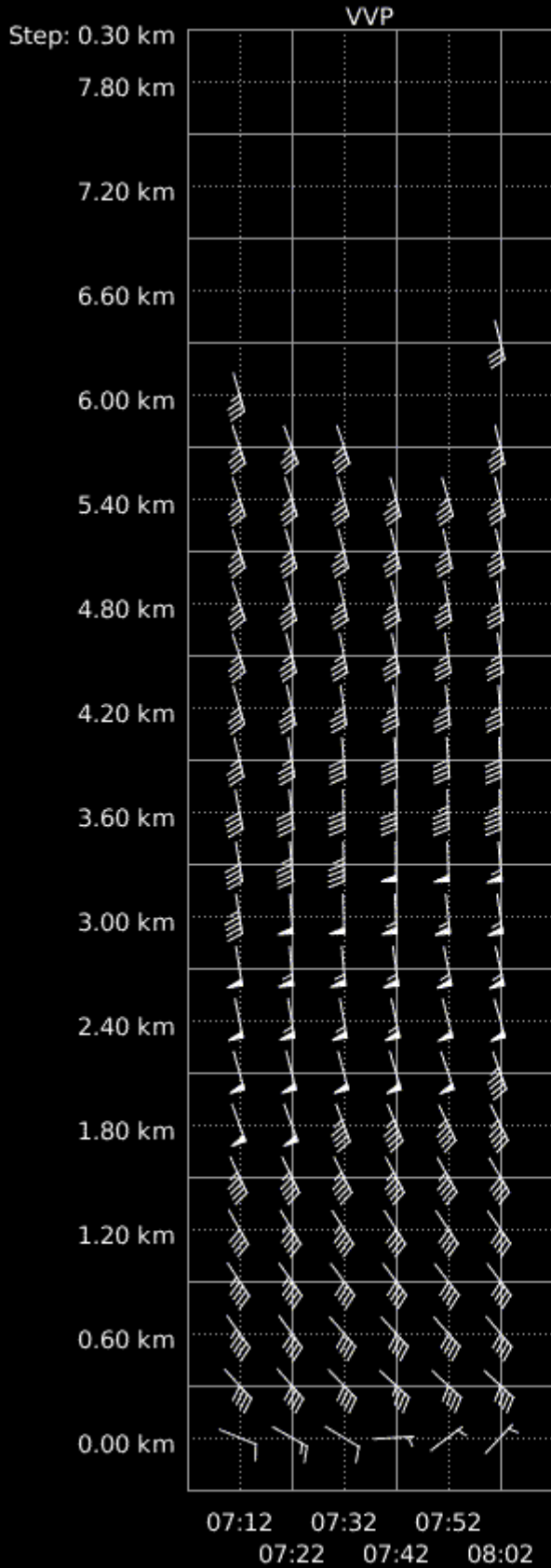
CYCLONE BULLETIN NO: 18

MICHAUNG
CYCLONE

TIME: 05/12/2023 1330IST

| | | |
|----|---|---|
| 1. | Name of the station | DWR MACHILIPATNAM |
| 2. | Date and Time of Observation (UTC) | 08:00 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 | 15.608°N, 80.135°E |
| | e. Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km) | 4.5 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) | 36.0 dBZ 3.11 Km (249.3 deg, 144.3 km) |
| | g. Maximum reflectivity at any other area (spiral/ streamers etc) | 44.0 dBZ 2.32 km (56.3 deg, 41.6 km) |
| | h. Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar) | 18.5 mps 1.51 kms (252.3 deg, 132.3 km) |
| | i. Maximum velocity in any other area (spiral / streamers / rain shields etc) | 51.5 mps 1.83 km (199.4 deg, 148.4 km) |
| 5. | Tendency of the Cyclone | |
| | a. Intensity(Increasing/Decreasing) | No Change |
| | b. Duration for which the information on movement pertains to | Last one Hour |
| | c. Direction of Movement | WNW |
| | d. Estimated speed of Movement | 10 kmph |
| 6. | Any other Significant Feature | Eye has completely entered into land |
| 7. | Confidence | FAIR |

S.PRAYEK
OFFICER IN CHARGE
DWR MACHILIPATNAM

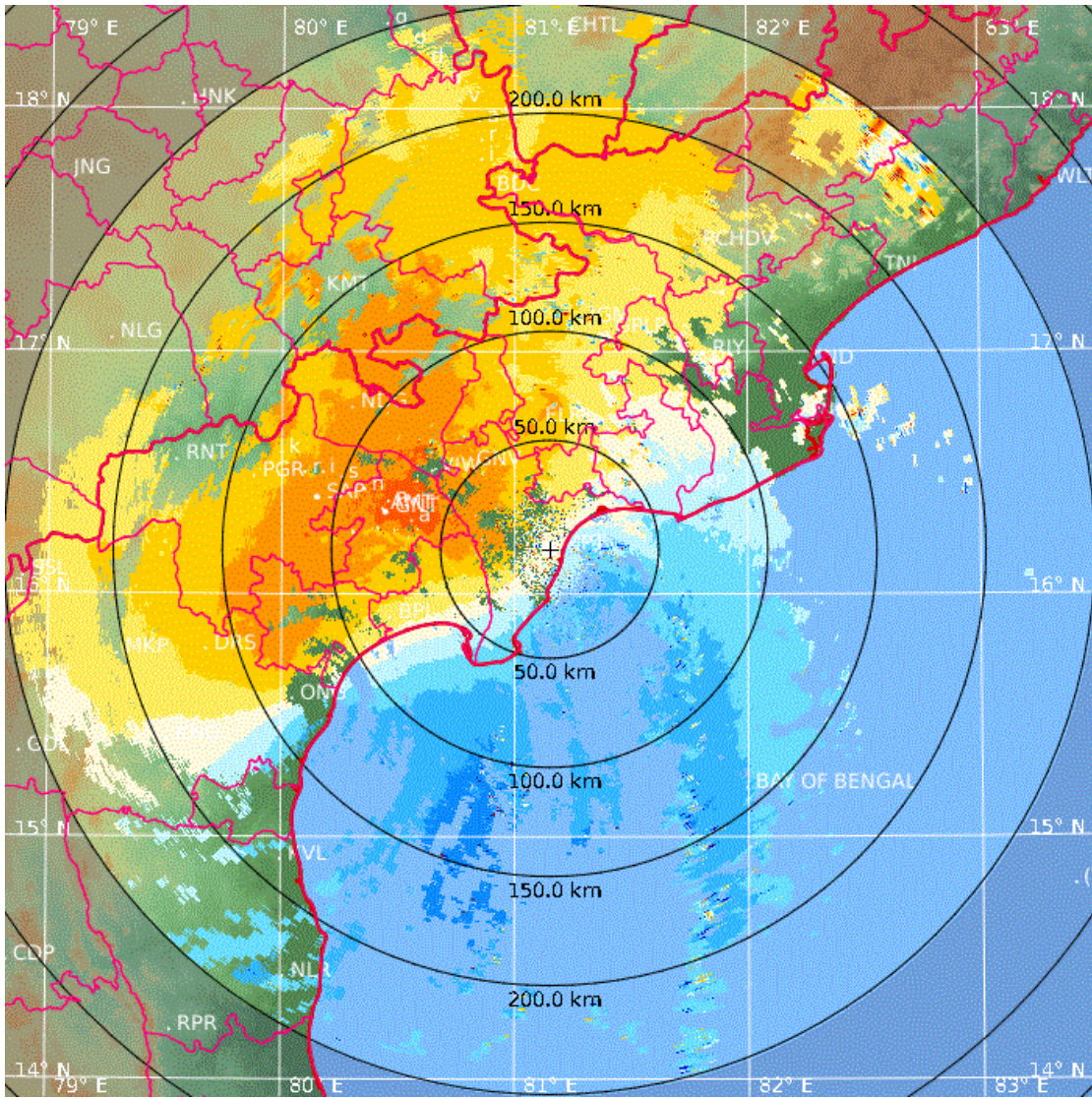


VVP (V)
08:02 / 05-Dec-2023
Machilipatnam

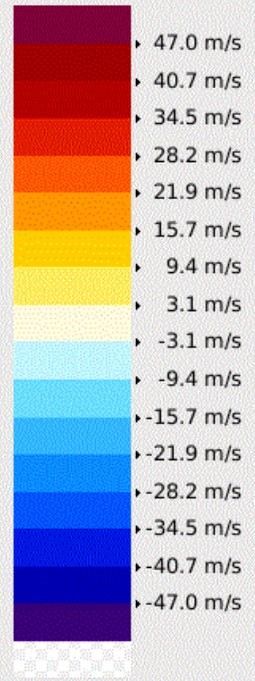
Pdf File: 30.vvp
Range: 0 km to 30 km
Clutter Filter: IIRDoppler 8
Time sampling:48
PRF: 600 Hz / 450 Hz
Alg type: Complete
Elevation: 0.2 deg to 16.0 deg
Second reg: On

Rainbow® SELEX-SI

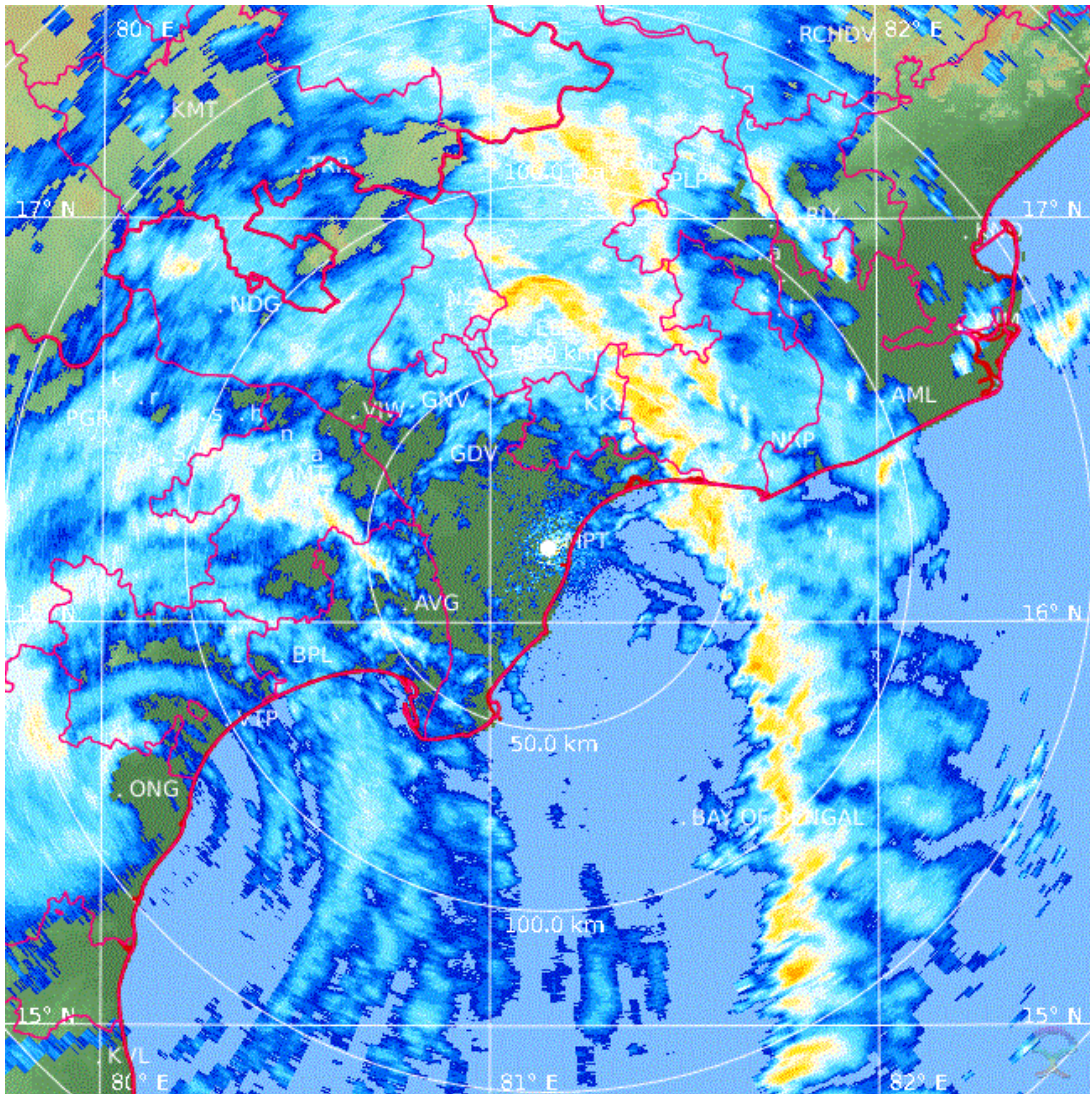




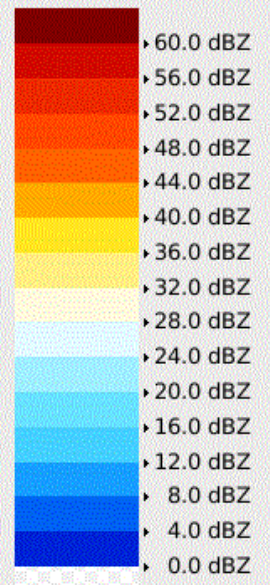
PPI (V)
08:02 / 05-Dec-2023
Machilipatnam



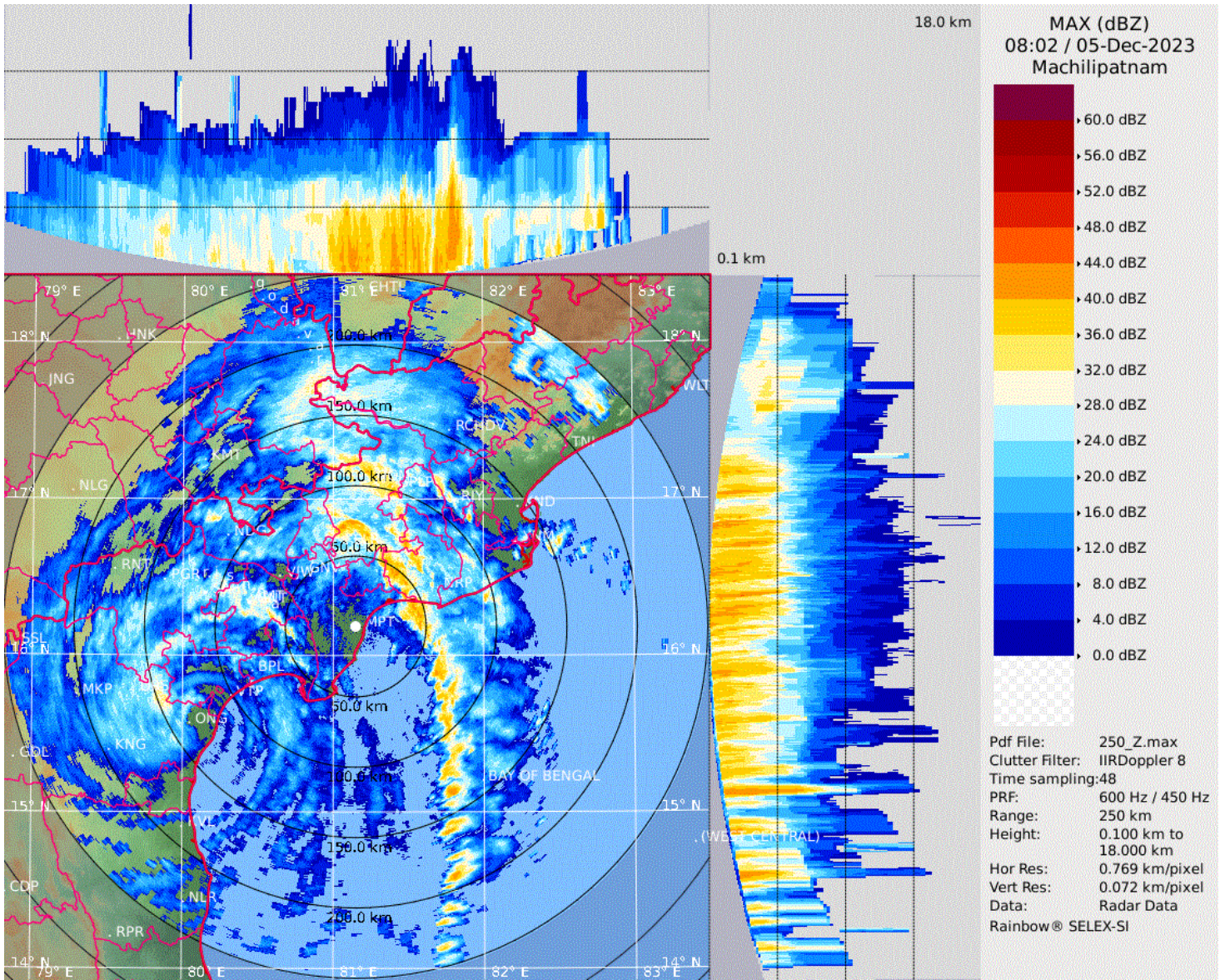
Pdf File: 250_PPV.ppi
 Clutter Filter: IIRDoppler 8
 Time sampling: 48
 PRF: 600 Hz / 450 Hz
 Range: 250 km
 Resolution: 0.714 km/pixel
 Elevation: 0.2 deg
 Data: Radar Data
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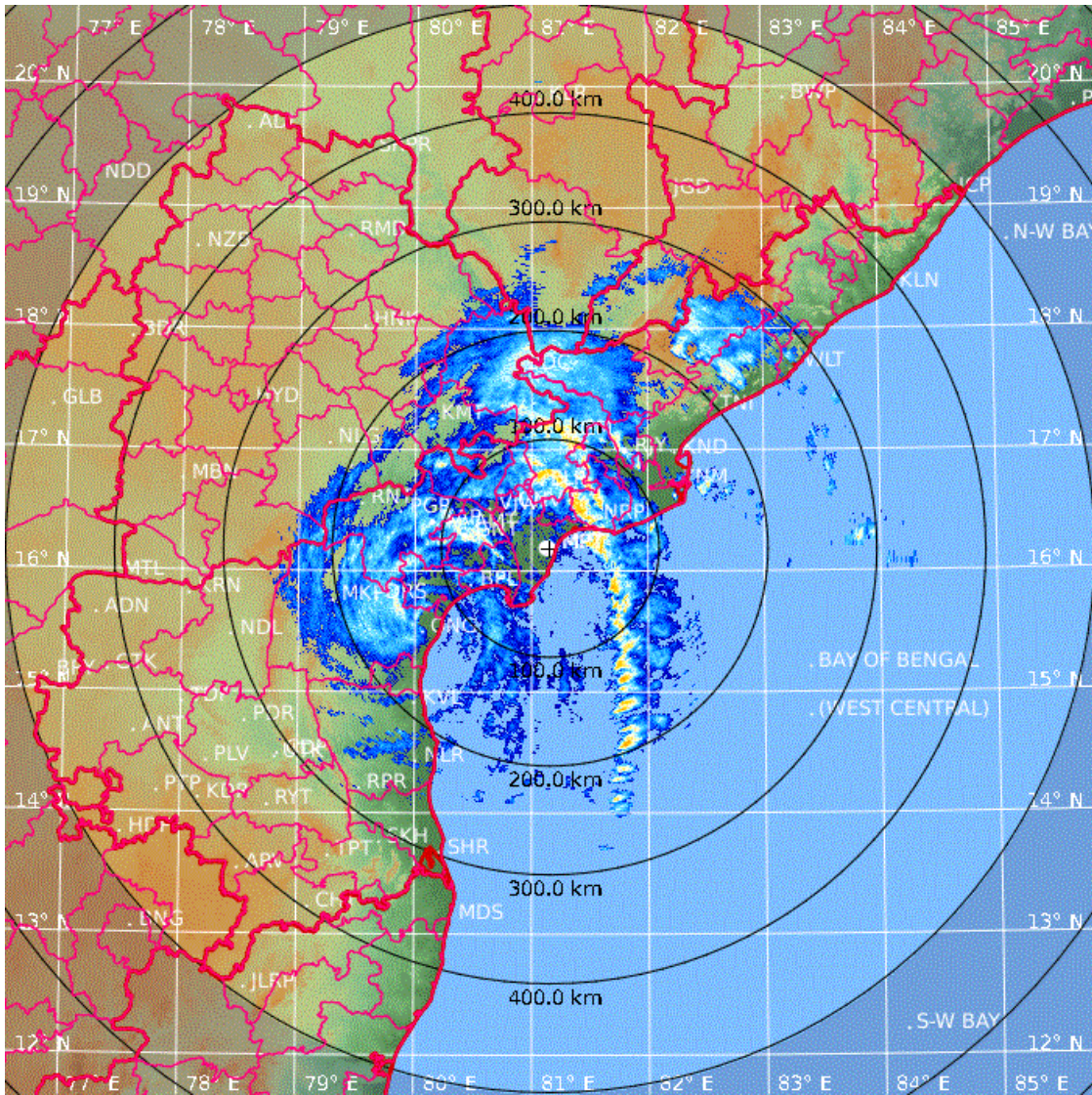


PPI (dBZ)
08:02 / 05-Dec-2023
Machilipatnam

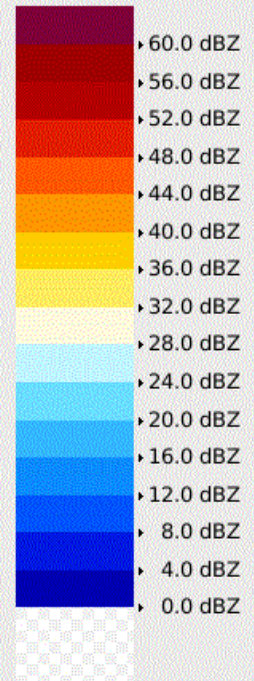


Pdf File: 150_PPZ.ppi
 Clutter Filter: IIRDoppler 8
 Time sampling: 48
 PRF: 600 Hz / 450 Hz
 Range: 150 km
 Resolution: 0.462 km/pixel
 Elevation: 0.2 deg
 Data: Radar Data
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PPI (dBZ)
08:00 / 05-Dec-2023
Machilipatnam



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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