DATE: 16-11-2024	Time of Issue: 22:00 hrs. IST

Sub: Rain/Thunderstorm warning/Lightning warning

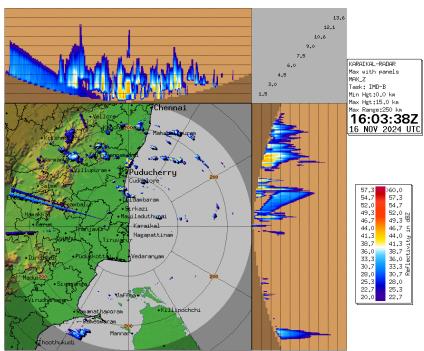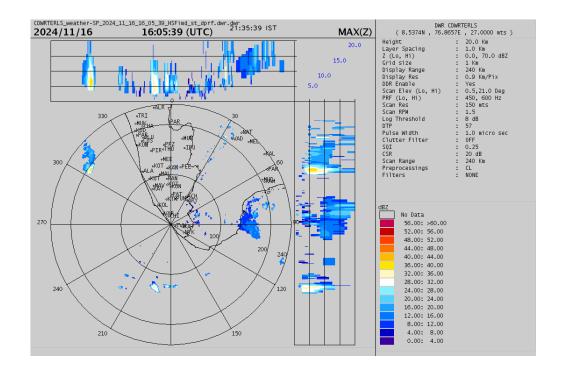| VALIDITY	WEATHER PHENOMENA (LIKELY/VERY LIKELY/MOST LIKELY)	DISTRICT AFFECTED (ISOLATED/A FEW/MANY/MOST PLACES)	IMPACT
upto 01:00 hrs. IST of 17-11-2024	Moderate Thunderstorm & Lightning with Moderate rain is very likely.	At isolated places over **Chengalpattu, Kancheepuram, Tiruppattur, Kallakkurichi, Villupuram, Cuddalore, Mayiladuthurai and Thiruvannamalai** districts of Tamilnadu and **Puducherry.**	Water logging in some areas. Slippery roads in some areas. Traffic may be affected in some areas. Minor damage due to loose/unsecured structures.
	Light Thunderstorm & Lightning with Light to moderate rain is very likely.	At isolated places over **Thiruvallur, Chennai, Ranippettai, Vellore, Krishnagiri, Dharmapuri, Salem, Ariyalur, Thiruvarur, Thanjavur, Nagapattinam, Kanyakumari, Thirunelveli, Thoothukudi, Ramanathapuram and Tenkasi** districts of Tamilnadu **and Karaikal.**	

Duty Officer
For Director In-Charge
Regional Weather Forecasting Centre
Regional Meteorological Centre, Chennai.

MAX (dBZ)
16:00 / 16-Nov-2024
Chennai

18.0 km

0.1 km

	dBZ
▸	60.0 dBZ
▸	56.0 dBZ
▸	52.0 dBZ
▸	48.0 dBZ
▸	44.0 dBZ
▸	40.0 dBZ
▸	36.0 dBZ
▸	32.0 dBZ
▸	28.0 dBZ
▸	24.0 dBZ
▸	20.0 dBZ
▸	16.0 dBZ
▸	12.0 dBZ
▸	8.0 dBZ
▸	4.0 dBZ
▸	0.0 dBZ

21:30:00 IST

Pdf File: 250_Z.max
Clutter Filter: IIRDoppler 8
Time sampling:31
PRF: 600 Hz / 450 Hz
Range: 250 km
Height: 0.100 km to
                 18.000 km
Hor Res: 1.000 km/pixel
Vert Res: 0.089 km/pixel
Data: Radar Data
Rainbow® SELEX-SI

KARAIKAL-RADAR
Max with panels
MAX_Z
Task: IMD-B
Min Hgt:0.0 km
Max Hgt:15.0 km
Max Range:250 km

16:03:38Z
16 NOV 2024 UTC

		Reflectivity in dBZ
57.3	>60.0	
54.7	57.3	
52.0	54.7	
49.3	52.0	
46.7	49.3	
44.0	46.7	
41.3	44.0	
38.7	41.3	
36.0	38.7	
33.3	36.0	
30.7	33.3	
28.0	30.7	
25.3	28.0	
22.7	25.3	
20.0	22.7	

<u>Thunderstorm & Lightning: Do's and Don'ts</u>

(i) If at home or work -
<u>Preparation:</u>

- ✓ Look for darkening skies and increased wind.
- ✓ If you hear thunder, you are close enough to be struck by lightning.
- ✓ Keep monitoring local media for updates and warning instructions.

- ✓ Stay indoors and avoid travel if possible.
- ✓ Close windows and doors, and secure objects outside your home (e.g. furniture, bins, etc.).
- ✓ Ensure that children and animals are inside.
- ✓ Unplug unnecessary electrical appliances (to isolate them from the main power supply which may conduct a power surge during a lightning storm).
- ✓ Remove tree timber or any other debris that may cause a flying accident.

Response:
- ✓ Avoid taking a bath or a shower, and stay away from running water. This is because lightning can
- ✓ travel along metal pipes. Keep away from doors, windows, fireplaces, stoves, bathtubs, or any other electrical conductors.
- ✓ Avoid using corded phones and other electrical equipment that can conduct lightning.

(ii) If Outdoor -
Response:
- ✓ Go to safe shelter immediately – avoid metal structures and constructions with metal sheeting.
- ✓ Ideally, find shelter in a low-lying area and make sure that the spot chosen is not likely to flood.
- ✓ Crouch down with feet together and head down to make yourself a smaller target.
- ✓ Hair standing up on the back of your neck could indicate that lightning is imminent.
- ✓ Do not lie flat on the ground; this will make a bigger target.
- ✓ Keep away from all utility lines (phone, power, etc.), metal fences, trees, and hilltops.
- ✓ Do not take shelter under trees as these conduct electricity.
- ✓ Rubber-soled shoes and car tyres do not offer protection from lightning.

(iii) If travelling -
Response:
- ✓ Get off bicycles, motorcycles or farm vehicles that may attract lightning.
- ✓ Get to a safe shelter.
- ✓ If boating or swimming, get to land as quickly as possible and take shelter.
- ✓ During a storm, remain in your vehicle until help arrives or the storm has passed (the metal roof will provide protection if you are not touching metal inside); windows should be up; park away from trees and power lines.

(iv) If struck by lightning -
Treatment:
- ✓ Take the person who is struck by lightning to a hospital.
- ✓ If possible, give basic First Aid.
- ✓ People struck by lightning carry no electrical charge and can be handled safely.
- ✓ Check for broken bones, loss of hearing and eyesight.
- ✓ A victim of a lightning strike can suffer varying degrees of burn. Check the impact point and where the electricity left the body for injury marks.

(pl visit https://ndma.gov.in/Resources/awareness/lightning/visuals)