



**Government of India**  
**Ministry of Earth Sciences**  
**India Meteorological Department**

**Press Release**  
**Date: 16<sup>th</sup> July, 2022**  
**Time of Issue: 1250 hrs IST**

**Subject: i) Depression over Northeast Arabian Sea off Saurashtra coast.**  
**ii) Rainfall activity likely to increase over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar & Sub-Himalayan West Bengal and Northeastern States from 19<sup>th</sup> July for subsequent 5 days.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today:**

- **Heavy to very heavy rainfall with extremely heavy falls** at isolated places occurred over ghat areas of Madhya Maharashtra; **heavy to very heavy rainfall** at isolated places occurred over Gujarat Region, East Madhya Pradesh, West Rajasthan, Coastal Karnataka, Assam & Meghalaya, Tamil Nadu and Kerala and **heavy rainfall** at isolated places over East Rajasthan, West Madhya Pradesh, Saurashtra-Kutch, Punjab, Himachal Pradesh, Odisha, Konkan & Goa, Andaman & Nicobar Islands, Haryana and Interior Karnataka. (**Annexure I**).

**Rainfall/thunderstorm Forecast & Warnings: (Multi-hazard warning is given in Annexure II)**

- **Yesterday's Well Marked Low Pressure Area** over Northeast Arabian Sea and adjoining coastal areas of Saurashtra & Kutch has intensified into a **Depression** over Northeast Arabian Sea off Saurashtra coast at 0830 hours IST of today. It lay centered at 0830 hours IST of today the 16<sup>th</sup> July, 2022 near latitude 21.6°N and longitude 69.0°E, about 70 km west of Porbandar (Gujarat), 100 km south of Okha (Gujarat), 190 km south of Naliya (Gujarat) and 410 km south-southeast of Karachi (Pakistan).  
It is very likely to move gradually north-northwestwards along & off Saurashtra & Kutch coasts and adjoining northeast Arabian Sea during next 24 hours. Thereafter, it is likely to move nearly westwards towards Oman coast across northwest Arabian Sea during subsequent 48 hours.
- A **Low Pressure Area** lies over Northwest Bay of Bengal off north Odisha-West Bengal coasts with the associated cyclonic circulation extending upto middle tropospheric levels.
- The monsoon trough is active and south of its normal position. It is likely to shift gradually northwards from 17<sup>th</sup> July, 2022.
- An off-shore trough at mean sea level runs from Gujarat Coast to Maharashtra.
- **Under the influence above systems;**
  - Fairly widespread/widespread light/moderate rainfall & **thunderstorm/lightning** very likely over Chhattisgarh, Vidarbha, Madhya Pradesh, Odisha, Konkan & Goa, Kerala & Mahe, Karnataka and Lakshadweep during next 5 days.
    - ✓ **Isolated heavy rainfall** very likely over Interior Karnataka, West Madhya Pradesh & Vidarbha on 16<sup>th</sup> & 17<sup>th</sup>; Coastal Karnataka, Konkan & Goa & Odisha during 16<sup>th</sup>-18<sup>th</sup>; East Madhya Pradesh during 16<sup>th</sup>-19<sup>th</sup> and over Kerala & Mahe & Chhattisgarh during 16<sup>th</sup>-20<sup>th</sup> July, 2022.

- Scattered to fairly widespread rainfall very likely over Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana during next 5 days and over Gujarat State 3 days and reduce thereafter. Isolated rainfall also likely over Rayalaseema Tamil Nadu, Puducherry & Karaikal during next 5 days.
  - ✓ **Isolated heavy rainfall** very likely over north Coastal Andhra Pradesh & Yanam & Gujarat State on 16<sup>th</sup>; Madhya Maharashtra on 16<sup>th</sup> & 17<sup>th</sup>; Tamil Nadu during 16<sup>th</sup>-18<sup>th</sup> and over Telangana on 17<sup>th</sup> & 18<sup>th</sup> July, 2022.
- Scattered to fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning** very likely over Jammu & Kashmir, Himachal Pradesh & Uttarakhand during next 3 days and fairly widespread to widespread rainfall with **isolated heavy falls** over the region 19<sup>th</sup> & 20<sup>th</sup> July, 2022.
  - ✓ Isolated **very heavy rainfall** very likely over Himachal Pradesh on 20<sup>th</sup> and over Uttarakhand on 19<sup>th</sup> & 20<sup>th</sup>. Isolated **extremely rainfall** also likely over Uttarakhand on 19<sup>th</sup> & 20<sup>th</sup> July, 2022.
- Isolated rainfall activity with **thunderstorm & lightning** very likely over Punjab, Haryana, Chandigarh-Delhi & Uttar Pradesh during next 3 days and fairly widespread to widespread rainfall with **isolated heavy falls, thunderstorm & lightning** also likely over the region 19<sup>th</sup> & 20<sup>th</sup> July, 2022.
  - ✓ Fairly widespread light/moderate rainfall with **isolated heavy falls** very likely over West Rajasthan during next 3 days and scattered light/moderate rainfall with **isolated heavy falls** over East Rajasthan during next 2 days.
- Scattered to fairly widespread light/moderate rainfall with **heavy falls** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days and widespread rainfall with **very heavy falls** also likely over the region during 18<sup>th</sup>-20<sup>th</sup> July, 2022.

#### **Fishermen Warnings:**

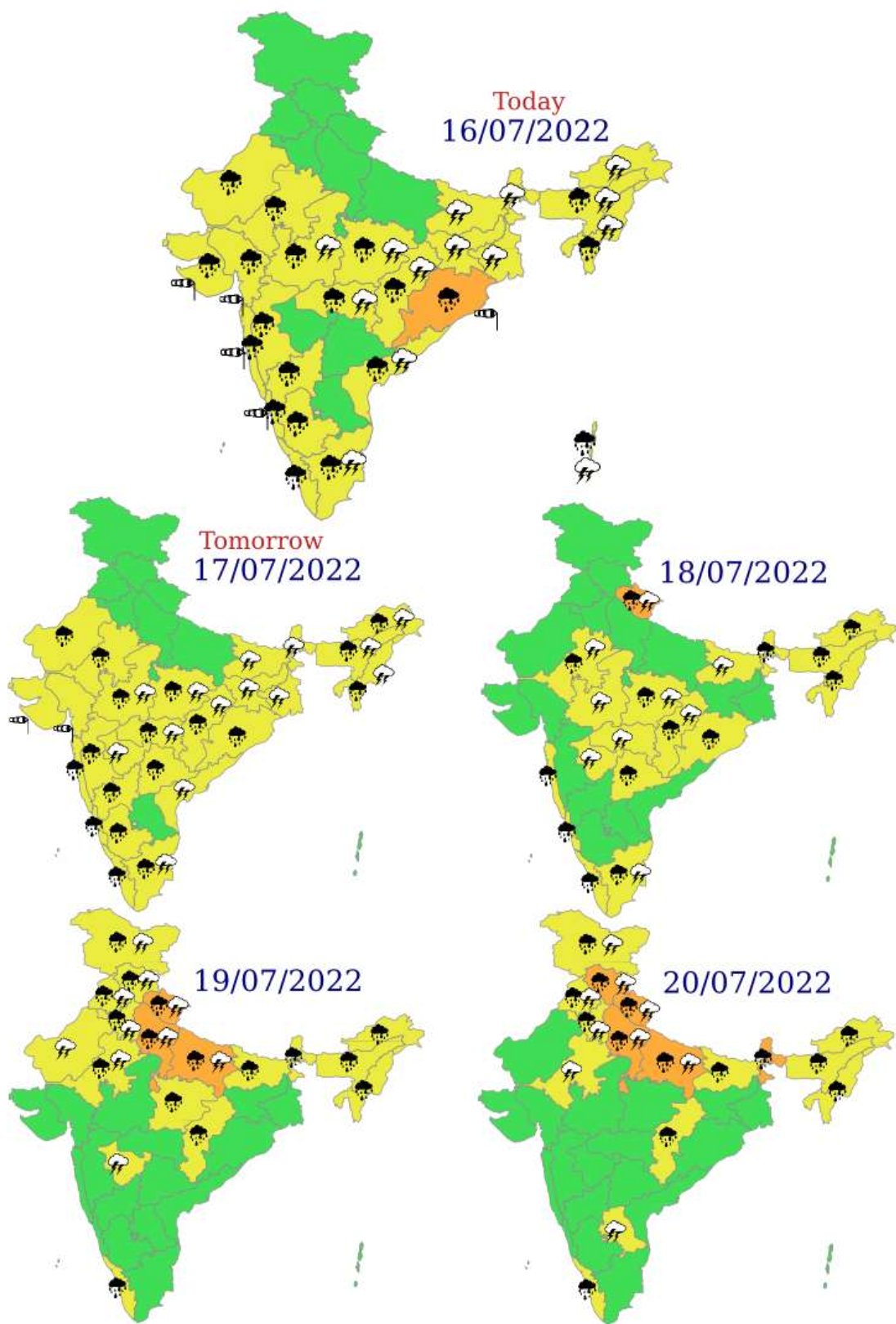
- ✓ **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph very likely over northwest Bay of Bengal off Odisha-West Bengal coasts, northeast Arabian Sea, along & off Maharashtra and Karnataka coasts on 16<sup>th</sup> and over eastcentral Arabian Sea; north Arabian Sea along & off Gujarat coast on 16<sup>th</sup> & 17<sup>th</sup> and over westcentral & southwest Arabian Sea during 16<sup>th</sup>-20<sup>th</sup> July, 2022. Fishermen are advised not to venture into these areas. **(Annexure III)**

For more details kindly refer:

[https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)

## Rainfall (in cm):

- ❖ **Madhya Maharashtra:** Ambone-23, Shirgaon-20, Mahabaleshwar- Imd Obsy (dist Satara) 15, Lonavala\_agri (dist Pune) 14, Igatpuri (dist Nashik) 12, Gaganbawada (dist Kolhapur) 10, Radhanagari (dist Kolhapur) 10, Velhe (dist Pune) 9;
- ❖ **Gujarat Region:** Daman\_arg (dist Daman) 19, Dharampur (dist Valsad) 14, Kaprada (dist Valsad) 13, Khergam (dist Navsari) 9, Nanipalson (dist Valsad) 9, Chikhli (dist Navsari) 9, Madhbun (dist Dadara & Nagar Haveli) 9, Khanvel (dist Dadara & Nagar Haveli) 8, Silvassa (dist Dadara & Nagar Haveli) 8, Vapi (dist Valsad) 7, Waghai (dist Dangs) 7, Pardi (dist Valsad) 7, Umergam (dist Valsad) 7, Satlasana (dist Mehsana) 7, Gandevi (dist Navsari) 7, Valsad\_ Kvk Aws (dist Valsad) 7;
- ❖ **Tamil Nadu:** The Nilgiris: Avalanche-17, Upperbhawani-10, Coimbatore: Chinnakalar-7;
- ❖ **Kerala & Mahe:** Peruvannamuzhi ARG (Kozhikode district) 16, Nilambur (Malappuram district), Vadakara (Kozhikode district), Taliparamba (Kannur district) & Kakkayam AWS (Kozhikode district) 10 each, Mannarkkad (Palakkad district) 9, Irikkur (Kannur district) & Mahe (Puducherry UT) 8 each;
- ❖ **Coastal Karnataka:** Castle Rock (dist Uttara Kannada) 15, Gersoppa (dist Uttara Kannada) 13, Siddapura Arg (dist Udipi) 12, Honavar Obsy (dist Uttara Kannada) 12, Kundapur (dist Udipi) 12, Siddapura (dist Udipi) 11, Manki (dist Uttara Kannada) 11, Kumta (dist Uttara Kannada) 11, Siddapur (dist Uttara Kannada) 11, Gokarna (dist Uttara Kannada) 10, Karwar Obsy (dist Uttara Kannada) 9, Ankola (dist Uttara Kannada) 8, Yellapur (dist Uttara Kannada) 8, Shirali Pto (dist Uttara Kannada) 7, Dharmasthala (dist Dakshina Kannada) 7;
- ❖ **Assam & Meghalaya:** Jorhat-13, Bokajan-11, Khliehriat-7;
- ❖ **West Rajasthan:** Nagaur: Makarana-13, Churu: Ratangarh-8;
- ❖ **East Madhya Pradesh:** Birsa (dist Balaghat) 12, Malanjhand (dist Balaghat) 9, Lakhnadon (dist Seoni) 9, Paraswada (dist Balaghat) 8, Amarwara (dist Chhindwara) 7;
- ❖ **Konkan & Goa:** Roha (dist Raigad) 11, Jawhar (dist Palghar) 11, Pernem (dist North Goa) 9, Matheran (dist Raigad) 8, Khed (dist Ratnagiri) 8, Dapoli\_agri (dist Ratnagiri) 8, Murbad (dist Thane) 7, Talasari (dist Palghar) 7;
- ❖ **Odisha:** Bargarh: Bargarh-10, Khurda: Balipatna-10, Cuttack: Kantapada-7, Jharsuguda: Deogaon-8;
- ❖ **North Interior Karnataka:** Londa (dist Belagavi) 9;
- ❖ **South Interior Karnataka:** Linganamakki Hms (dist Shivamogga) 9, Sringeri Hms (dist Chikkamagaluru) 9, Hunchadakatte (dist Shivamogga) 8, Bhagamandala (dist Kodagu) 8, Koppa (dist Chikkamagaluru) 8, Jayapura (dist Chikkamagaluru) 7;
- ❖ **Andaman & Nicobar Islands:** Long Island-9, Port Blair-8;
- ❖ **Punjab:** Muktsar Aws (dist Muktsar) 9;
- ❖ **West Madhya Pradesh:** Shajapur (dist Shajapur) 8, Navibagh Aet (dist Bhopal) 7, Rajgarh (dist Rajgarh) 7, Sohagpur (dist Narmadapuram) 7;
- ❖ **Saurashtra & Kutch:** Talala (dist Gir Somnath) 7;
- ❖ **Himachal Pradesh:** Shimla: Sarahan-8;



## EXPECTED IMPACT & ACTION SUGGESTED DUE TO-

**Isolated very heavy rainfall** over Odisha on 16<sup>th</sup>; Himachal Pradesh on 20<sup>th</sup> and over Uttar Pradesh on 19<sup>th</sup> & 20<sup>th</sup> July, 2022 and due to **extremely heavy rainfall** over Uttarakhand on 19<sup>th</sup> & 20<sup>th</sup> July, 2022.

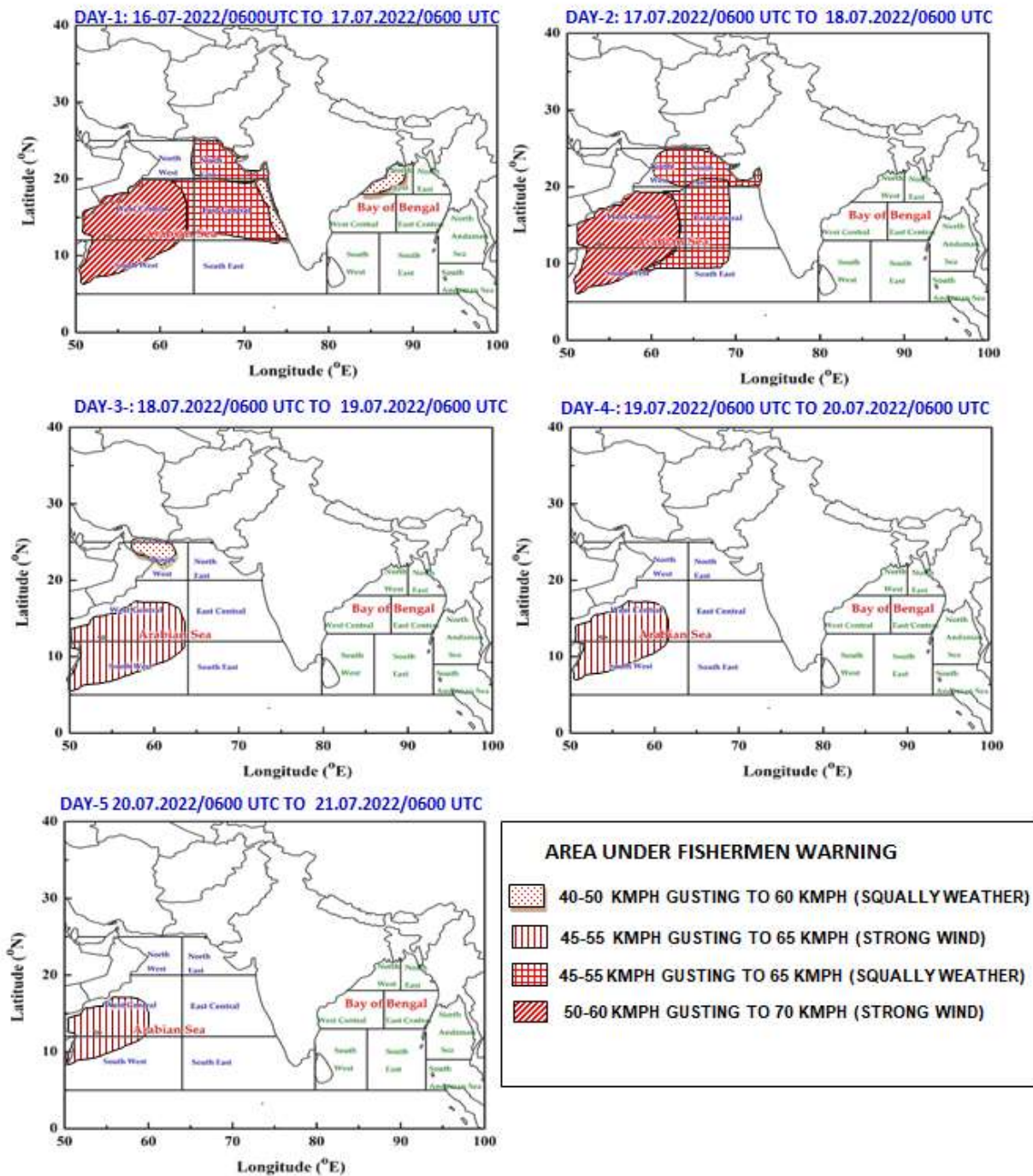
### A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

### B. Action Suggested

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

**INDIA METEOROLOGICAL DEPARTMENT  
FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA**



## Legends:

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

### Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)



Heavy Rain



Strong Winds

### WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Thunderstorm with Lightning



Heat Wave