



**India Meteorological Department  
(Ministry of Earth Sciences)**

**Agrimet Bulletin No. 4**

**Severe Cyclonic Storm “MICHAUNG” (pronounced as MIGJAUM) over Westcentral & adjoining Southwest Bay of Bengal off south Andhra Pradesh and adjoining north Tamilnadu coasts (Cyclone Warning for Andhra Pradesh and adjoining North Tamil Nadu-Puducherry Coasts: Red Message)**

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The Severe Cyclonic Storm “MICHAUNG” (pronounced as MIGJAUM) over Westcentral & adjoining Southwest Bay of Bengal off south Andhra Pradesh and adjoining north Tamilnadu coasts moved northwestwards with a speed of 8 kmph during past 06 hours and lay centered at 1130 hours IST of 4<sup>th</sup> December, 2023 over the same region near Latitude 13.5°N and Longitude 80.8°E, about 90 km northeast of Chennai, 140 km southeast of Nellore, 200 km north-northeast of Puducherry, 270 km south of Bapatla and 300 km south of Machilipatnam.

It is likely to intensify gradually and move nearly northwards almost parallel and close to south Andhra Pradesh coast and cross South Andhra Pradesh coast between Nellore and Machilipatnam, close to Bapatla during forenoon of 5<sup>th</sup> December as a **Severe Cyclonic Storm with a maximum sustained wind speed of 90-100 kmph gusting to 110 kmph.**

**Warnings**

**(i) Rainfall warning**

- **North Coastal Tamil Nadu & Puducherry:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places with isolated **extremely heavy falls** is very likely on 4<sup>th</sup> and isolated heavy rainfall on 5<sup>th</sup> December and decrease thereafter.
- **Coastal Andhra Pradesh:** Light to moderate rainfall at most places and **heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places over coastal Andhra Pradesh & Yanam on 4<sup>th</sup> & 5<sup>th</sup> December. **Exceptionally heavy rainfall** at one or two places is also likely over south coastal Andhra Pradesh on 4<sup>th</sup> and over north coastal and adjoining south coastal Andhra Pradesh on 5<sup>th</sup> December. Isolated **heavy rainfall** is likely over north coastal Andhra Pradesh on 6<sup>th</sup> December.
- **Rayalaseema:** Light to moderate rainfall at many places with isolated **heavy to extremely heavy falls** is very likely on 4<sup>th</sup> and isolated **heavy rainfall** on 5<sup>th</sup> December and decrease thereafter.
- **Telangana:** Light to moderate rainfall at few places with isolated **heavy rainfall** is likely on 4<sup>th</sup> December. It is likely to increase becoming light to moderate rainfall at most places with isolated **heavy to extremely heavy rainfall** over the same region on 5<sup>th</sup> December.
- **Odisha:** Light to moderate rainfall at most places with isolated **heavy rainfall** is likely over south Coastal and adjoining south Interior Odisha during 4<sup>th</sup> & 6<sup>th</sup> with isolated **heavy to very heavy rainfall** over the same region on 5<sup>th</sup> December.

## (ii) Wind warning

- **Southwest Bay of Bengal along & off north Tamil Nadu-Puducherry Coasts:**  
**Gale wind** speed reaching **85-95 kmph gusting to 105 kmph** is prevailing around the center. It is likely to continue for next 6 hours and gradually decrease thereafter. The **Gale wind** speed reaching **60-70 kmph gusting to 80 kmph** is prevailing along and off north Tamilnadu coast (Chennai and to its north). It is likely to continue during next 6 hours and gradually decrease thereafter.
- **Westcentral Bay of Bengal and along & off south Andhra Pradesh Coast:**  
**Gale wind** speed reaching **85-95 kmph gusting to 105 kmph** is prevailing over westcentral Bay of Bengal. It is likely to gradually increase becoming **90-100 kmph gusting to 110 kmph** from 4<sup>th</sup> afternoon and **95-105 kmph gusting to 115 kmph** from 4<sup>th</sup> mid night till 5<sup>th</sup> December morning. It would become **90-100 kmph gusting to 110 kmph** from morning of 5<sup>th</sup> till noon of 5<sup>th</sup> and further gradually decrease thereafter. **Gale wind** speed reaching **60-70 kmph gusting to 80 kmph** is prevailing along and off Nellore district & **50-60 kmph gusting to 70 kmph** along and off remaining districts of south Andhra Pradesh coast. It is likely to gradually increase becoming **90-100 kmph gusting to 110 kmph** from 4<sup>th</sup> December evening to 5<sup>th</sup> December noon.
- **Along & off north Andhra Pradesh Coast:**  
**Squally wind** speed reaching **45-55 kmph gusting to 75 kmph** likely from 4<sup>th</sup> December evening, likely to gradually increase becoming **55-65 kmph gusting to 75 kmph** from 5<sup>th</sup> December morning for subsequent 24 hours. It would gradually decrease thereafter.
- **Along & off Odisha Coast:**  
**Squally wind** speed reaching **35-45 kmph gusting to 55 kmph** likely from 4<sup>th</sup> December evening, likely to gradually increase becoming **40-50 kmph gusting to 60 kmph** from 5<sup>th</sup> December evening for subsequent 12 hours. It would gradually decrease thereafter.

## (iii) Sea condition

- **Southwest Bay of Bengal and along & off north Tamil Nadu-Puducherry Coasts:**  
**High sea condition** is prevailing and likely to continue till 4<sup>th</sup> December evening and likely to become high to very rough from 4<sup>th</sup> December night and very rough to rough thereafter till 5<sup>th</sup> December morning. It is likely to improve thereafter gradually.
- **Westcentral Bay of Bengal and along & off south Andhra Pradesh Coast:**  
**High to very high sea condition** is prevailing over the region. It is likely to continue till 5<sup>th</sup> December noon. It is likely to improve thereafter gradually becoming high to very rough from 5<sup>th</sup> evening and very rough to rough from 6<sup>th</sup> morning for subsequent 12 hours.
- **Along & off North Andhra Pradesh Coast:**  
**Rough to Very Rough to sea condition** is likely on 4<sup>th</sup> December, very rough to high on 5<sup>th</sup> and very rough to rough on 6<sup>th</sup> December.
- **Along & off Odisha Coast:**  
**Rough to Very Rough to sea condition** is likely from 4<sup>th</sup> December evening till 6<sup>th</sup> December morning.

## (iv) Fishermen Warning

Fishermen are advised not to venture into:

- Southwest Bay of Bengal and along & off North Tamil Nadu-Puducherry Coasts till 5<sup>th</sup> December.
- Westcentral Bay of Bengal and along & off Andhra Pradesh Coast till 6<sup>th</sup> December.
- Northwest Bay of Bengal and along & off Odisha coast till 6<sup>th</sup> December.

#### (v) Storm Surge

Storm surge of about 1-1.5 meter above astronomical tide likely to inundate south Coastal Andhra Pradesh districts at the time of landfall.

### Special Agromet Advisories

#### North Coastal Tamil Nadu & Puducherry

- In **Karaikal and Puducherry**, drain out excess water from rice nurseries, vegetables, banana and coconut basins. Strengthen the bunds of rice fields and also maintain water level to avoid crop lodging. Provide support with wooden poles in banana to avoid lodging.
- In **Chennai and Chengalpattu** districts, make provision of proper drainage facilities in rice, banana, flower and vegetable plants. Provide support to banana and vegetable crops using wooden poles.
- In **Cuddalore and Villupuram** districts, drain out excess water from rice; postpone sowing of groundnut and undertake propping in banana.
- In **Tiruvannamalai** district, drain out excess water from the rice fields, groundnut and red gram.

#### Coastal Andhra Pradesh

- Postpone harvesting of rice. Shift the already harvested produce to safer places.
- Create a bund around the harvested produce of rice covered with tarpaulin to prevent the entry of water or store in safe place.
- Undertake propping in vegetables, sugarcane, banana and papaya, if feasible, to avoid lodging due to ensuing squally winds.
- Drain out excess water from standing crops (rice, rice nurseries, cotton, groundnut, pulses, maize), vegetables and fruit orchards.
- In **Nellore** district, postpone transplanting of rice and drain out excess water from rice nurseries and black gram fields.
- In **Anaparthi and Visakhapatnam** districts, postpone sowing of *rabi* rice, rice fallow pulses and planting of sugarcane.
- In **East Godavari and West Godavari** districts, postpone nursery sowing of rice and undertake earthing up in maize.
- In **Prakasam** district, postpone sowing of Bengal gram.
- In **Srikakulam** district, postpone sowing of finger millet, groundnut and green gram.
- In **Vizianagaram** district, postpone harvesting of cotton. Shift the harvested produce of cotton to the safer places.

#### Rayalaseema

- Drain out excess water from standing crops such as cotton, red gram, rice, chickpea, groundnut, vegetables and fruit orchards.
- Provide staking to vegetables and propping in banana.
- In **Nandyal and Kadapa** districts, postpone harvesting of paddy till the cessation of rains. Postpone sowing of late *rabi* Bengal gram.

- In **Tirupati** and **Chittoor** districts, drain out excess water from rice nurseries and vegetables. Postpone harvesting of late sown *kharif* groundnut and shift the already harvested produce to the safer places. Postpone sowing of *rabi* groundnut.

### Telangana

- Drain out excess water from standing crops such as rice, groundnut, maize, green gram, red gram, sunflower, cotton, vegetables and fruit orchards.
- Provide mechanical support to young fruit plants and staking in vegetables to avoid lodging.
- Postpone application of fertilizers and pesticides till the cessation of rain.
- In **Mahabubabad, Warangal Rural, Hanamkonda (Warrangal Urban)** and **Jayasankar Bhupalpally** districts, postpone harvesting of rice and picking of cotton. Shift the already harvested produce to safer places.
- In **Khammam** district, postpone sowing of sunflower, green gram and maize till the cessation of rains. Transport the harvested produce to safe places and cover the harvested produce with tarpaulin covers.

### Odisha

- Harvest the rice crop if 80% grains are matured and keep the harvested produce at safer places.
- Cover the vegetable nurseries with plastic or polythene sheets to protect from the direct impact of rains.
- Make provision for draining out excess rain water in standing rice crop by making alleys (Pahi) and keep the drain ends open.
- Provide drainage channels in vegetables, sugarcane and fruit orchards.
- Provide staking in sugarcane, banana and vegetables, if feasible.
- Do not apply any fertilizer or pesticide until rain water recedes.
- In **Kandhamal** district, harvest the matured ragi at the earliest and shift to safer place. Postpone sowing of maize.
- In **Rayagada** district, harvest matured ragi and cotton at the earliest and shift to safer places.
- In **Gajapati** and **Ganjam** districts, harvest matured pigeon pea, cotton and finger millet at the earliest and shift to safer places. Postpone sowing of groundnut, green gram, lentil, castor, niger, mustard, sunflower and black gram.
- In **Khorda, Puri** and **Jagatsinghpur** districts, postpone sowing of *rabi* crops like maize, wheat, pulses, oil seeds, vegetables and spices.