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# Sub: Cyclonic Storm "MICHAUNG" (pronounced as MIGJAUM) over Central Coastal Andhra Pradesh

The **Cyclonic Storm "MICHAUNG" (pronounced as MIGJAUM)** over south coastal Andhra Pradesh moved northwards with a speed of 11 kmph during past 06 hours and lay centered at 2030 hours IST of today, the 5th December, 2023 over Central Coastal Andhra Pradesh near latitude 16.4°N and longitude 80.4°E, about 60 km north-northwest of Bapatla, 110 km north-northeast of Ongole and 90 km south-southeast of Khammam.

The system is likely to continue to move nearly northwards and weaken further into a Deep Depression by midnight of today, the 05<sup>th</sup> December, 2023.

Date/Time (IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.12.23/2030	16.4/80.4	60-70 kmph gusting to 80 kmph	Cyclonic Storm
05.12.23/2330	16.5/80.4	50-60 kmph gusting to 70 kmph	Deep Depression
06.12.23/0530	17.0/80.5	35-45 kmph gusting to 55 kmph	Depression

#### Track and Intensity Forecasts:

#### Warnings:

#### (i) Rainfall Warning (graphics enclosed):

 Coastal Andhra Pradesh: Light to moderate rainfall at most places and heavy to very heavy rainfall at isolated places likely over coastal Andhra Pradesh & Yanam on 5<sup>th</sup> December. Isolated **heavy rainfall** is likely over north coastal Andhra Pradesh on 6<sup>th</sup> December.

- **Telangana:** Light to moderate rainfall at most places with isolated **heavy to very heavy** rainfall on 5<sup>th</sup> December and **heavy rainfall** is likely on 06<sup>th</sup> December.
- Odisha: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall is likely over south Coastal and adjoining south Interior Odisha on 5<sup>th</sup> and isolated heavy rainfall over the same region on 6<sup>th</sup> December.
- **Chhattisgarh:** Light to moderate rainfall at most places with isolated **heavy rainfall** is likely over Chhattisgarh on 05<sup>th</sup> & 6<sup>th</sup> December.
- Vidarbha: Light to moderate rainfall at many places with isolated heavy rainfall is likely over Vidarbha on 6<sup>th</sup> December.
- **Rayalaseema:** Light to moderate rainfall at many places with isolated **heavy rainfall** on 5<sup>th</sup> December and decrease thereafter.

#### (ii) Wind warning:

#### • Westcentral Bay of Bengal and along & off south Andhra Pradesh Coast:

**Gale wind** speed reaching **60-70 kmph gusting to 80 kmph** prevailing over Westcentral Bay of Bengal and would continue during next 6 hours and gradually decreases thereafter becoming 50-60 kmph gusting to 70 kmph over the region.

Gale wind speed reaching 60-70 kmph gusting to 80 kmph prevailing along & off Bapatla district & 50-60 kmph gusting to 70 kmph along & off remaining districts of south Andhra Pradesh coast during next 6 hours and gradually decrease thereafter.

#### Along & off north Andhra Pradesh Coast:

Squally wind speed reaching 50-60 kmph gusting to 65 kmph is prevailing, it is likely to continue during next 06 hours. It would gradually decrease thereafter.

• Northwest Bay of Bengal and along & off Odisha Coast:

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing and likely to continue during next 12 hours. It would gradually decrease thereafter.

#### (iii) Sea Condition:

• Westcentral Bay of Bengal and along & off south Andhra Pradesh Coast:

**Very rough to High sea condition** is prevailing over the region. It is likely to continue next 06 hours. It is likely to improve thereafter gradually becoming rough to very rough by mid-night of today, the 5<sup>th</sup> Dec and rough by 6<sup>th</sup> morning for subsequent 12 hours.

#### • Along & off North Andhra Pradesh Coast:

**Rough to Very Rough sea condition** is likely till 6<sup>th</sup> December morning and further improve thereafter.

#### • Northwest Bay of Bengal and along & off Odisha Coast:

Rough to Very Rough to sea condition is likely till 6<sup>th</sup> December morning.

#### (v) Fishermen Warning (graphics attached):

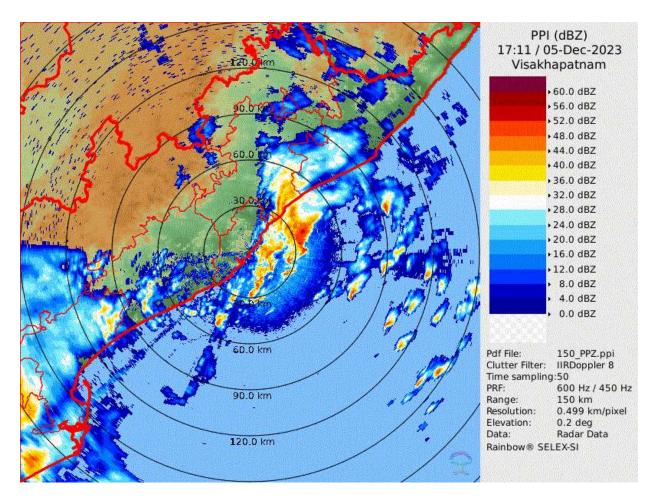
Fishermen are advised not to venture into:

- Westcentral Bay of Bengal and along & off Andhra Pradesh Coast till 6<sup>th</sup> December evening.
- Northwest Bay of Bengal and along & off Odisha coast till 6<sup>th</sup> December morning.

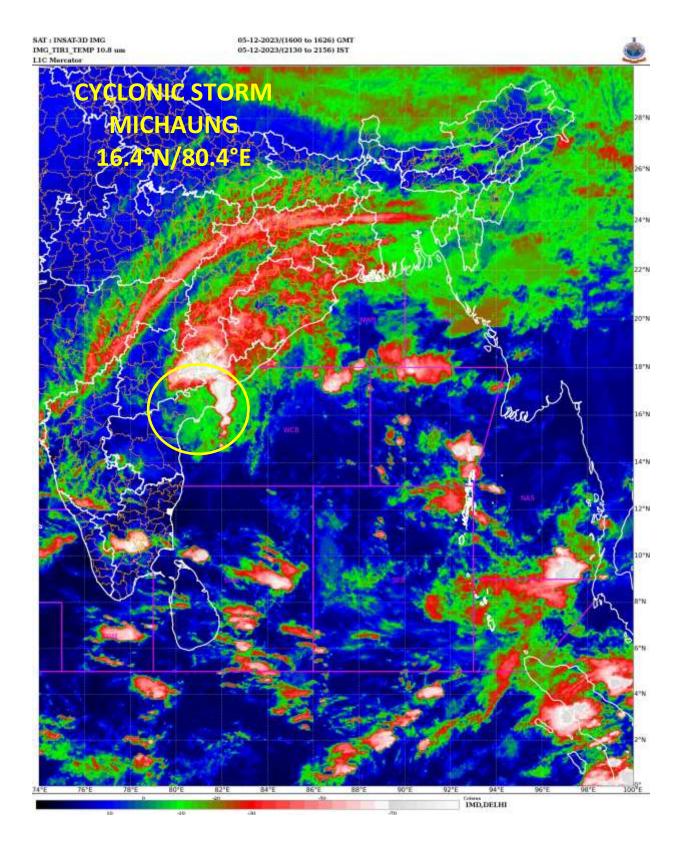
The system is under continuous surveillance and the next message will be issued at 0230 hours IST of tomorrow, the 06<sup>th</sup> December, 2023.

(Krishna Mishra) Scientist C, Cyclone Warning Division, New Delhi

Copy to: ACWC Chennai/ ACWC Kolkata/ CWC Bhubaneswar/ CWC Vishakhapatnam/ MC Amravati



Maximum Reflectivity from DWR Vishakhapatnam based on 1711 UTC of 05<sup>th</sup> December 2023



INSAT 3D Image based on 1600 UTC of 05<sup>th</sup> Dec 2023

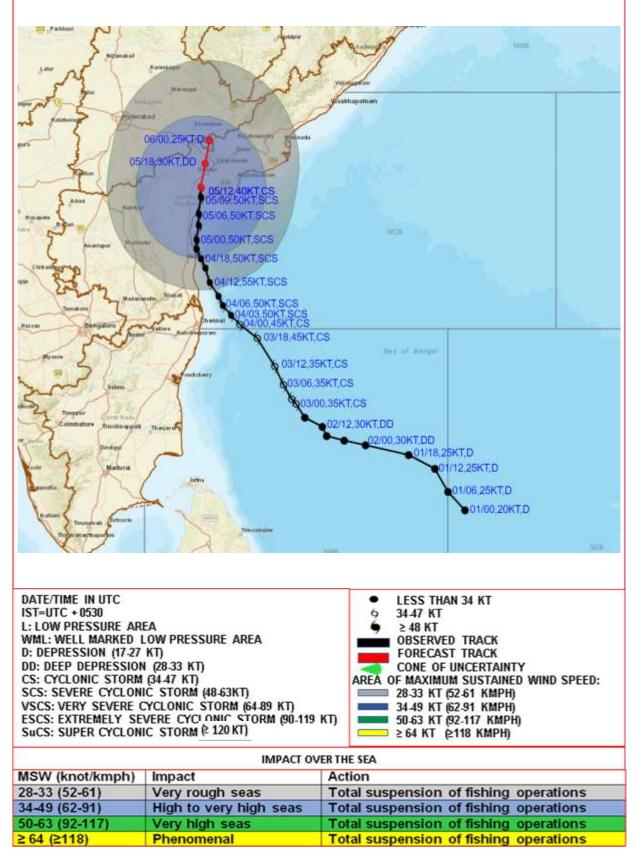


OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY IN ASSOCIATION WITH CYCLONIC STORM "MICHAUNG" OVER SOUTH COASTAL ANDHRA PRADESH BASED ON 1200 UTC (1730 IST) OF 5<sup>TH</sup> DECEMBER 2023.

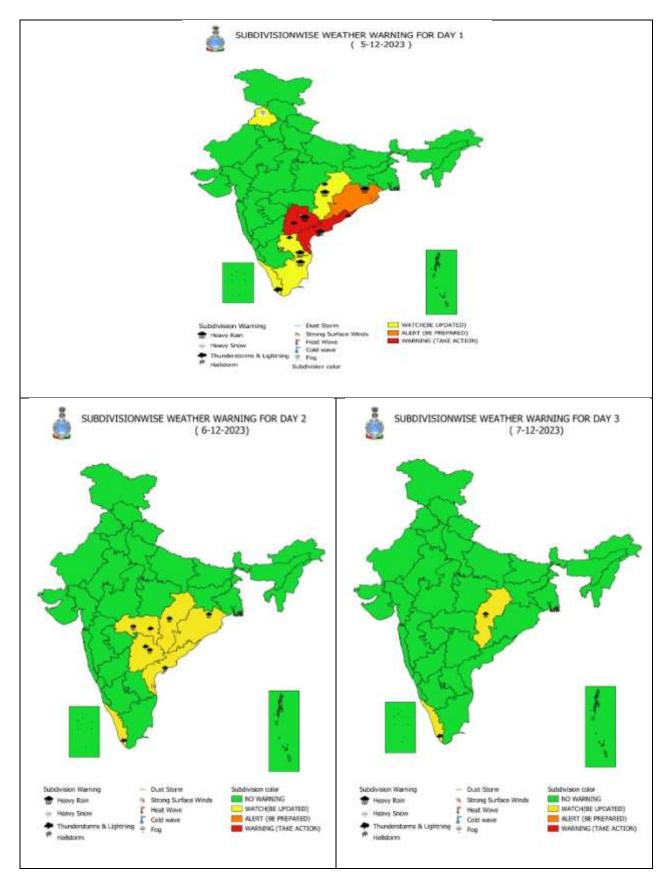


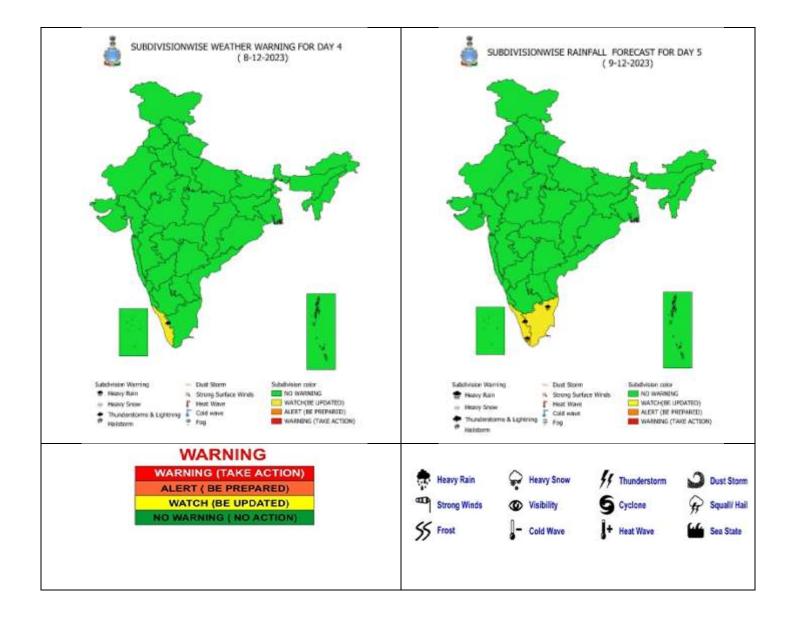


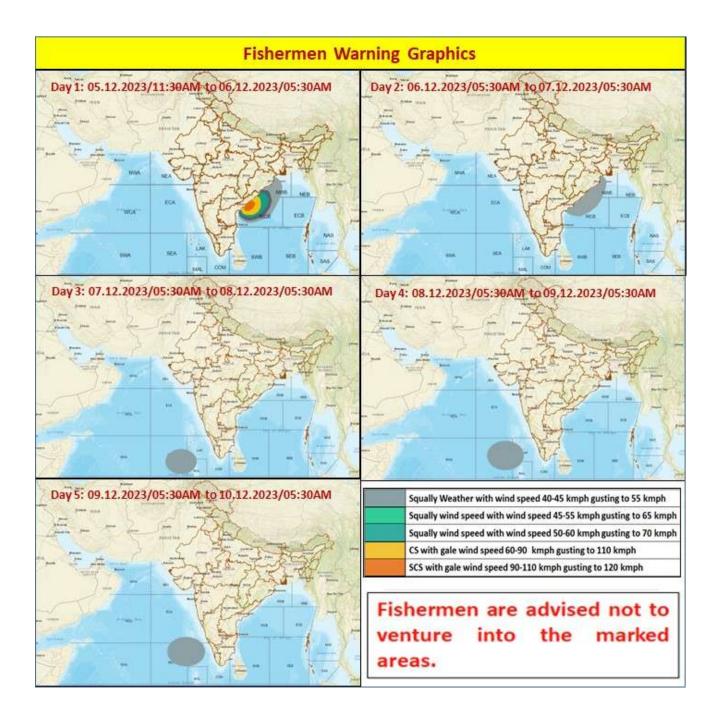
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND IN ASSOCIATION WITH SEVERE CYCLONIC STORM "MICHAUNG" OVER SOUTH COASTAL ANDHRA PRADESH BASED ON 1200 UTC (1730 IST) OF 5<sup>TH</sup> DECEMBER 2023.



### **Weather Warning Graphics**







### Flash Flood Guidance

#### 24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 06-12-2023 :

High flash flood risk likely over few watersheds & neighbourhoods of following coastal districts of Andhra Pradesh

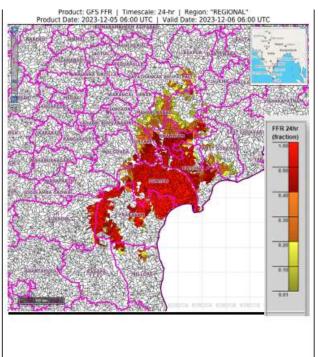
Guntur, Prakasam and Krishna (>50%) districts of Andhra Pradesh;

Moderate flash flood risk likely over few watersheds & neighbourhoods of following coastal districts (>20% - <50%) of Andhra Pradesh and Telangana during next 24 hours.

West Godavari, Guntur, Kurnool, Prakasam and Nellore (>20% - <50%) districts of Andhra Pradesh;

Nalgonda, Suryapet, Khammam, Bharadri kothagudem and Mahabubabad (>20% - <50%) districts of Telangana.

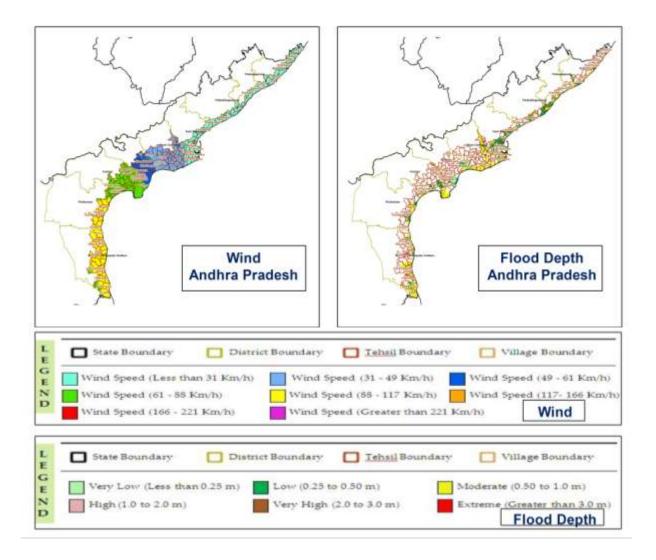
Surface runoff/ Inundation may occur at some fully saturated watersheds & low-lying areas over AoC as depicted in map due to Severe Cyclonic Storm 'Michaung' during next 24 hours.





Hazard Map with Severe Cyclonic Storm MICHAUNG over Westcentral & adjoining

off south Andhra Pradesh coast



## REALISED RAINFALL (IN CM) RECORDED DURING PAST 24 HOURS FROM 08:30 IST 04/12/2023 TO 08:30 IST 05/12/2023

Heavy to very heavy rainfall recorded at a few places with isolated extremely heavy falls at isolated places over North Tamil Nadu, coastal Andhra Pradesh and Rayalaseema.

#### Tamil Nadu:

Zone 14 Perungudi (dist Chennai) 45, Poonamallee (dist Tiruvallur) 34, Avadi (dist Tiruvallur) 28, KVK Kattukuppam AWS (dist Kancheepuram) 27, Chennai (N) (dist Chennai), Chennai(N) AWS (dist Chennai), Tambaram (dist Chengalpattu) 24 each, Mahabalipuram (dist Chengalpattu), Zone 09 Ice House (dist Chennai) 22 each, Royapuram (dist Chennai), Zone 13 Advar (dist Chennai), Thiru-Vi-Ka Nagar (dist Chennai), Zone 05 GCC (dist Chennai), Zone 10 Kodambakkam (dist Chennai), Chembarapakkam Rev (dist Kancheepuram) 21 each, Zone 15 Sholinganallur (dist Chennai), Taramani ARG (dist Chennai), Meenambakkam AWS (dist Chennai), Chennai (AP) (dist Chennai), Kundrathur (dist Kancheepuram), Thamaraipakkam (dist Tiruvallur), Kodambakkam (dist Chennai), Tirur KVK AWS (dist Tiruvallur) 19 each, Teynampet (dist Chennai), Valasaravakkam (dist Chennai), Tiruvallur (dist Tiruvallur), Anna University ARG (dist Chennai), Zone 11 Valasaravakkam (dist Chennai) 18 each, Uthukottai (dist Tiruvallur), NIOT\_Pallikaranai ARG (dist Chennai), Ponneri (dist Tiruvallur), Sriperumbudur (dist Kancheepuram), Koratur (dist Tiruvallur) 17 each, Kelambakkam (dist Chengalpattu) 16, Cholavaram (dist Tiruvallur) 15, Thiruvalangadu (dist Tiruvallur), Poondi (dist Tiruvallur), Alandur (dist Chengalpattu), Thirupporur (dist Chengalpattu) 14 each, Red Hills (dist Tiruvallur) 13, Zone Alandhur (dist Chennai), Tiruttani (dist Tiruvallur), Gummidipoondi (dist Tiruvallur). Chembarabakkam\_CMWSSB (dist Kancheepuram) 12 each, Thirukalukundram (dist Chengalpattu), Pechiparai (dist Kanniyakumari), Zone 05 Royapuram (dist Chennai) 11 each, Minnal (dist Ranipet), Zone 04 Tondiarpet (dist Chennai) 10 each, Chengalpattu (dist Chengalpattu), Zone 12 D156 Mugalivakkam (dist Chennai), Wallajah (dist Ranipet), Perunchani Dam (dist Kanniyakumari), Tiruttani PTO (dist Tiruvallur) 9 each, Zone 03 Puzhal (dist Chennai), Puthan Dam (dist Kanniyakumari), Panapakkam (dist Ranipet), Zone 09 Teynampet (dist Chennai) 8 each, R.K.Pet (dist Tiruvallur), Walajabad (dist Kancheepuram), Pallipattu (dist Tiruvallur), Vembakkam (dist Tiruvannamalai), Sholingur (dist Ranipet), Kuzhithurai (dist Kanniyakumari) 7 each.

#### Coastal Andhra Pradesh & Yanam:

Bapatla (dist Bapatla) 22, Nellore (dist Spsr Nellore) 22, Rapur (dist Spsr Nellore) 21, Atmakur (dist Spsr Nellore) 19, Amalapuram (dist B R Ambedkar Konaseema) 17, Addanki (dist Bapatla) 17, Karamchedu (dist Bapatla) 17, Masulipatnam Cdr (dist Krishna) 16, Kavali (dist Spsr Nellore) 15, Avanigada (dist Krishna) 14, Vinjamur (dist Spsr Nellore) 14, Udayagiri (dist Spsr Nellore) 13, Ongole (dist Prakasam) 12, Repalle (dist Bapatla) 11, Kandukur (dist Spsr Nellore) 11, Konakanamitla (dist Prakasam) 9, Gudivada (dist Krishna) 9, Santhamaguluru (dist Bapatla) 9, Tenali (dist Guntur) 8, Kakinada (dist Kakinada) 8, Yanam (dist Yanam) 8, Marripudi (dist Prakasam) 7, Veligandla (dist Prakasam) 7, Mundlamuru (dist Prakasam) 7, Guntur (dist Guntur) 7, Seetharamapuram (dist Spsr Nellore) 7, Tanuku (dist West Godavari) 7, Vijayawada (dist Ntr District) 7, Peddapuram (dist Kakinada) 7.

#### Rayalaseema:

Gudur (dist Tirupati) 28, Srikalahasti (dist Tirupati) 24, Kodur (dist Ysr District) 24, Thottambedu (dist Tirupati) 23, Sullurpeta (dist Tirupati) 23, Penagaluru (dist Annamayya District) 23, Tada (dist Tirupati) 20, Venkatagiri (dist Tirupati) 18, Satyavedu (dist Tirupati) 14, Nagari (dist Chittoor) 13, Tirupati Aero (dist Tirupati) 13, Rajampet (dist Annamayya District) 12, Atlur (dist Ysr District) 9, Badvel (dist Ysr District) 8, Gurramkonda (dist Annamayya District) 7, Kalakada (dist Annamayya District) 7, Sambepalle (dist Annamayya District) 7, Royachoti (dist Annamayya District) 7, Pullampeta (dist Annamayya District) 7, Chinnamandem (dist Annamayya District) 7, Cuddapah (dist Ysr District) 7.

IMD: India Meteorological Department AWS: Automatic Weather Station ARG: Automatic Rain Guage KVK: Krishi Vigyan Kendra AMFU: Agriculture Field Meteorological Unit