



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL CYCLONE ADVISORY NO. 22

#### FROM: RSMC TROPICAL CYCLONES NEW DELHI DATED 05.12.2023

FROM: RSMC -TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR) STORM WARNING CENTRE, BANGKOK (THAILAND) STORM WARNING CENTRE, COLOMBO (SRILANKA) STORM WARNING CENTRE, DHAKA (BANGLADESH) STORM WARNING CENTRE, KARACHI (PAKISTAN) METEOROLOGICAL OFFICE, MALE (MALDIVES) OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH) YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH) NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH) PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH) IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH) QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 22 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1730 UTC OF 05.12.2023 BASED ON 1500 UTC OF 05.12.2023

## 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 NEARLY NORTHWARDS WITH A SPEED OF 11 KMPH DURING PAST 06 HOURS, LAY CENTERED AT 1500 UTC OF TODAY, THE 5TH DECEMBER, 2023 OVER COASTAL ANDHRA PRADESH NEAR LATITUDE 16.4°N AND LONGITUDE 80.4°E, ABOUT 60 KM NORTH-NORTHWEST OF BAPATLA (43220), 90 KM SOUTH-SOUTHEAST OF KHAMMAM (43137), AND 110 KM NORTH-NORTHEAST OF ONGOLE (43221).

THE SYSTEM LIKELY TO CONTINUE TO MOVE NEARLY NORTHWARD AND WEAKEN FURTHER INTO A DEEP DEPRESSION BY 1800 UTC OF TODAY, THE 5TH DECEMBER, 2023.

DATE/TIME (UTC)	POSITION (LAT. ⁰N/ LONG. ⁰E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
05.12.23/1500	16.4/80.4	60-70 KMPH GUSTING TO 80 KMP	CYCLONIC STORM
05.12.23/1800	16.5/80.4	50-60 KMPH GUSTING TO 70 KMP	DEEP DEPRESSION
06.12.23/0000	17.0/80.5	35-45 KMPH GUSTING TO 55 KMP	DEPRESSION

### TRACK AND INTENSITY FORECASTS:

INSAT-3D IMAGERY AT 1600 UTC OF 5<sup>TH</sup> DECEMBER, INDICATES CENTER IS POORLY DEFINED AND ITS ASSOCIATED WITH THE SYSTEM BROKEN LOW/MEDIUM CLOUDS WITH EMBEDED INTENSE TO VERY INTENSE CONVECTION LAY OVER WESTCENTRAL BAY OF BENGAL BETWEEN COASTAL ANDHRA PRADESH, SOUTH EAST TELANGANA, AND SOUTH CHHATTISGARH. MODERATE CONVECTION LAY OVER NORTH TELANGANA, VIDARBHA, EAST MADHRA PRADESH, NORTH CHHATTISGARH AND ORISSA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 80 DEGREE CELSIUS.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 35 KNOTS GUSTING TO 45 KNOTS. IT IS LIKELY TO DECRESSE AND BECOME 30 KNOTS GUSTING TO 40 KNOTS DURING NEXT 3 HOURS. ESTIMATED CENTRAL PRESSURE IS 999 HPA. SEA CONDITION IS HIGH OVER WESTCENTRAL BAY OF BENGAL AND ALONG & OFF SOUTH ANDHRA PRADESH COAST.

THE CURRENT MAXIMUM SUSTAINED WIND SPEED IS 60-70 KMPH GUSTING TO 80 KMPH. AS THE SYSTEM IS COMPLETELY OVER THE LAND, DUE TO THE LAND INTERACTION THE SYSTEM WILL FURTHER WEAKEN INTO DEEP DEPRESSION BY 1800 UTC OF TODAY, THE 5TH DECEMBER, 2023.

(ARULALAN T) RSMC NEW DELHI



## INSAT 3D IMAGE BASED ON 1600 UTC OF 05TH DECEMBER 2023



## MAXIMUM REFLECTIVITY FROM DWR VISHAKHAPATNAM BASED ON 1711 UTC OF $05^{\rm TH}$ DECEMBER 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 $5^{TH}$ DECEMBER 2023.





## 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

