



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI
TROPICAL CYCLONE ADVISORY NO. 02**

DEMS-RSMCSPECIAL TROPICAL CYCLONES NEW DELHI DATED 30.08.2024

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. 2 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1200 UTC OF 30.08.2024 BASED ON 0900 UTC OF 26.05.2024

SUB: (A) CYCLONIC STORM “ASNA” (PRONOUNCED AS AS-NA) OVER KACHCHH COAST AND ADJOINING AREAS OF PAKISTAN & NORTHEAST ARABIAN SEA AND (B) WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL

(A) CYCLONIC STORM “ASNA” (PRONOUNCED AS AS-NA) OVER NORTHEAST ARABIAN SEA OFF KACHCHH AND PAKISTAN COASTS

THE CYCLONIC STORM “ASNA” (PRONOUNCED AS AS-NA) OVER KACHCHH COAST AND ADJOINING AREAS OF PAKISTAN & NORTHEAST ARABIAN SEA MOVED WESTWARDS WITH A SPEED OF 12 KMPH DURING PAST 6 HOURS AND LAY CENTERED AT 0900 UTC OF 30TH AUGUST, 2024 OVER NORTHEAST ARABIAN SEA OFF KACHCHH AND ADJOINING PAKISTAN COASTS NEAR LATITUDE 23.5°N AND LONGITUDE 67.5°E, 240 KM WEST OF BHUJ (GUJARAT), 140 KM WEST-NORTHWEST OF NALIYA (GUJARAT) AND 160 KM SOUTH-SOUTHEAST OF KARACHI (PAKISTAN).

IT IS LIKELY TO CONTINUE TO MOVE NEARLY WEST-NORTHWESTWARDS OVER NORTHEAST ARABIAN SEA AWAY FROM INDIAN COAST DURING SUBSEQUENT 2 DAYS.

CLOUDS OVER ARABIAN SEA: INSAT 3DR IMAGERY, AT 0900 UTC OF 30TH AUGUST INTENSITY OF THE SYSTEM IS CHARACTERISED AS T 2.5. SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER NORTHEAST ARABIAN SEA, KUTCH AND GULF OF KUTCH (MINIMUM CLOUD TOP TEMPERATURE IS MINUS 90°C. MODERATE TO INTENSE CONVECTION OVER SOUTH PAKISTAN AND SAURASHTRA.

ASSOCIATED MAXIMUM SUSTAINED WIND SPEED IS 35 KTS GUSTING TO 45 KTS. ESTIMATED CENTRAL PRESSURE IS 992 HPA. AT 1200 UTC, NALIYA REPORTED MEAN SEA LEVEL PRESSURE OF 997.9 HPA. REPORTED MEAN WIND SPEED IS 200⁰/04 KT.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
30.08.24/0900	23.5/67.5	60-70 GUSTING TO 80	CYCLONIC STORM
30.08.24/1200	23.5/67.3	65-75 GUSTING TO 85	CYCLONIC STORM
30.08.24/1800	23.6/66.8	70-80 GUSTING TO 90	CYCLONIC STORM
31.08.24/0000	23.7/65.9	70-80 GUSTING TO 90	CYCLONIC STORM
31.08.24/0600	23.8/65.1	70-80 GUSTING TO 90	CYCLONIC STORM
31.08.24/1800	23.7/63.3	60-70 GUSTING TO 80	CYCLONIC STORM
01.09.24/0600	23.6/61.7	50-60 GUSTING TO 70	DEEP DEPRESSION
01.09.24/1800	23.0/60.5	40-50 GUSTING TO 60	DEPRESSION

Warnings:

SEA CONDITION AND ADVISORY FOR FISHERMEN IN ASSOCIATION WITH THE MOVEMENT OF THE SYSTEM OVER SAURASHTRA & KUTCH AND ADJOINING PAKISTAN AND NORTHEAST ARABIAN SEA FROM INDIA TILL 01ST SEPTEMBER:

WIND WARNING:

- SQUALLY WIND SPEED REACHING 45-55 KMPH GUSTING TO 65 KMPH IS LIKELY OVER THE INTERIOR DISTRICTS OF SOUTH GUJARAT REGION AND SAURASHTRA & KUTCH ON THE 30TH AUGUST.
- SQUALLY WIND SPEED REACHING 60-70 KMPH GUSTING TO 80 KMPH IS PREVAILING ALONG & OFF GUJARAT COASTS & ADJOINING PAKISTAN COASTS AND OVER NORTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA. IT IS LIKELY TO INCREASE BECOMING 70-80 KMPH GUSTING TO 90 KMPH OVER NORTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA FROM 1500 UTC OF 30TH AUGUST TILL 1ST SEPTEMBER 0000 UTC AND DECREASE GRADUALLY THEREAFTER.
- GALE WIND SPEED REACHING 65-75 KMPH GUSTING TO 85 KMPH IS LIKELY TO PREVAIL OVER NORTHWEST AND ADJOINING WESTCENTRAL ARABIAN SEA OFF PAKISTAN AND SOUTHEAST IRAN COASTS FROM 0000 UTC OF 31ST AUGUST TILL 0000 UTC OF 1ST SEPTEMBER. THEREAFTER, THE WINDS WOULD GRADUALLY DECREASE GRADUALLY BECOMING SQUALLY WIND SPEED REACHING 50-60 KMPH GUSTING TO 70 KMPH BY 1200 UTC OF 1ST SEPTEMBER AND 40-50 KMPH GUSTING TO 60 KMPH BY 0000 UTC OF 2ND SEPTEMBER.
- STRONG WIND SPEED REACHING 40-50 KMPH GUSTING TO 60 KMPH IS LIKELY TO PREVAIL ALONG AND OFF NORTH MAHARASHTRA COASTS DURING 30TH TO 31ST AUGUST.

SEA CONDITION:

- SQUALLY WEATHER WITH ROUGH TO VERY ROUGH SEA CONDITIONS IS VERY LIKELY TO PREVAIL ALONG & OFF GUJARAT & ADJOINING NORTH MAHARASHTRA COASTS TILL 31ST AUGUST.
- VERY ROUGH TO HIGH SEA CONDITION IS LIKELY TO PREVAIL OVER NORTHEAST & ADJOINING EASTCENTRAL AND ARABIAN SEA OFF GUJARAT COAST AND ALONG & OFF PAKISTAN COASTS DURING 30TH AUGUST TO 1ST SEPTEMBER.
- VERY ROUGH TO HIGH SEA CONDITION IS LIKELY TO PREVAIL OVER NORTHWEST AND ADJOINING WESTCENTRAL ARABIAN SEA OFF PAKISTAN AND SOUTHEAST IRAN COASTS FROM 31ST AUGUST TILL 2ND SEPTEMBER.

FISHERMEN WARNING:

FISHERMEN ARE ADVISED NOT VENTURE INTO

- NORTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA AND ALONG & OFF GUJARAT & ADJOINING NORTH MAHARASHTRA COASTS TILL 31ST AUGUST.
- NORTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA OFF GUJARAT COAST AND ALONG & OFF PAKISTAN COASTS DURING 30TH AUGUST TO 1ST SEPTEMBER.
- NORTHWEST & ADJOINING WESTCENTRAL ARABIAN SEA AND ALONG & OFF PAKISTAN AND SOUTHEAST IRAN COASTS FROM 31ST AUGUST TILL 2ND SEPTEMBER.

(B) WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL

THE LOW PRESSURE AREA OVER WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL OFF NORTH ANDHRA PRADESH & SOUTH ODISHA MOVED WEST-NORTHWESTWARDS, BECAME A WELL MARKED LOW PRESSURE AREA OVER THE SAME REGION AT 0900 UTC OF 30TH AUGUST, 2024.

IT IS LIKELY TO MOVE FURTHER WEST-NORTHWESTWARDS TOWARDS NORTH ANDHRA PRADESH AND ADJOINING SOUTH ODISHA COASTS, INTENSIFY INTO A DEPRESSION OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL DURING NEXT 36 HOURS.

SEA CONDITION AND ADVISORY FOR FISHERMEN IN ASSOCIATION WITH THE MOVEMENT OF THE SYSTEM OVER THE BAY OF BENGAL

WIND WARNING:

- SQUALLY WEATHER WITH WIND SPEED REACHING 30-40 KMPH GUSTING TO 50 KMPH IS LIKELY TO PREVAIL OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL ON 30TH BECOMING 45-55 KMPH GUSTING TO 65 KMPH ON 31ST AUGUST.
- SQUALLY WIND SPEED REACHING 45-55 KMPH GUSTING TO 65 KMPH IS LIKELY TO PREVAIL ALONG & OFF NORTH ANDHRA PRADESH & SOUTH ODISHA COASTS ON 31ST AUGUST.

SEA CONDITION:

- ROUGH SEA CONDITION IS VERY LIKELY TO PREVAIL OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL TILL 31ST AUGUST.
- ROUGH SEA CONDITION IS VERY LIKELY TO PREVAIL ALONG & OFF NORTH ANDHRA PRADESH & SOUTH ODISHA COASTS ON 31 AUGUST.

FISHERMEN WARNING:

FISHERMEN ARE ADVISED NOT VENTURE INTO WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL TILL 31ST AUGUST AND ALONG & OFF SOUTH ODISHA AND NORTH ANDHRA PRADESH COASTS ON 31ST AUGUST.

ADVISORY FOR OFFSHORE/ONSHORE EXPLORATION AND PRODUCTION (E & P) OPERATORS:

THE SMALL SHIPS AND OFFSHORE -ONSHORE E & P OPERATORS, SHIPPING AND PORT AUTHORITIES ALONG & OFF GUJARAT & NORTH MAHARASHTRA COASTS AND NORTHEAST & ADJOINING EASTCENTRAL ARABIAN SEA ARE ADVISED TO KEEP WATCH ON DEVELOPING WEATHER AND TAKE NECESSARY ACTIONS ON 30TH AUGUST.

ASSOCIATED SCATTERED TO BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER NORTH COASTAL ANDHRA PRADESH, CENTRAL AND ADJOINING NORTH BAY OF BENGAL (MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93⁰C).

***PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:**

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
LOW	LOW	MOD	-	-	-	-

***NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY**

REMARKS:

THE MADDEN JULIAN OSCILLATION (MJO) INDEX IS CURRENTLY IN PHASE 4 AND WOULD MOVE TO PHASE 5 FROM 30TH AUGUST WITH AMPLITUDE GREATER THAN 1. IT WILL MOVE ACROSS THE SAME PHASE DURING NEXT 2 WEEKS WITH AMPLITUDE REMAINING HIGHER THAN 1 THROUGHOUT. MJO PHASE AND AMPLITUDE IS HIGHLY FAVOURABLE FOR ENHANCEMENT OF CONVECTIVE ACTIVITY OVER THE BAY OF BENGAL.

THE NCICS FORECASTS INDICATE MJO WAVE MOVING EASTWARDS AND IS SEEN OVER ENTIRE SOUTH ARABIAN SEA (AS), SOUTHERN PENINSULAR INDIA AND SOUTH BAY OF BENGAL DURING WEEK 1. WESTERLY WINDS (1-3 MPS) OVER SOUTH AS AND HIGHER WINDS (3-5 MPS) OVER SOUTH BOB ALONGWITH STRONG EASTERLY WINDS (3-5 MPS) OVER NORTH BOB AND EASTERN STATES OF INDIA ARE ALSO SEEN DURING WEEK 1. OVER THE EASTERN PARTS OF INDIA ROSSBY ARE ALSO SEEN PROPAGATING WESTWARDS. THESE FEATURES INDICATE A CONDUCIVE ENVIRONMENT FOR CYCLOGENESIS OVER BOB. THE DEEP DEPRESSION OVER COASTAL KACHCHH & ADJOINING AREAS OF SAURASHTRA, NORTHEAST ARABIAN SEA AND PAKISTAN WILL ALSO GET ENHANCED MOISTURE FEED BACK FROM ARABIAN SEA DURING WEEK 1.

DURING WEEK 2, SIMILAR FEATURES ARE SEEN OVER THE BOB. PRESENCE OF ROSSBY WAVES, MJO, STRONG WESTERLY WINDS (5-7 MPS) OVER SOUTH BOB AND EASTERLY WINDS (3-5MPS) OVER NORTH BOB AND ADJOINING EASTERN STATES OF INDIA. THESE FEATURES INDICATE FAVOURABLE ENVIRONMENT FOR CYCLOGENESIS OVER THE BOB DURING WEEK 2 AS WELL.

CONSIDERING THE EXISTING ENVIRONMENTAL CONDITIONS, THE SEA SURFACE TEMPERATURE OVER THE BOB AND ARABIAN SEA IS 28-30⁰C. IT IS COLDER (<26⁰C) OVER WESTCENTRAL AS AND VERY WARM (>32⁰C) OVER GULF OF ADEN. TROPICAL CYCLONE HEAT POTENTIAL (TCHP) IS HIGH (>100 KJ/CM²) OVER CENTRAL BOB AND LESS (<50 KJ/CM²) OVER NORTH & ADJOINING CENTRAL AS. SEA CONDITIONS INDICATE THAT THE CYCLONE ASNA OVER KACHCHH COAST & ADJOINING AREAS OF PAKISTAN AND

NORTHEAST ARABIAN SEA WILL ENCOUNTER COLDER SEA CONDITIONS IN AS AND HENCE WOULD NOT INTENSIFY SIGNIFICANTLY.

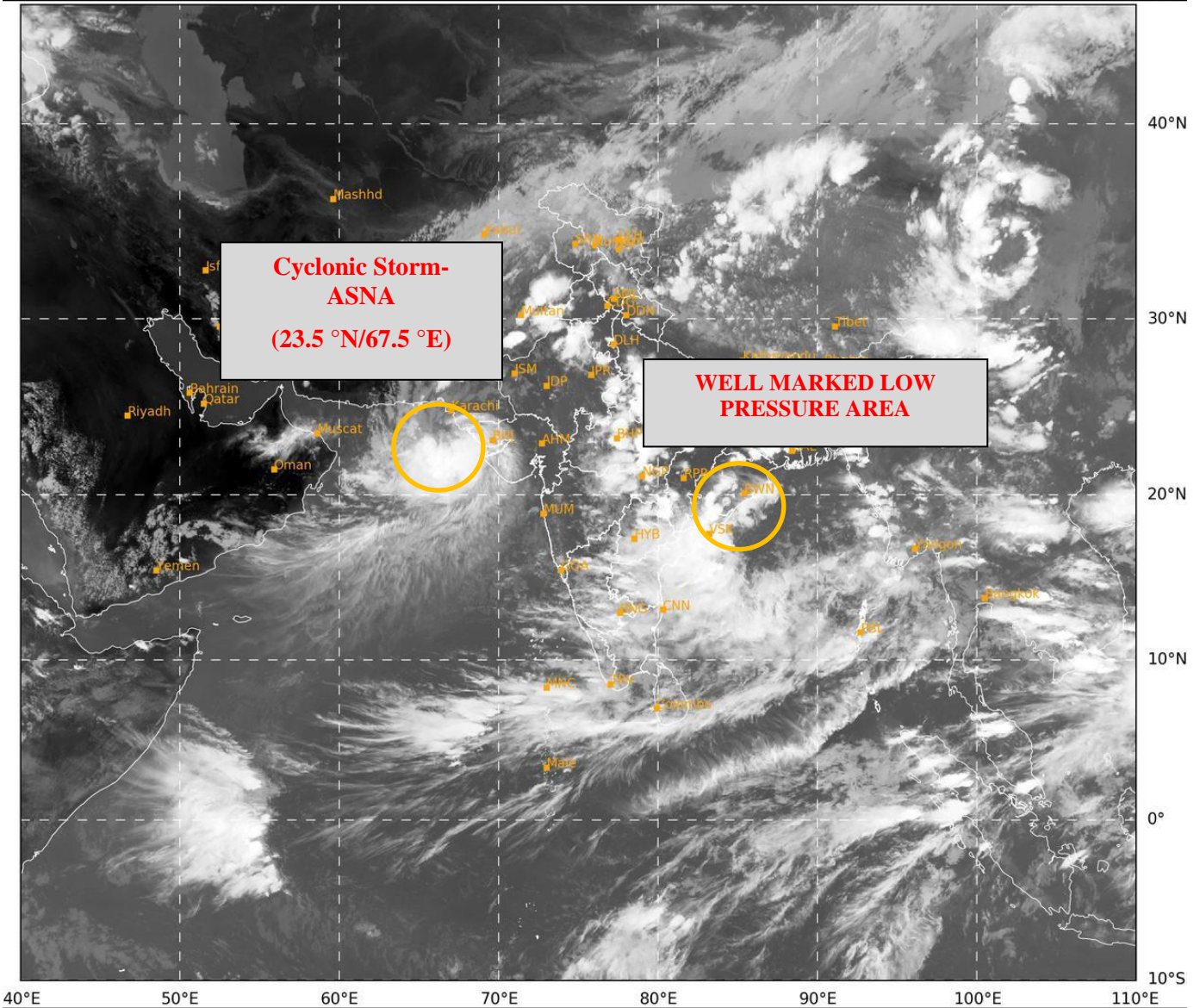
THE LOW LEVEL VORTICITY IS $200 \times 10^{-5} \text{ S}^{-1}$ NEAR SYSTEM AREA OVER THE SAURASHTRA & KACHCHH REGION. LOW LEVEL CONVERGENCE IS $20 \times 10^{-5} \text{ S}^{-1}$ OVER SOUTH-WEST OF THE SYSTEM CENTRE AND UPPER LEVEL DIVERGENCE IS ALSO $20 \times 10^{-5} \text{ S}^{-1}$ OVER SOUTH-WEST OF THE SYSTEM CENTRE EXTENDING UPTO WESTCENTRAL AS. WIND SHEAR IS LOW TO MODERATE OVER SAURASHTRA & KACHCHH AND ADJOINING NORTHEAST AS. THESE FEATURES INDICATE THAT THE CYCLONIC STORM ASNA OVER KACHCHH COAST & ADJOINING AREAS OF PAKISTAN AND NORTHEAST ARABIAN SEA IS IN A FAVOURABLE ENVIRONMENT TO MAINTAIN ITS INTENSIFICATION. THE UPPER TROPOSPHERIC RIDGE IS NEAR 30°N . A WESTERLY TROUGH IS APPROACHING THE INDIAN REGION AND IS CURRENTLY EXTENDING UPTO 28°N ALONG 62°E . THE SYSTEM IS TRACKING WESTWARDS UNDER THE INFLUENCE OF EASTERLIES PREVAILING TO THE SOUTH OF RIDGE..

OVER THE BOB, THE LOW LEVEL VORTICITY IS POSITIVE AND IS AROUND $100 \times 10^{-5} \text{ S}^{-1}$ OVER CENTRAL BOB WITH EXTENSION UPTO MID TROPOSPHERIC LEVELS. LOW LEVEL CONVERGENCE IS $20 \times 10^{-5} \text{ S}^{-1}$ TO THE SOUTH OF LOW PRESSURE AREA AND UPPER LEVEL DIVERGENCE IS ALSO $10\text{-}20 \times 10^{-5} \text{ S}^{-1}$ TO THE SOUTHWEST OF SYSTEM AREA EXTENDING UPTO SOUTHWEST BOB. WIND SHEAR IS LOW TO MODERATE OVER CENTRAL AND NORTH BOB. LOWER LEVEL WINDS INDICATE BROADSCALE CIRCULATION DEVELOPING OVER THE CENTRAL BOB.

CONSIDERING ALL THE ABOVE, IT IS INFERRED THAT:

- (1) CYCLONIC STORM "ASNA" (PRONOUNCED AS AS-NA) OVER **NORTHEAST ARABIAN SEA OFF KACHCHH AND PAKISTAN COASTS** IS LIKELY TO CONTINUE TO MOVE NEARLY WEST-NORTHWESTWARDS OVER NORTHEAST ARABIAN SEA AWAY FROM INDIAN COAST DURING SUBSEQUENT 2 DAYS.
- (2) WELL MARKED LOW PRESSURE AREA OVER WESTCENTRAL & ADJOINING NORTHWEST BAY OF BENGAL IS LIKELY TO MOVE FURTHER WEST-NORTHWESTWARDS TOWARDS NORTH ANDHRA PRADESH AND ADJOINING SOUTH ODISHA COASTS, INTENSIFY INTO A DEPRESSION OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL DURING NEXT 36 HOURS.

(MONICA SHARMA)
SCIENTIST-D
RSMC NEW DELHI



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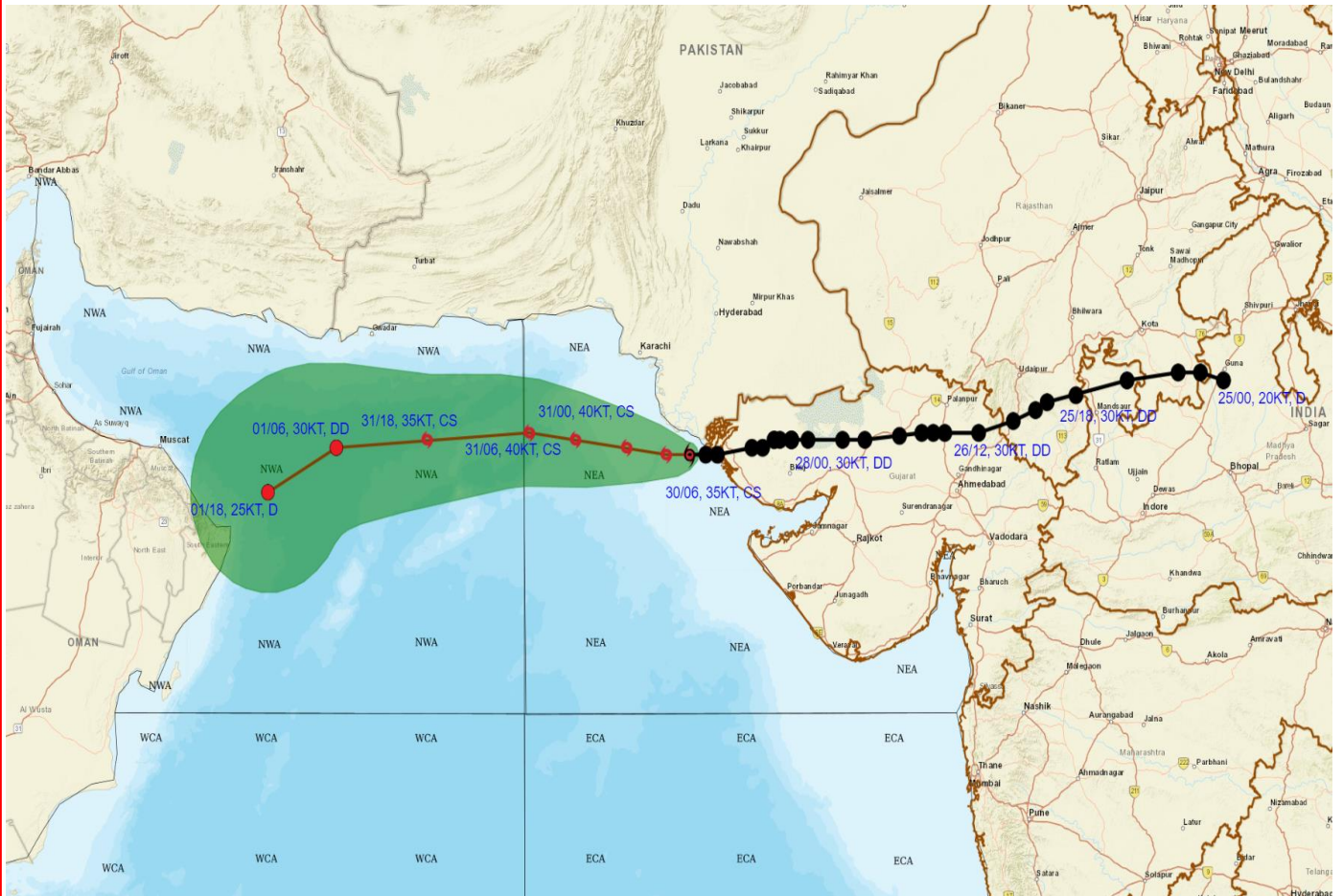
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IMD, DELHI

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C
PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION):NIL: 0%, LOW: 1-33%, , MODERATE: 34-66% AND HIGH: 67-100%
This is a guidance Bulletin for WMO/ESCAP Panel Member countries. Visit respective National websites for Country specific Bulletins



OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER KACHCHH COAST AND ADJOINING AREAS OF PAKISTAN & NORTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 30TH AUGUST, 2024.



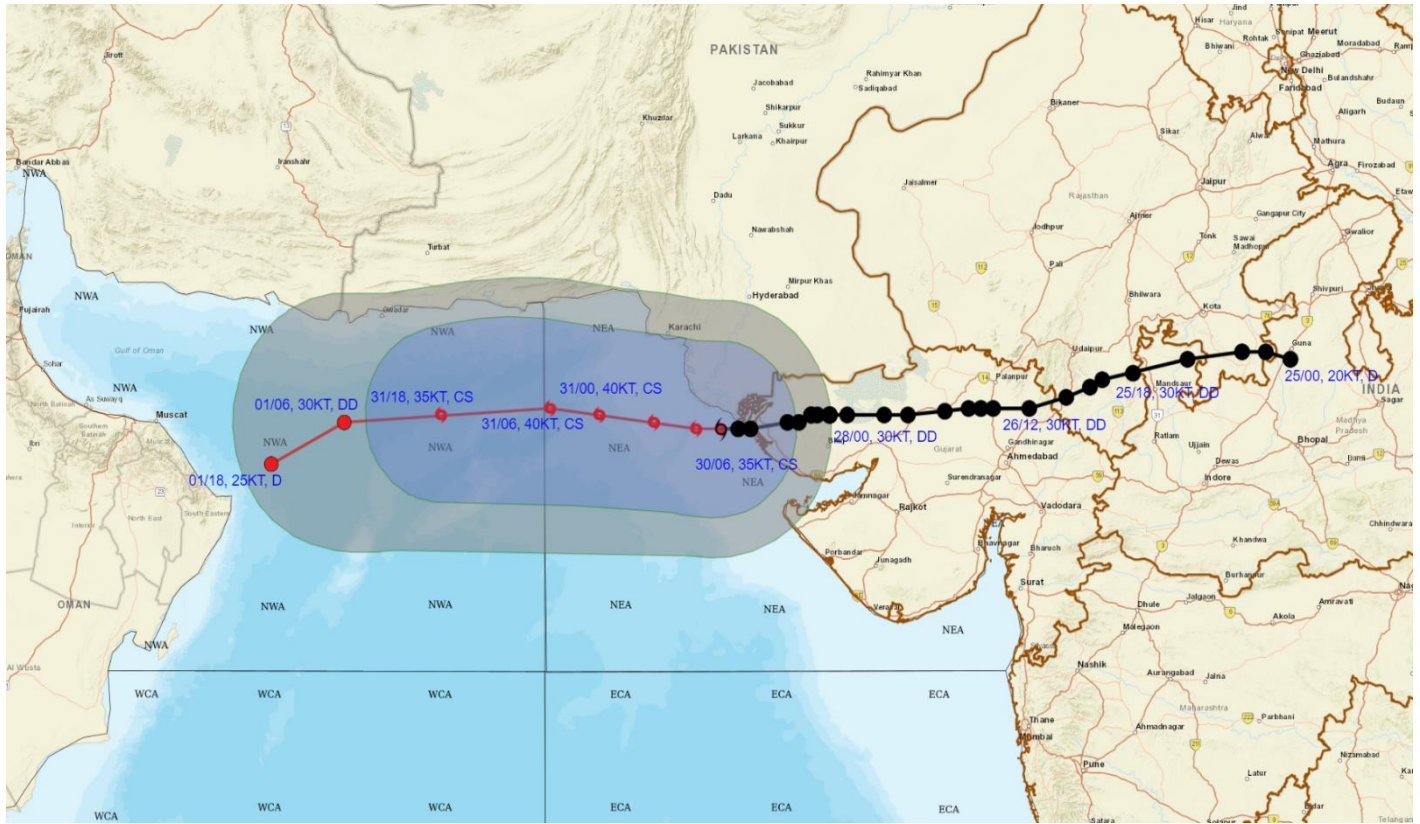
DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

LESS THAN 34 KT
34-47 KT
 ≥ 48 KT
OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C
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OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM ASNA OVER KACHCHH COAST AND ADJOINING AREAS OF PAKISTAN & NORTHEAST ARABIAN SEA BASED ON 0600 UTC (1130 IST) OF 30TH AUGUST, 2024



DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
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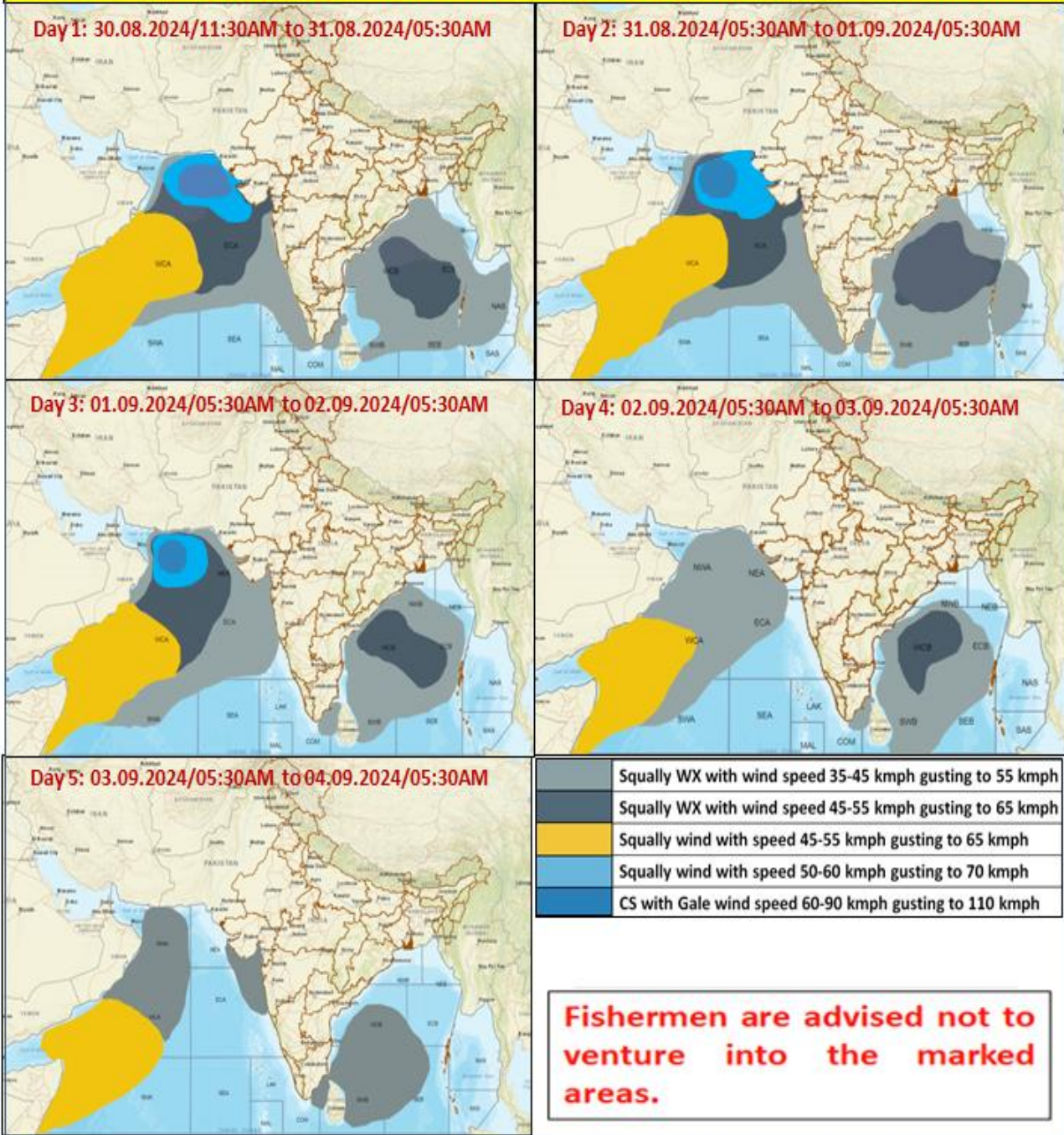
● LESS THAN 34 KT
 ⚡ 34-47 KT
 ⚡ 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 — CONE OF UNCERTAINTY
AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature (CTT) >-25°C, (b) Moderate: CTT: - 25°C to -40°C, (c) Intense: CTT: - 41°C to -70°C and (d) Very Intense: : Less than -70°C
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Fishermen Warning Graphics



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