



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI  
TROPICAL CYCLONE ADVISORY NO. 30

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 14.05.2023

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. 30 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1630 UTC OF 14.05.2023 BASED ON 1500 UTC OF 14.05.2023

SUBJECT: VERY SEVERE CYCLONIC STORM “MOCHA” WEAKENED INTO A SEVERE CYCLONIC STORM OVER MYANMAR

THE VERY SEVERE CYCLONIC STORM “MOCHA” (PRONOUNCED AS “MOKHA”) OVER MYANMAR MOVED NORTH-NORTHEASTWARDS WITH A SPEED OF 28 KMPH DURING PAST 6 HOURS, WEAKENED INTO A SEVERE CYCLONIC STORM AND LAY CENTRED AT 1500 UTC OF TODAY, THE 14<sup>TH</sup> MAY OVER MYANMAR NEAR LATITUDE 21.8°N AND LONGITUDE 93.8°E ABOUT 120 KM NORTH-NORTHEAST OF SITTWE (MYANMAR, 48062), 130 KM OF WEST-NORTHWEST OF NYAUNG-U (MYANMAR, 48049), 390 KM NORTHWEST OF NAY PYI TAW (MYANMAR, 48117) AND 200 KM EAST-NORTHEAST OF COX’S BAZAR (BANGLADESH, 41992).

THE SYSTEM IS CONTINUING THE WEAKENING TREND AND WILL BECOME A CYCLONIC STORM DURING NEXT FEW HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN BELOW:

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
14.05.23/1500	21.8/93.8	110-120 GUSTING TO 130	SEVERE CYCLONIC STORM
14.05.23/1800	22.4/94.3	70-80 GUSTING TO 90	CYCLONIC STORM
15.05.23/0000	23.6/95.5	40-50 GUSTING TO 60	DEPRESSION

BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTIO LAY OVER ARAKAN COAST AND SOUTH-EAST BANGLADESH AND NORTH MYANMAR. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 85 DEG CELSIUS AND MODDRATE TO INTENSE CONVTN OVER NORTH EAST STATES & NORTH EAST BANGLADESH.

THE MAXIMUM SUSTAINED SURFACE WIND SPEED (MSW) IS 60 KNOTS GUSTING TO 70 KNOTS. THE ESTIMATED CENTRAL PRESSURE (ECP) IS ABOUT 984HPA. SEA CONDITION IS HIGH OVER NORTHEAST BAY OF BENGAL UPTO 1800 UTC OF 14<sup>TH</sup> MAY AND VERY ROUGH TO ROUGH THEREAFTER TILL 0000 UTC OF 15<sup>TH</sup> MAY. VERY ROUGH TO ROUGH OVER ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL TILL 1800 UTC OF 14<sup>TH</sup> MAY AND IMPROVE THEREAFTER.

AT 1200 UTC, NYAUNG-U (48048) REPORTED LOWEST MSLP OF 992.2 HPA AND MSW OF 220<sup>0</sup>/01 KTS IN THE REGION. KYAUKPYU (48071) REPORTED MSLP OF 997.5 HPA AND MSW OF 230<sup>0</sup>/22 KTS. TEKNAF (41998) REPORTED MSLP OF 993.1 HPA AND MSW OF 030<sup>0</sup>/04 KTS.

**STORM SURGE GUIDANCE (GRAPHICS ATTACHED) FOR NORTH MYANMAR AND ADJOINING SOUTHEAST BANGLADESH COASTS:**

STORM SURGE WITH HEIGHT OF ABOUT 0.5-1.0 M ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE LOW LYING AREAS OF NORTH MYANMAR AND ADJOINING SOUTHEAST BANGLADESH COASTS DURING NEXT SIX HOURS.

**REMARKS:**

DUE TO RUGGED TERRAINS AND HIGH WIND SHEAR OVER MYANMAR, THE SYSTEM WOULD WEAKEN RAPIDLY DURING NEXT 12 HOURS BECOMING A DEPRESSION AROUND 0000 UTC OF 15<sup>TH</sup> MAY.

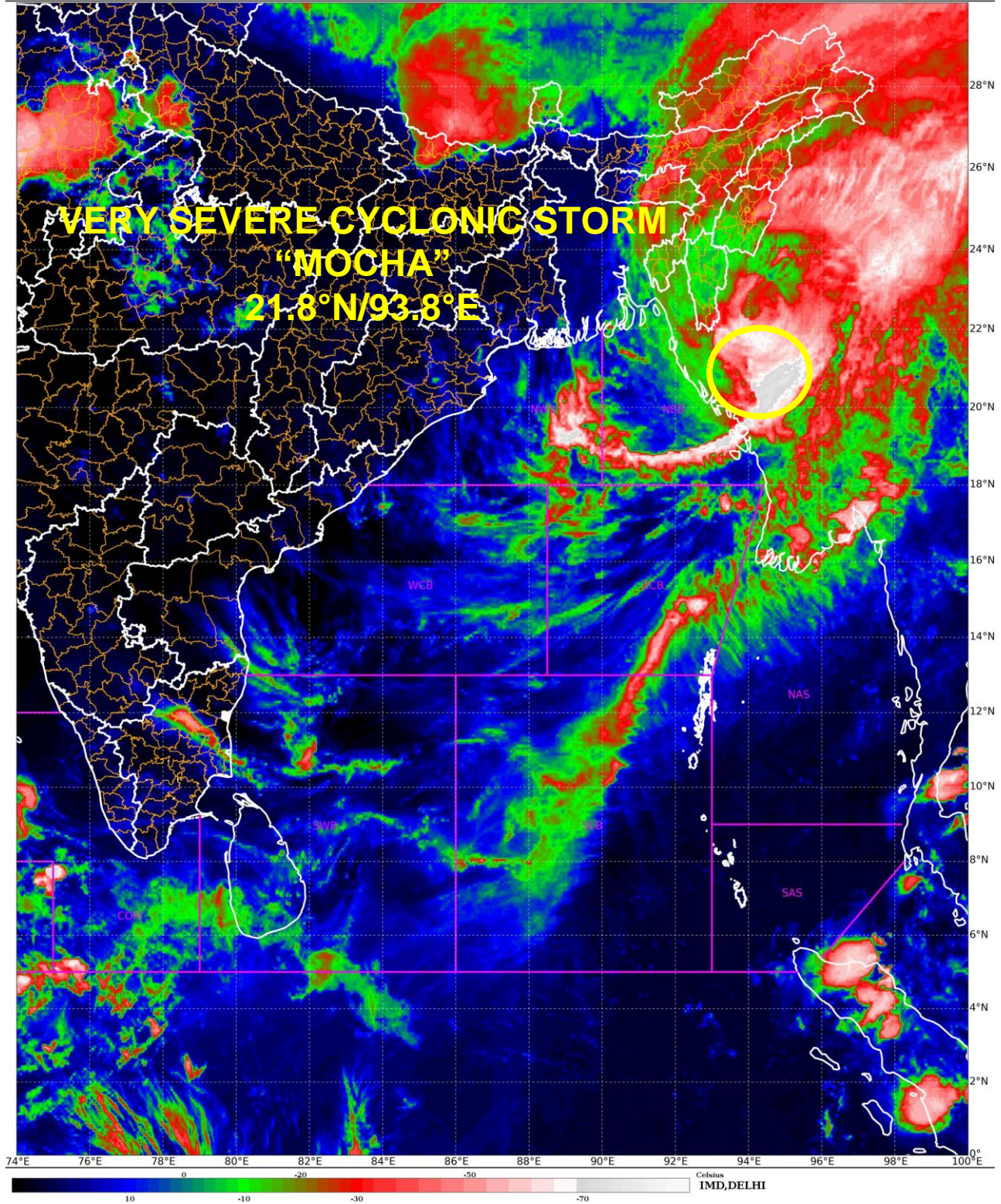
THE LOW LEVEL VORTICITY AT 850 HPA HAS REDUCED AND IS AROUND  $150-200 \times 10^{-6} \text{S}^{-1}$  TO THE SOUTH OF SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 200 HPA LEVELS. LOW LEVEL CONVERGENCE IS AROUND  $50 \times 10^{-5} \text{S}^{-1}$  TO THE SOUTHEAST OF SYSTEM CENTRE. THE UPPER LEVEL DIVERGENCE IS AROUND  $40 \times 10^{-5} \text{S}^{-1}$  TO THE NORTHEAST OF SYTEM CENTRE. THE VERTICAL WIND SHEAR IS HIGH (30-40 KNOTS) OVER SYSTEM AREA AND IS INCREASING ALONG THE FORECAST TRACK. POLEWARD & EQUATORWARD OUTFLOW IS STILL SEEN. THE ENVIRONMETAL CONDITIONS INCLUDING POLEWARD OUTFLOW, HIGHER VALUES OF LOW LEVEL VORTICITY, CONVERGENCE AND DIVERGENCE WOULD FAVOUR THE SYSTEM TO MAINTAIN ITS INTENSITY OF CYCLONIC STORM DURING NEXT 6-9 HOURS. HOWEVER, AS THE SYSTEM IS MOVING OVER RUGGED TERRAINS OF MYANMAR HILLS AND WIND SHEAR IS HIGH OVER THE REGION, WEAKENING OF THE SYSTEM INTO A DEPRESSION IS LIKELY AROUND 0000 UTC OF 15<sup>TH</sup> MAY.

(S. P SINGH)  
SCIENTIST-C  
RSMC NEW DELHI



SAT : INSAT-3D IMG  
IMG\_TIR1\_TEMP 10.8 um  
L1C Mercator

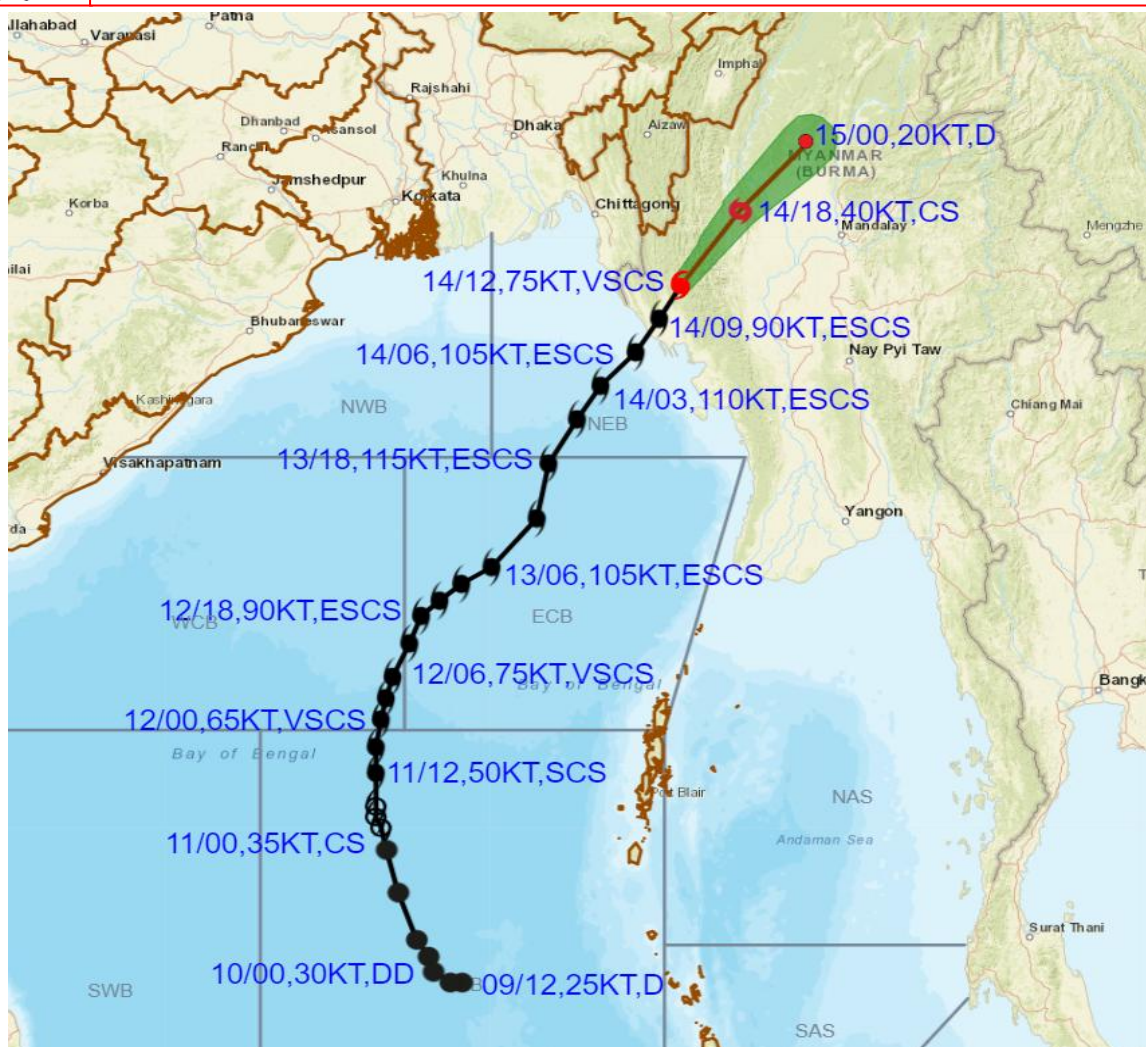
14-05-2023/(1500 to 1526) GMT  
14-05-2023/(2030 to 2056) IST







**OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF VERY SEVERE CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 1200 UTC (1730 IST) OF 14TH MAY 2023.**



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 ( $\geq 120$  KT)

● LESS THAN 34 KT

○ 34-47 KT

●  $\geq 48$  KT

— OBSERVED TRACK

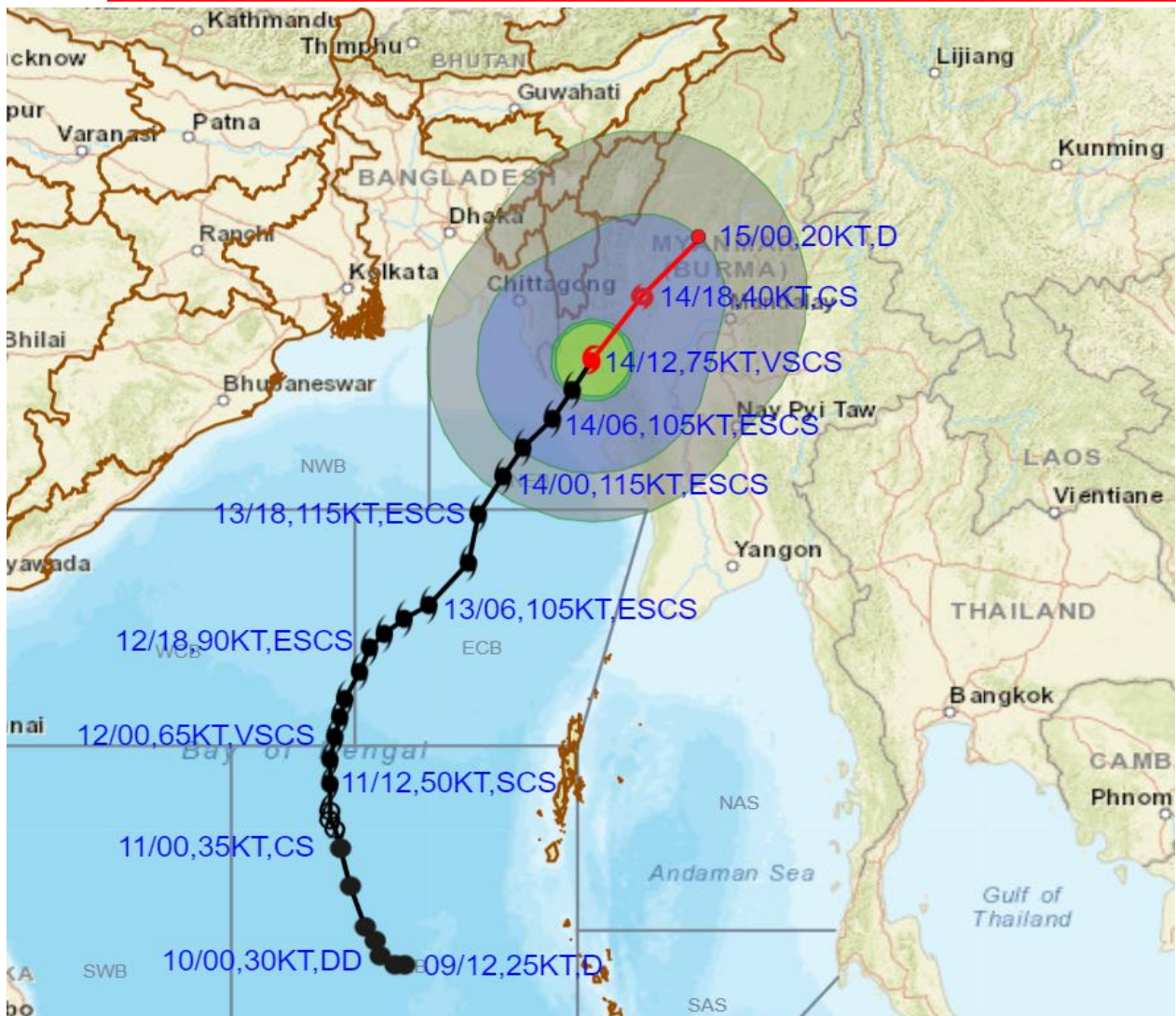
— FORECAST TRACK

▲ CONE OF UNCERTAINTY

Forecast distance (km) and direction of the centre from nearest 5 coastal stations

Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
14.05.23/1200	0	21.1	93.3	MINDAT (74,WSW)	KYAUKTAW (75,ENE)	TEKNAF (107,ENE)	SITTWE (116,NNE)	COX'S BAZAR (147,ESE)

**OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF VERY SEVERE CYCLONIC STORM MOCHA OVER MYANMAR BASED ON 1200 UTC (1730 IST) OF 14TH MAY 2023.**



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 (48-63 KT)  
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
SuCS: SUPER CYCLONIC STORM ( $\geq 120$  KT)

● LESS THAN 34 KT  
○ 34-47 KT  
●  $\geq 48$  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)  
 $\geq 64$  KT ( $\geq 118$  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
$\geq 64$ ( $\geq 118$ )	Phenomenal	Total suspension of fishing operations



## Fishermen warning graphics

