

India Meteorological Department (Ministry of Earth Sciences)

BULLETIN NUMBER: 04 (AS/02/2021)

TIME OF ISSUE:2015 HOURS IST DATED: 30.09.2021

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES, (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

CHIEF SECRETARY, MAHARASHTRA (FAX NO 022-22028594)

CHIEF SECRETARY, GUJARAT (FAX NO 079-23250305)

CHIEF SECRETARY, DAMAN, DIU, DADRA & NAGAR HAVELI (FAX NO 0260-2230775)

CHIEF SECRETARY, GOA (FAX NO 0832-2415201)

CHIEF SECRETARY, KARNATAKA (FAX NO 080-22258913)

CHIEF SECRETARY, KERALA (FAX NO 0471-2327176)

ADMINISTRATOR, LAKSHADWEEP (FAX NO 0260-2230775)

Sub: Depression over northeast Arabian Sea off Gujarat coast.

The Depression over northeast Arabian Sea off Gujarat coast moved west-northwestwards with a speed of about 15 kmph during past 6 hours and lay centred at 1730 hrs IST of today, the 30th September, 2021, over northeast Arabian Sea off Gujarat coast, near latitude 23.1°N and longitude 67.4°E, about 190 km west-northwest of Devbhoomi Dwarka (Gujarat), 200 km south-southeast of Karachi (Pakistan) and 730 km east-southeast of Chabahar Port (Iran).

It is very likely to move west-northwestwards and intensify into a Deep Depression over northeast Arabian Sea during next 12 hours. Then it is very likely to move further west-northwestwards and intensify into a Cyclonic Storm during the subsequent 12 hours. Thereafter it is likely to continue to move west-northwestwards towards Pakistan – Makran coasts, moving away from the Indian coast. The system will not hit the Indian Coast.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position	Maximum sustained surface	Category of cyclonic
	(Lat. ⁰ N/ long. ⁰ E)	wind speed (Kmph)	disturbance
30.09.21/1730	23.1/67.4	45-55 gusting to 65	Depression
01.10.21/0530	23.4/66.0	55-65 gusting to 75	Deep Depression
01.10.21/1730	23.8/64.9	75-85 gusting to 95	Cyclonic Storm
02.10.21/0530	24.4/63.5	90-100 gusting to 110	Severe Cyclonic Storm
02.10.21/1730	25.0/62.4	85-95 gusting to 105	Severe Cyclonic Storm
03.10.21/0530	25.0/61.1	70-80 gusting to 90	Cyclonic Storm

Warnings:

(i) Rainfall

• 30th Sept.: Light to moderate rainfall at most places with heavy to very heavy falls at isolated places very likely over Saurashtra & Kutch.

(ii) Wind warning

- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over northeast Arabian Sea and along & off south Gujarat coast and 40 50 kmph gusting to 60 kmph over east-central Arabian Sea along & off north Maharashtra coast during next 12 hours.
- It would gradually increase thereafter, becoming squally wind speed reaching 55-65 kmph gusting to 75 kmph over northeast Arabian Sea, 50-60 kmph gusting to 70 kmph along & off Gujarat coast and 45 – 55 kmph gusting to 65 kmph over east-central Arabian Sea along & off north Maharashtra coast from tomorrow, the 1st October, morning.
- It would further increase becoming Gale wind speed reaching 90-100 kmph gusting to 110 kmph over northeast & adjoining northwest Arabian Sea & along & off Pakistan Makran coasts, 70-80 kmph gusting to 90 kmph along & off Gujarat coast and squally wind speed reaching 40 50 kmph gusting to 60 kmph over central Arabian Sea from the morning of 2nd October and 90-100 kmph gusting to 110 kmph over north Arabian Sea and along & off Pakistan Makran coasts, 60-70 kmph gusting to 80 kmph over northern parts of central Arabian Sea and 50-60 kmph gusting to 70 kmph along & off north Gujarat coast on 2nd October 2021.

(iii) Sea condition

- Sea condition will be rough to very rough over northeast Arabian Sea and adjoining east-central Arabian Sea & along & off Gujarat north Maharashtra coasts during next 12 hours.
- It will gradually become 'High' over Northeast Arabian Sea and along & off Gujarat coast and adjoining eastcentral Arabian Sea and along and off Pakistan coast and rough to very rough along & off north Maharashtra coast on 1st October 2021.
- Sea condition will be 'High to very High' over north Arabian Sea and along and off north Pakistan Makran coasts and 'High' over adjoining central Arabian Sea, very rough to High along & off north Gujarat coast on 2nd October.
- Sea condition will be 'High to very High' over northwest & adjoining west-central Arabian Sea on 3rd
 October 2021.

(iv) Fishermen Warning

• Fishermen are advised not to venture into north & adjoining central Arabian Sea and along & off Gujarat & north Maharashtra coasts from 30th September till 2nd October 2021 and over northwest & adjoining west-central Arabian Sea on 3rd October 2021.

(v) EXPECTED IMPACT & ACTION SUGGESTED

- As the system is expected to move away from the Indian coast, apart from the impact associated with the very heavy rain events over Saurashtra & Kutch during next 24 hours, no further impact is likely over the Indian Mainland.
- However, Fishermen as well as Mariners are advised to avoid the Sea areas specified above.
- Also the On-shore & Off-shore installations located off Gujarat coast are advised to stall operations on 30th September & 1st October.
- Tourism & recreational activities along & off Gujarat coast also may be suspended on 30th Sept. & 1st October 2021.

The next bulletin will be issued at 0230 hrs IST of 1st October, 2021.

(Sunitha Devi S.) Scientist-F, RSMC, New Delhi

Copy to: ACWC Mumbai/ CWC Ahmedabadr/MC Goa/CWC Thiruvanathapuram

LEGEND: Heavy Rainfall: 64.5 to 115.5mm, Very Heavy Rainfall: 115.6 to 204.4mm Most Places: more than 76% of total stations, Isolated Places: Less than 25% of total stations



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTHEAST ARABIAN SEA OFF GUJARAT COAST BASED ON 1200 UTC OF 30TH SEPTEMBER, 2021



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

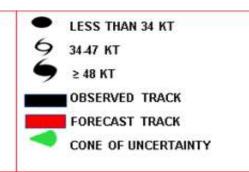
DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

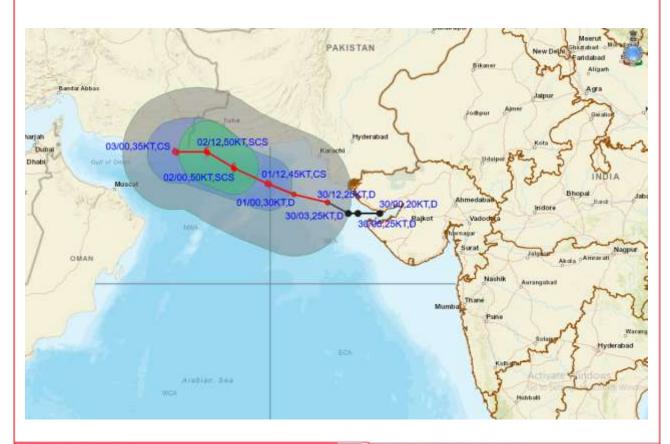
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER NORTHEAST ARABIAN SEA OFF GUJARAT COAST BASED ON 1200 UTC OF 30TH SEPTEMBER, 2021



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

AREA OF MAXIMUM SUSTAINED WIND SPEED:

28-33 KT (52-61 KMPH)

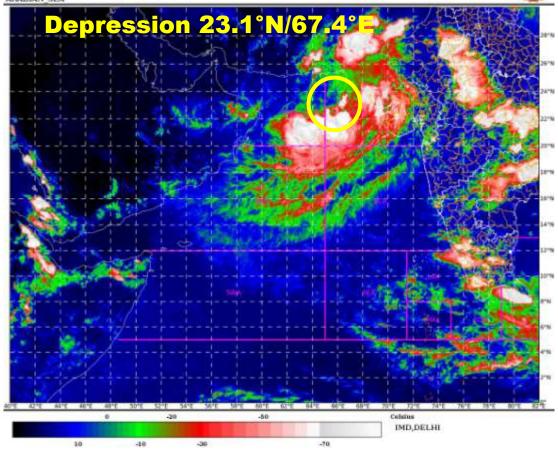
34-49 KT (62-91 KMPH)

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		





Meteorological Sub-division level heavy rainfall warning

