

India Meteorological Department Earth System Science Organisation (Ministry of Earth Sciences)

BULLETIN NO.: 24 (ARB/01/2019)

TIME OF ISSUE: 1200 HOURS IST DATED: 13.06.2019

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

TO: CONTROL ROOM, (NORTH BLOCK) MINISTRY OF HOME AFFAIRS (FAX.NO. 23092398/23093750)

CONTROL ROOM (NERC) DM DIVISION MHA (FAX . NO. 23438254)

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 (23114964)

DIRECTOR GENERAL, AIR (23421101, 23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 23438091)

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

CHIEF SECRETARY, TAMILNADU (FAX NO. 044-25672304)

CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176)

ADMINISTRATOR, LAKSHADWEEP ISLANDS (FAX NO. 04896262184)

ADMINISTRATOR, UNION TERRITORY OF DAMAN & DIU AND DADRA NAGAR HAVELI (0260-2230775)

CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22258913)

CHIEF SECRETARY, GOA (FAX NO. 0832-2415201)

CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594)

CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305)

Sub: Very Severe Cyclonic Storm 'VAYU' over Northeast & adjoining Eastcentral Arabian Sea: Cyclone Warning for Gujarat Coast: Orange Message

The **Very Severe Cyclonic Storm 'VAYU'** (pronounced as **VAA'YU**) over northeast & adjoining eastcentral Arabian Sea moved north-northwestwards with a speed of about 08 kmph in last six hours and lay centred at 0830 hrs IST of today, the 13th June, 2019 near latitude 20.4°N and longitude 69.4°E over northeast & adjoining eastcentral Arabian Sea, about 160 km south-southwest of Diu, 110 km southwest of Veraval (Gujarat) and 140 km nearly south of Porbandar (Gujarat).

It is very likely to move north-northwestwards for some time and then northwestwards skirting the Saurashtra coast affecting Gir Somnath, Diu, Junagarh, Porbandar and Devbhoomi Dwarka with wind speed 135-145 kmph gusting to 160 kmph from afternoon of 13th June 2019.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position	Maximum sustained	Category of cyclonic
	(Lat. ⁰ N/ long. ⁰ E)	surface wind speed (Kmph)	disturbance
13.06.19/0830	20.4/69.4	135-145 gusting to 160	Very Severe Cyclonic Storm
13.06.19/1130	20.8/69.4	135-145 gusting to 160	Very Severe Cyclonic Storm
13.06.19/1730	21.2/69.3	135-145 gusting to 160	Very Severe Cyclonic Storm
13.06.19/2330	21.5/69.1	130-140 gusting to 155	Very Severe Cyclonic Storm
14.06.19/0530	21.7/68.9	130-140 gusting to 155	Very Severe Cyclonic Storm
14.06.19/1730	22.0/68.5	120-130 gusting to 145	Very Severe Cyclonic Storm
15.06.19/0530	22.1/68.2	110-120 gusting to 135	Severe Cyclonic Storm
15.06.19/1730	22.2/67.8	100-110 gusting to 125	Severe Cyclonic Storm

Warnings:

(i) Heavy rainfall warning:

Sub-Divisions	13 June 2019*	14 June 2019*
Saurashtra & Kutch	Widespread rainfall with heavy to very heavy falls at few places and extremely heavy falls at isolated places in the coastal districts of Saurashtra	Widespread rainfall with heavy to very heavy falls at few places and extremely heavy falls at isolated places in the coastal districts of Saurashtra.
Gujarat Region Rainfall at a few places with heavy falls at isolated places		Rainfall at a few places

Note: * Rainfall till 0830 IST of next day.

Legends: Yellow: Be Updated; Orange- Be prepared; Red- Take action, Green: No warning

Heavy rain: 64.5-115.5 mm/day; Very heavy rain: 115.6-204.4 mm/day; Extremely heavy

rain: more than 204.4 mm/day

(ii) Wind warning

- 13th June: Gale wind speed of the order of 135-145 kmph gusting to 160 kmph very likely over north Arabian Sea & Gujarat coast. It is very likely to be 50-60 kmph gusting to 70 kmph over north Maharashtra Coasts & northern parts of eastcentral Arabian Sea.
- 14th June: Gale wind speed of the order of 120-130 kmph gusting to 145 kmph very likely over north Arabian Sea & Gujarat coast in morning hours and decrease gradually thereafter. It is very likely to be 40-50 kmph gusting to 60 kmph over northern parts of eastcentral Arabian Sea.
- 15th June: Gale wind speed of the order of 100-110 kmph gusting to 125 kmph very likely over north Arabian Sea & Gujarat coast till evening and decrease gradually thereafter.

(iii) Sea condition

- The sea condition is phenomenal over north Arabian Sea & Gujarat coast till 15th June 2019 and over northern parts of eastcentral Arabian Sea during next 12 hours.
- The Sea condition is very likely to be very rough to high along & off north Maharashtra Coast on 13th June, 2019.

(iv) Fishermen Warning

 The fishermen are advised not to venture into north Arabian Sea and along & off Gujarat coast till 15th and over Eastcentral Arabian Sea and along & off Maharashtra Coast on 13th June, 2019.

(iv) Storm Surge Warning

Storm surge of height about 0.6m to 1.3 m above the astronomical tides likely to inundate the low lying coastal areas in the districts Gir Somnath, Diu, Junagarh, Porbandar and Devbhoomi Dwarka from the afternoon of 13th June 2019.

(v) Damage Expected and Action suggested for Gir Somnath, Diu, Junagarh, Porbandar and Devbhoomi Dwarka:

(i) Total destruction of thatched houses/extensive damage to Kutcha houses. Some damage to pucca houses. Potential threat from flying objects.(ii) Bending/uprooting of power and communication poles. (iii) Major damage to Kutcha and Pucca roads. Flooding of escape routes. Minor disruption of railways, overhead power lines and signalling systems. (iv) Widespread damage to standing crops, plantation, orchards, falling of green coconuts and tearing of palm fronds. Blowing down bushy trees like mango.(v) Small boats, country crafts may get detached from moorings.(vi) Visibility severe affected.

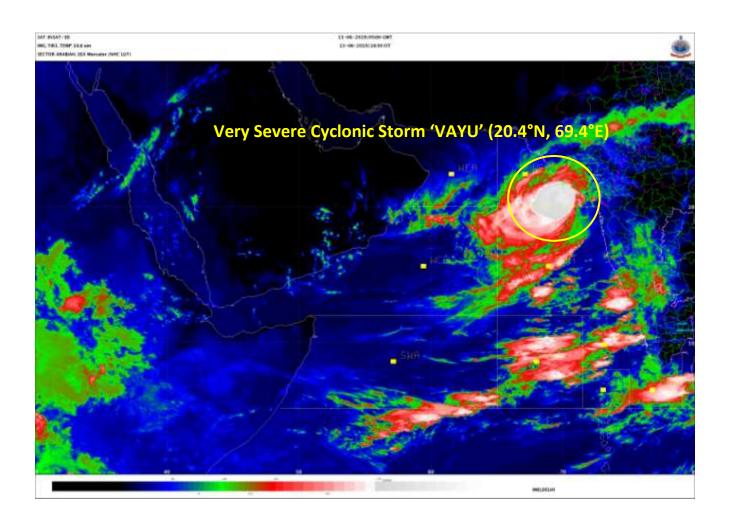
Action suggested:

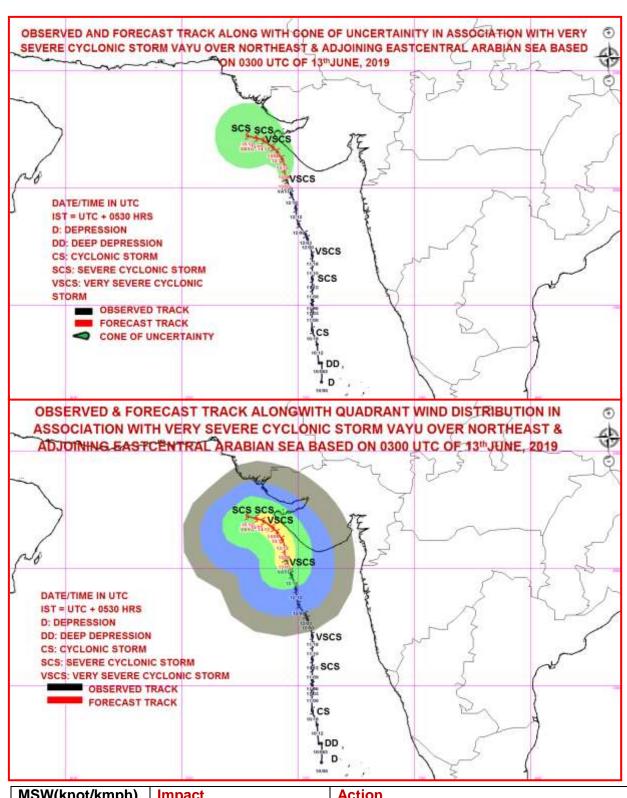
(i) Regulate road & rail traffic (ii) Total suspension of fishing operations. (iii) Evacuation from low lying areas of the above mentioned Districts, coastal Hutment dwellers, urban slum dwellers and people staying in unsafe house to safer places. People in affected areas to remain indoors.(iv) Movement in motor boats & small ships unsafe.(v) Inundation of low lying areas along the above mentioned coastal districts due to heavy rainfall and storm surge.

The next bulletin will be issued at 1430 hrs IST of 13th June, 2019.

(Sunitha Devi) Scientist-E, RSMC, New Delhi

Copy to: CRS, Pune/ ACWC Chennai/ ACWC Mumbai/MC Goa/ MC Bengaluru/CWC Ahmedabad/Thiruvanathapuram.





MSW(knot/kmph)	Impact	Action
28-33(51-62)	Very rough seas	Total suspension of fishing operations
64-89(63-91)	Very to very High seas	Total suspension of fishing operations
64-89(92-117)	Very High seas	Total suspension of fishing operations
64-89(118-166)	Very High seas	Total suspension of fishing operations