



Government of India  
Ministry of Earth Sciences  
Earth System Science Organisation



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India Meteorological Department

## PRESS RELEASE- 6

Time of issue: 1130 hours IST

Dated: 07-12-2019

**Sub: (a) Cyclonic Storm “Pawan” crossed Somalia coast and weakened into a deep depression  
(b) Low pressure area over southeast Arabian Sea and adjoining equatorial Indian Ocean**

### (a) Cyclonic Storm “Pawan” (pronounced as Pavan) over southwest Arabian Sea

Yesterday’s cyclonic storm “PAWAN” (pronounced as PAVAN) moved west-southwestwards during past 24 hours and crossed Somalia coast near Latitude 7.4°N and Longitude 49.6°E during 0730 to 0830 hrs IST of today, the 07<sup>th</sup> December 2019 as a cyclonic storm with a wind speed of 60-70 kmph gusting to 80 kmph. Moving further westwards, it weakened into a **deep depression** and lay centered at 0830 hrs IST of 07<sup>th</sup> December, 2019 over coastal Somalia and neighborhood near latitude 7.4°N and longitude 49.5°E.

It is very likely to continue to move nearly westwards and weaken into a depression during next 06 hours and into a well marked low pressure area during the subsequent 12 hours.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.12.19/0830	7.4/49.5	55-65 gusting to 75	Deep Depression
07.12.19/1130	7.2/49.0	45-55 gusting to 65	Depression
07.12.19/1730	7.0/47.8	35-45 gusting to 55	Depression

### Warnings:

#### (i) Rainfall Warning:

- No significant rainfall likely over the mainland in association with the above system.

#### (ii) Wind warning:

- Squally wind, speed reaching 55-65 kmph gusting to 75 kmph, is prevailing around the system centre and along & off Somalia coast and adjoining southwest Arabian Sea. It is very likely to decrease gradually becoming 35-45 Kmph gusting to 55 Kmph by today, the 07<sup>th</sup> December 2019.

#### (iii) Sea conditions:

- Rough to Very Rough to Sea conditions are likely to prevail over western parts of Southwest Arabian Sea and along & off Somalia Coast during next 12 hours. It is very likely to improve gradually thereafter.

#### (iv) Fishermen Warning:

- The fishermen are advised not to venture into western parts of southwest Arabian Sea and along & off Somalia coast during next 12 hours.

Contact: Cyclone Warning Division, Office of the Director General of Meteorology,  
India Meteorological Department, Ministry of Earth Sciences.

Phone: (91) 11-24652484, FAX: (91) 11-24643128, 24623220, E-mail: [cwdhq2008@gmail.com](mailto:cwdhq2008@gmail.com), Website: [rsmcnewdelhi.imd.gov.in](http://rsmcnewdelhi.imd.gov.in)

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

### **(b) Low pressure area over southeast Arabian Sea and adjoining equatorial Indian Ocean**

A low pressure area formed over southeast Arabian Sea and adjoining equatorial Indian Ocean in the early morning (0530 hrs IST) of today, the 7<sup>th</sup> December, 2019. It persisted over the same region in the morning (0830 hrs IST) of today. It is likely to become more marked during next 24 hours. There is low probability for the system to concentrate into a depression during subsequent 24 hours.

### **The salient features of the climatology of cyclonic disturbances over the north Indian Ocean vis-à-vis the enhanced cyclonic activity during 2019 is placed at Annexure-1.**

Both the systems are under continuous surveillance and concerned state governments are being informed regularly.

Kindly visit [www.imd.gov.in](http://www.imd.gov.in), [www.rsmcnewdelhi.imd.gov.in](http://www.rsmcnewdelhi.imd.gov.in) and [www.mausam.imd.gov.in](http://www.mausam.imd.gov.in) for updates on the system.

### The salient features of the climatology of cyclonic disturbances over the north Indian Ocean vis-a-vis the enhanced cyclonic activity during 2019 (Updated)

1. So far 11 cyclonic disturbances (CDs) developed over the north Indian Ocean (NIO) including 4 over the Bay of Bengal (BoB) and 7 over the Arabian Sea (AS) during the year 2019 against the normal of 12 CDs per year over the NIO.
2. It includes 8 cyclones (3 over BoB and 5 over AS) and 3 depressions/deep depressions (1 over BoB and 2 over AS). Out of 5 cyclones over the AS, 4 were severe & above intensity cyclones and out of 3 cyclones over BoB, 2 were severe & above intensity cyclones.
3. The maximum number of 10 cyclones developed over north Indian Ocean during 1893, 1926, 1930 and 1976. The maximum number of 5 cyclones with 4 severe cyclones developed over Arabian Sea during 1902.
4. Details of these CDs are listed below:
  - i. Cyclonic Storm Pabuk over Andaman Sea during 04-08 January
  - ii. Extremely severe cyclonic storm FANI over the Bengal during 26 April-04 May
  - iii. Very severe cyclonic storm VAYU over the Arabian Sea during 10-17 June
  - iv. Deep depression over the Bay of Bengal during 06-12 August
  - v. Very severe cyclonic storm HIKAA over the Arabian Sea during 22-25 September
  - vi. Depression over the Arabian Sea during 29 September-01 October, (AS)
  - vii. Super Cyclonic Storm Kyarr over eastcentral Arabian Sea during 24 Oct.-02 Nov.
  - viii. Extremely Severe Cyclonic Storm Maha over the Arabian Sea during 30 Oct.-07 Nov.
  - ix. VSCS BULBUL over the Bay of Bengal during 05-11 November
  - x. Cyclonic Storm Pawan over the southwest Arabian Sea during 2<sup>nd</sup> December- till date
  - xi. Deep depression over eastcentral Arabian Sea during 3<sup>rd</sup> December, (AS)- till date
5. Thus, the Arabian Sea has been more active during 2019 with the formation of 7 CDs against the normal of 1.7 CDs per year. Similarly, 5 cyclones have developed over Arabian Sea against the normal of 1 per year. Considering the past data (1891-2018), the maximum of 6 CDs developed over the Arabian Sea in the year 1998 & 5 cyclones in 1902. Thus, the frequency of cyclones over the Arabian Sea during 2019 so far equals the previous record of 1902.
6. The year 2019 also witnessed development of **more intense cyclones over the Arabian Sea**, as out of 5 cyclones, there have been 1 cyclonic storm (Pawan), 2 very severe cyclonic storms (Vayu, Hikaa), 1 extremely severe cyclonic storm (Maha) and 1 super cyclonic storm (Kyarr).
7. The **activity over the Bay of Bengal** has been subdued this year as compared to Arabian Sea with the formation of only 3 cyclones (Pabuk, Fani, Bulbul) against the normal of 4 per year. Out of these, there were two severe cyclones (Fani & Bulbul) against the normal of 2 per year.
8. **Comparing the post and pre-monsoon cyclone seasons**, the post-monsoon cyclone season has been more active over the Arabian Sea and subdued over the Bay of Bengal with the formation of **4 CDs over the Arabian Sea** against normal of 1 per year and 1 over Bay of Bengal against normal of 3.5 per year during post monsoon season. It included **3 cyclones over the AS** against normal of 1 per year and 1 cyclone over the BOB against normal of 2 per year.
9. Thus, the frequency of CDs observed over the Arabian Sea during 2019 post monsoon season equals the past record of 1982 and 2011 when 4 CDs developed in the post monsoon season. It also equals the past record of 1902 post monsoon season with formation of 3 cyclones including 2 severe cyclones.

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India Meteorological Department, Ministry of Earth Sciences.

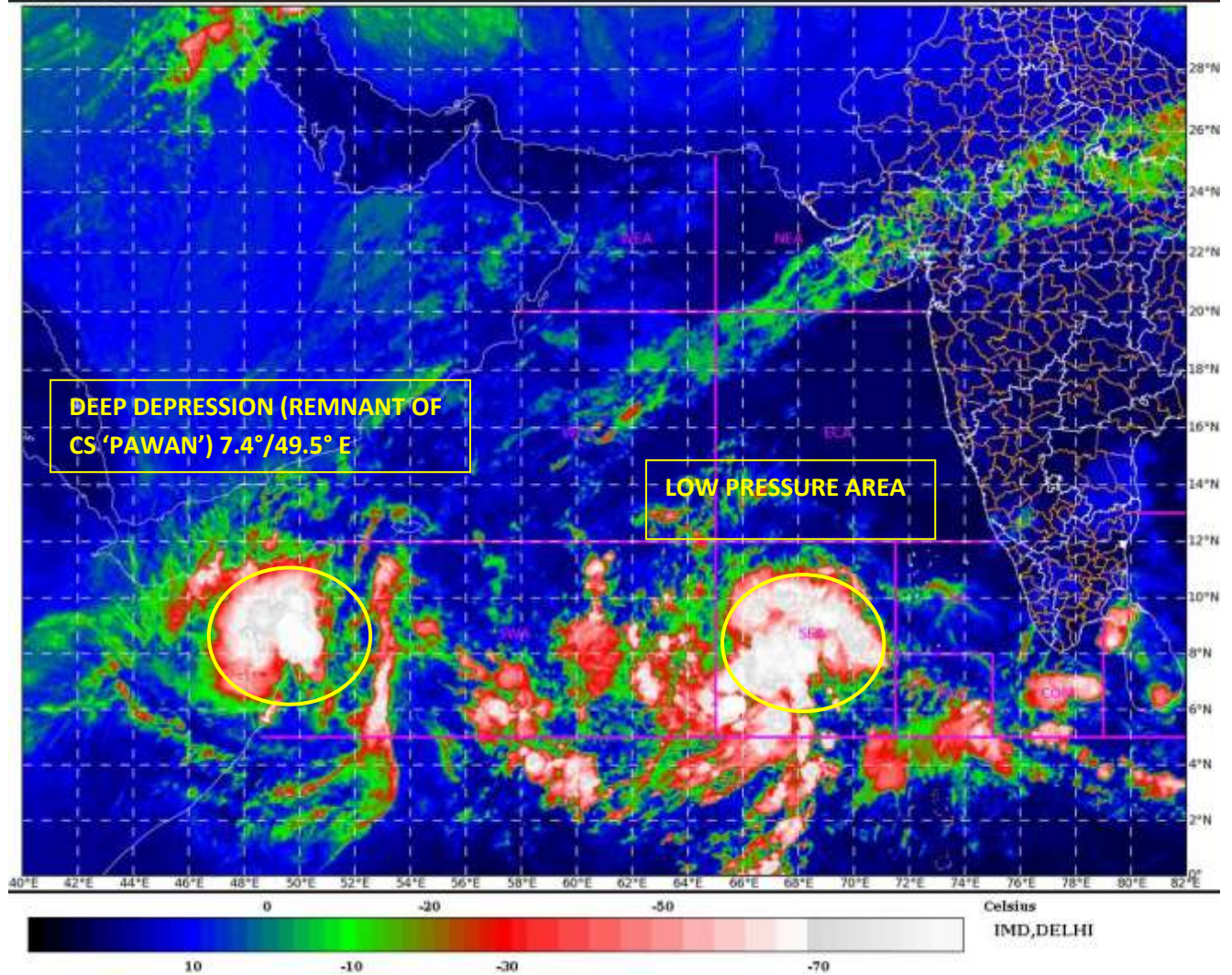
Phone: (91) 11-24652484, FAX: (91) 11-24643128, 24623220, E-mail:cwdhq2008@gmail.com, Website: [rsmcnwdelhi.imd.gov.in](http://rsmcnwdelhi.imd.gov.in)

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SAT : INSAT-3D IMG  
IMG\_TIR1\_TEMP 10.8 um  
ARABIAN\_SEA

07-12-2019/(0330 to 0357) GMT  
07-12-2019/(0900 to 0927) IST



SWA: Southwest Arabian Sea  
SEA: Southeast Arabian Sea

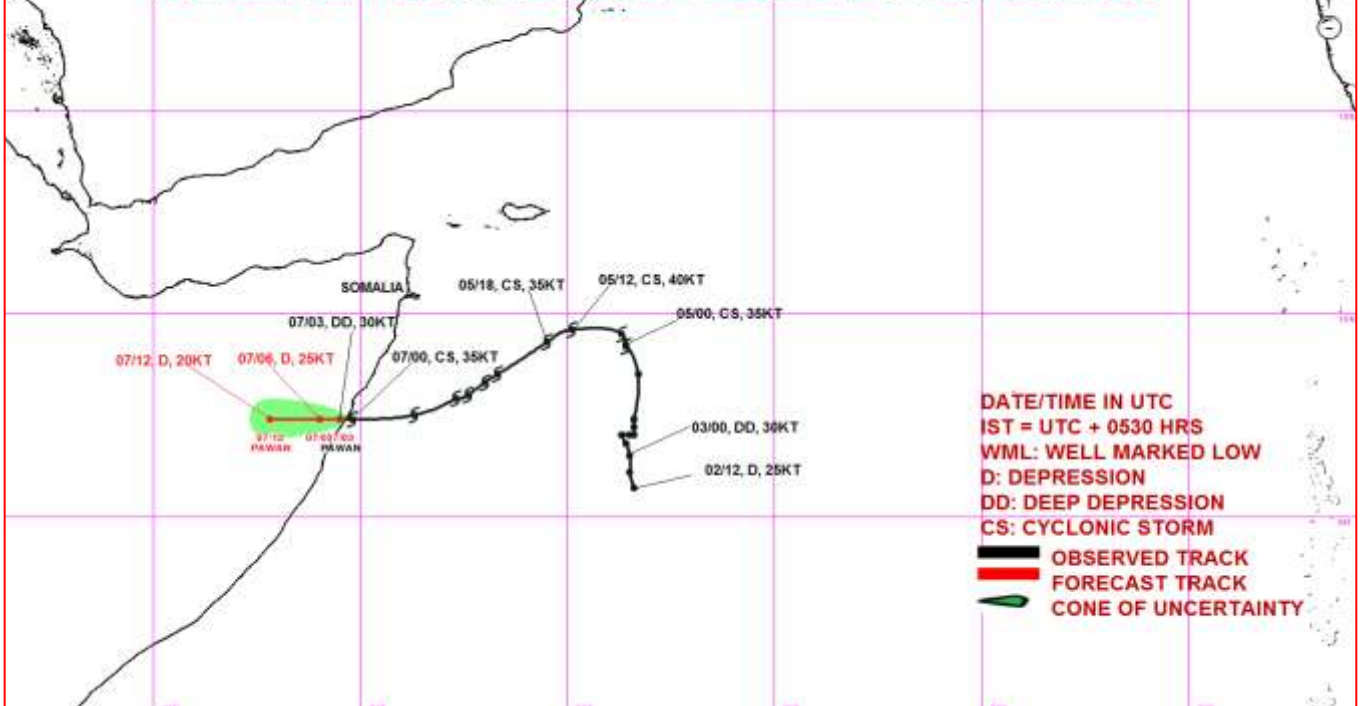
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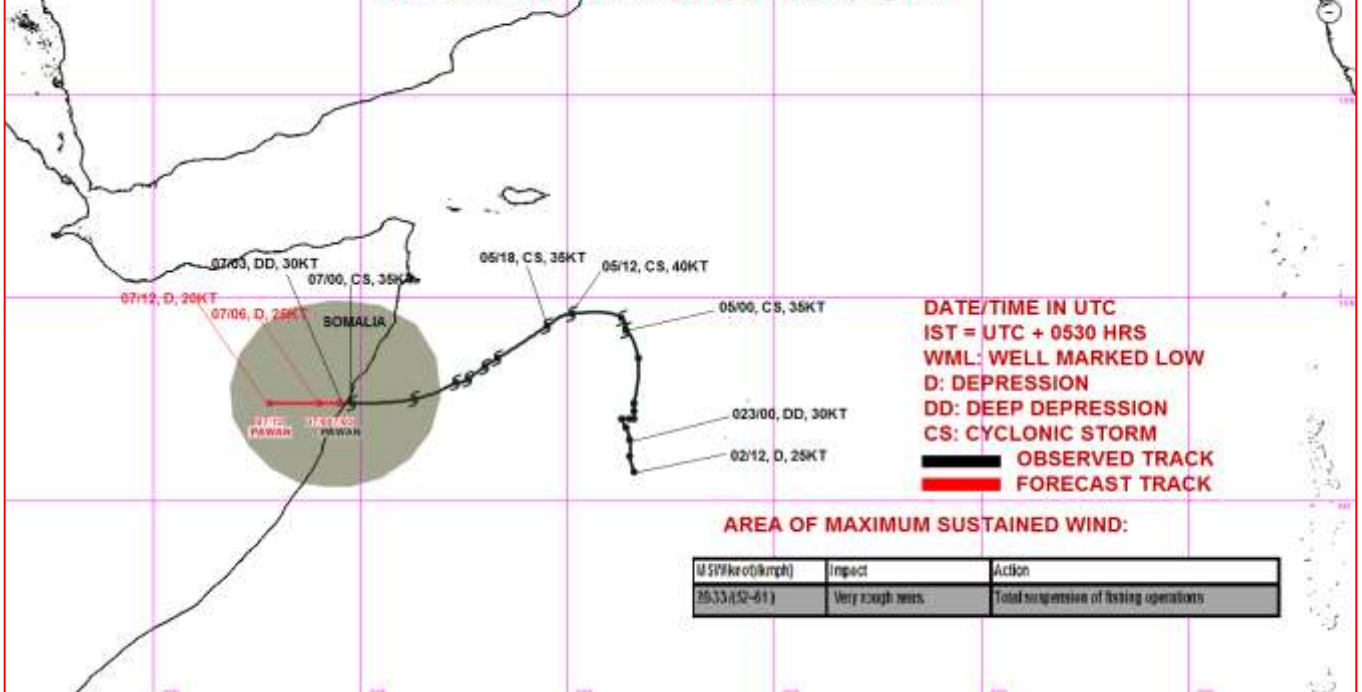
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**OBSERVED & FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY BASED ON 0300 UTC OF 7<sup>th</sup> DECEMBER 2019 IN ASSOCIATION WITH CYCLONIC STORM "PAWAN" (NOW DEEP DEPRESSION) OVER COASTAL SOMALIA & NEIGHBOURHOOD**



**OBSERVED & FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION BASED ON 0300 UTC OF 7<sup>th</sup> DECEMBER 2019 IN ASSOCIATION WITH CYCLONIC STORM "PAWAN" OVER COASTAL SOMALIA & NEIGHBOURHOOD**



**AREA OF MAXIMUM SUSTAINED WIND:**

MSW (knot/mph)	Impact	Action
25.33 (52-61)	Very rough seas	Total suspension of fishing operations

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