

Government of India Ministry of *E*arth Sciences Earth System Science Organisation



Earth System Science Organisation India Meteorological Department

PRESS RELEASE- 7

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Sub: (a) Well marked low pressure area over southwest & adjoining southeast Arabian Sea (b) Cyclonic Storm Pawan has become insignificant

(a) Well marked low pressure area over southwest & adjoining southeast Arabian Sea

Yesterday's low pressure area over southeast Arabian Sea and adjoining equatorial Indian Ocean lay as a well marked low pressure area over southeast & adjoining southwest Arabian Sea in the early morning (0530 hrs IST) of today, the 8th December, 2019. It lay as a well marked low pressure area over southwest and adjoining southeast Arabian Sea in the morning (0830 hrs IST) of today. It is likely to move west-northwestwards and concentrate into a depression during next 12 hours.

Warnings:

8th December:

- Squally weather (wind speed 40-50 kmph gusting to 60 kmph) is very likely to prevail over southeast Arabian Sea and adjoining southwest and adjoining central Arabian Sea.
- Sea condition is likely to be rough to very rough over these areas.
- Fishermen are advised not to venture into these areas.

9th December:

- Squally weather (wind speed will gradually increase becoming 50-60 kmph gusting to 70 kmph) very likely to prevail over westcentral and adjoining south Arabian Sea
- Sea condition is likely to be rough to very rough over the above region.
- Fishermen are advised not to venture into these areas.

10th December:

- Squally weather (wind speed 45-55 kmph gusting to 65 kmph) very likely to prevail over westcentral Arabian Sea
- Sea condition is likely to be rough to very rough over the above region.
- Fishermen are advised not to venture into these areas.

(b) Cyclonic Storm Pawan has become insignificant

Yesterday's deep depression over coastal Somalia and neighborhood moved westwards, weakened into a depression in the same afternoon (1430 hrs IST) and into a well marked low pressure area over north Somalia & adjoining Ethiopia in the same evening (1730 hrs ISTof 7th December). Moving further westwards, it lay as a low pressure area over Ethiopia in the early morning of today, the 7th December and became insignificant thereafter. Observed track of the system during 2nd-7th December is presented in Fig.1. **This is last update in association with this cyclonic storm Pawan.**

The system over southwest Arabian Sea and adjoining areas is under continuous watch and the concerned disaster management authorities are being informed regularly.

Kindly visit <u>www.imd.gov.in</u>, <u>www.rsmcnewdelhi.imd.gov.in</u> and <u>www.mausam.imd.gov.in</u> for updates on the system.

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, Website: <u>rsmcnewdelhi.imd.gov.in</u> 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.

Annexure1

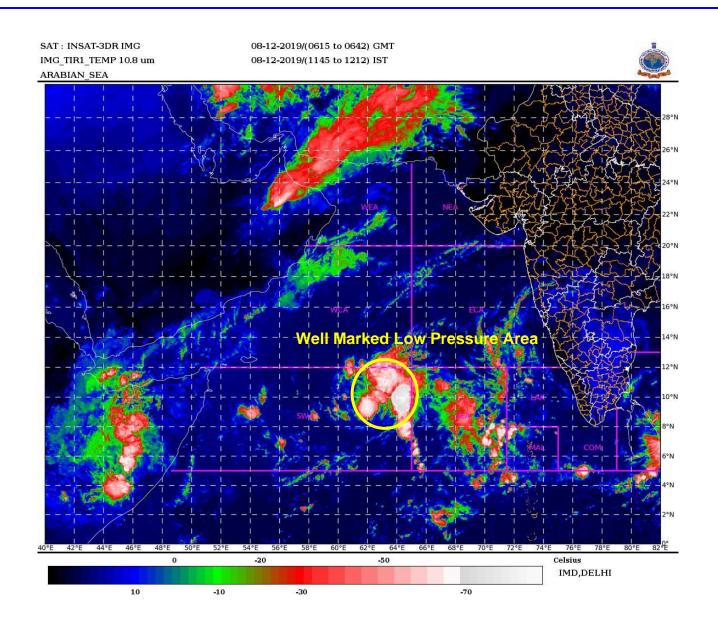
The salient features of the climatology of cyclonic disturbances over the north Indian Ocean vis-a-vis the enhanced cyclonic activity during 2019 (Updated)

- 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 2nd December- till date
- xi. Deep depression over eastcentral Arabian Sea during 3rd 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.

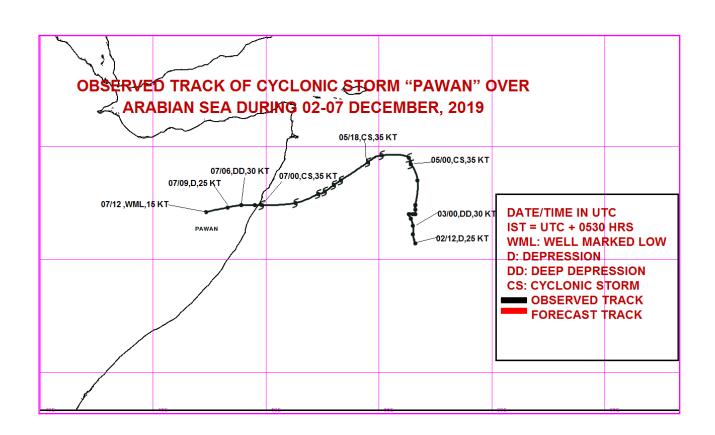
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