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Q93

With reference to Ocean Mean Temperature (OMT), which of the following statements is/are correct? 1. OMT is measured up to a depth of 26°C isotherm which is 129 meters in the south-western Indian Ocean during January-March. 2. OMT collected during January-March can be used in assessing whether the amount of rainfall in monsoon will be less or more than a certain long-term mean. Select the correct using the code given below: (a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2 Official key: B.

UPSC Civil Services Prelims 2020 · General Studies · 2 marks · Geography

Physical, Indian and world geography - Prelims GS Paper I.

Explanation

(a)

1 only. The 26°C isotherm is not a fixed 129 m in the SW Indian Ocean every January-March as stated.

(b) Official key

2 only. January-March OMT is used as a monsoon-rainfall indicator versus the long-term mean.

(c)

Both. Statement 1's 129 m lock fails.

(d)

Neither. Statement 2 holds.

Summary

Official key is (b) 2 only. Ocean Mean Temperature down to the 26°C isotherm in the south-west Indian Ocean (Jan-Mar) helps say whether monsoon rain will be above or below a long-period average. The isotherm depth is not a fixed 129 metres as statement 1 claims.

Related possible facts

These can be asked in a future Prelims paper.

OMT

INCOIS / IITM monsoon research.

26°C isotherm

The warm-layer depth; it moves.

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