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Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

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Q14

Explain the factors responsible for the origin of ocean currents. How do they influence regional climates, fishing and navigation?

UPSC Civil Services Mains 2015 · GS I · 12 marks · Geophysical Phenomena

Important Geophysical phenomena such as earthquakes, tsunami, volcanic activity, cyclone etc., geographical features and their location-changes in critical geographical features (including water-bodies and ice-caps) and in flora and fauna and the effects of such changes.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

<https://wrapexams.com/upsc/mains-answers/gs-1/2015/explain-the-factors-responsible-for-the-origin-of-ocean-currents-how-do-they-influence-regional-climates-fishing-and-navigation/>

Gyre

A large circular surface current system in an ocean basin, driven mainly by winds and Coriolis force.

Gulf Stream / North Atlantic Drift

Warm current system that helps keep northwest Europe milder than its latitude suggests.

Humboldt or Peru Current

Cold eastern-boundary current with strong upwelling and a major fishery, sensitive to El Niño.

Coriolis effect

Deflection of moving water because of Earth's rotation, essential to gyre direction.

Monsoon currents

Seasonally reversing surface flows in the north Indian Ocean tied to reversing winds.

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