

QUESTION 52 OF 52: NOT ANSWERED

How does the graph support the author's point that internal waves affect ocean water dynamics?

A

It demonstrates that wave movement forces warmer water down to depths that typically are colder.

The author notes that internal waves are "fundamental parts of ocean water dynamics" because they transfer "heat to the ocean depths and brin[g] up cold water from below." The graph shows an internal wave forcing the warm isotherms to depths that typically are colder. For example, at 13:12, the internal wave transfers "heat to the ocean depths" by forcing the 10°C, 11°C, and 13°C isotherms to depths that typically are colder.

B

It reveals the degree to which an internal wave affects the density of deep layers of cold water.

The graph does not show how internal waves affect the ocean's density.

C

It illustrates the change in surface temperature that takes place during an isolated series of deep waves.

The graph does not show how internal waves affect the ocean's surface temperature.

D

It shows that multiple waves rising near the surface of the ocean disrupt the flow of normal tides.

The graph does not show how internal waves affect the ocean's tide flow.