## Question title: Boussinesq Equations

The Boussinesq approximation is a useful approximation to the full Navier-Stokes plus salinity and thermodynamics discussed in class that is appropriate for most oceanographic uses.True False

## Question title: Ekman Layer

The Ekman layer is the fundamental method by which wind stresses are communicated to slow timescale ocean motions.True False

## Question title: f-plane and beta-plane

The f-plane and beta-plane are approximations to the spherical earth that are valid only near the equator.

## Question title: f-plane and beta-plane 2

The f-plane and beta-plane are approximations to the spherical earth that are valid only near the reference latitude about which the tangent plane is formed.TrueFalse

## Question title: Moving Centrifugal

There is no centrifugal force on a body that is not moving in the rotating frame of reference.


TrueFalse

## Question title: Moving Coriolis

There is no Coriolis force on a body that is not moving in the rotating frame of reference.


True False

## Question title: Rotating Momentum

The momentum equations gain extra terms in a rotating coordinate frame.TrueFalse

## Question title: Rotating Tracers

The tracer equations gain extra terms in a rotating coordinate frame.TrueFalse

## Question title: Useful approximations

Which of the following are approximations useful in oceanography (select as many as needed)1. Hydrostatic Approximation2. Boussinesq Approximation3. Geostrophic Approximation4. Thermal Wind Balance Approximation

## Question title: Which are rotating forces?

Select from the following list the 'forces' that result from using a rotating coordinate frame: (multiple answers)1. Coriolis Force2. Centrifugal Force3. Gravity
4. Friction5. Tidal forces

