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waves are due to water compressibility, which is, in fact, very small. Gravity forces, acting on water particles displaced from equilibrium at the ocean surface or at an internal geopotential surface in a stratified fluid, induce gravity waves (surface or internal). The combination of the turbulent wind

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Waves at the ocean surface play an important role in the GoM. These waves are significantly affected by ocean currents. Major ocean currents in the GoM include the Loop Current, which enters the GoM from the Yucatan channel and leaves through the Strait of Florida, and westward propagating eddies that are circular currents spanning a hundred kilometers or so.

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Latest Edition: Ocean Surface Waves: Their Physics and Prediction (3rd Edition) The book is an extended and updated edition of the book published in 1996 under the same title (World Scientific, ISBN 9810216866). It contains a very comprehensive and extensive study on surface ocean waves induced by wind, earthquakes and possible landslides and asteroids impacts.

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The surface of the wave moves up and down, which is perpendicular to the left-to-right direction that the wave itself moves. But ocean waves are a little more complicated than ordinary transverse waves. They're really orbital progressive waves. The water molecules that make up the wave move in circles, or orbits, as the wave progresses.

~~The Physics of Waves - Waves | HowStuffWorks~~

The overall oscillatory motion on the ocean surface is a combination of a large variety of different types of waves. All these waves are primarily classified according to the generation and restoring mechanisms, which induce oscillations within a wide band of periods and associated wavelengths.

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Surface wave: (in physics) occurs along any boundary of two different substances ;
Focus: breakage point of subsurface rock ;
Rayleigh waves: have an up-and-down rolling motion like an ocean liner ...

~~What Are Surface Waves? -- Definition, Types & Examples ...~~

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Basic waves To describe ocean waves, we use a right-handed, Cartesian coordinate system in which the z-axis points upward. The x- and y-axes point in horizontal directions at right angles. In the state of rest, the ocean surface coincides with $z = 0$. When waves are present, the surface is located at $z = z(x, y, t)$, where t is time. The ocean bottom is

~~Rick Salmon Scripps Institution of Oceanography University ...~~

The ocean covers 71 percent of the earth ' s surface, and about 97 percent of all water on earth is from the ocean. Ocean waves are disturbances in the ocean that move energy from one place to another. The most common types of waves (such as the small waves out in open sea) are caused by wind on the ocean ' s surface.

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In fluid dynamics, wind waves, or wind-generated waves, are water surface waves that occur on the free surface of bodies of water. They result from the wind blowing over an area of fluid surface. Waves in the oceans can travel hundreds of miles before reaching land. Wind waves on Earth range in size from small ripples, to waves over 100 ft (30 m) high.

~~Wind wave – Wikipedia~~

In physics, a surface wave is a mechanical wave that propagates along the interface between differing media. A common example is gravity waves along the surface of liquids, such as ocean waves. Gravity waves can also occur within liquids, at the interface between two fluids with different densities. Elastic surface waves can travel along the surface of solids, such as Rayleigh or Love waves.

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