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surface. Like any other kind of wave, an inertial wave is caused by a restoring force and characterized by its wavelength and frequency.

## Inertial wave - Wikipedia

Feedbacks of IP 3 and the second product of the PLC reaction, diacylglycerol, on PLC and upstream agonist receptor/G-protein could produce IP 3 oscillations without involvement of  $Ca^{2+}$  (26,48). Alternatively, feedbacks on IP 3 metabolism may be mediated by  $Ca^{2+}$ , resulting in coupled IP 3 - $Ca^{2+}$  oscillators ( 27 , 30 , 32 , 49 ).

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## VIBRATIONS AND WAVES

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0. Harmonic Waves. Functional form:  $y = A \cos(3t + \phi)$   
Notation: Amplitude: Initial phase: Angular frequency:  $\omega = 4$   
Frequency:  $f = \omega/2\pi = 2/\pi$  Period:  $T = 2\pi/\omega = \pi/2$  Wave number:  $k = 3$   
Wavelength:  $\lambda = 2\pi/k = 2\pi/3$  Speed of propagation: - Often expressed  
;.... Be careful! Sometimes people use "wavenumber" to mean  $1/\lambda$ .... Harmonic Waves.

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Seaman 2nd Class Elaine Olsen (left) and Seaman 2nd Class Ted Snow are learning to take down a radial aircraft engine block. Official U.S. Navy Photograph, National Archives collection. At their peak strength in 1945, there were 86,000 reservists on duty in nearly every type of shore activity, and more than 104,000 women joined the WAVES.

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harmonics of theta oscillations, reflecting theta wave shape asymmetry, were typically higher. ... peak theta frequencies calculated from one second spectral estimates. (H) Wave-by-wave.

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