

Do ocean waves induced Love waves in deep water provide spatio-temporal information?

Hence, they yield rich spatio-temporal information about ocean-land coupling in deep water. The authors here study the origin of seismic Love waves induced by ocean waves.

Are soliton gas models suitable for wind waves in shallow water?

Although operational adjustments can be and are made, they are not totally suitable for wind waves in shallow water, where the evidence from works such as Costa et al. (2014) and our work in this paper and in Maleewong and Grimshaw (2024b, 2025) is that a model describing a soliton gas is needed.

Are wind-induced currents and surface waves a physical driver in shallow lakes?

Wind-induced currents and surface waves are critical physical drivers in shallow lake environments, significantly influencing sediment dynamics, pollutant transport, and biogeochemical processes (Wu, 2025; Stella, 2019).

What is the wind and PV power generation potential of China?

The wind and PV power generation potential of China is about 95.84 PWh, which is approximately 13 times the electricity demand of China in 2020. The rich areas of wind power generation are mainly distributed in the western, northern, and coastal provinces of China.

In a recent paper, denoted by MG24 in this text, we used a modified Korteweg-de Vries (KdV) equation to describe the evolution of wind-driven water wave packets in shallow water. The ...

The energy ratios of Love waves over Rayleigh waves observed on land will reflect the balance between the microseism source intensity distribution between deep and shallow water, as ...

In many large shallow lakes across the globe, the surface wind field drives the hydrodynamic process directly through the momentum and energy exchange at the air-water ...

The study of the shallow-water wind-wave relationship holds considerable importance in the realm of coastal engineering construction. However, existin...

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Wind energy potential assessment is the basis of wind farm site selection. Based on ERA5 reanalysis data from the European Centre for Medium-Range Weather Forecasts (ECMWF), the median wind ...

Understanding wind-driven hydrodynamic disturbances is critical for evaluating sediment resuspension and ecosystem stability in shallow lake environments. This study investigates the ...

Decarbonization of the energy system is the key to China's goal of achieving carbon neutrality by 2060.

However, the potential of wind and photovoltaic (PV) to power China remains ...

Abstract Offshore wind power generation has gained continuous attention and has been developed rapidly in China, because of its huge potential to drive the energy transition process. This ...

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