

What is XBeach?

2DH process-based model to simulate nearshore wave transformation long wave motion, sediment transport and morphological change

2 modes:

Surfbeat hydrostatic:

- nonlinear shallow water equations with radiation stress forcing from wave action equation
- resolves long waves and the amplitude variation of short waves

Non-hydrostatic:

- nonlinear shallow water equations with pressure correction
- resolves phase of long and short waves



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