

# What is XBeach?

### School of Geosciences



#### Roelvink et al. 2009

### Github model link

solve short wave variations on the wave group scale (short wave envelope) and the long waves

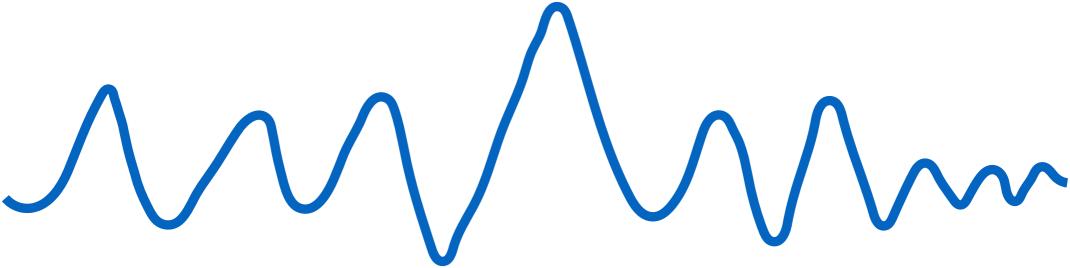
## model the propagation and decay of individual waves

## non-hydrostatic

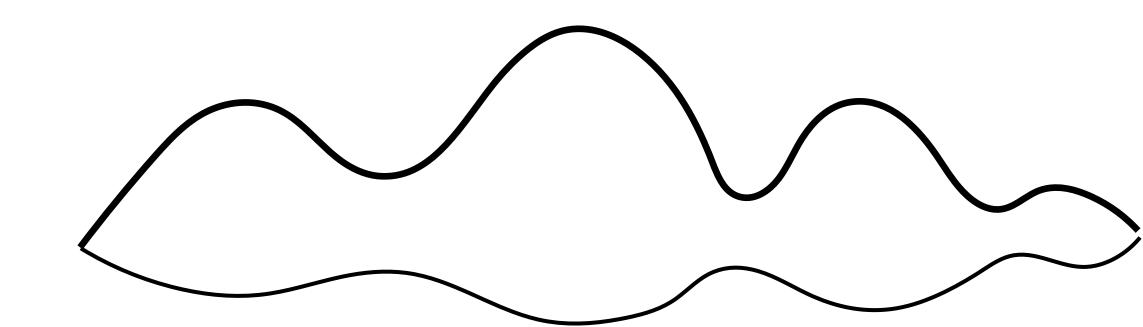
## surfbeat hydrostatic







## Short wave envelope

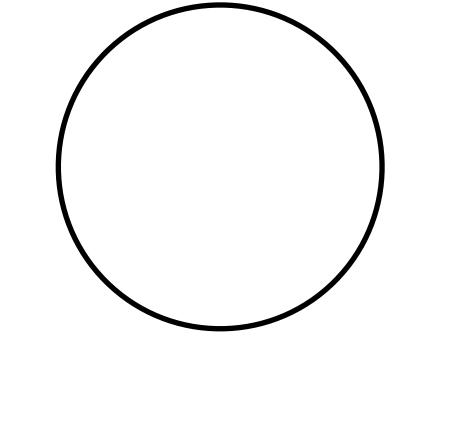


### Mean water level

### **Short waves**

### Long waves

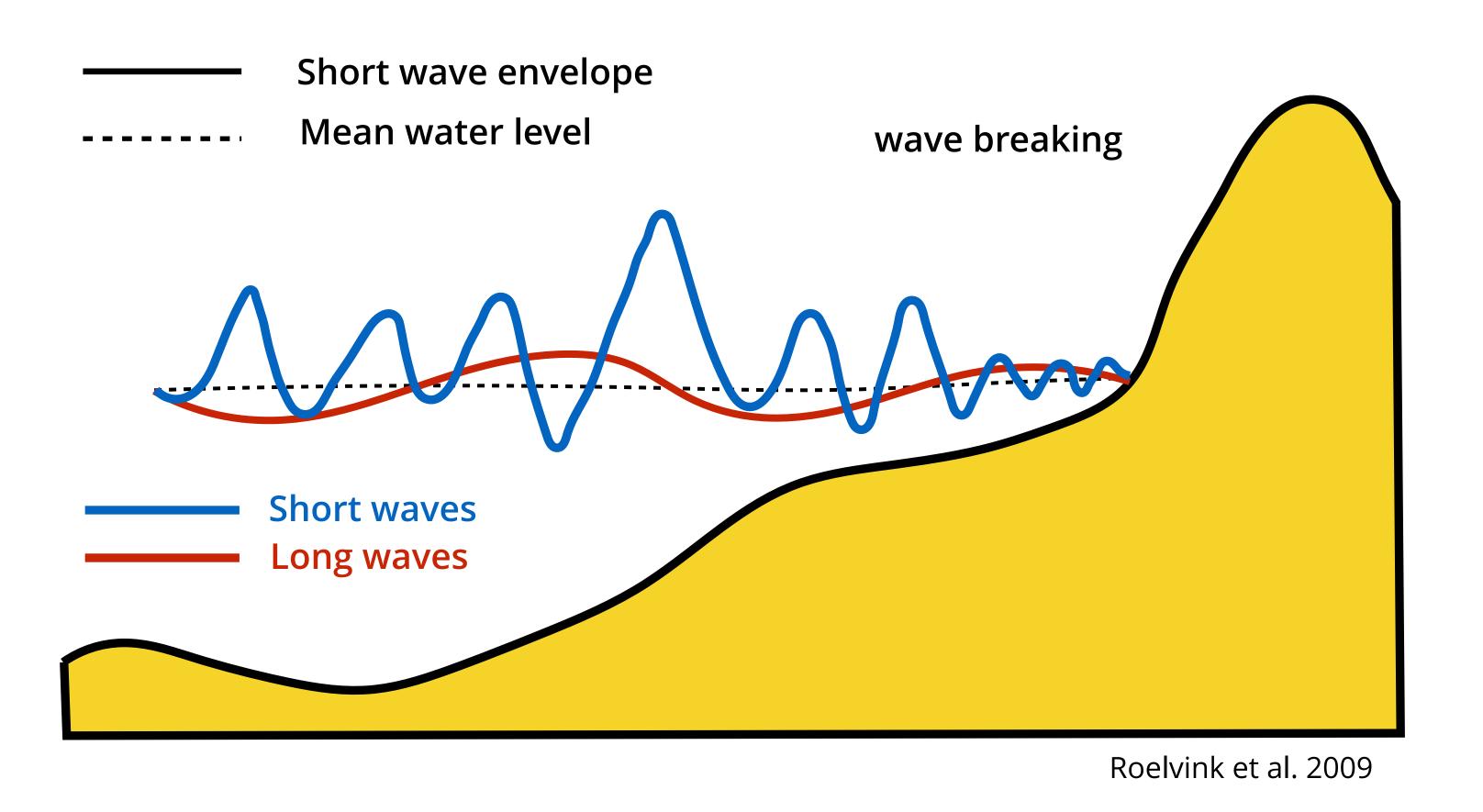
### wave breaking



Short wave envelope



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surfbeat hydrostatic

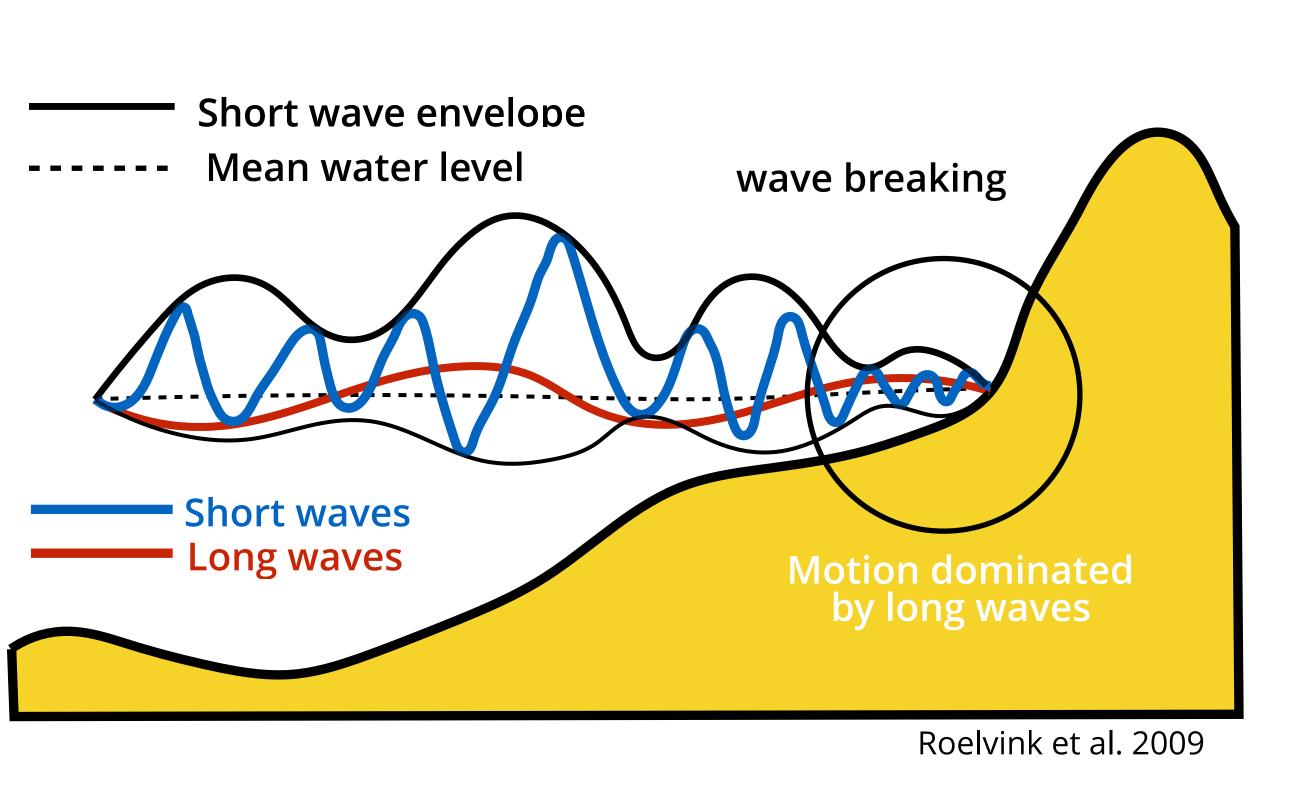
non-hydrostatic

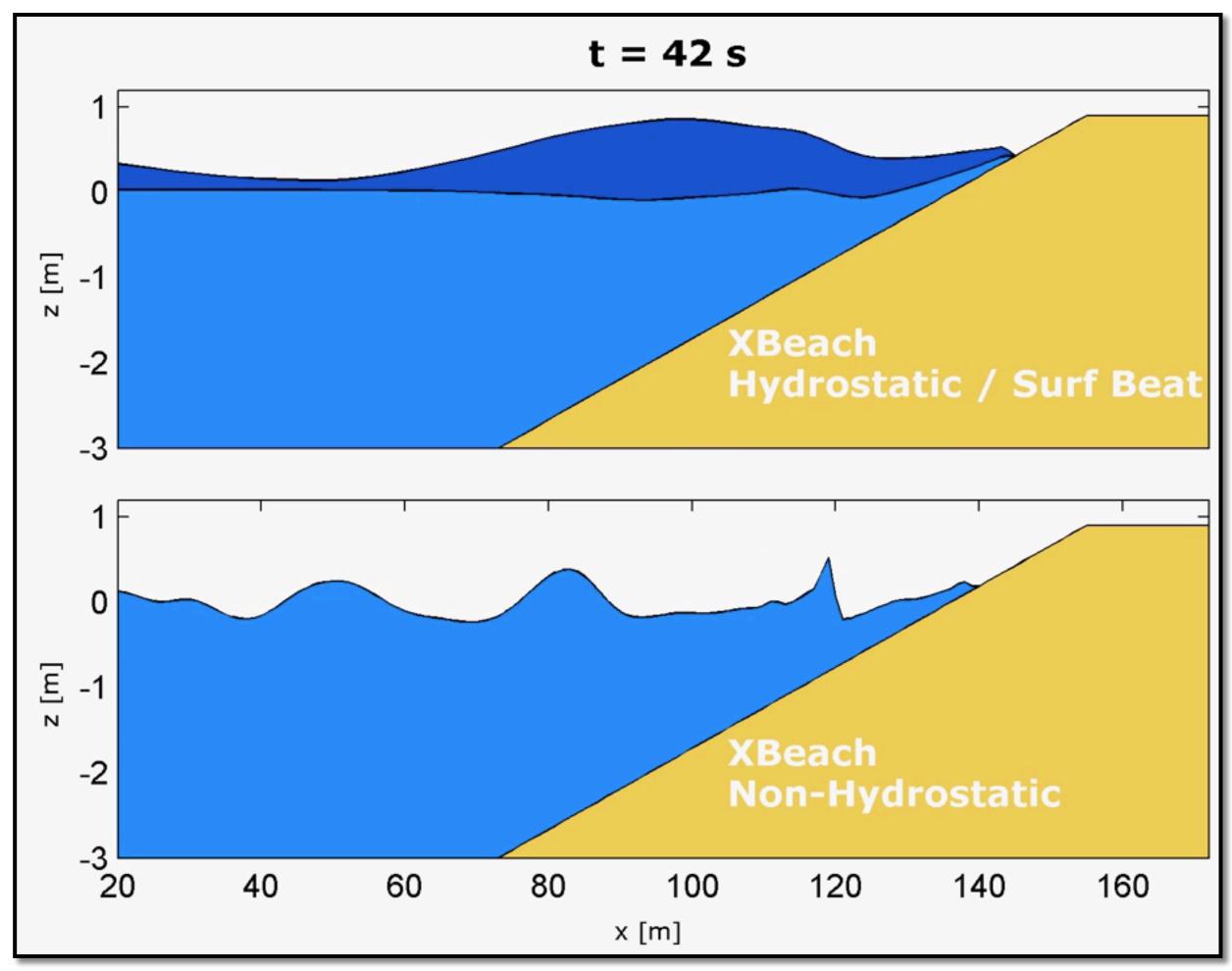
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