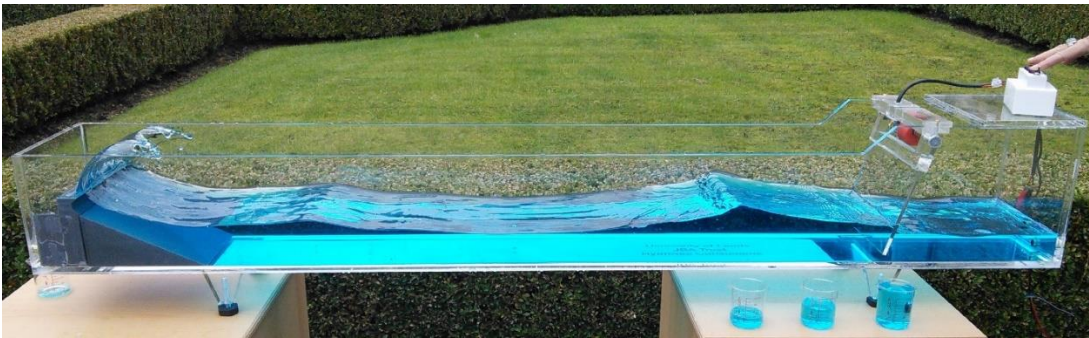


JBA Trust Wave Tank

Demonstration Information



Summary

JBA Trust delivers demonstrations using physical models of rivers and coasts as part of our education and knowledge sharing programme. The wave tank was created to help show how different coastal structures, such as offshore breakwaters, sea defences and sloping beaches, interact with coastal processes and influence rates of overtopping (flooding).

We developed the wave tank in 2015 with a team of PhD students from the [Fluid Dynamics Centre for Doctoral Training \(CDT\)](#) at the University of Leeds, the Coastal Risk Management team at JBA Consulting and [Hydrotec Ltd.](#)

The wave tank can be transported in the back of a large car and can be set up inside, for example in a classroom or office.

Risk Assessment

The demonstrator (from JBA) must ensure that they have reviewed the risk assessment and updated it where necessary. The risk assessment template is available from Alex Scott.

Facilities required

The requirements for the wave tank are:

- Access to water (within bucket carrying distance) – the wave tank needs about 20 litres of water.
- If using the electrical paddle, the tank will need to be 50m of a 13amp/240v mains socket (power supply needed for the wave maker and control box). We also have a hand powered paddle if a power supply is not available.
- Access to a drain (the wave tank can be drained out into a bucket which can then be carried to the nearest drain).
- Space to set up the tank on either a table or trestles (we can provide a trestle).

Dimensions

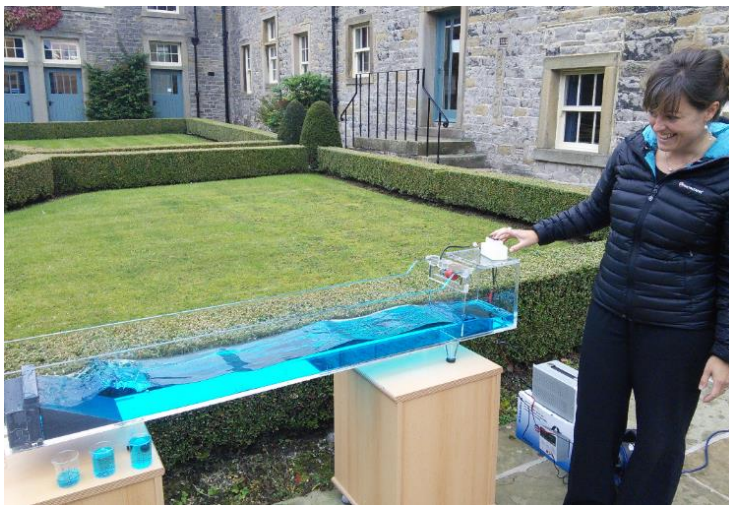
The wave tank dimensions (approximate) are: Length 1 600mm; Width: 200mm; Height 400mm
It can be transported in the back of an estate car.

JBA Trust Wave Tank

Demonstration Information



Photos



Get involved!

We are always looking for opportunities to share our training resources. If you think the models could be useful for your work with students, professional groups or communities then please [contact us](#) to discuss how we could share our models or come to you to deliver a demonstration.

Alternatively, if you would like to use these physical models to support training that you deliver, they are available to hire.