INVESTIGATING UNSTABLE BREACHING





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Sinkhole swallows car, caravan at campsite near Queensland's Rainbow Beach

Updated 27 Sep 2015, 8:51am



PHOTO: A major sinkhole has swallowed vehicles at Inskip Point in Queensland. (Facebook: Kieren Hudson)

A major sinkhole has swallowed vehicles at a popular camping spot near Queensland's Rainbow Beach overnight.

MAP: Rainbow Beach 4581

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Breaching



Breaching



(Un)stable breaching

Stable

Unstable



Not only in Australia

Why more research?

A lot is still unknown

- Most research small-scale
- Field experiments costly and rare
- Behaviour at larger scales unclear



Numerical model

Supplemented with laboratory experiments

Numerical model

- Our numerical should:
 - Model turbidity currents correctly
 - Model the resulting erosion/deposition
 - Model the effects of dilatancy
 - With reasonable computing times

Numerical model





30 degrees

45 degrees



Experimental set-up



I.08m

Future work

- Scale up experiments
- Including dilatancy effect in model
- Validation of model

