

# DOGAMI Beat the Wave map products - Landslides scenario

These two images of Rockaway Beach show the routes and pedestrian evacuation speeds that must be maintained *all the way to safety* in the event of a great Cascadia Subduction Zone earthquake and tsunami. But if the earthquake triggers a landslide, as shown in B), some routes and some safety destinations may not be available. Much faster speeds over longer distances will be needed to reach safety. This kind of scenario modeling can help families and communities decide how to prepare.

Landslide examples from Christchurch, New Zealand 2011 earthquake

Liquefaction:



(<https://nees.org/education/for-teachers/k12/teachers/help-me-im-sinking>)

Lateral spreading:

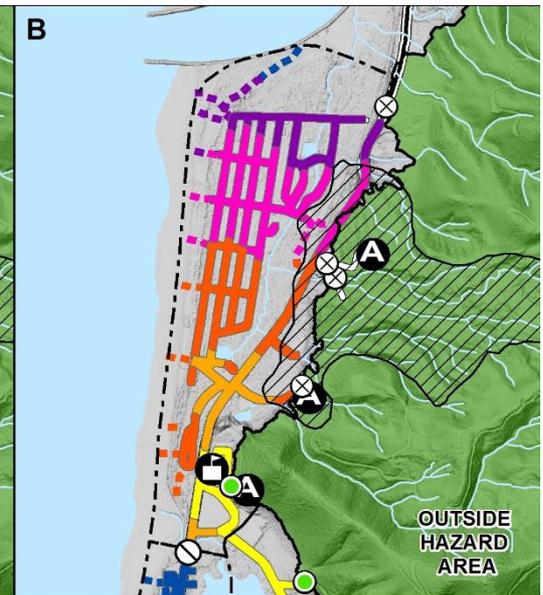


([http://blogs.agu.org/landslideblog/files/2011/02/11\\_02NZ-EQ-2.jpg](http://blogs.agu.org/landslideblog/files/2011/02/11_02NZ-EQ-2.jpg))

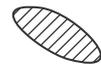
With existing safety destinations



Without some destinations due to hypothetical landslide activity



● Safety destination    ⊗ Assume safety destination is unavailable



Potential landslide area

- Slow walk (0-1.4 mph)
- Walk (1.4-2.7 mph)
- Fast walk (2.7-4.1 mph)
- Jog (4.1-5.5 mph)
- Run (5.5-6.8 mph)
- Sprint (6.8-10 mph)

