

Flood level
RL 2-9m

Parakai 17 April 1999



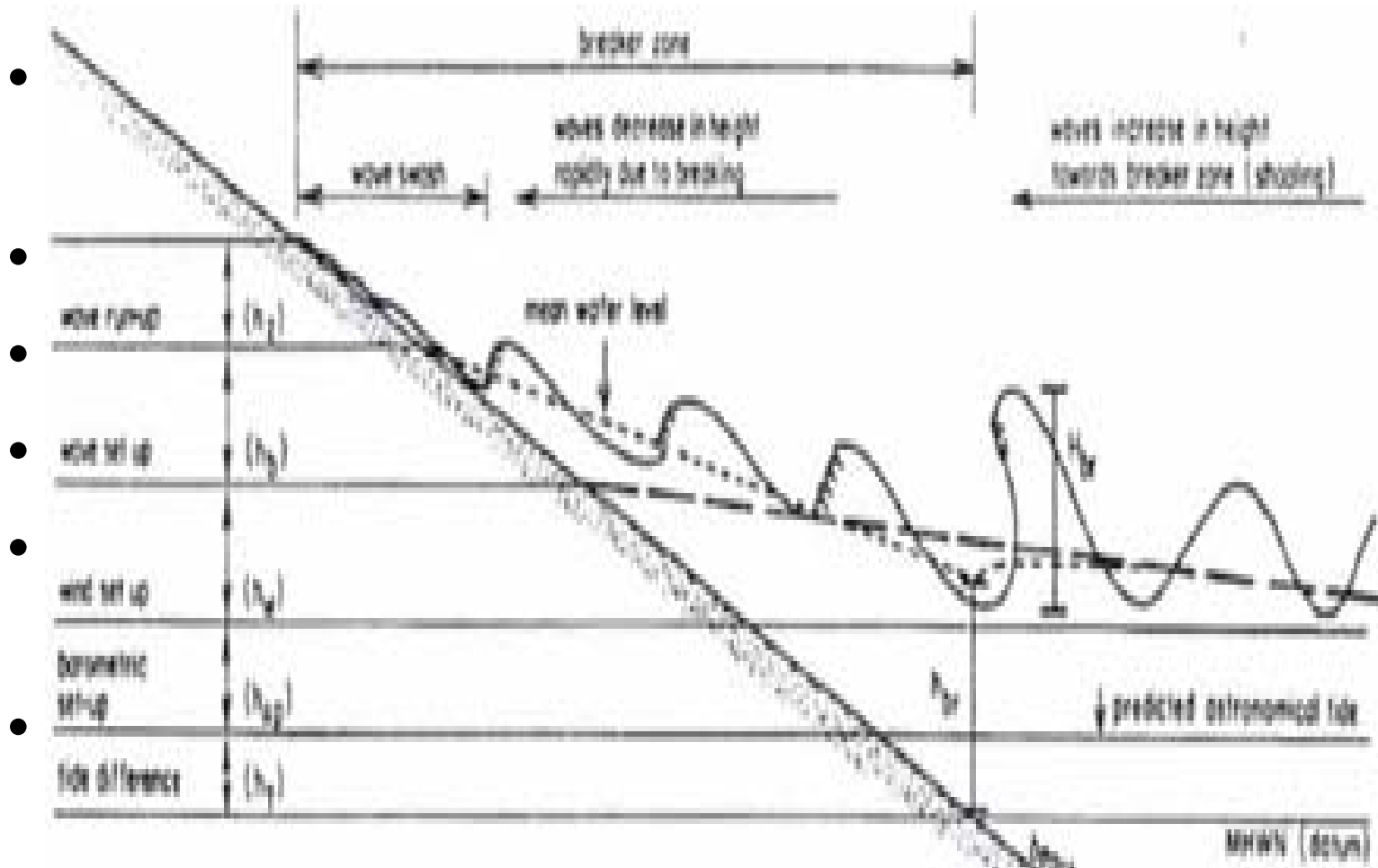
East Coast

- 520 km
- Numerous Coastal Communities
 - Snells, Algies, Pakari, Leigh, Omaha, Baddleys, etc.
- Major Coastal Urban Areas
 - Orewa, Whangaparaoa Peninsula
- ~ 1,000 properties below RL 5.0m
- ~ 200 properties below RL 3.0m!



Florence Ave, Orewa 5 July 2000

What affects Inundation Risk



Inundation Studies

- West Coast – Threats due to cyclones from North and Southerlies
 - Focus on Kaipara Harbour – complex, less data
 - Mike11 modelling by DHI
 - Now coupling harbour model with Kumeu/Kaipara runoff model
- East Coast – Threats due to cyclones
 - Swan Wave Model by T&T
 - Wave buoy data (Mokohinau Is)
 - Wind rose – frequency, speed by direction
 - Beach profile data (where we have it)
 - Intelligent Assumptions – Surge, estuary effects