Field Work for South Island Basin Characterisation

Chris de la Torre

Seokho Jeong

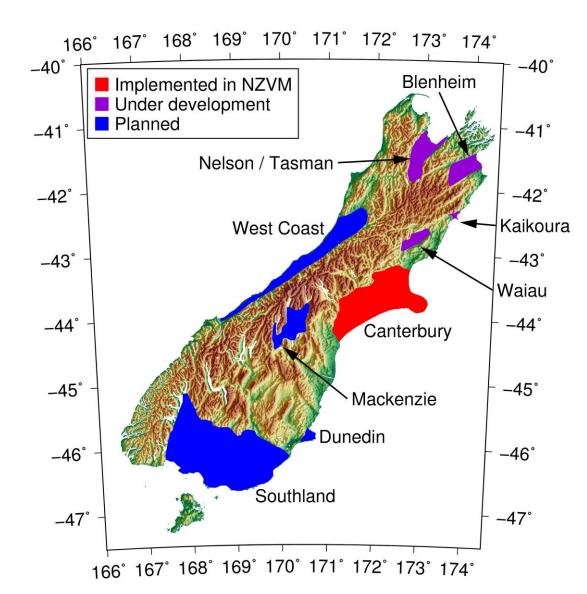
Brendon Bradley



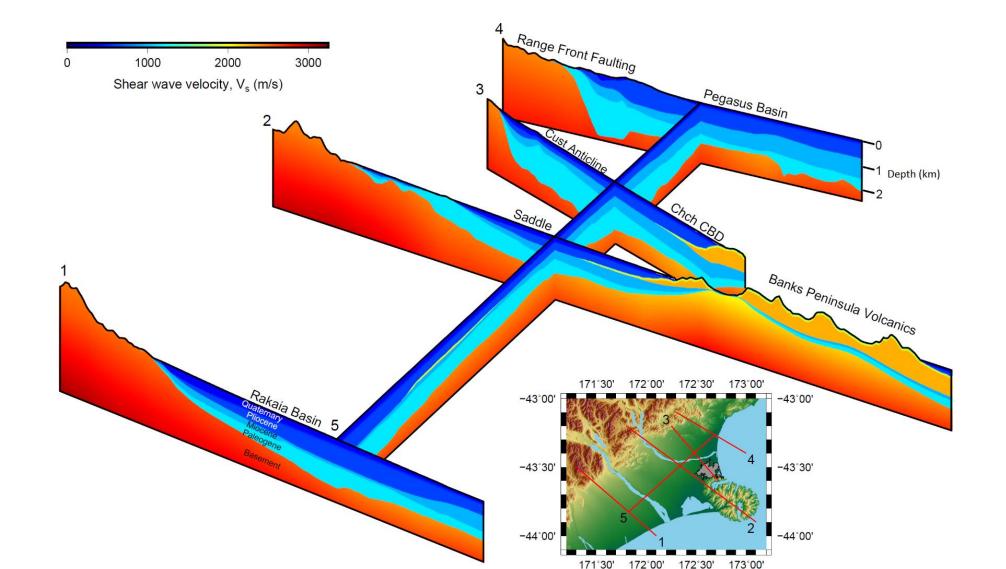
26 April 2018



Basin of the South Island

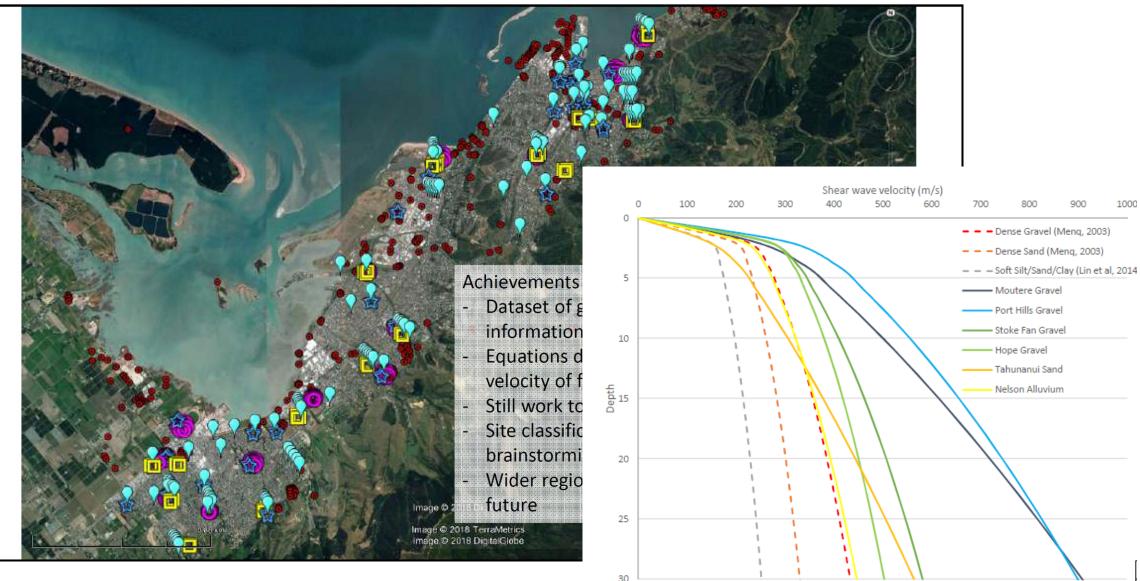


Canterbury: "Finished" Product



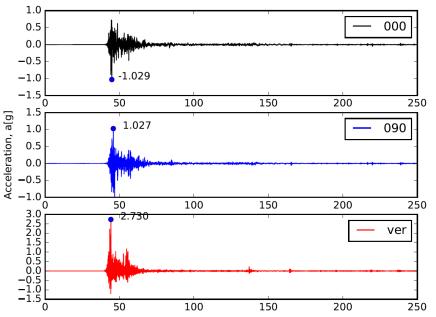
Nelson

McMahon and Wotherspoon 2018

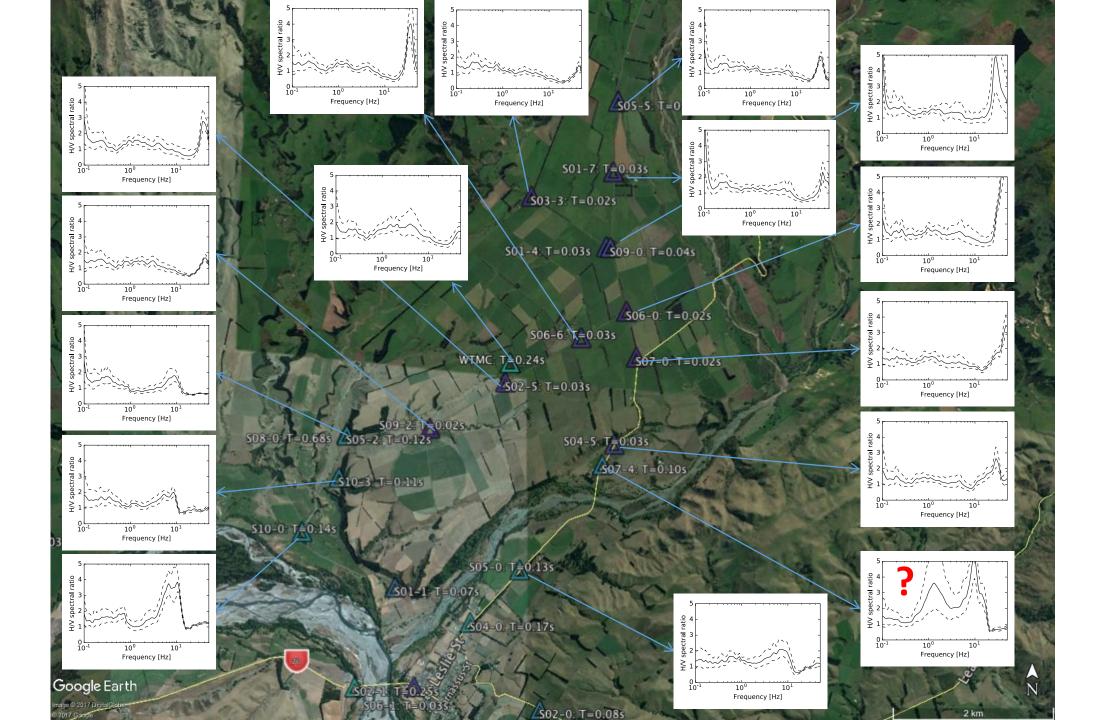


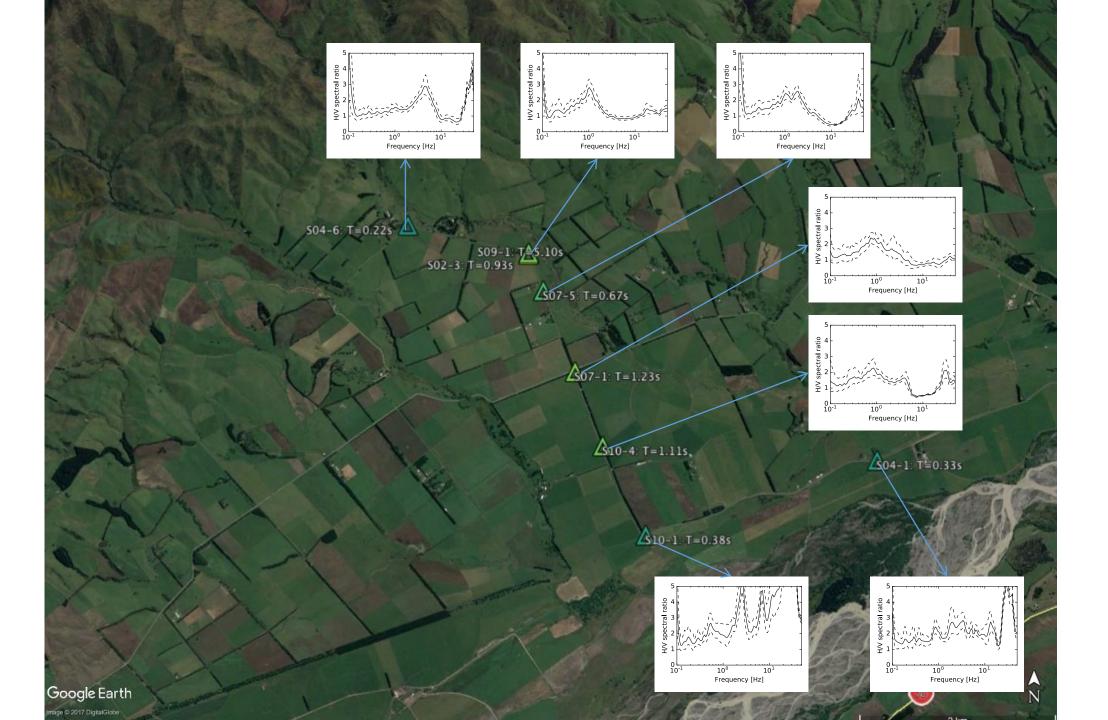
Waiau

WTMC, PGA geometric mean=1.028

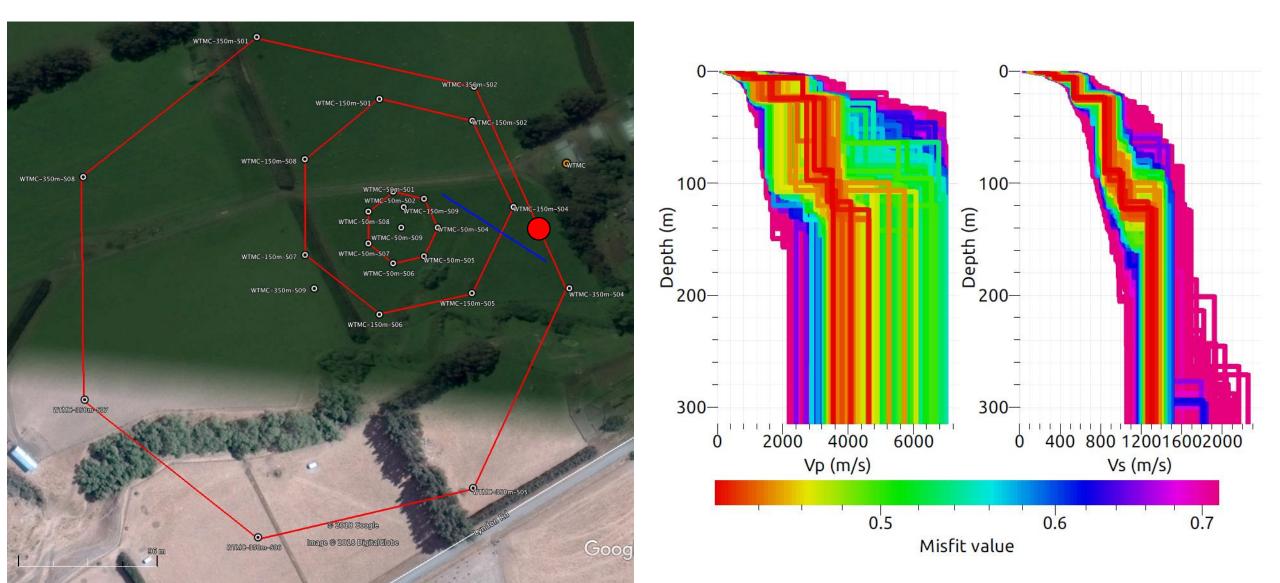








Waiau – WTMC Surface Wave Testing



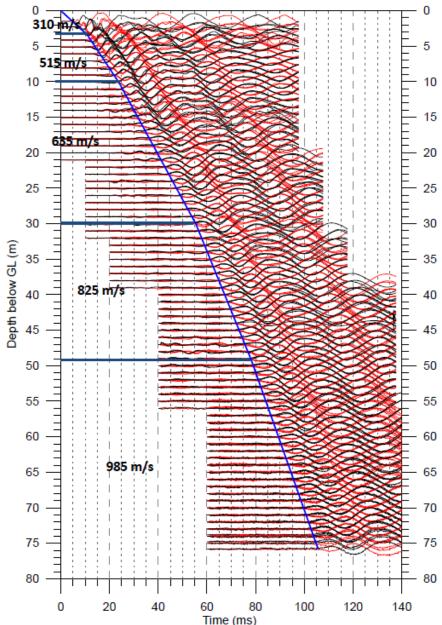
Waiau – Drilling and Downhole Vs

76m of gravel

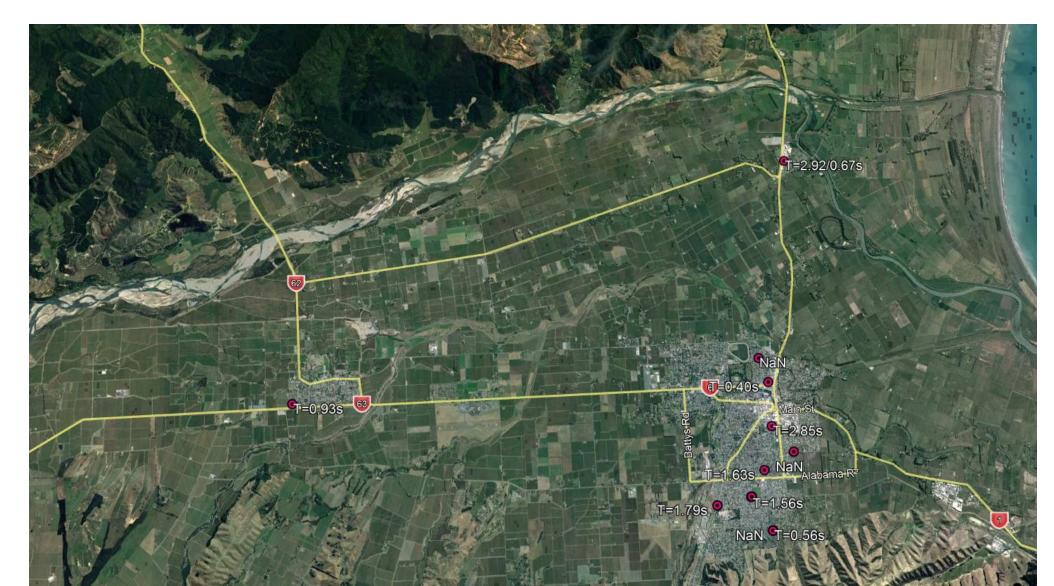






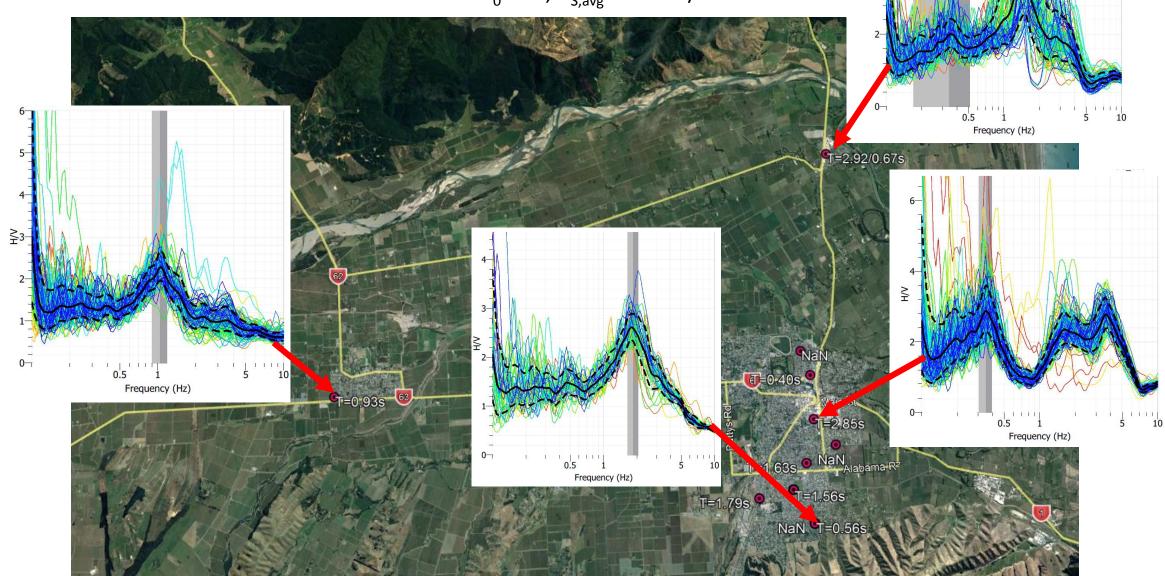


Blenheim – Ambient H/V Sites



Blenheim – Data

$$T_0 = 3s, V_{S,avg} = 600 \text{ m/s} \rightarrow z = 450 \text{ m}$$



UC_509

Kaikoura



