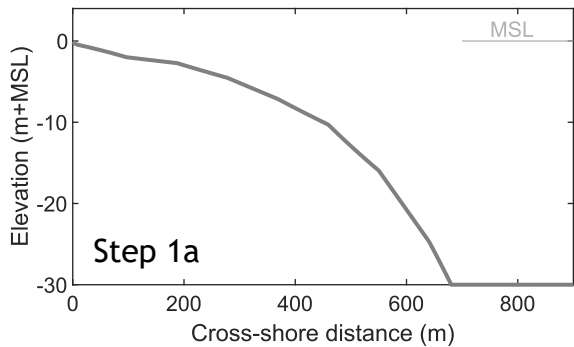


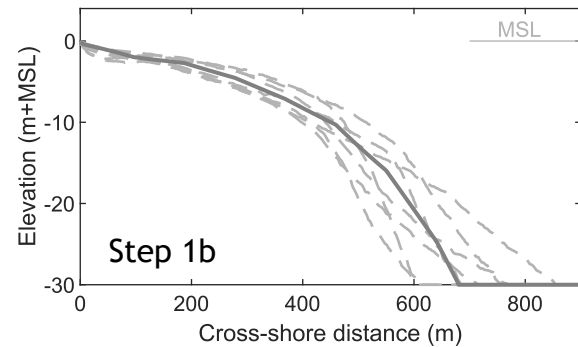
Step 1

Target profile



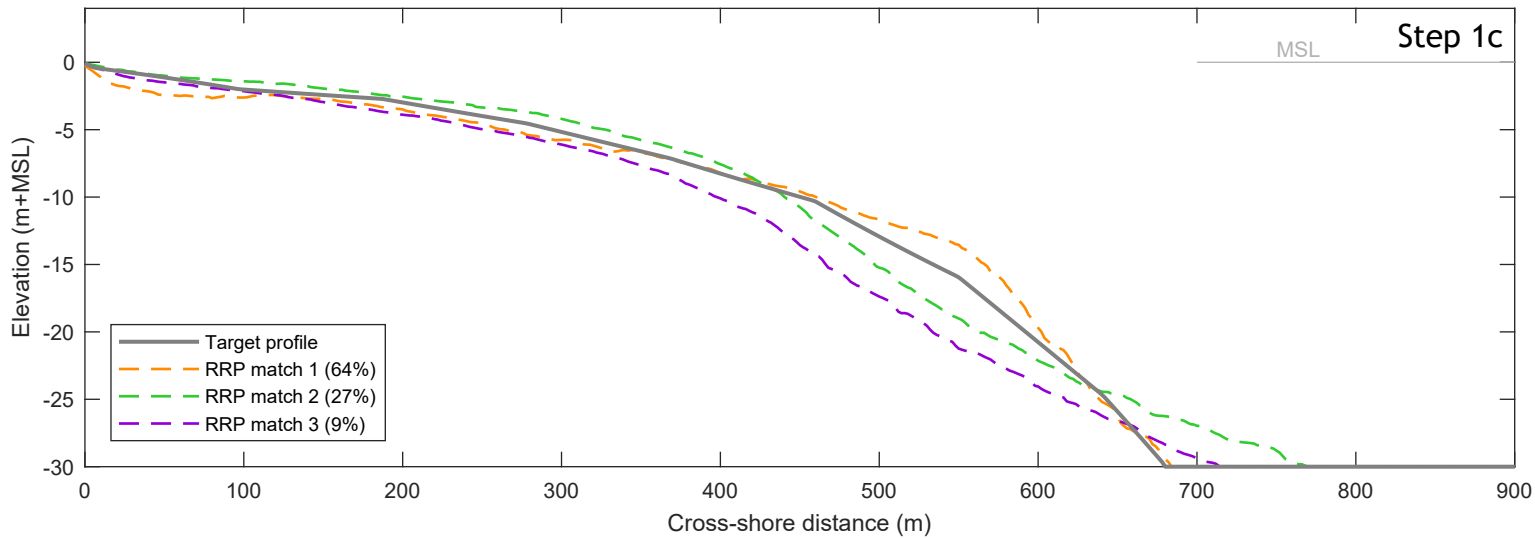
Cluster input variables
(depth, inverse wave
celerity)
→
Scott et al. (2020)

Target profile and matched iRRPs



Hierarchical cluster grouping
Scott et al. (2020)

Target profile and matched RRP



Target profile



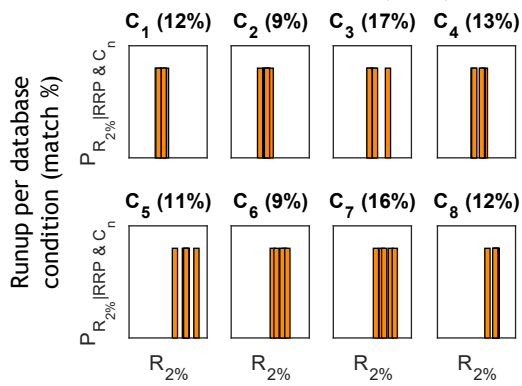
iRRPs, RRP

Probability of
target profile
match to RRP

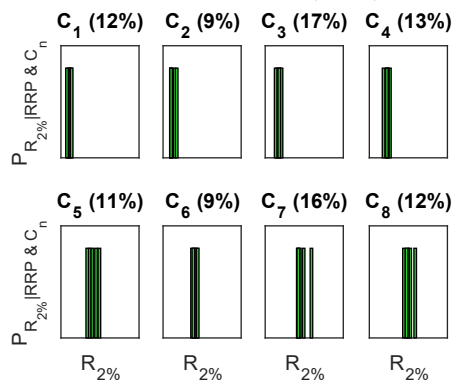


Step 2

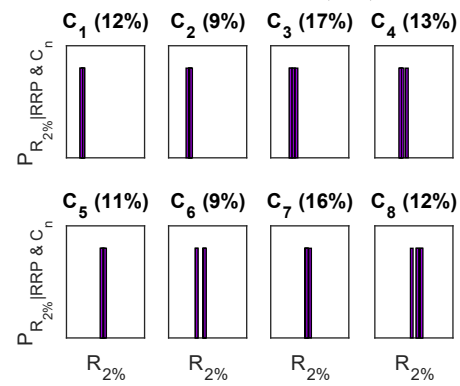
R_{2%} database conditions
RRP match 1 (64%)



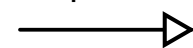
R_{2%} database conditions
RRP match 2 (27%)



R_{2%} database conditions
RRP match 3 (9%)

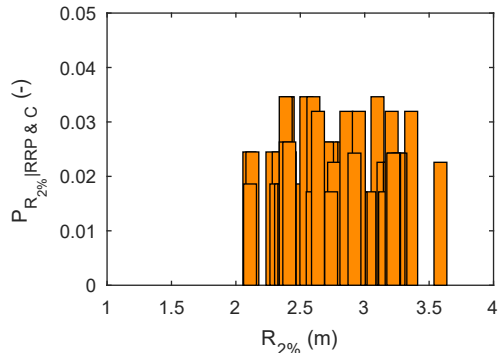


Target condition
C_T (H_s, T_p, SWL)

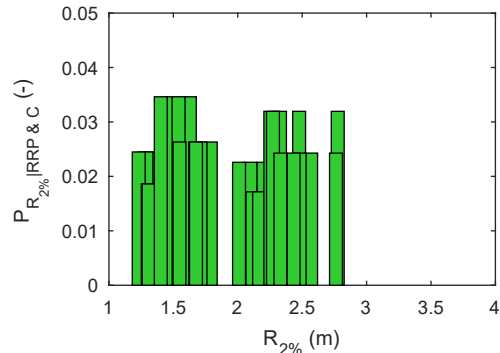


Database conditions
C_{DB} (H_s, T_p, SWL)

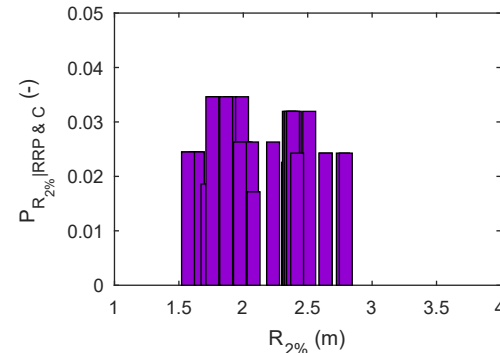
R_{2%} probability for RRP match 1



R_{2%} probability for RRP match 2



R_{2%} probability for RRP match 3

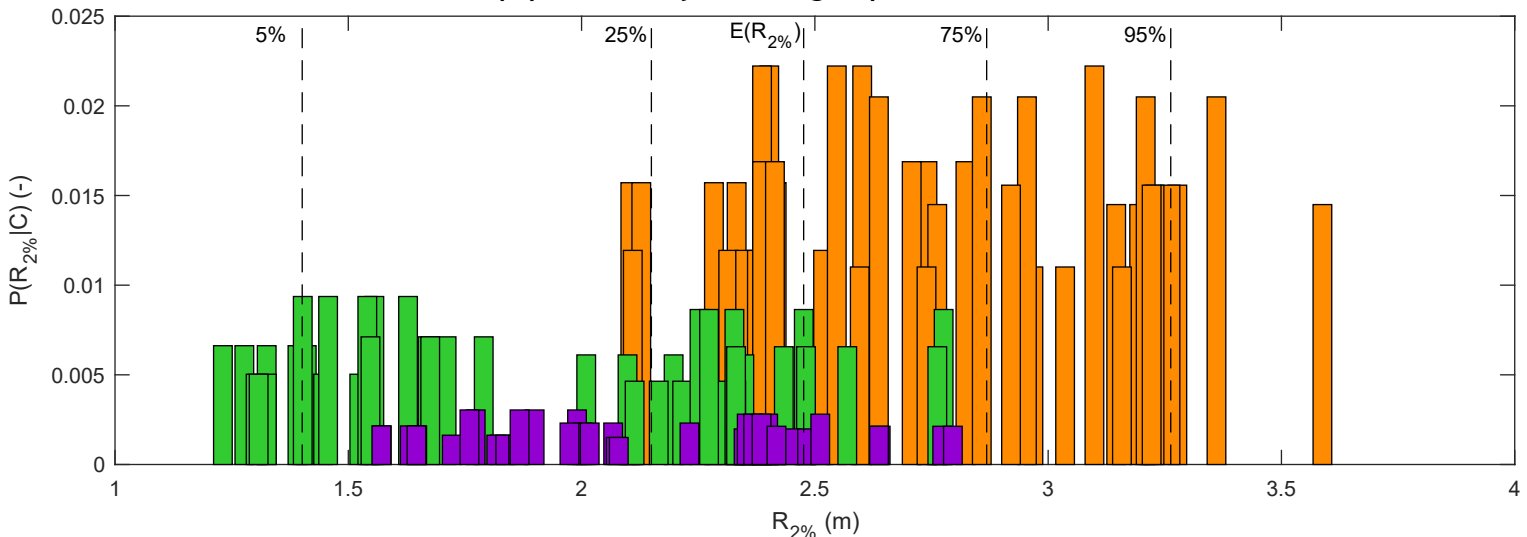


Runup probability
matched RRP for
target condition



Step 3

Runup probability for target profile and conditions



Wave runup
probability for target
profile and conditions

