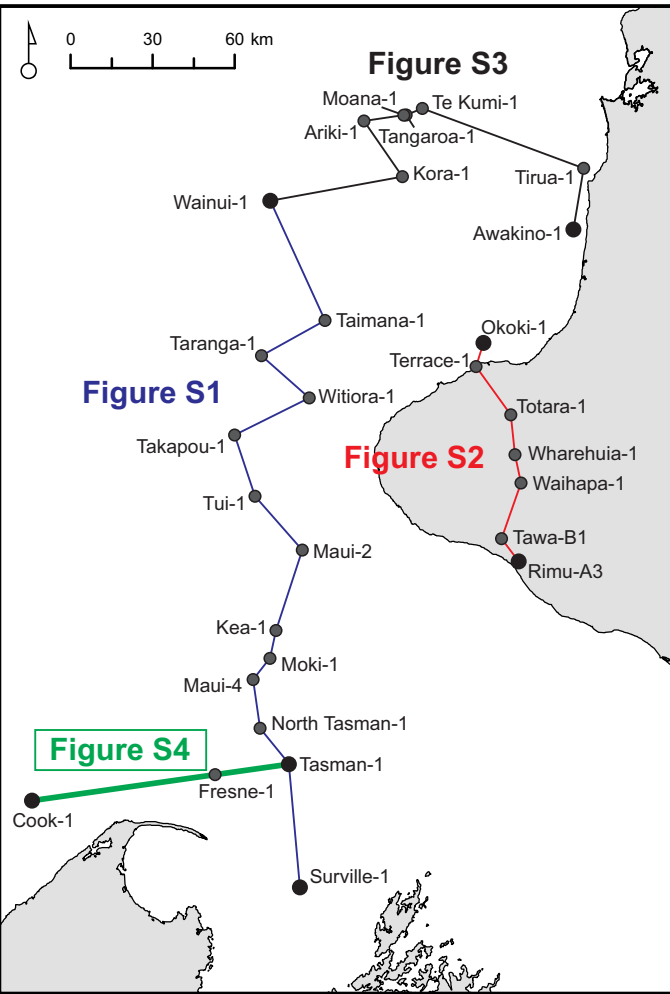


**Figure S4:- east-west transect, Cook-1 to Tasman-1**

Log Correlations at 1:2000 scale. Two north-south transects (Figs. S1–2) and two west-east transects (Figs. S3–4). Logs, lithology, and paleobathymetry interpretations from GNS NZ digital well log database. Electrofacies based on lithology and paleobathymetry (see legend below).



Facies	Interpretation
	Coastal Plain to Marginal Marine
	Shoreface and shallow marine
	Shelf muds
	Shelf sands (includes Matapo)
	Shelf limestone (shallow shelf & redeposited)
	Upper bathyal muds
	Sandy slope - may include some distal submarine fan
	Proximal submarine fan and channel
	Distal submarine fan (or interlobe)
	Mid-lower bathyal muds
	Slope-basinal limestone (upper to mid bathyal)
	Variably calcareous, marly lithologies deposited under bathyal conditions

Colour	Age
	Altonian (PI)
	Otaian (Po)
	Waitakian (Lw)
	Duntroonian (Ld)
	late Whaingaroan (Lwh)
	early Whaingaroan (eLwh)
	Runangan (Ar)
	Paleocene

