The model and trial design were developed via a continual collaboration between gear technologists and data analysts. This resulted in both a modified modelling framework and modified trial design to address particular requirements of quad-rig trials. We first describe the trial design followed by the model development.

A flattening out of the proportions at 0.25 might be expected but was not found in the present trial.

Expeditious uptake of the quad-rig gear in the economically important Irish *Nephrops* fishery made it difficult for developments in gear technology to keep pace.