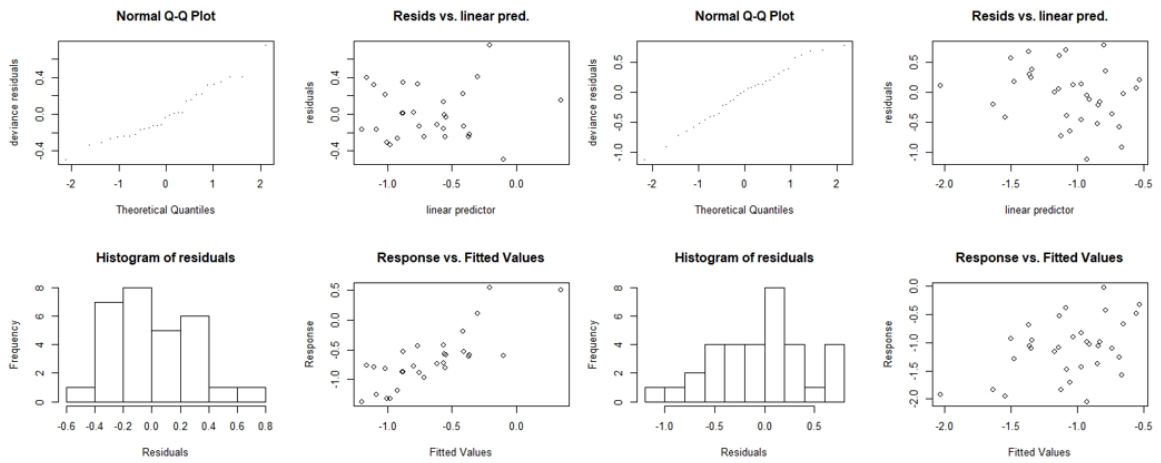
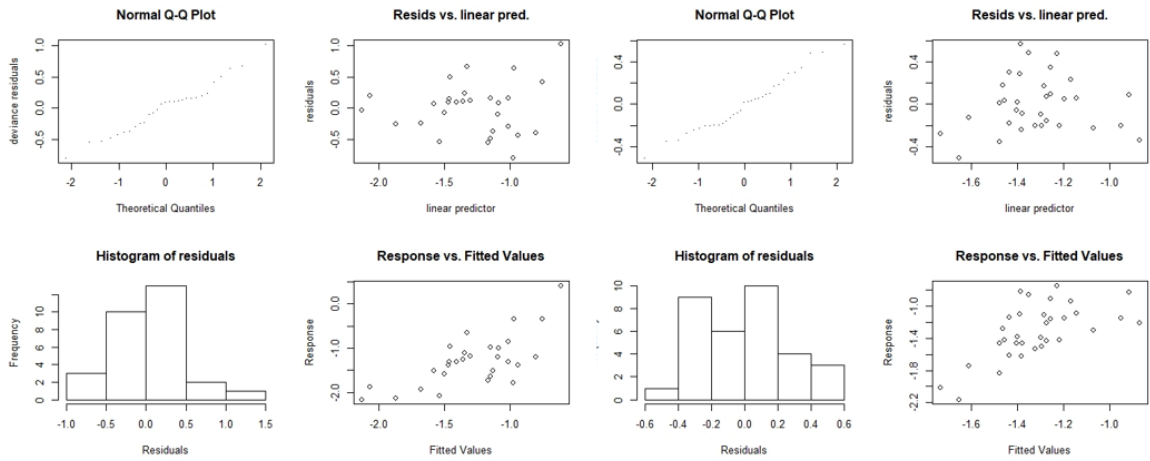


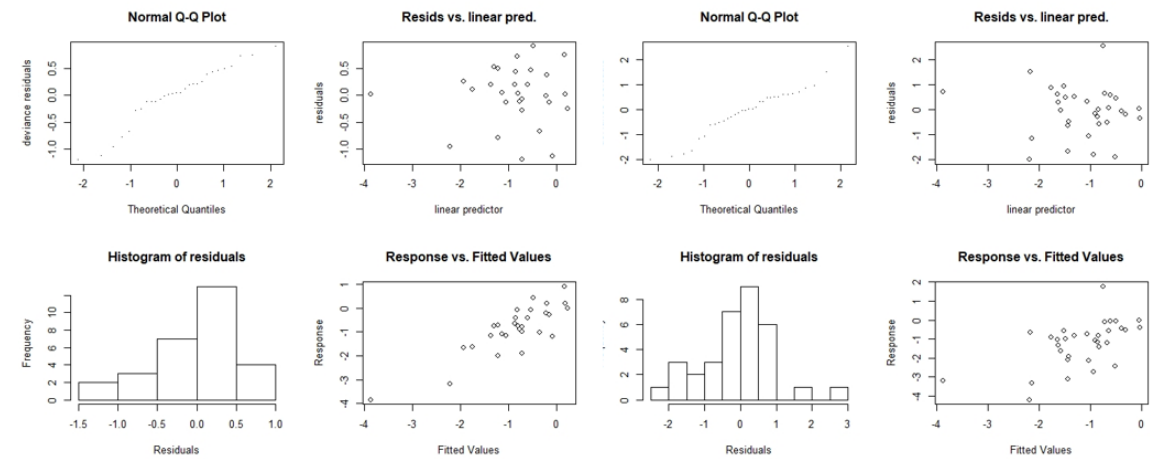
## Live hard coral



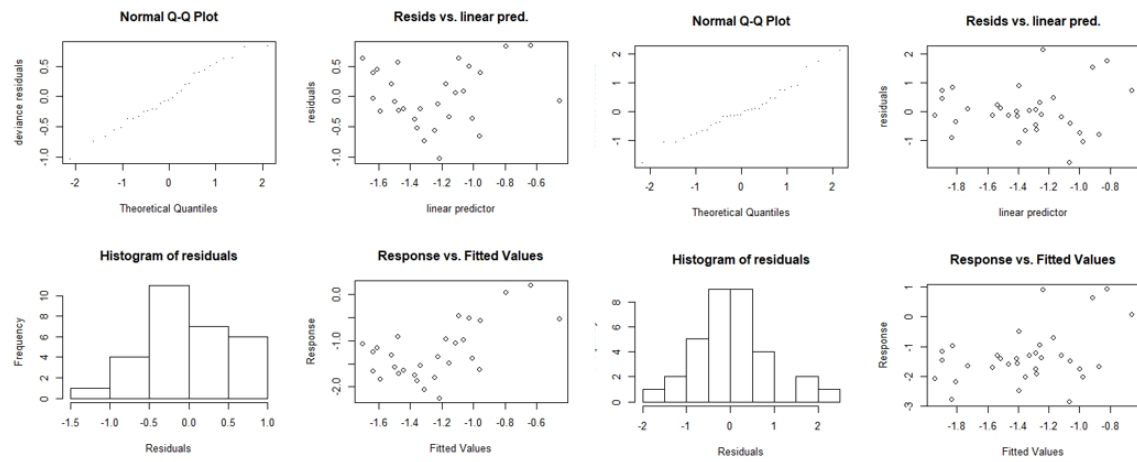
## Dead hard coral



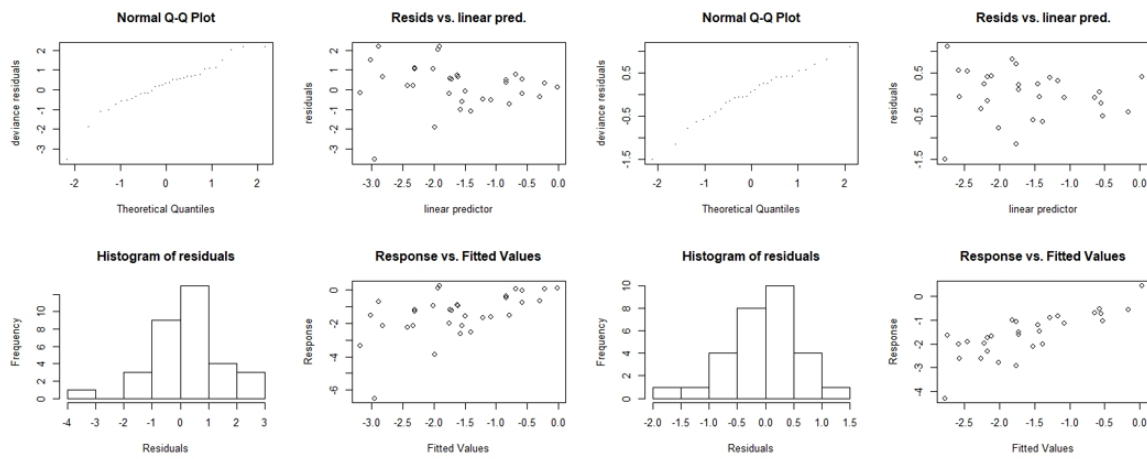
## Branching morphologies



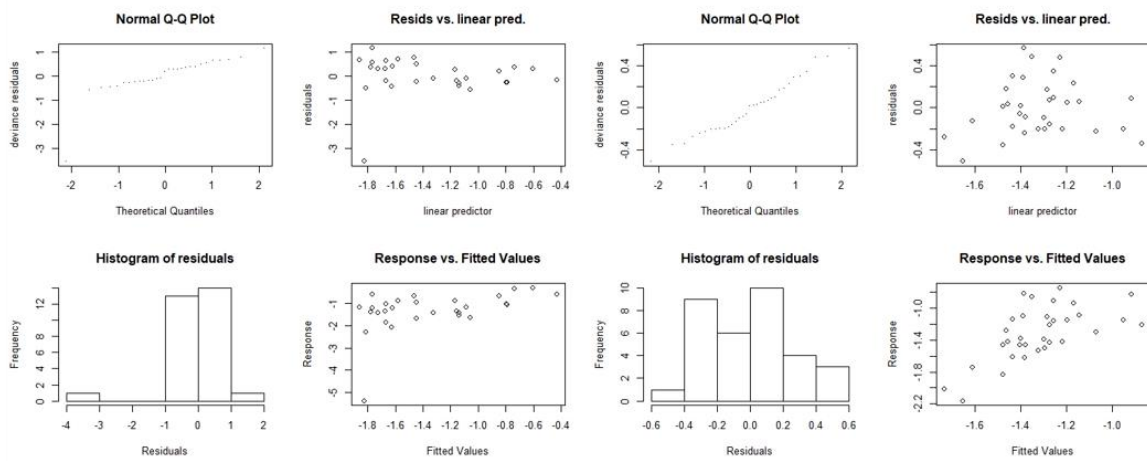
## Encrusting morphologies



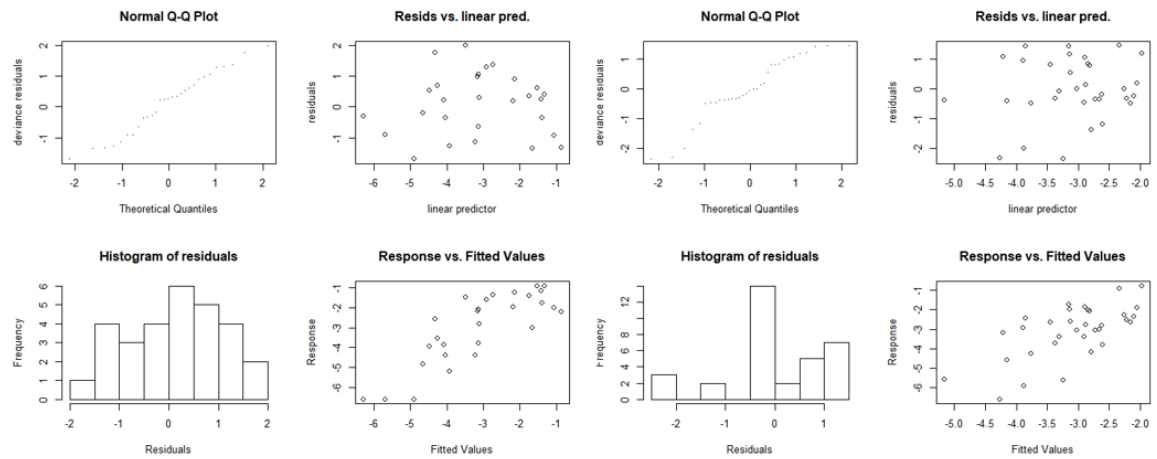
## Massive morphologies



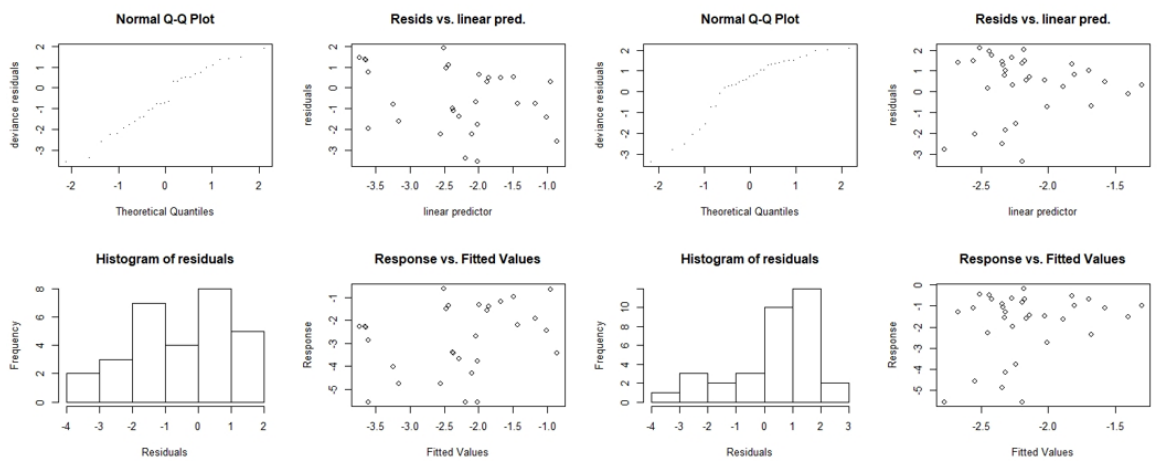
## CCA



## Fleshy algae



## Turf algae



**Supplementary Figure 5** - Residuals (`$gam.check`) of spatio-physical models (for each response variable (in order from top to bottom: live hard coral, dead hard coral, branching morphologies, encrusting morphologies, massive morphologies, CCA, macroalgae, turf algae). Left set of graphs = models based on low local impact sites (< 25 humans km<sup>-2</sup> reef); right set of graphs = models based on high local impact reefs (> 25 humans km<sup>-2</sup> reef):