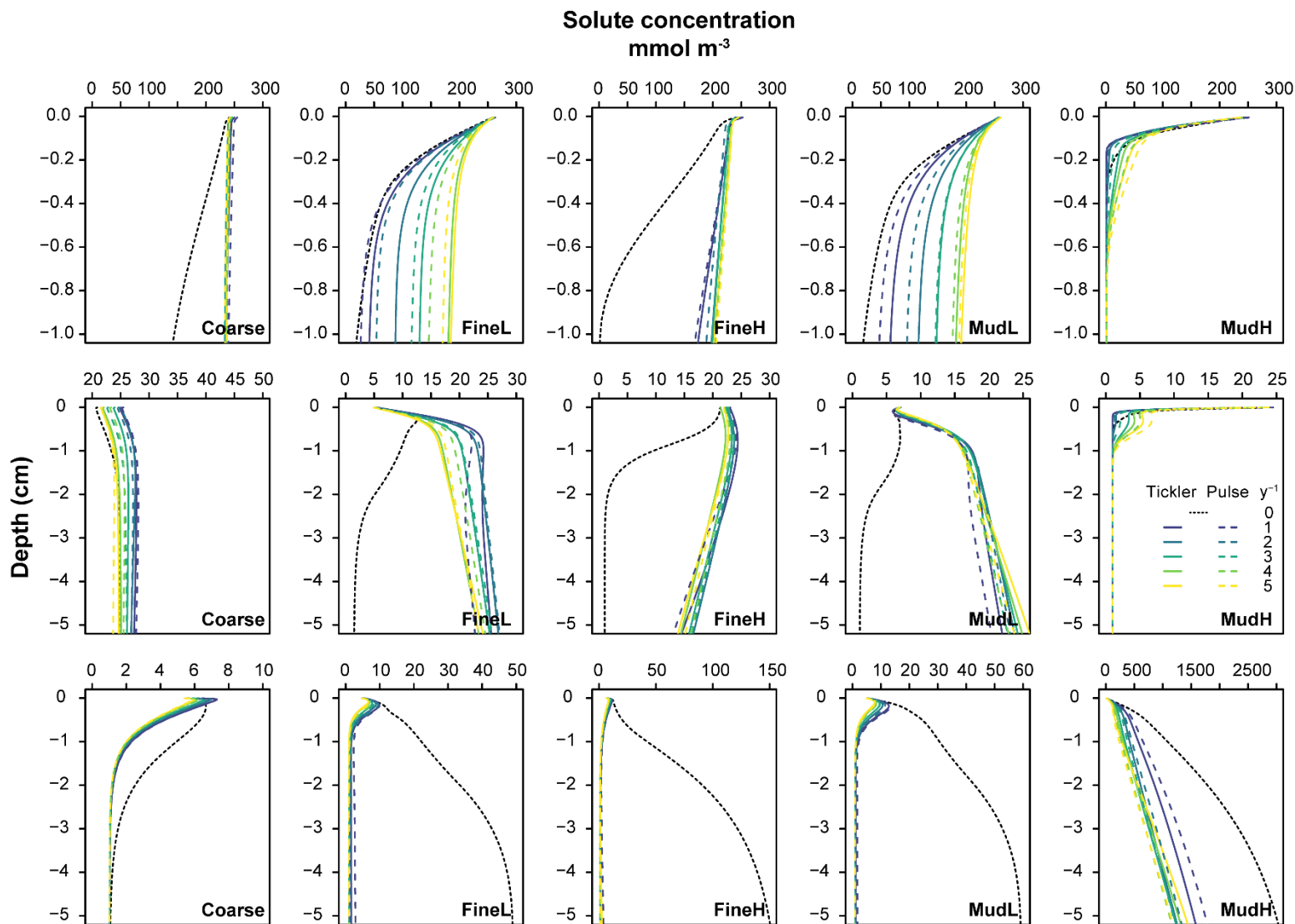


Figure S 1: Measured concentrations (black dots) and fitted profiles (red line) for ammonium, nitrate, and oxygen (mmol m^{-3} , rows) in the different types of sediment used as the basis for the disturbance simulations (columns).



5 Figure S 2: Annually averaged modelled for oxygen, nitrate, and ammonium (mmol m⁻³, rows) in the different types of sediment used as the basis for the disturbance simulations (columns). Black dotted line is the 0 trawl default, full and dotted coloured lines are tickler and pulse gear respectively, with increasing trawling frequencies as different colours.