Cover Letter

Dear Editor,

I am submitting my revision to the paper ‘Numerical Scheme for the Generalised Serre-Green-Naghdi Model’ for publication in Wave Motion. This paper describes the first well validated numerical method for solving the generalised Serre-Green-Naghdi equations, which describe a family of dispersive wave equations for the purposes of modelling water waves. This is the first such method capable of solving the generalised Serre-Green-Naghdi equations without specialised modifications for certain members of the admitted family of equations. The well validated method is used to justify a linear classification of members of this family of equations and demonstrates a new behaviour - advancing dispersive wave trains. These equations were recently derived and they have posed a significant challenge for the development of numerical methods, thus this numerical method is a significant achievement. It is also a good extension of previous research into numerical methods for the classical Serre-Green-Naghdi equations.

Given the applications of numerical solvers for these equations and the numerical analysis methods in this manuscript, I believe this paper would make a good addition to your journal.

I have responded to all the reviewers comments in my response in ReviewerResponse.pdf.

Thanks,

Jordan.