

# Numerical Study of Steep Gradient Problems for Generalised Serre-Green-Naghdi Model

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Papers Primary focus - Numerical study of dam-break problem for important families of gSGN equations (improved dispersion, serre to swwe, regularised shallow water).	
<ul style="list-style-type: none"> <li>• Discussion of different implementations and effect of reconstruction (particularly of derivatives) on solutions</li> <li>• First robust numerical solutions for the family of equations for steep gradient problem</li> <li>• Robustness of method in presence of weak discontinuity (spike in G)</li> <li>• Number of different implementations of methods demonstrating same behaviour (justifying our observations)</li> </ul>	