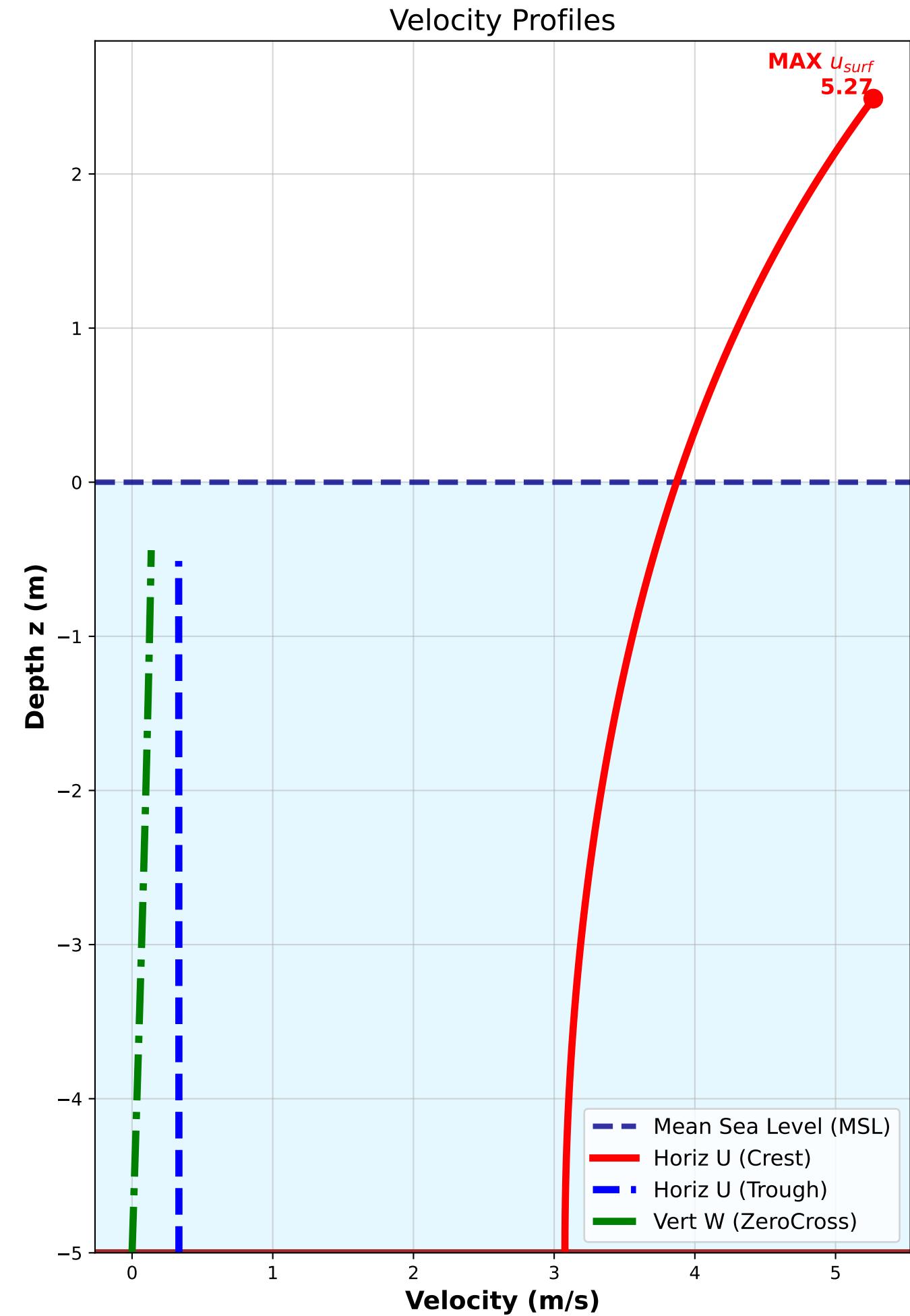
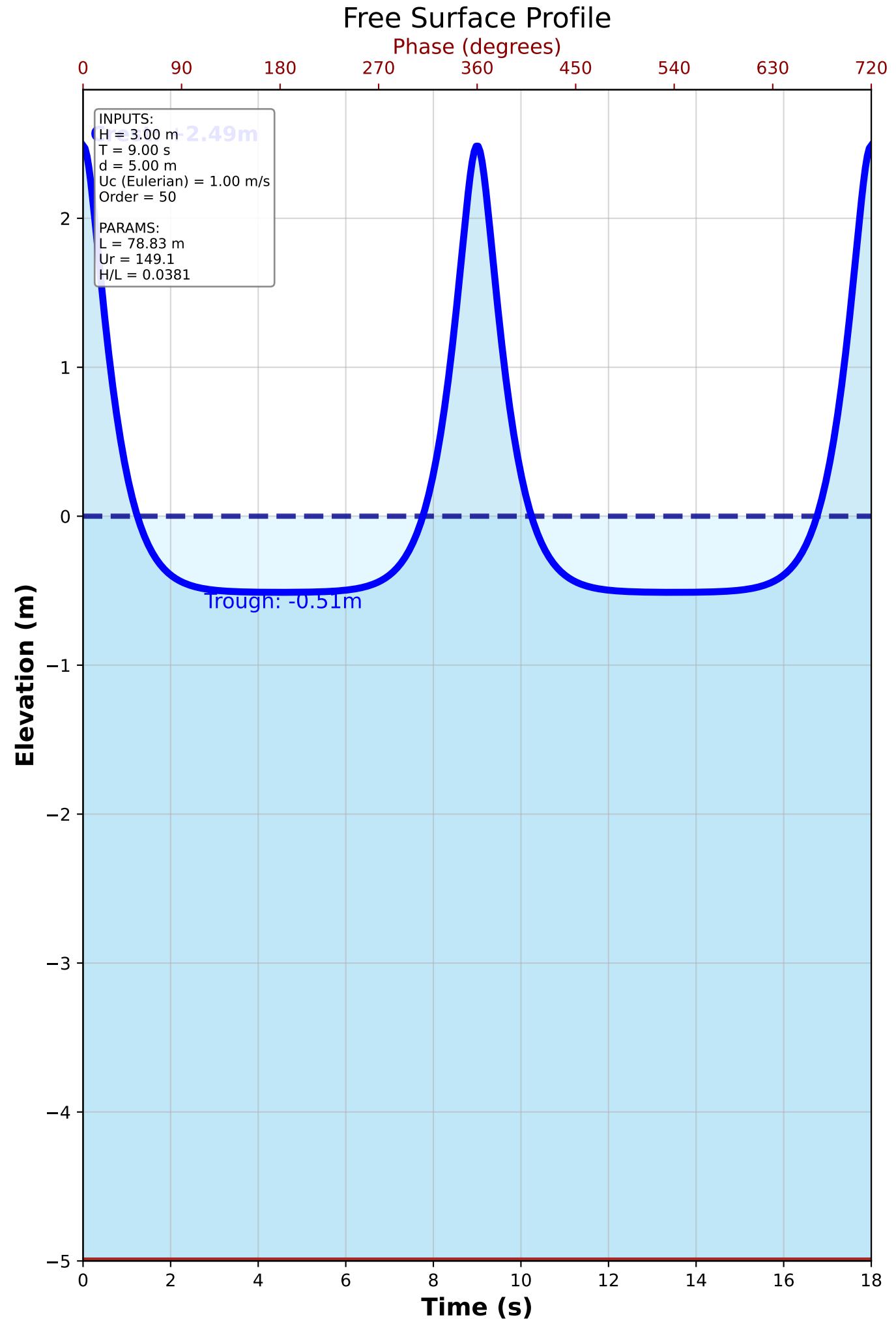
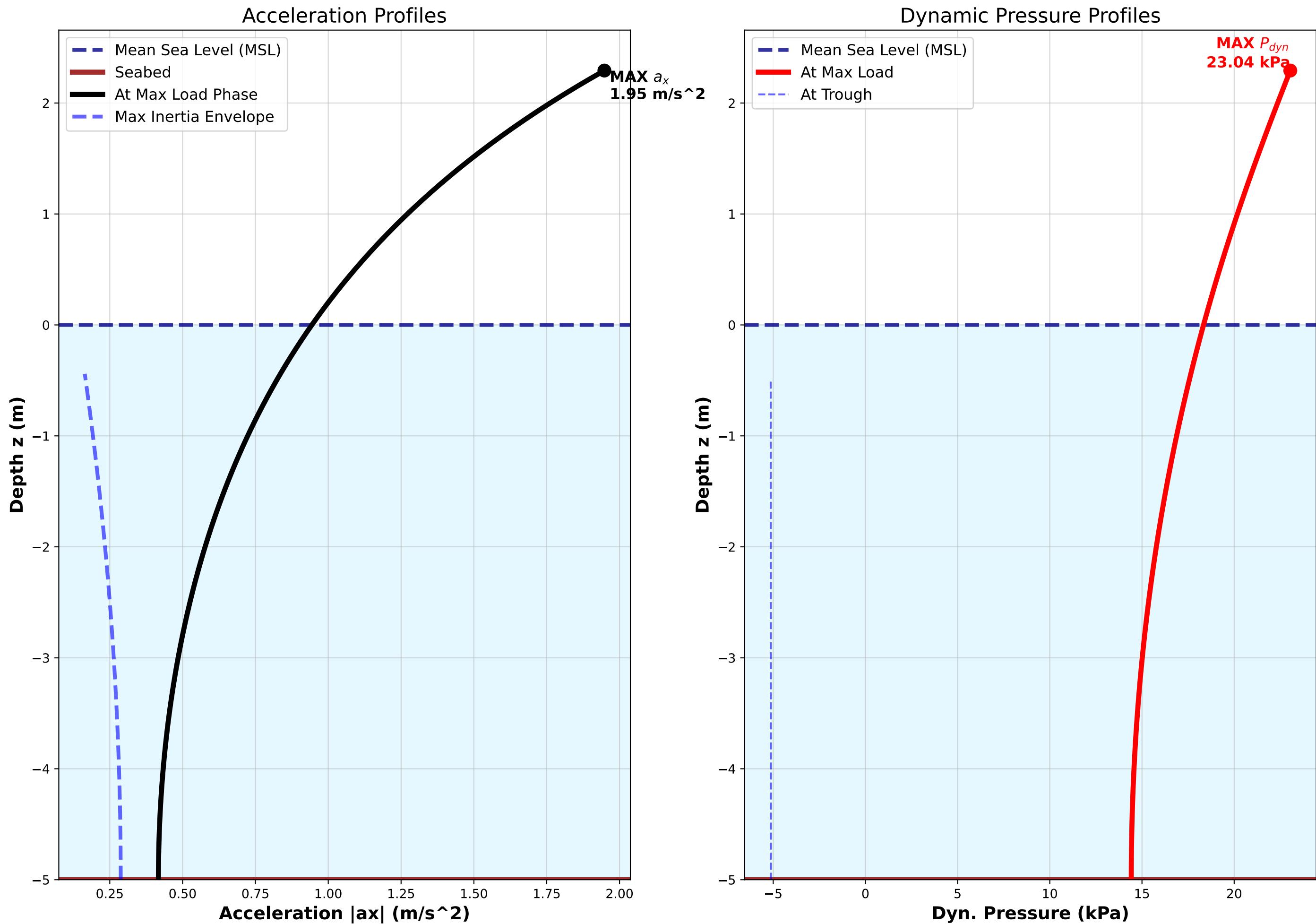


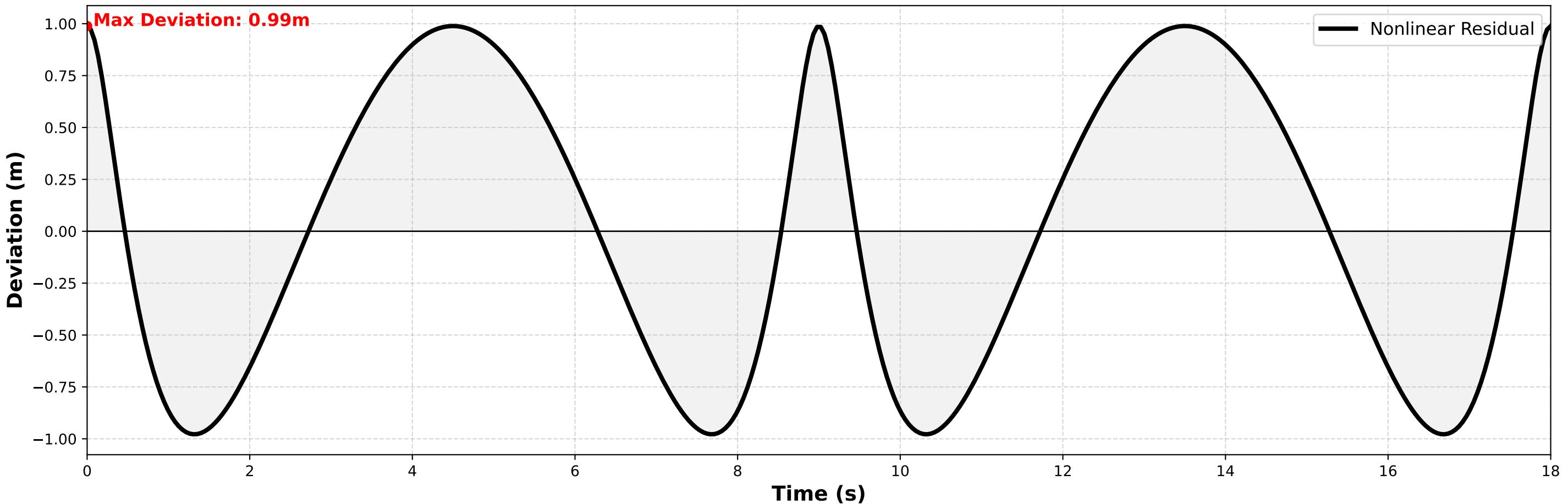
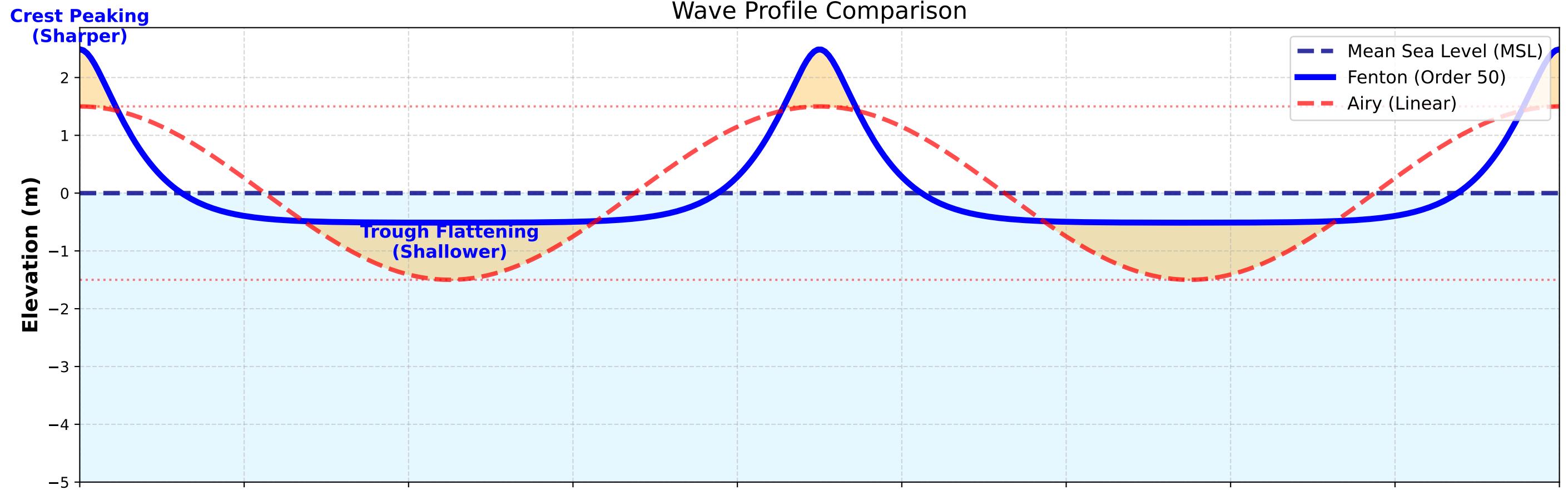
1. Wave Kinematics (Profile & Velocities)



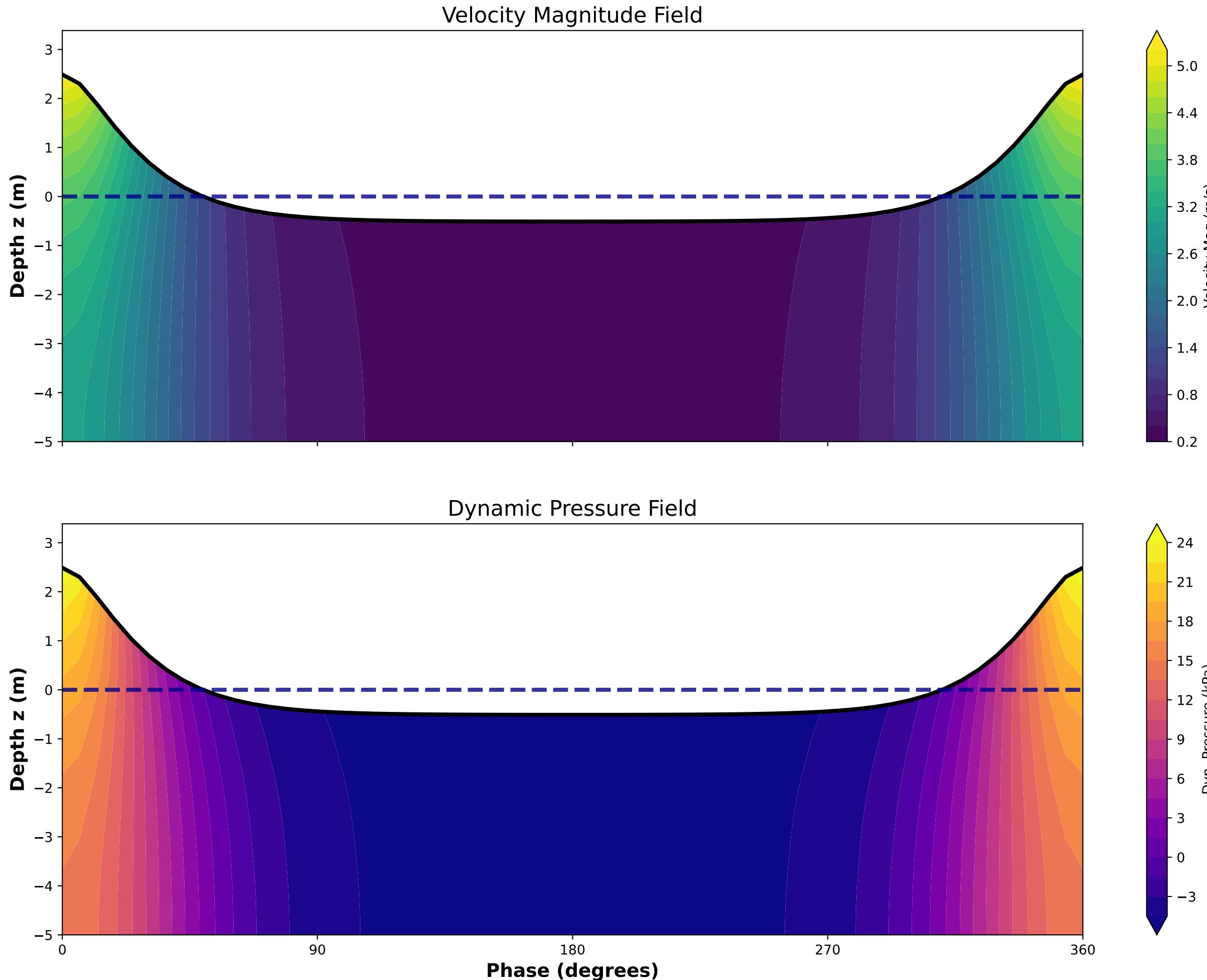
2. Wave Dynamics (Accelerations & Pressures)



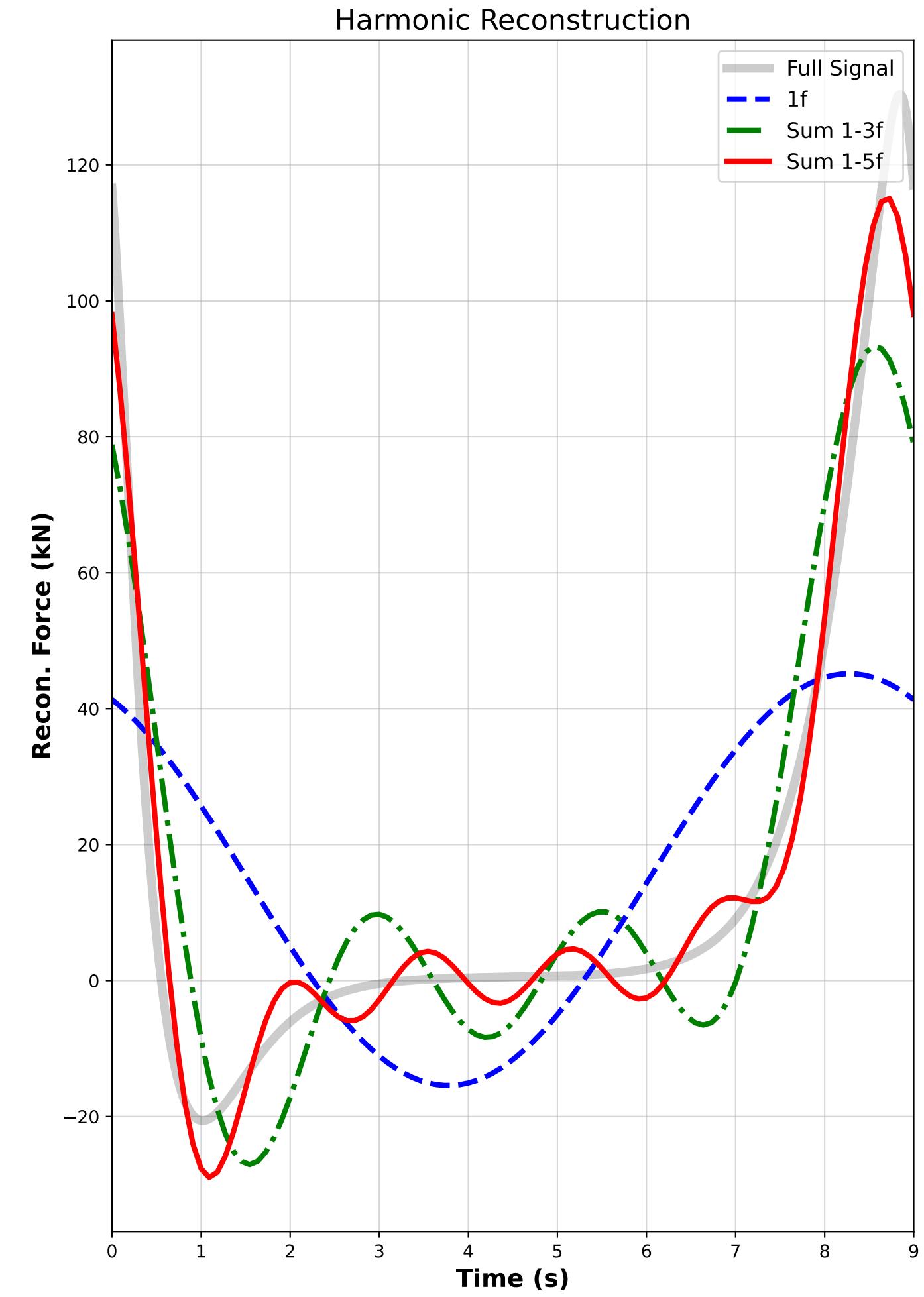
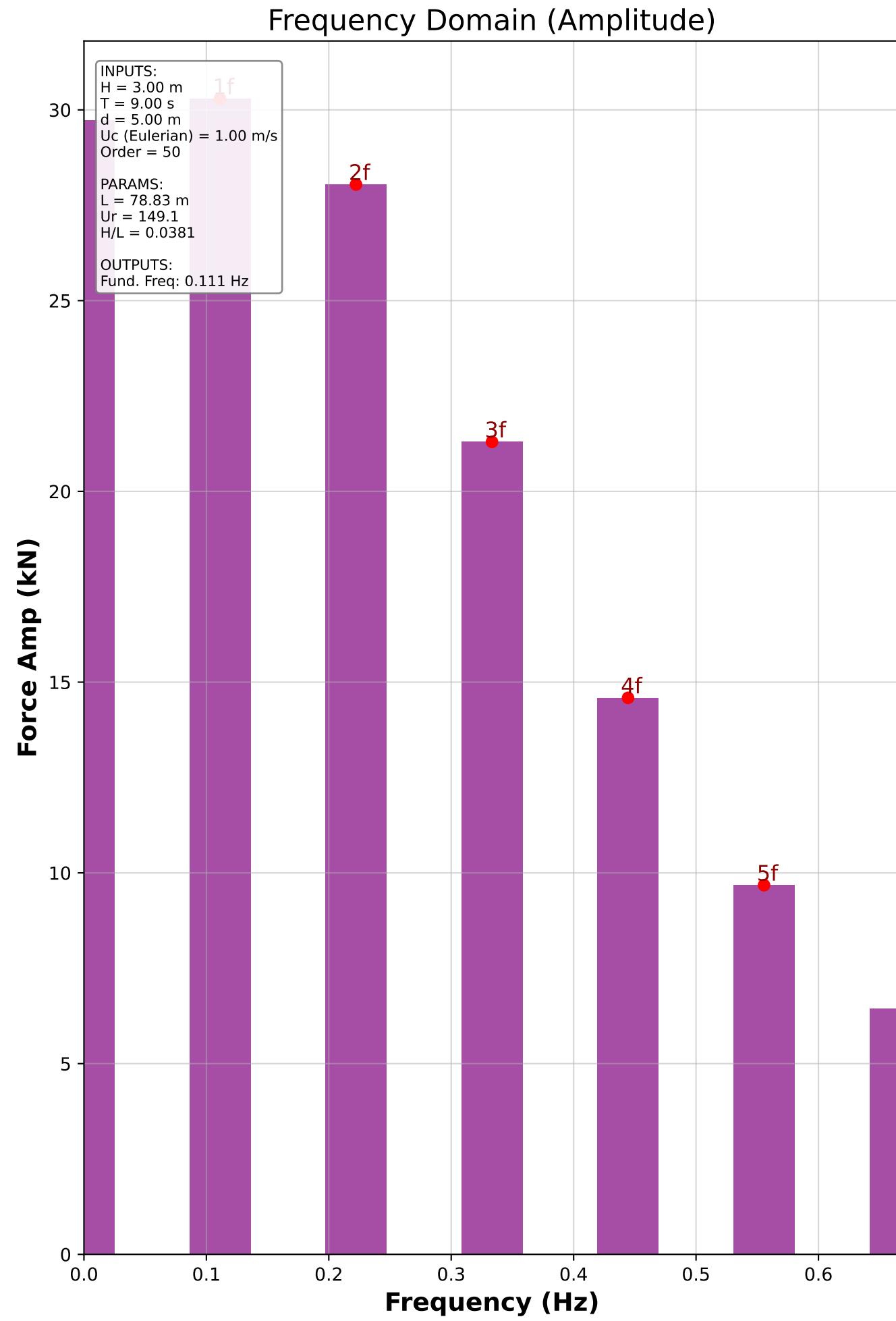
3. Solver Validation: Linear vs. Nonlinear Physics



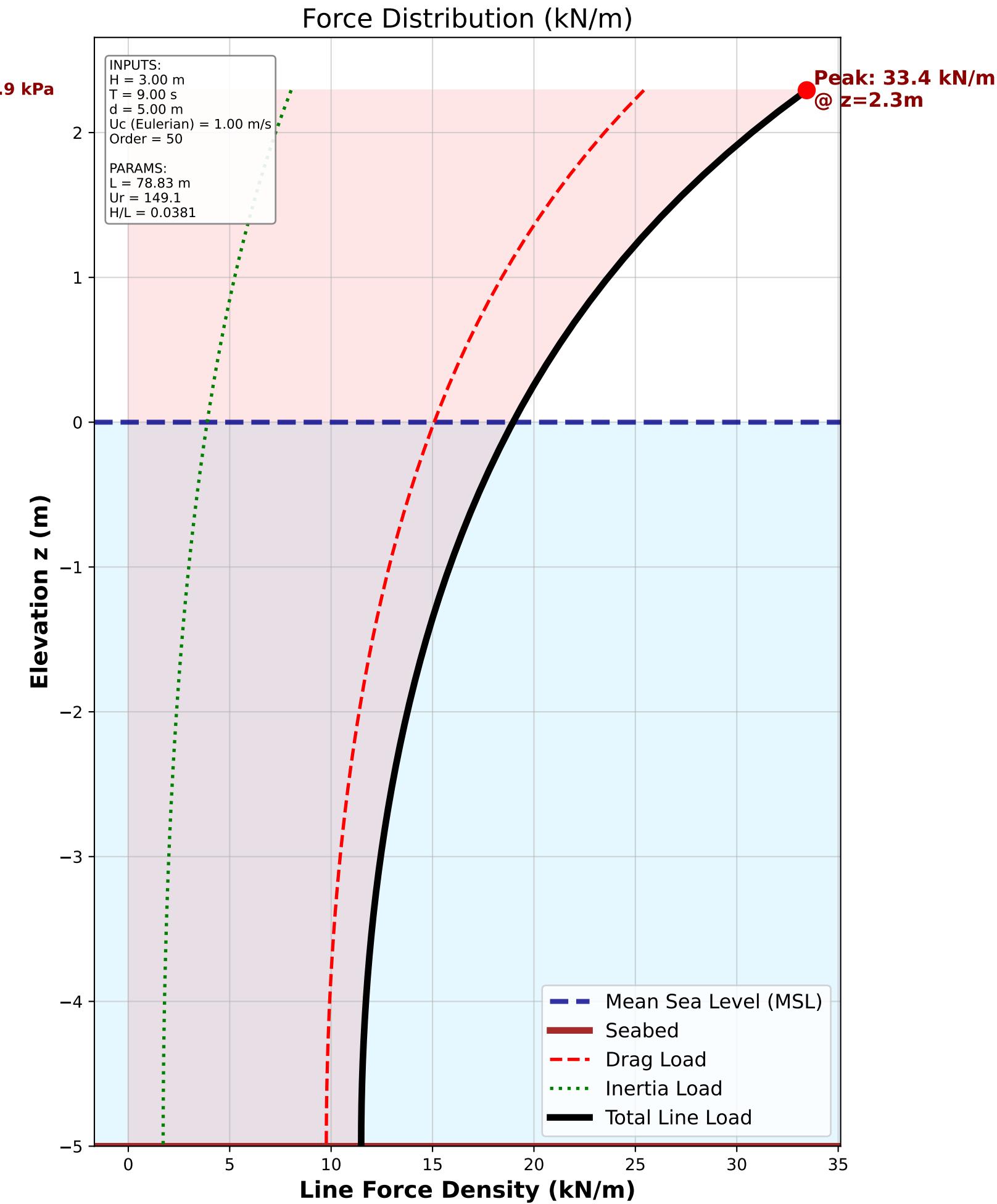
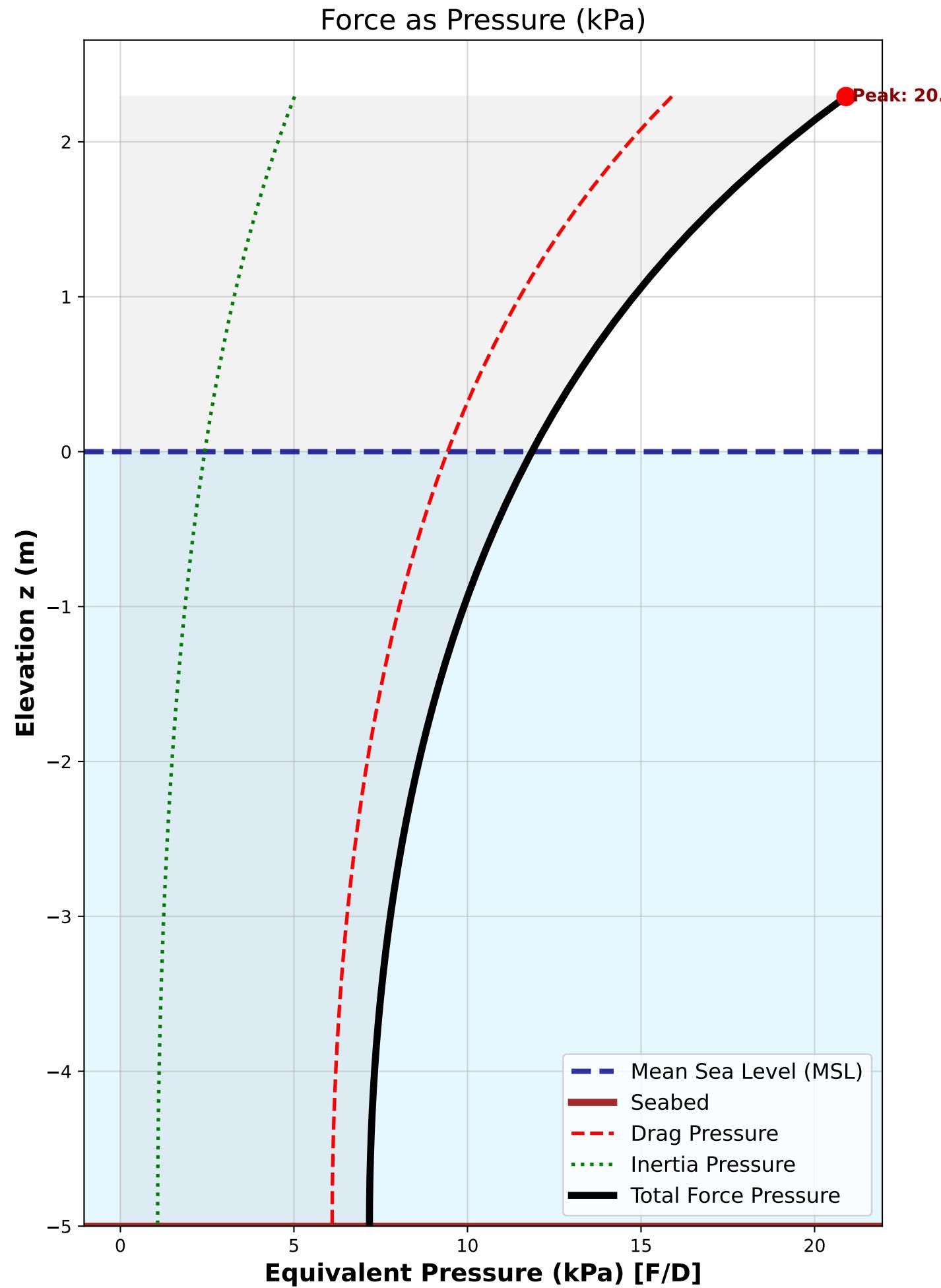
4. 2D Wave Field Visualization ($H=3.0\text{m}$, $T=9.0\text{s}$)



5. Force Spectrum & Harmonic Reconstruction

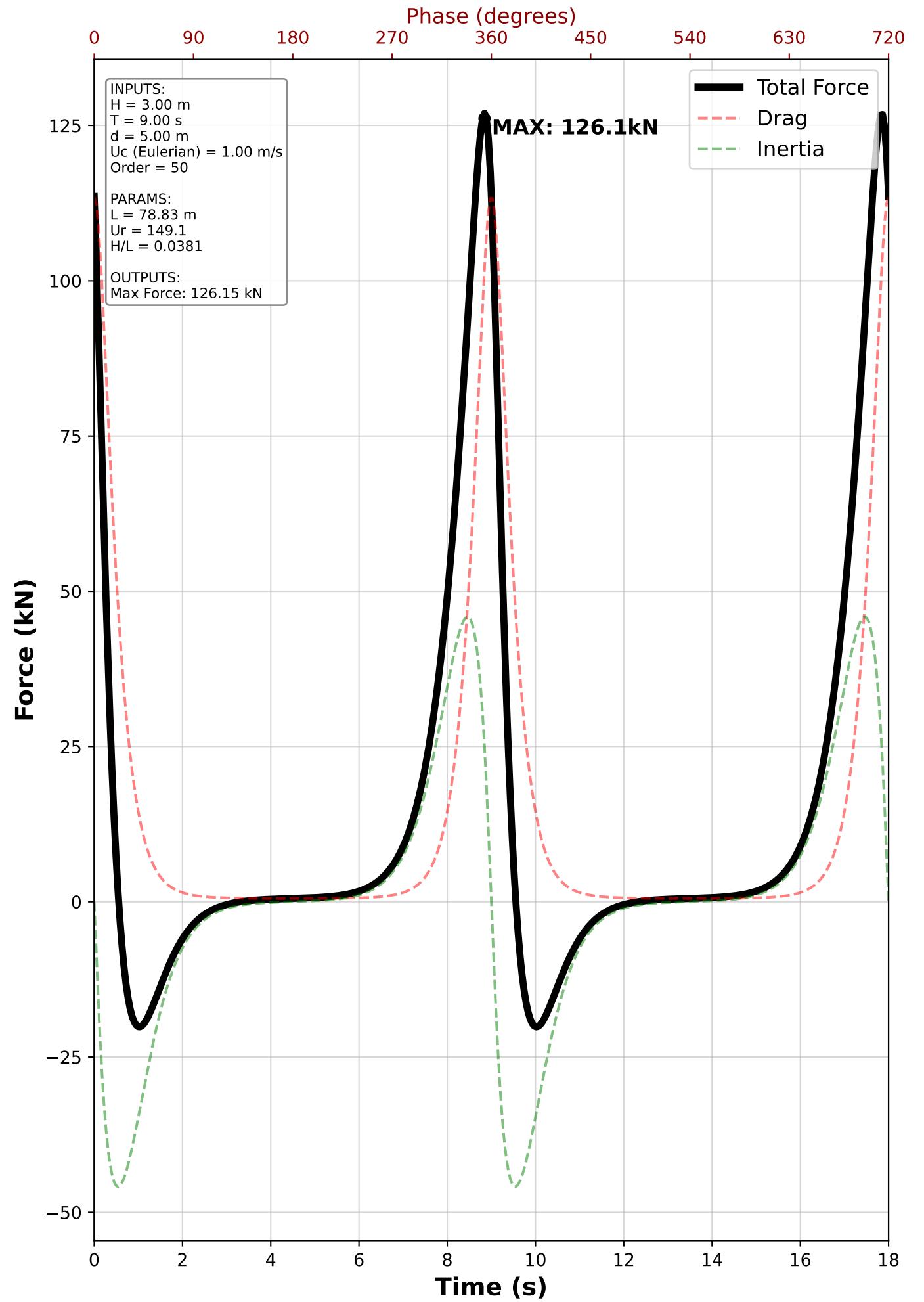


6. Vertical Force Profiles at Max Load Phase (353.8°)



7. Hydrodynamic Forces & Moments (Time Series)

Base Shear Force



Overshooting Moment (Mudline)

