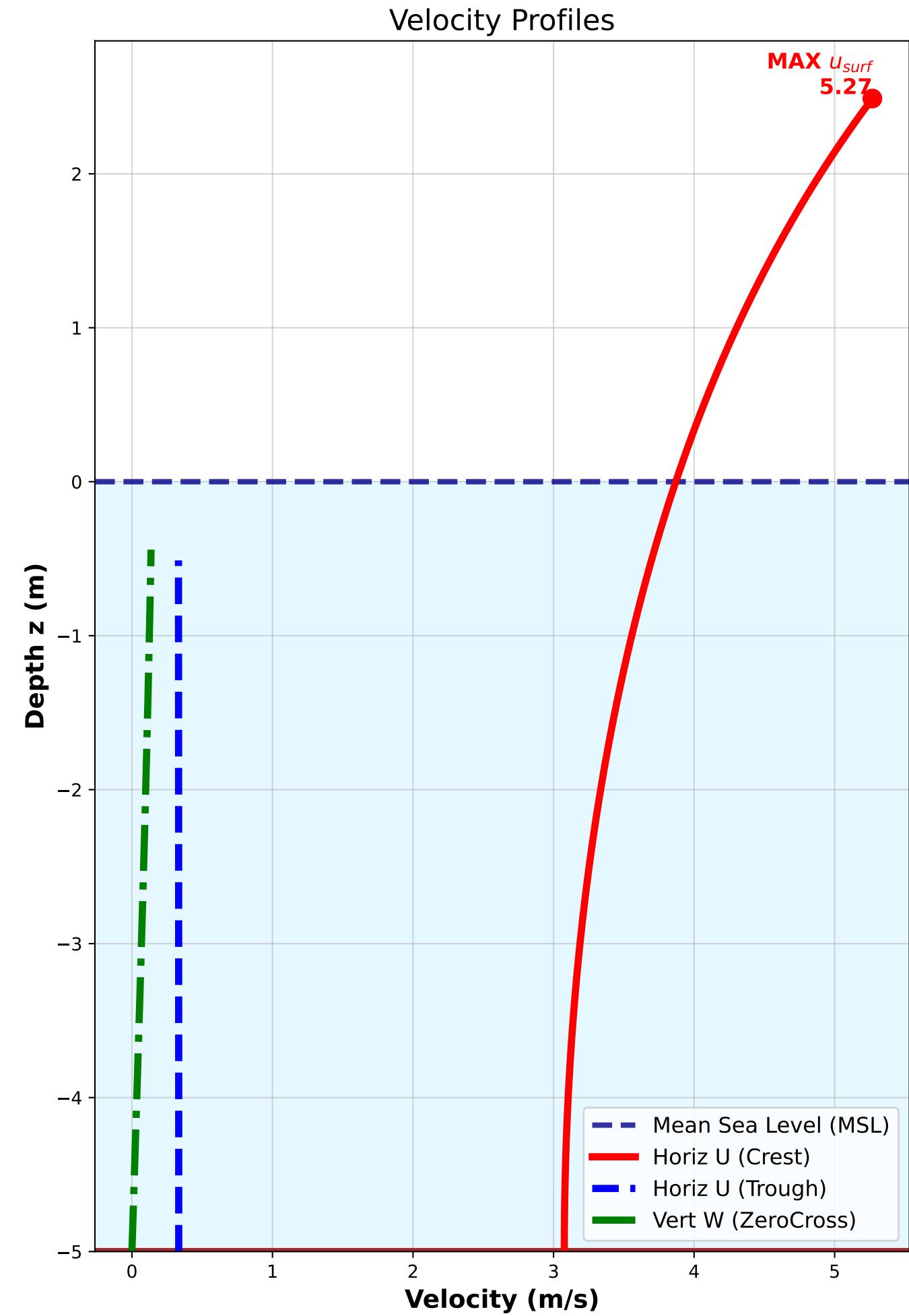
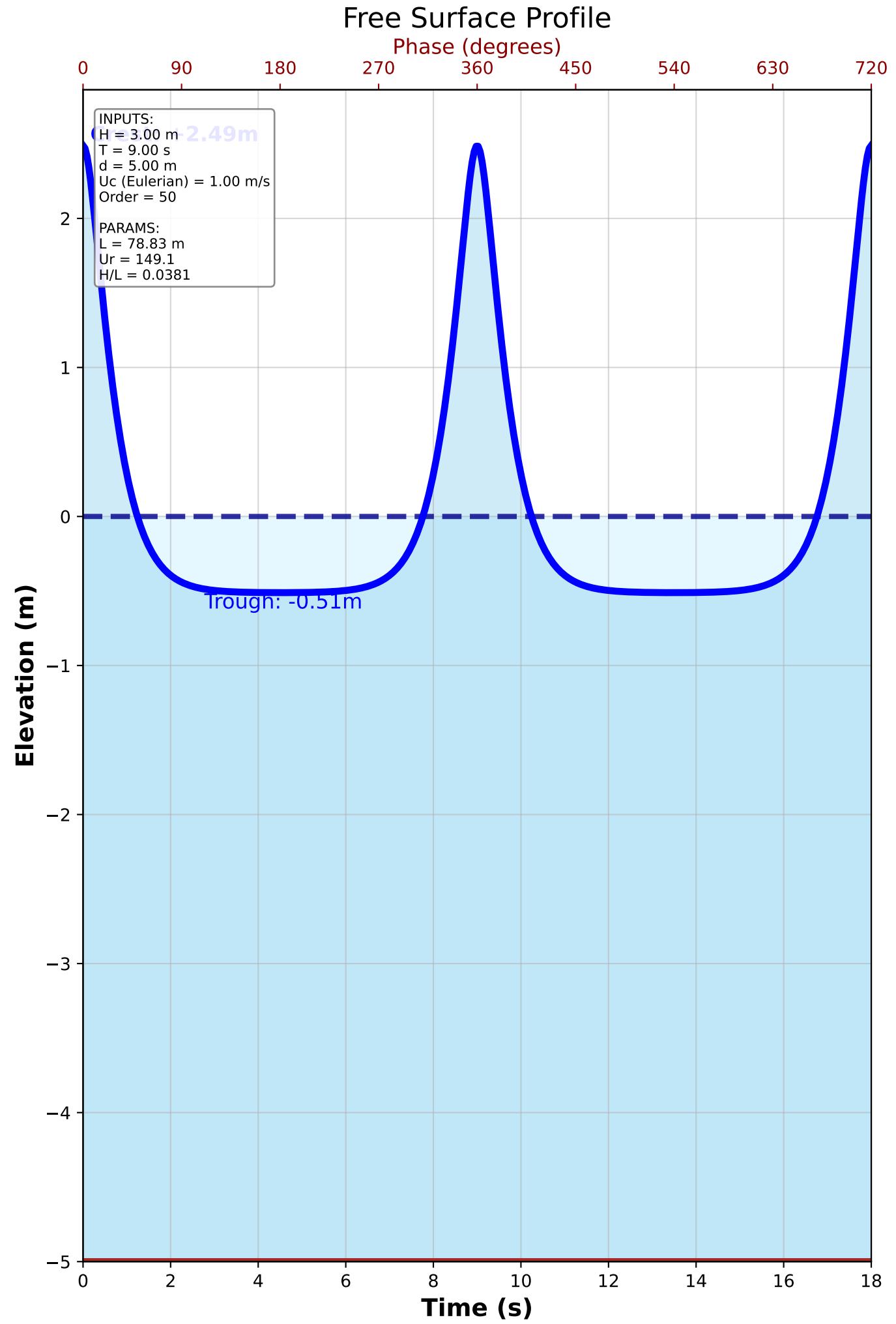
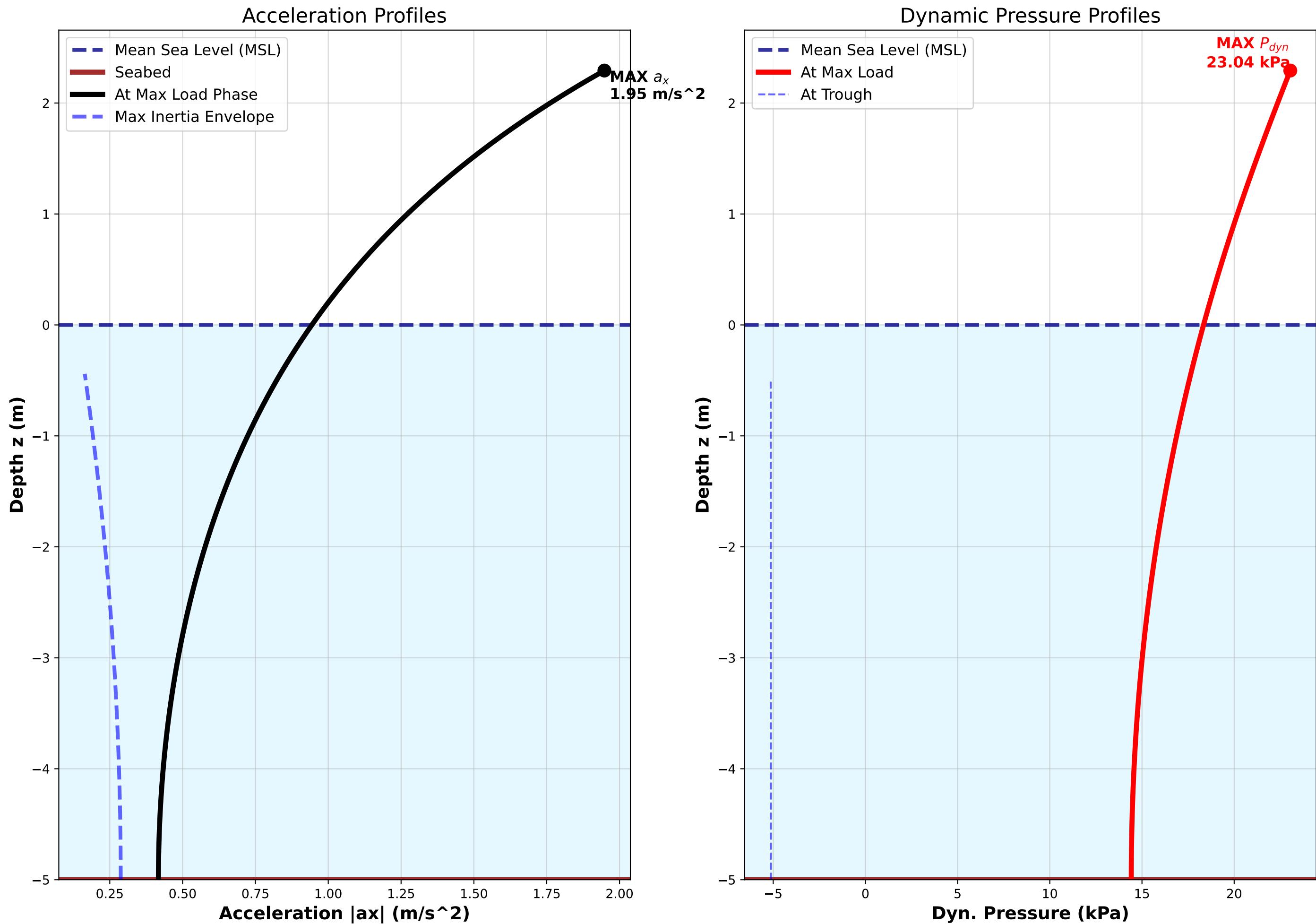


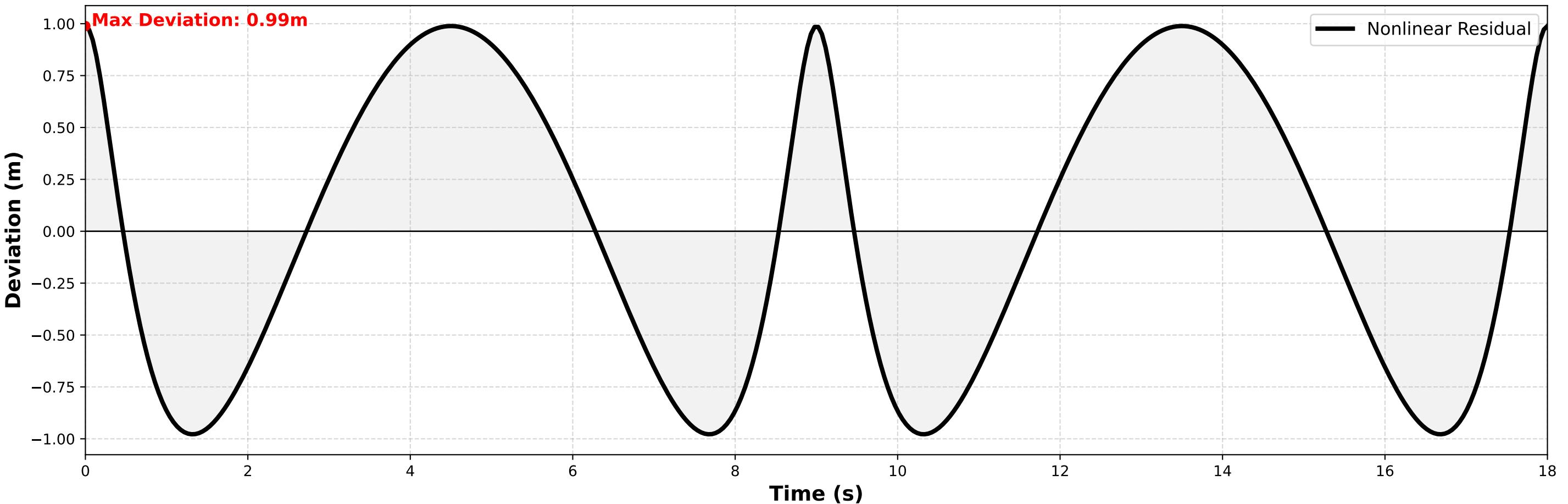
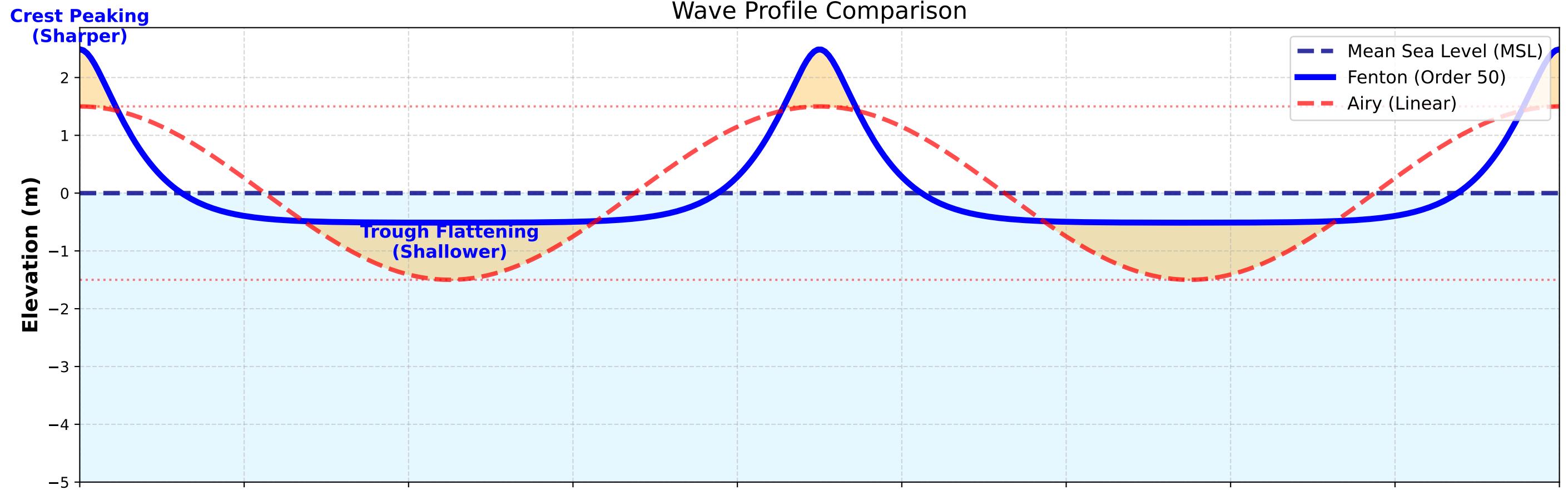
# 1. Wave Kinematics (Profile & Velocities)



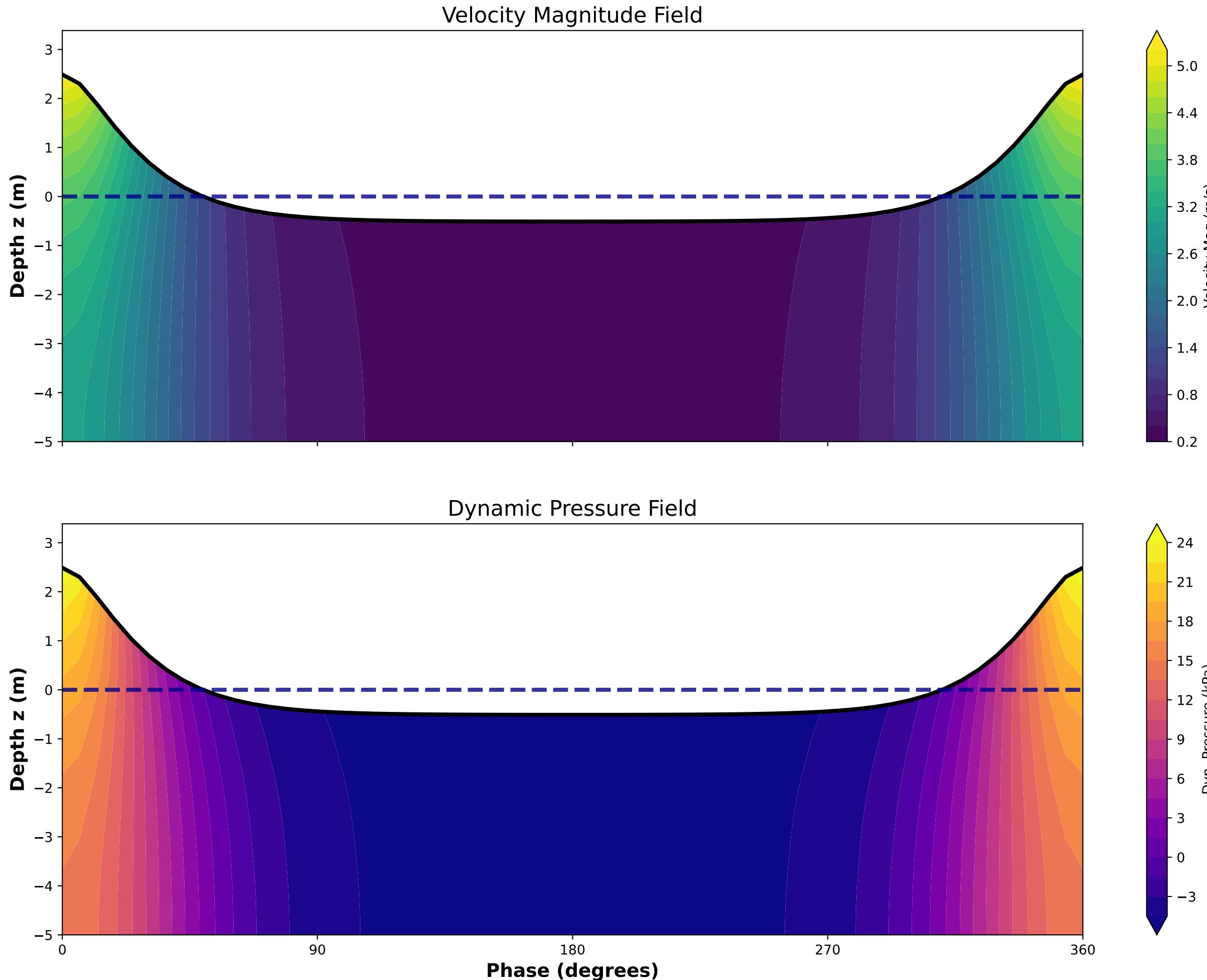
## 2. Wave Dynamics (Accelerations & Pressures)



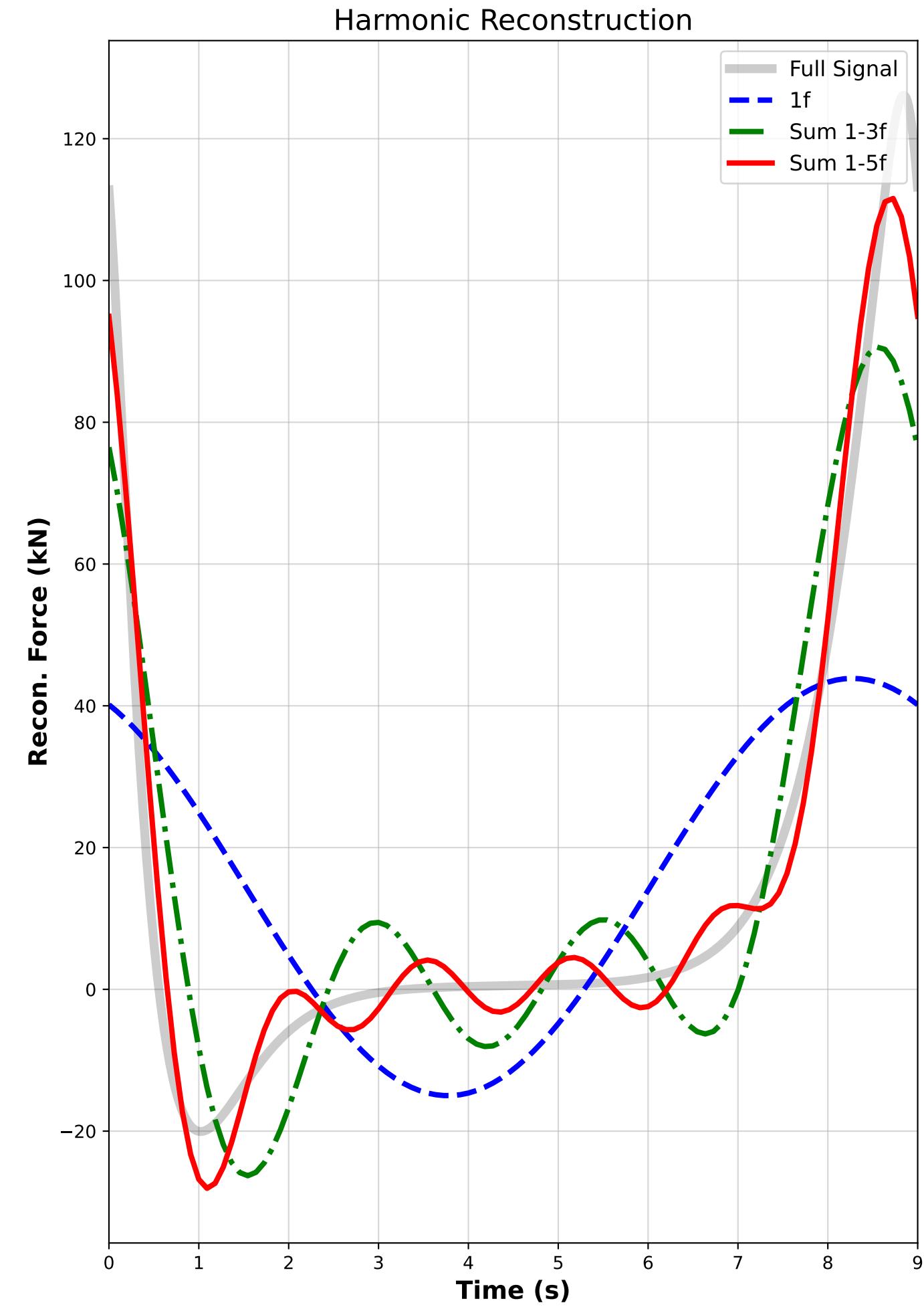
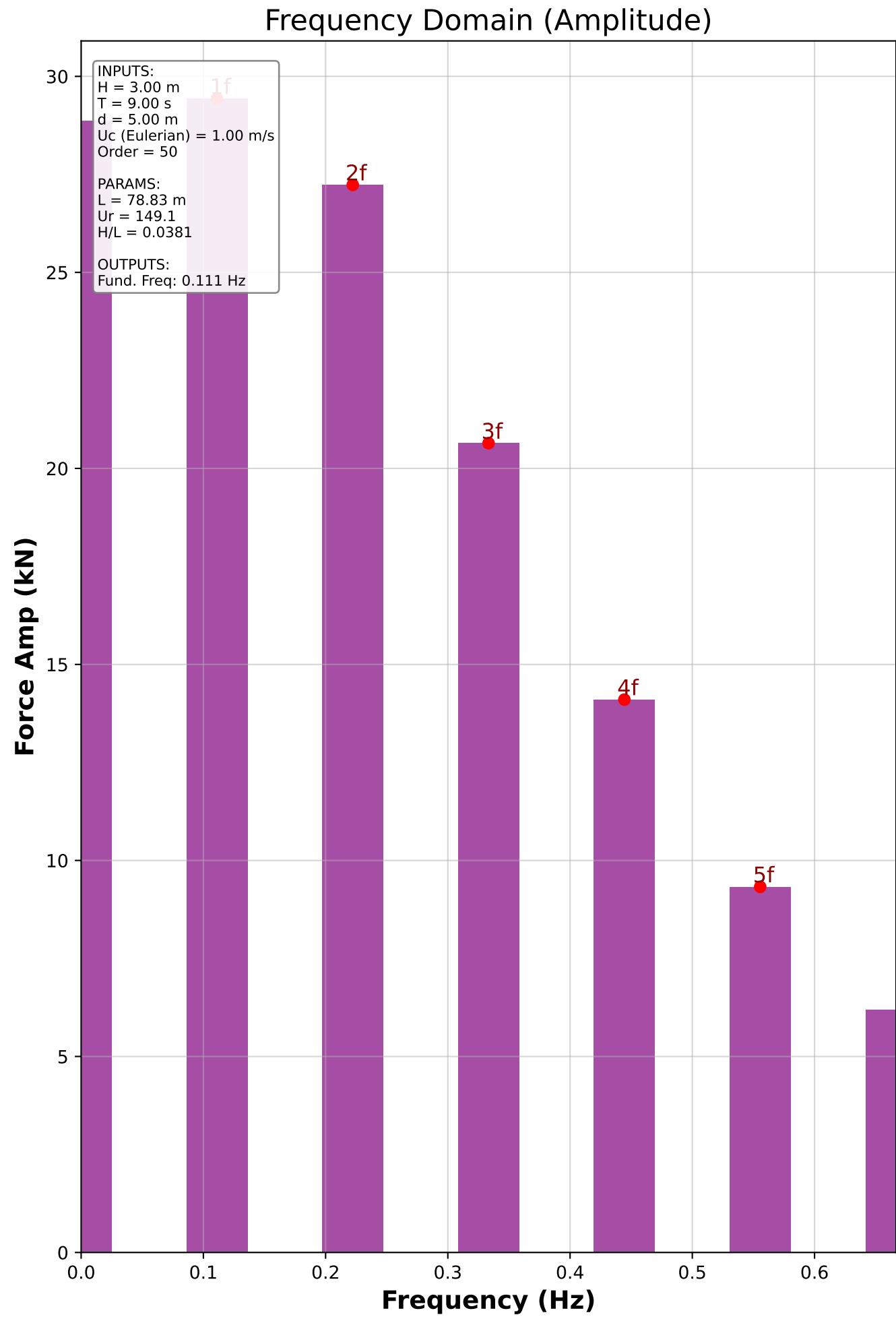
### 3. Solver Validation: Linear vs. Nonlinear Physics



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

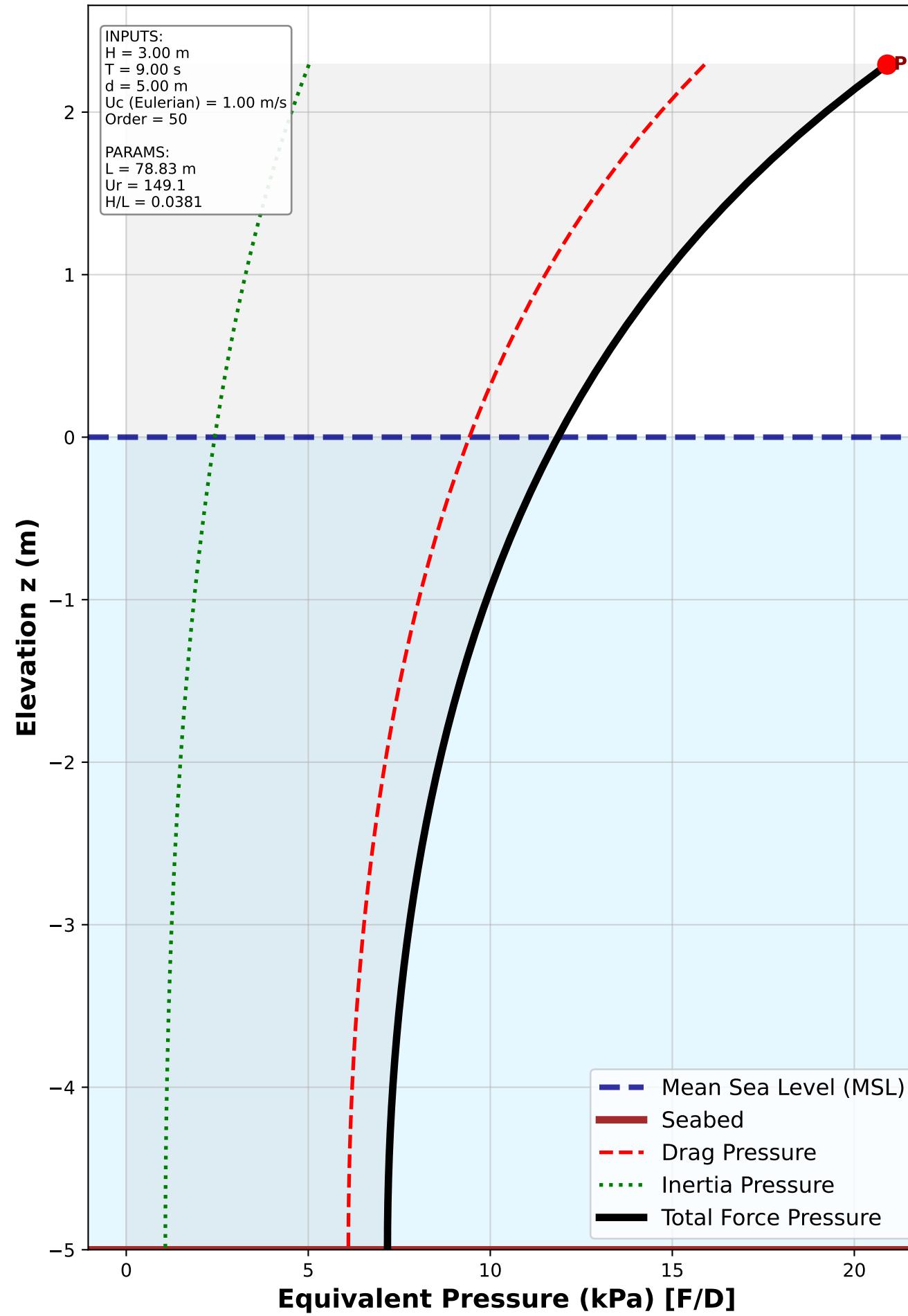


## 5. Force Spectrum & Harmonic Reconstruction

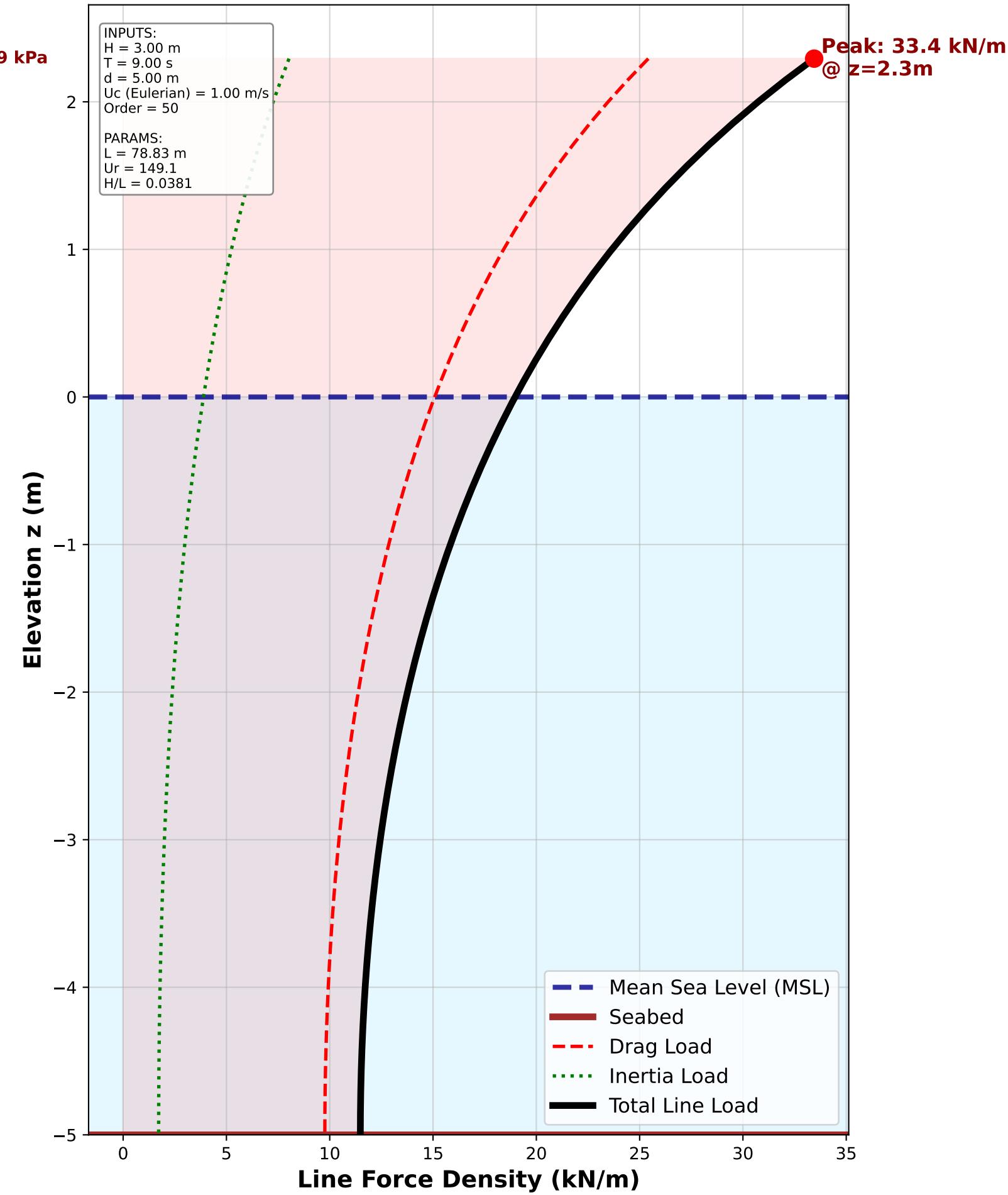


## 6. Vertical Force Profiles at Max Load Phase (353.8°)

Force as Pressure (kPa)



Force Distribution (kN/m)



## 7. Hydrodynamic Forces & Moments (Time Series)

