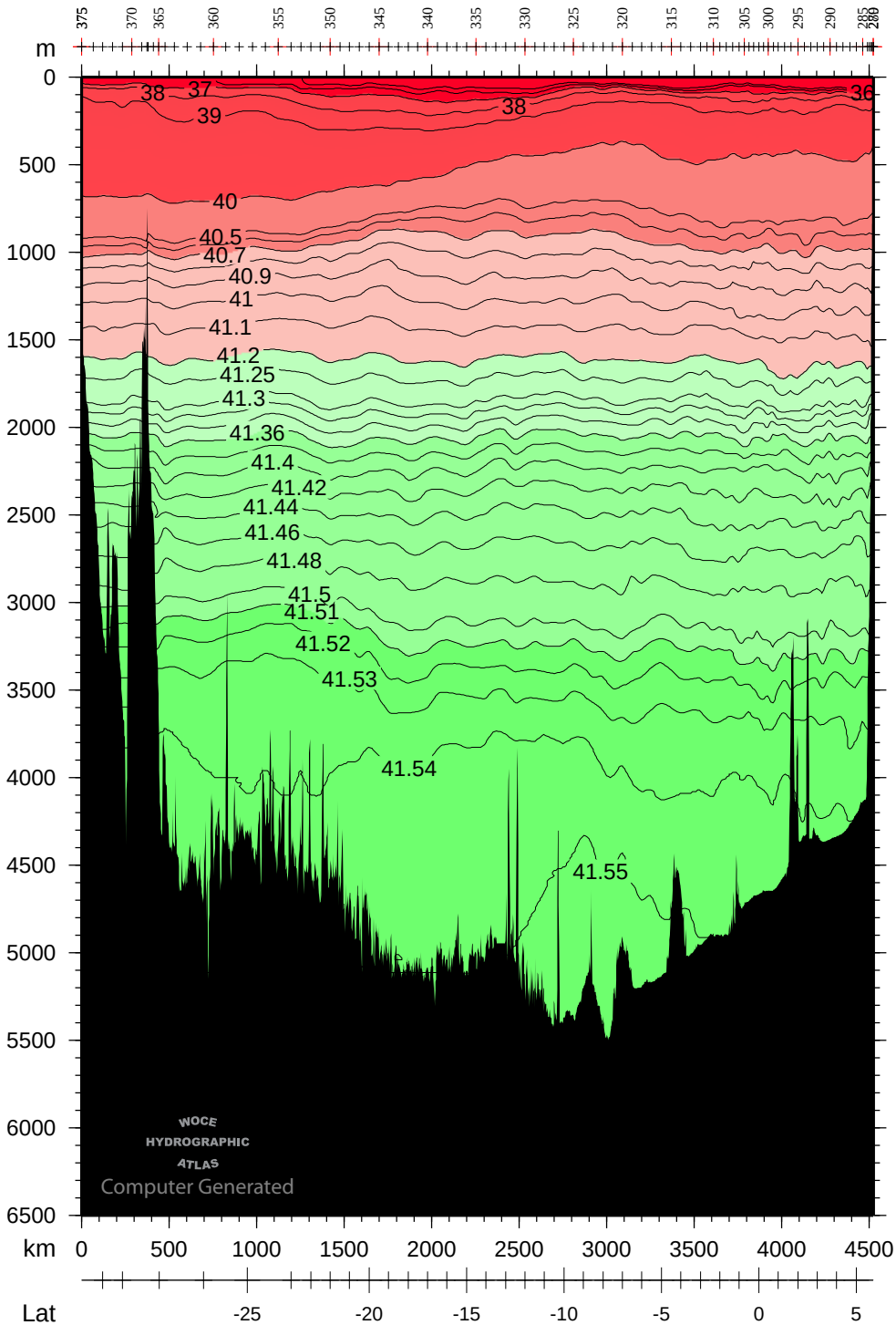σ_3 (kg/m^3) for I08N 80°E (1000:1)