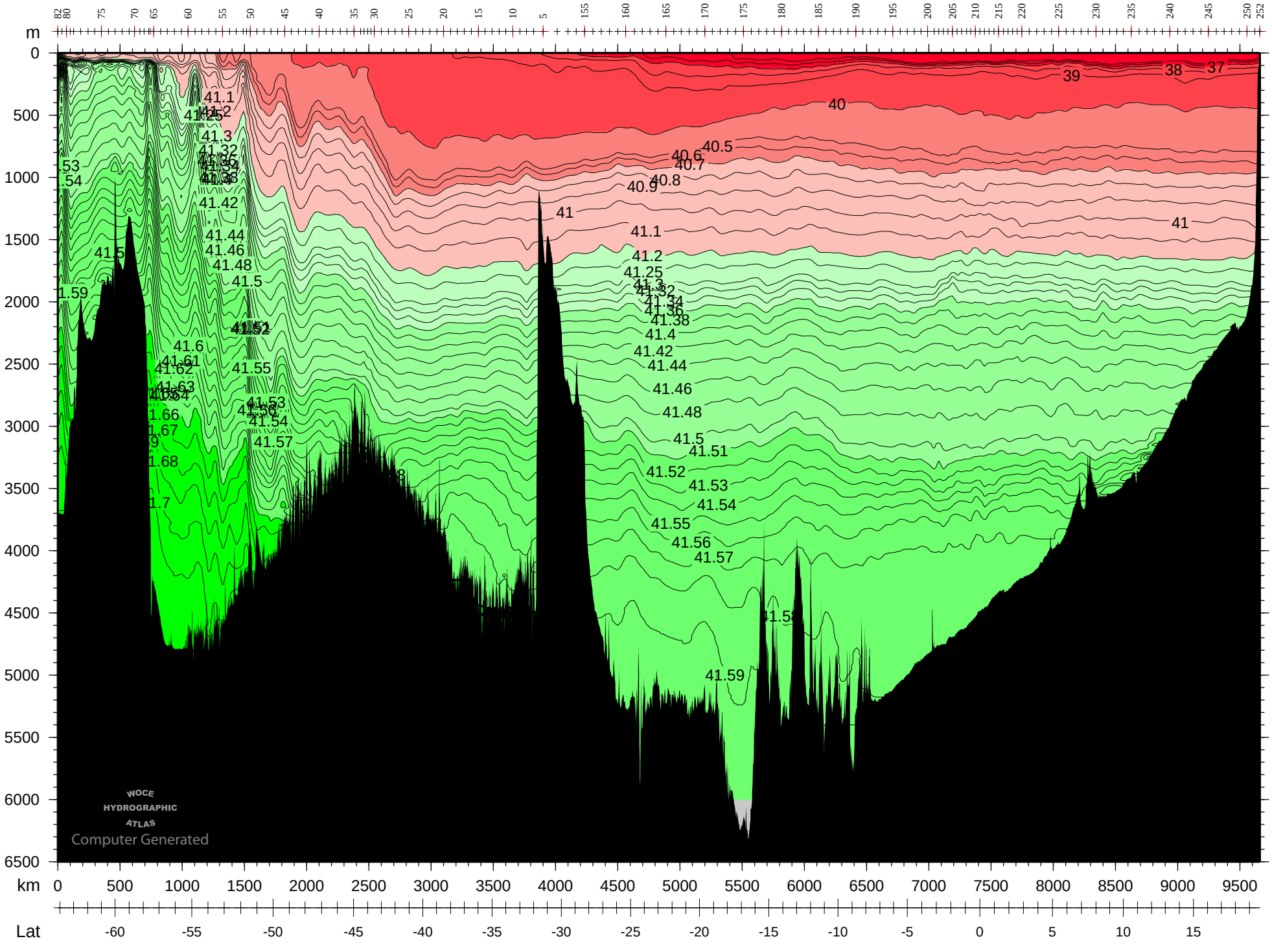σ_3 (kg/m^3) for I08I09 95˚E (1000:1)