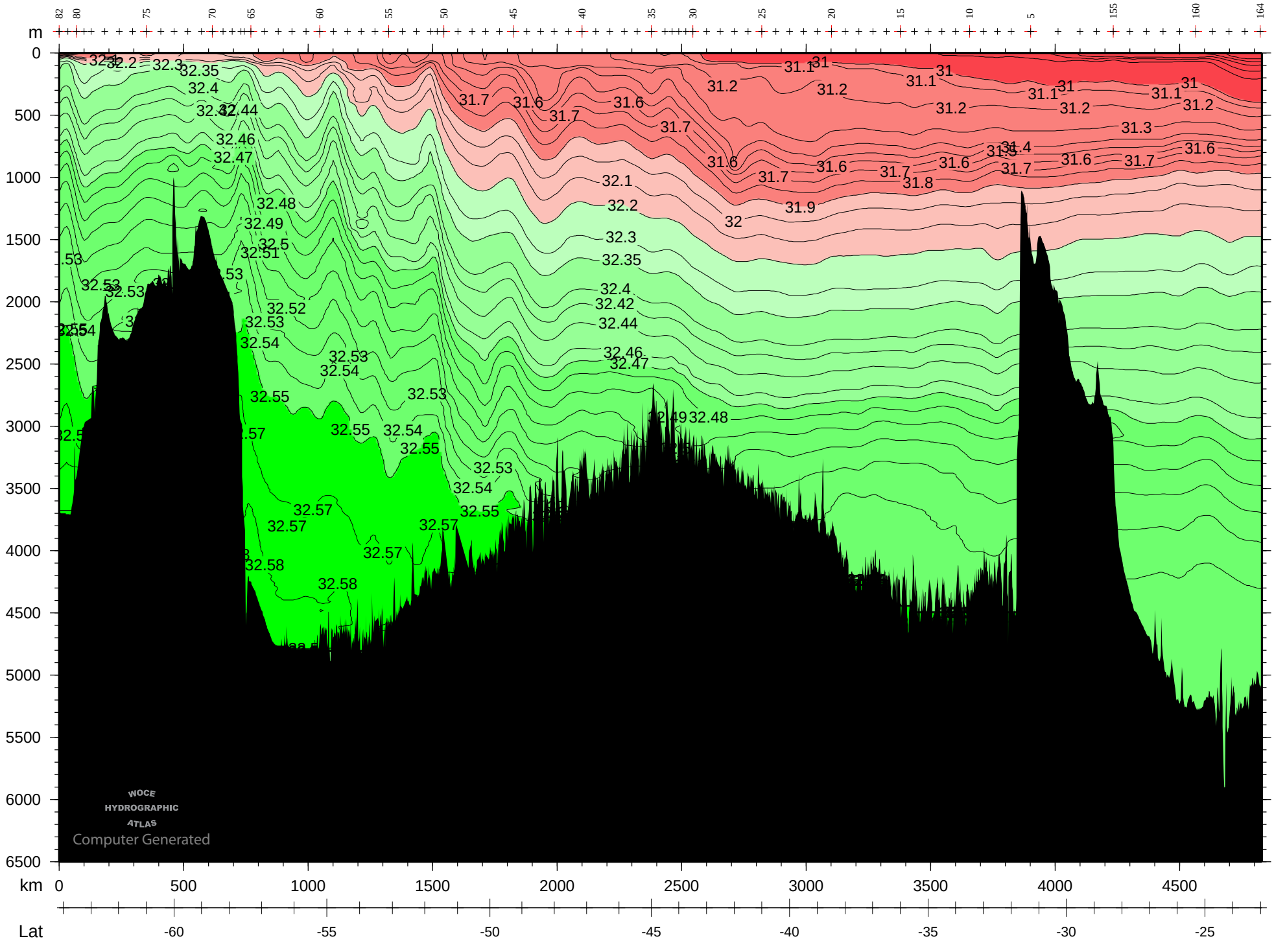σ_1 (kg/m^3) for I08I09 95°E (500:1) - SOUTH