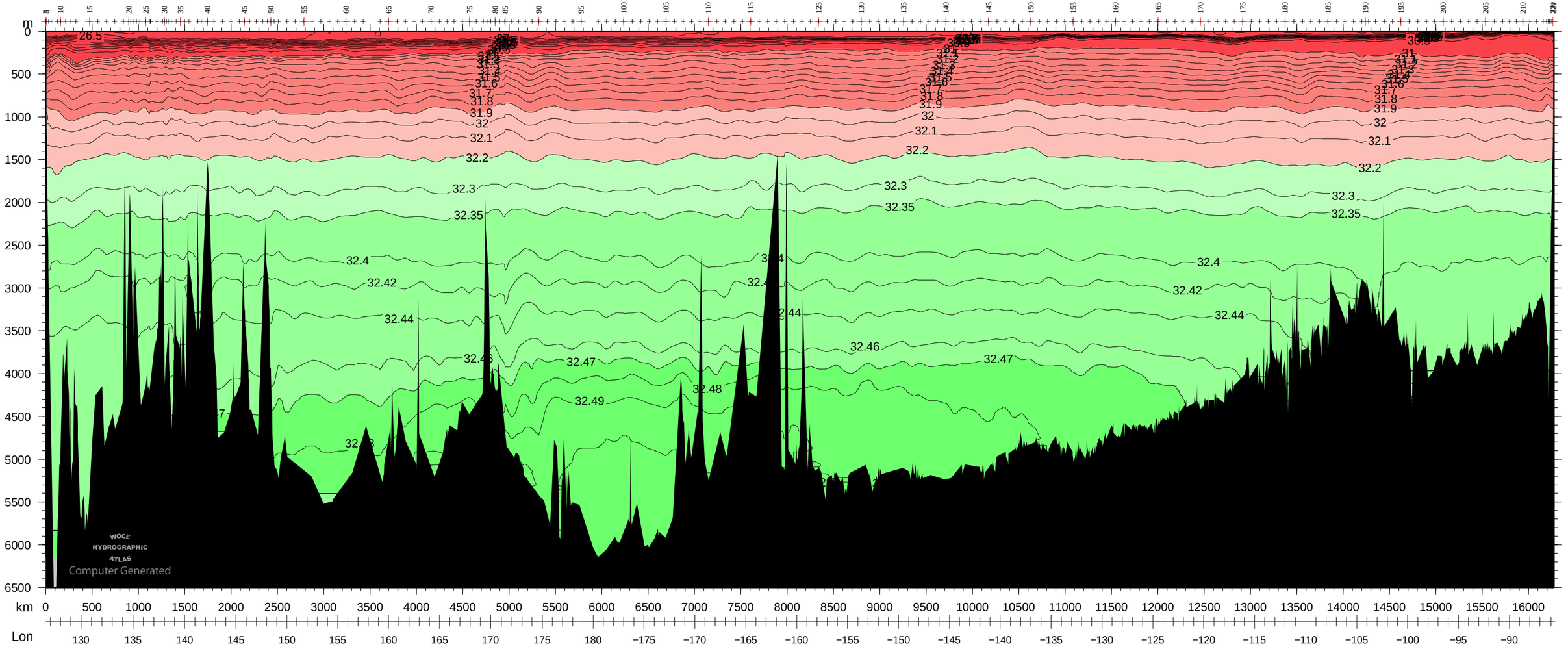σ_1 (kg/m^3) for P04 10°N (1000:1)