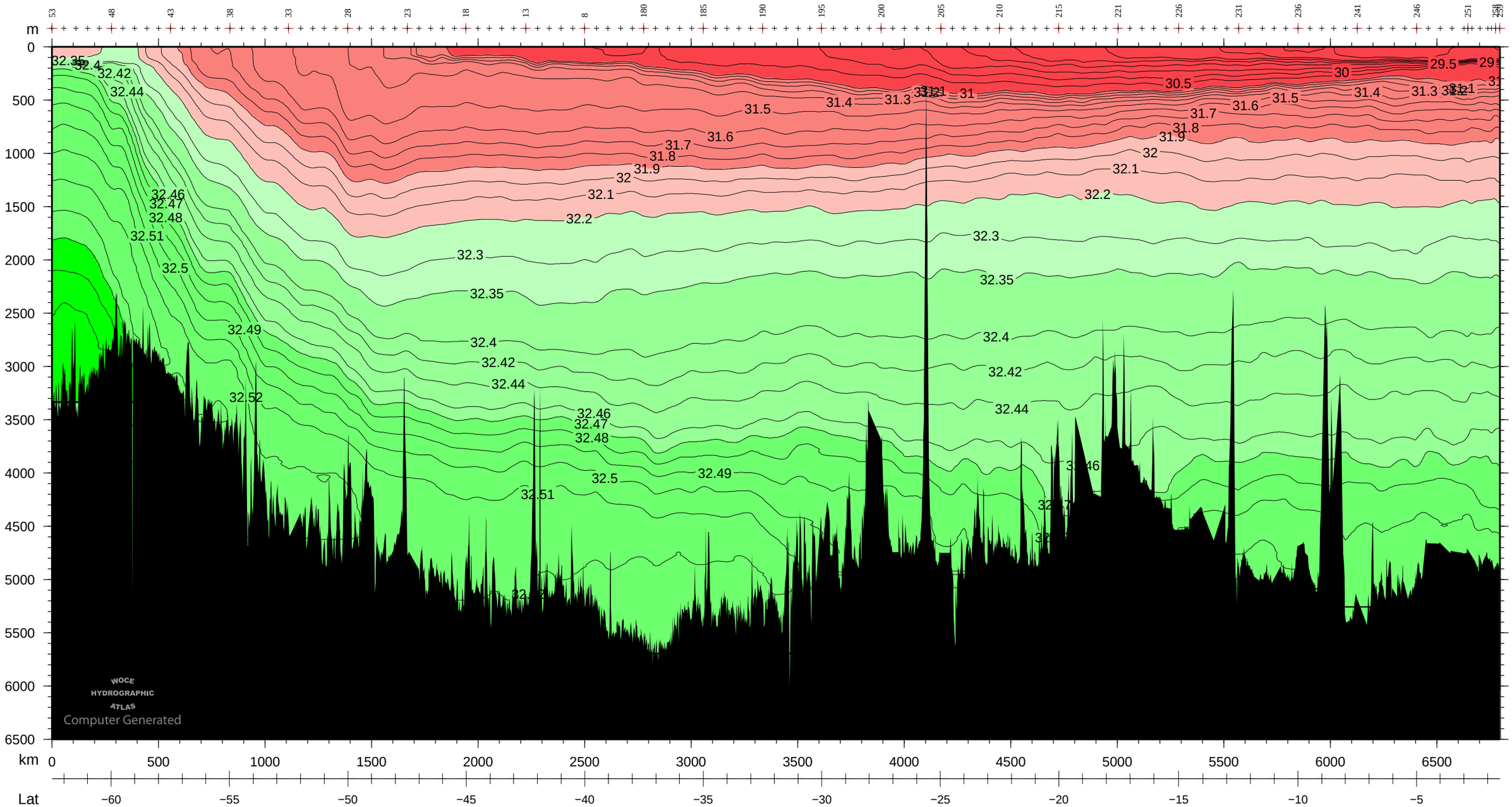σ_1 (kg/m^3) for P16 150°W (500:1) – SOUTH