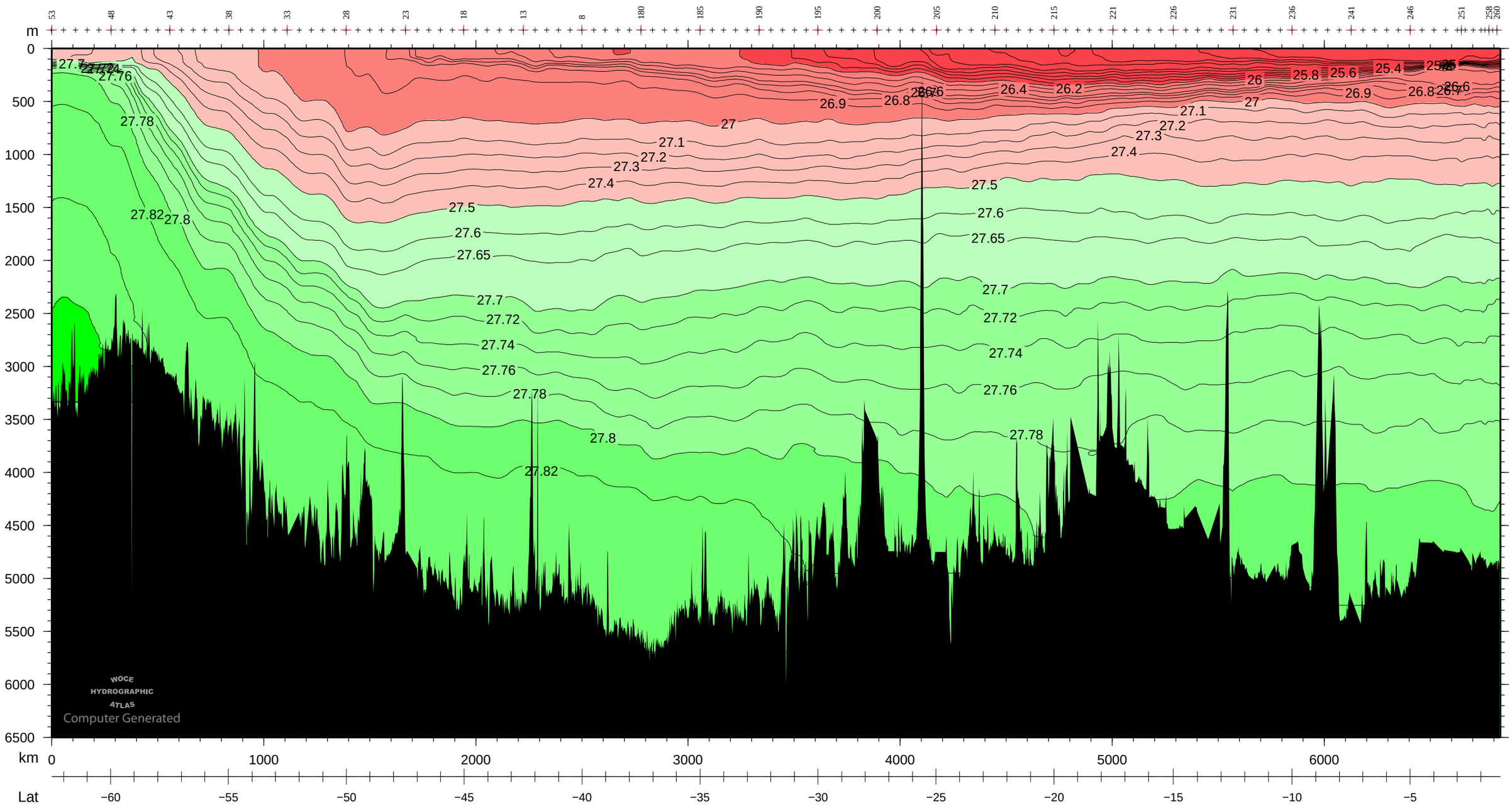σ_0 (kg/m^3) for P16_1984A Marathon (500:1) – SOUTH