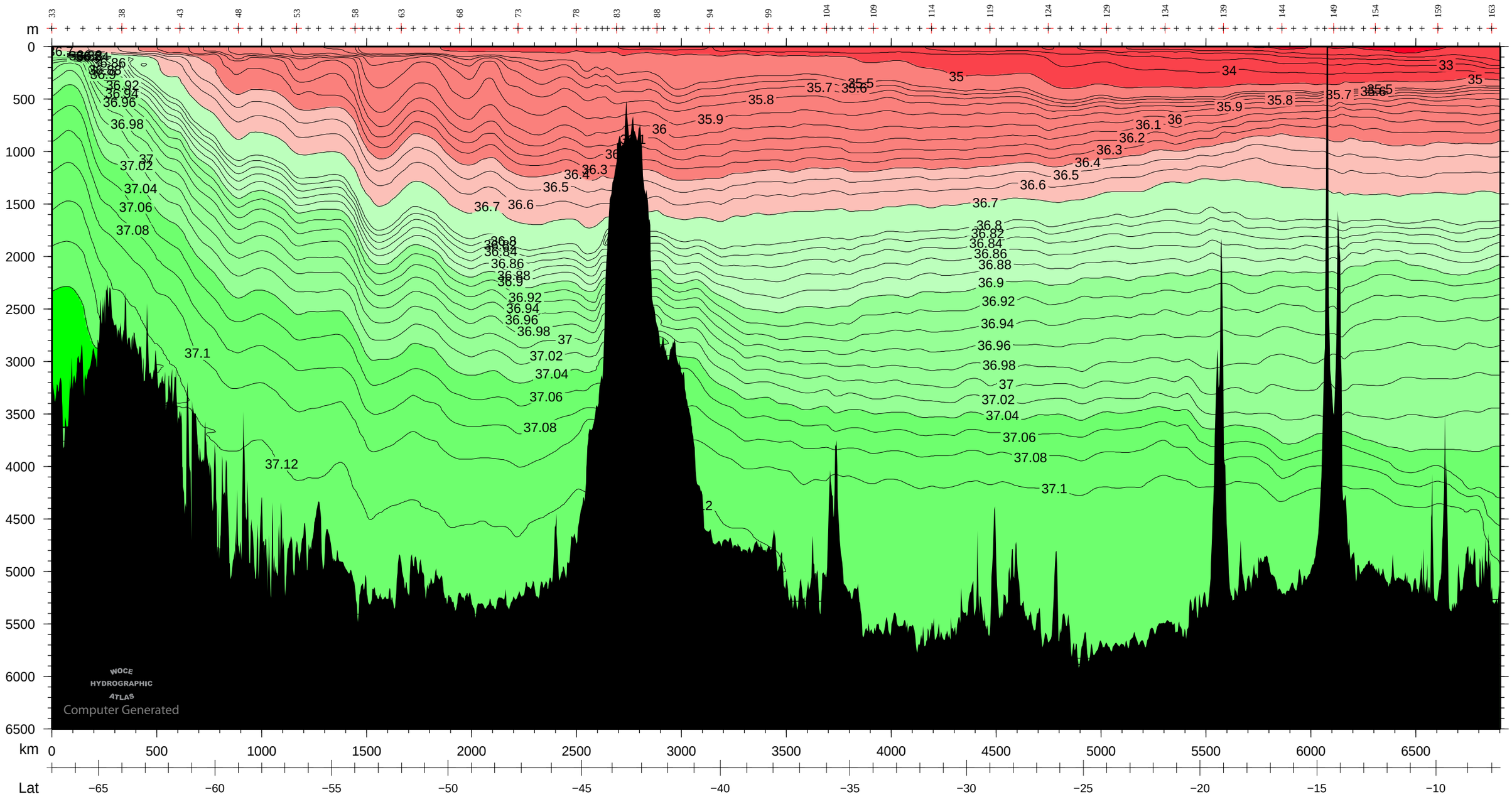σ_2 (kg/m^3) for P15 165°W (500:1) – SOUTH