



$$z_s = 25 \text{ m}$$

$$c_w = 1500 \text{ m/s}$$

$$\rho_w = 1000 \text{ kg/m}^3$$

$$D = 100 \text{ m}$$

$$c_b = 1600 \text{ m/s}$$

$$\rho_b = 1800 \text{ kg/m}^3$$

$$\alpha_b = 0.2 \text{ dB}/\lambda$$