

(A)

ESTIMATING EVAPORATION FROM HEIGHT CHANGE

$$\begin{aligned}
 & \left[\begin{array}{l} A_{\text{reservoir}} \approx 4 \times 10^{11} \text{ m}^2 \\ h_{\text{evaporation}} \approx 1 \text{ m} \end{array} \right. \\
 & \downarrow \\
 V_{\text{evaporation}} & \approx 4 \times 10^{11} \text{ m}^2 \times 1 \text{ m} \\
 & \approx 4 \times 10^{11} \text{ m}^3 \\
 & \approx 4 \times 10^{14} \text{ L}
 \end{aligned}$$

(B)

ESTIMATING EVAPORATION FROM L / ENERGY

$$\begin{aligned}
 & \left[\begin{array}{l} V_{\text{evaporation}}^{(\text{per J})} \approx f \times 10^{-5} \text{ L / J} \\ E_{\text{hydro}} \approx 10^{19} \text{ J} \end{array} \right. \\
 & \downarrow \\
 V_{\text{evaporation}} & \approx f \times 10^{-5} \text{ L / J} \times 10^{19} \text{ J} \\
 & \approx f \times 10^{14} \text{ L}
 \end{aligned}$$

(C)

