

(a) regolith-bedrock-weathering

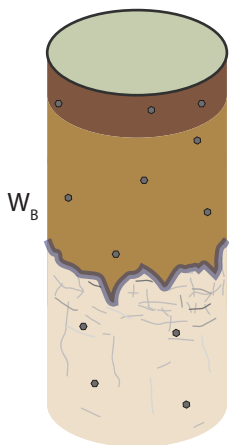
Measured:

$$N_{10} = 63814 \pm 4300 \text{ at/g}$$

$$W = 50 \pm 5 \text{ mm/ka}$$

Calculated:

$$D = 100 \pm 7 \text{ mm/ka}$$

conventional: $D = 61 \text{ mm/ka}$ **(b) regolith weathering - single nuclide**

Measured:

$$N_{36} = 215142 \pm 12100 \text{ at/g}$$

$$W = 50 \pm 5 \text{ mm/ka}$$

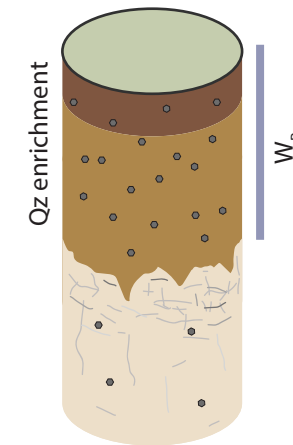
Calculated:

$$D = 100 \pm 19 \text{ mm/ka}$$

$$X_{R,Q} = 0.10 \pm 0.02$$

$$X_{R,X} = 0.50 \pm 0.14$$

$$X_{R,Ca} = 0.40 \pm 0.11$$

conventional: $D = 132 \text{ mm/ka}$ **(c) regolith weathering - paired nuclide**

Measured:

$$N_{10} = 63814 \pm 4300 \text{ at/g}$$

$$N_{36} = 215142 \pm 12100 \text{ at/g}$$

Calculated:

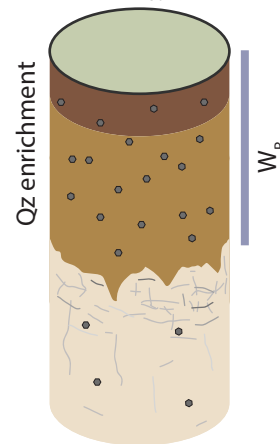
$$D = 100 \pm 6 \text{ mm/ka}$$

$$W = 50 \pm 5 \text{ mm/ka}$$

$$X_{R,Q} = 0.10 \pm 0.01$$

$$X_{R,X} = 0.50 \pm 0.05$$

$$X_{R,Ca} = 0.40 \pm 0.04$$

conventional: $D_{10} = 61 \text{ mm/ka}$ $D_{36} = 132 \text{ mm/ka}$ 

$$\text{In: } m_R = 200 \text{ g/cm}^2, X_{B,Q} = 0.05, X_{B,X} = 0.25, X_{B,Ca} = 0.7$$