



The diagram illustrates the mass balance of an ice sheet. At the top, a sun and clouds represent atmospheric conditions. Snowflakes indicate accumulation, while a red arrow labeled 'runoff' shows meltwater leaving the surface. A dashed line marks the 'ELA' (Equilibrium Line). Below the surface, blue arrows show 'Ice Flow' towards the 'grounding line' and 'Ice Discharge' into the ocean. The bottom of the diagram presents the formula for total mass balance (MB).

Surface Mass Balance

Ice Discharge

accumulation

ELA

ablation

runoff

Ice Flow

grounding line

$$\text{MB} = \text{Surface Mass Balance} + \text{Ice Discharge}$$