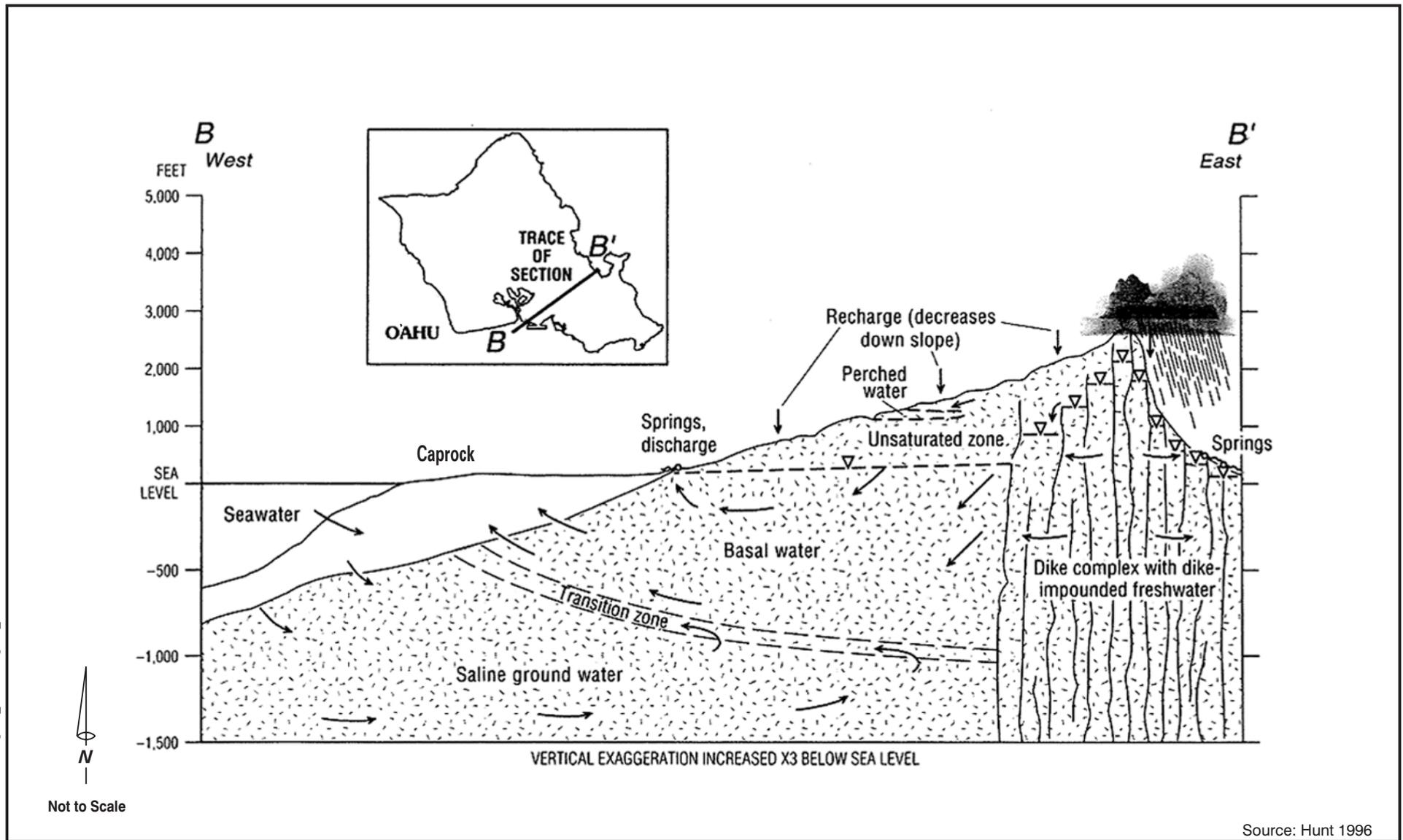


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A "basal lens" of fresh groundwater is present in the permeable rocks beneath the island. This fresh water lens overlies seawater, because the fresh water is less dense than seawater.

Generalized Cross-Section Showing Groundwater Recharge and Flow Patterns on O'ahu

- | | |
|---|--|
|  COASTAL-PLAIN DEPOSITS (CAPROCK)— Consists of saprolite and overlying coastal-plain sediments |  WATER TABLE |
|  KOOLAU BASALT |  GENERALIZED DIRECTION OF GROUND-WATER FLOW |

O'ahu, Hawai'i
Figure 3-10