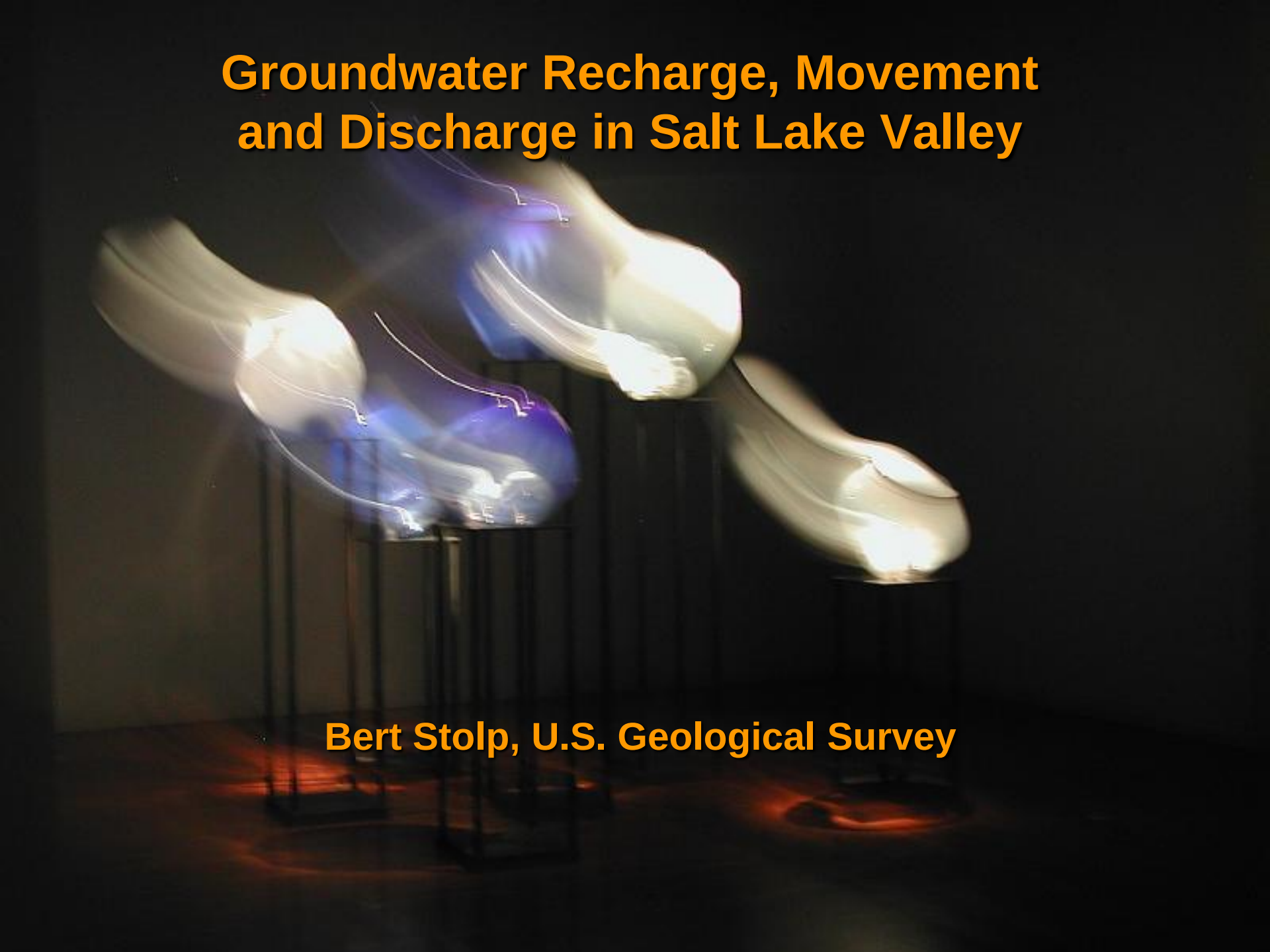
Groundwater Recharge, Movement and Discharge in Salt Lake Valley

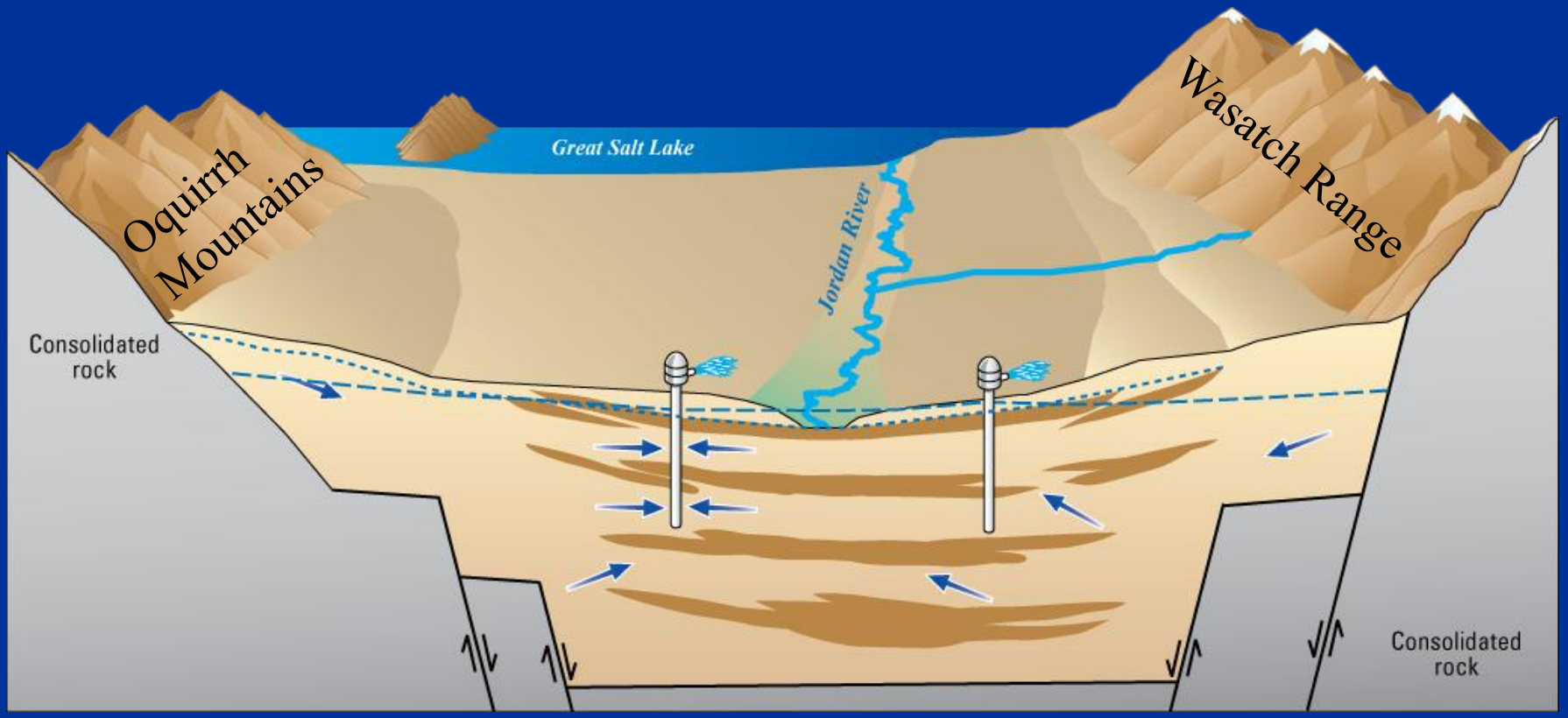


Bert Stolp, U.S. Geological Survey

Groundwater Recharge

From mountain precipitation	45%
From valley precipitation	25%
From streams and canals	15%
From irrigation	15%
Total	300,000 acre-feet/year

Groundwater Recharge and Movement

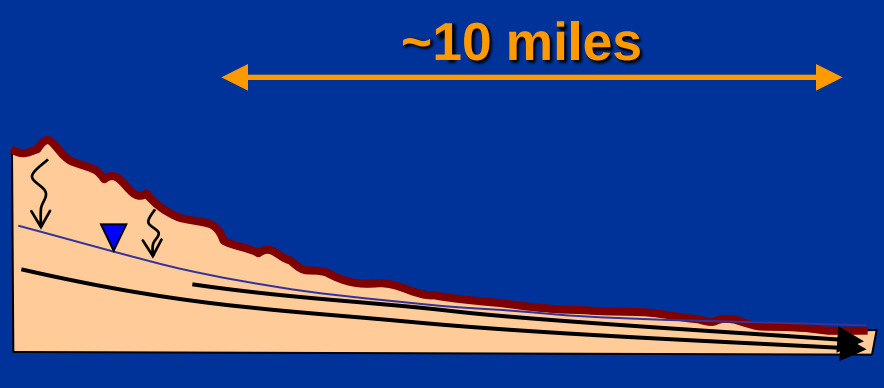


Groundwater Recharge and Movement

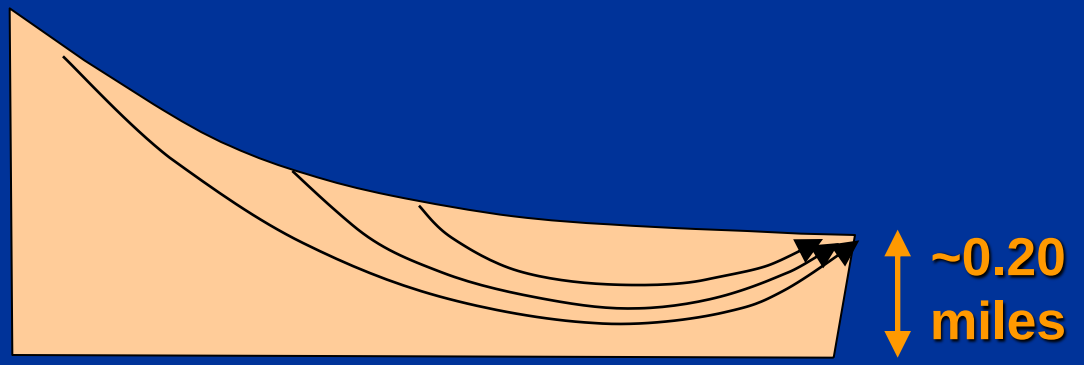
VERTICAL

Down and *INTO* the aquifer at the mountains

Up and *OUT* of the aquifer in the central and northern areas of the valley



No vertical exaggeration

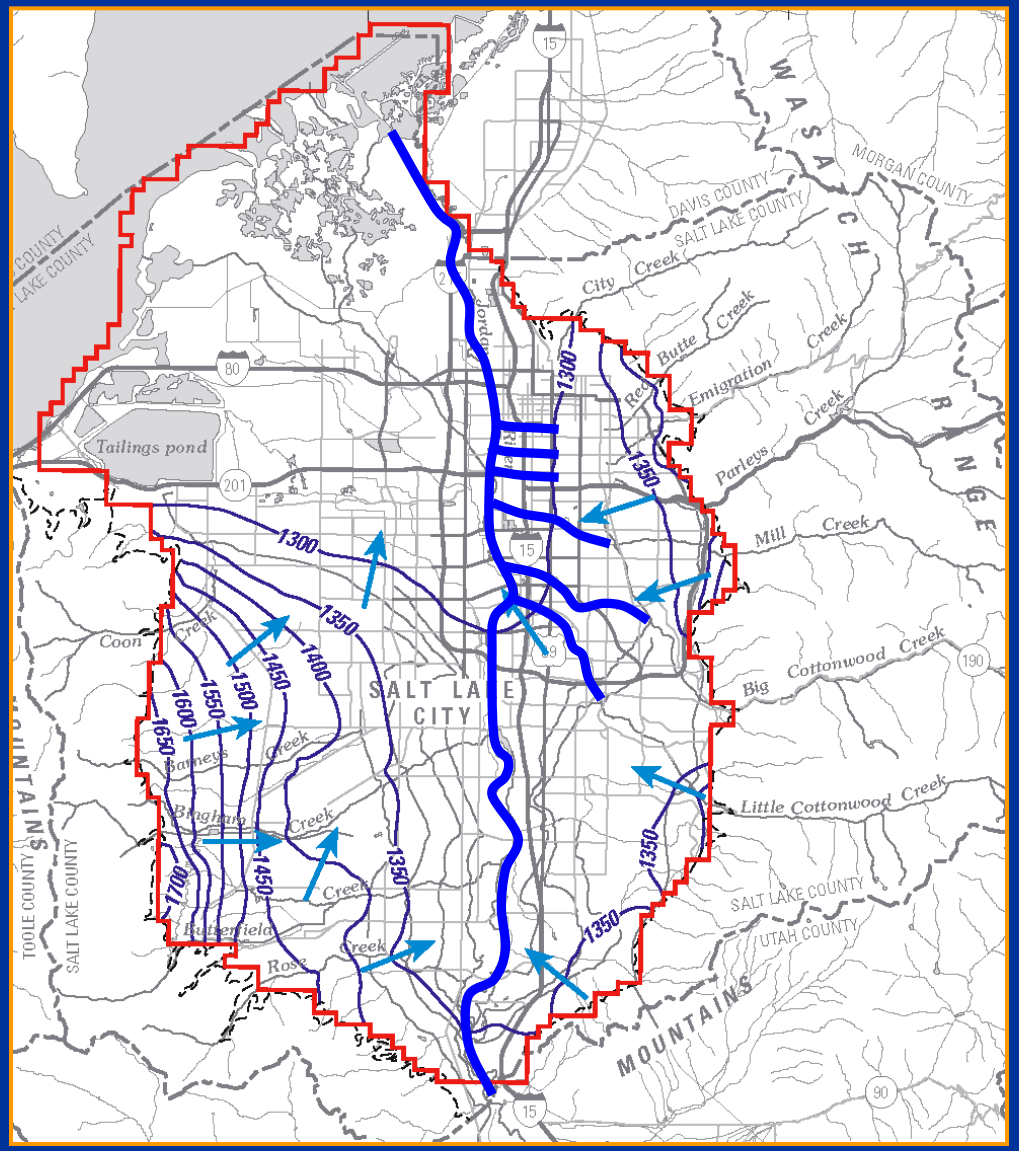


Detailed view of vertical flow

Groundwater Movement

HORIZONTAL

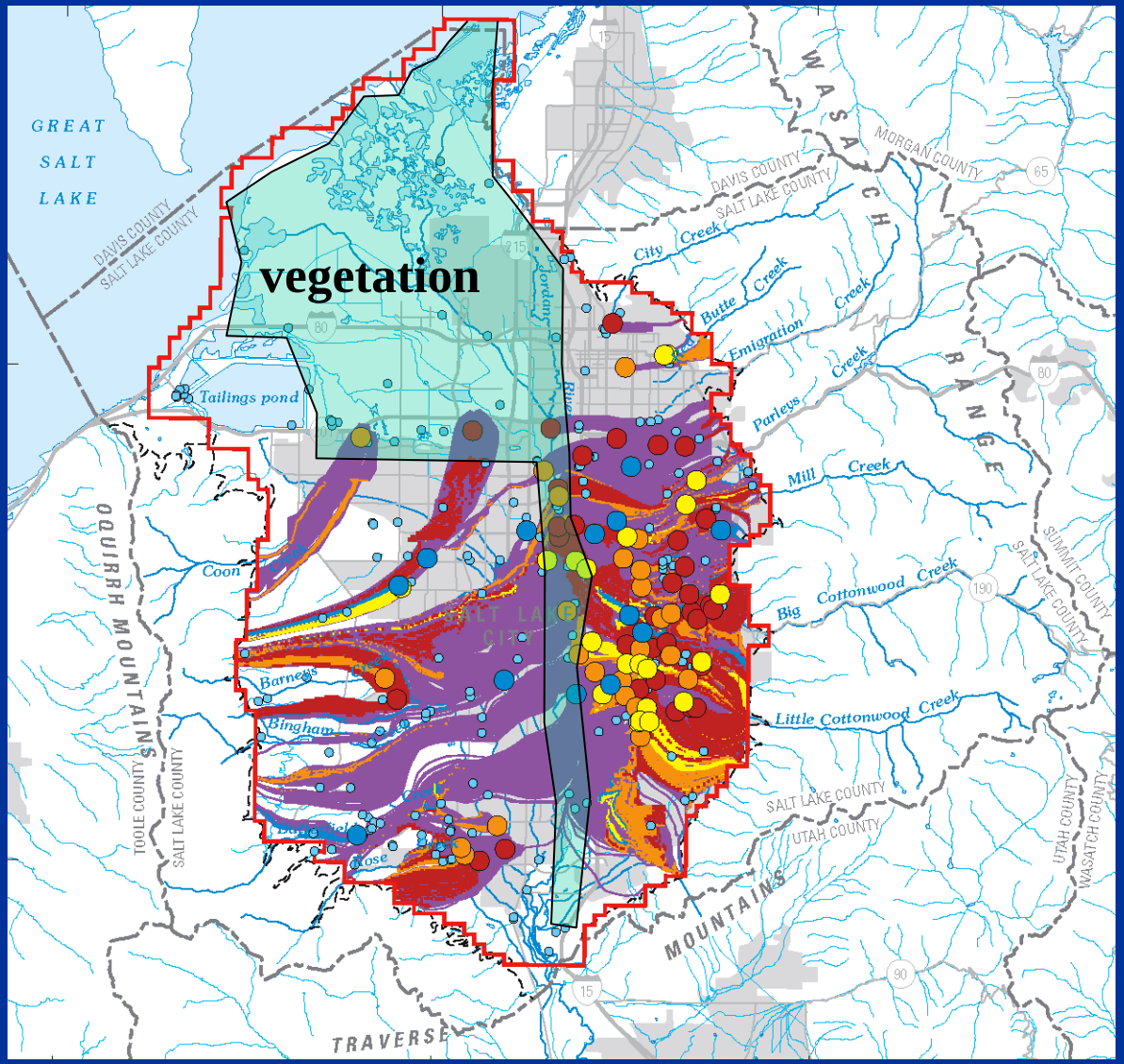
From mountains to streams and vegetation in the central and northern areas of the valley



Groundwater Discharge

To wells	50%
To Jordan River	30%
To vegetation	10%
To springs, drains, and canals	10%
Total	300,000 acre-feet/year

Groundwater Discharge



Questions