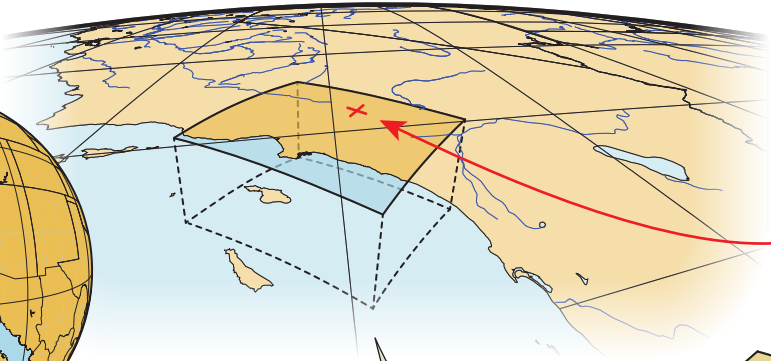
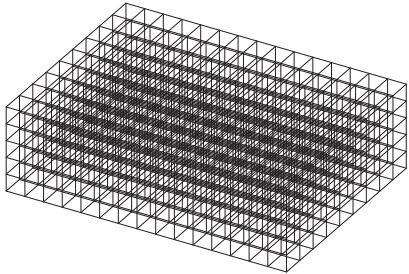
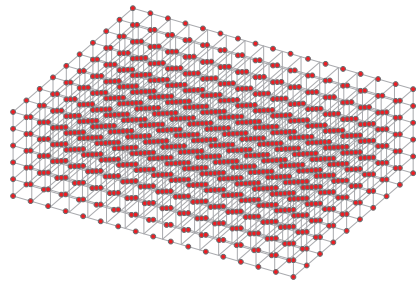
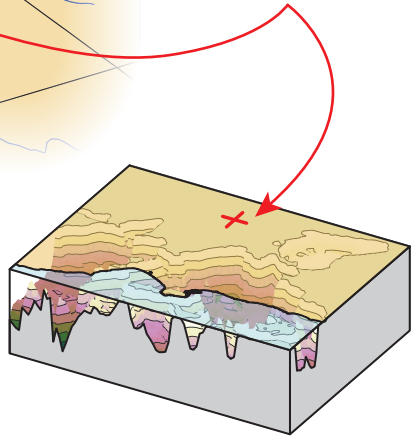


UCVM users can define a modeling region of interest based on a rectangular projection on the Earth's surface.



UCVM can also query velocity models at any given point. A datapoint in UCVM consists of a point in longitude, latitude, and depth for which a velocity model provides values for the  $V_s$ ,  $V_p$ , and density.

UCVM captures data from velocity models in a geo-coordinate system into an orthogonal coordinate system.



UCVM materializes velocity models into discrete structured grids of datapoints and structured or unstructured meshes of data cells