



Figure Caption: Seismic tomography of the mantle beneath South America (above), and Japan & the western Pacific (below). The colors correspond to spatial variations in seismic velocity. Positive seismic anomalies (blue-purple-white) indicate regions where seismic waves travel faster than expected, which could be interpreted to be higher density or colder temperature rocks. Negative seismic anomalies (yellow-red) indicate regions where seismic waves travel slower than expected, which could be interpreted to be lower density or warmer temperature rocks.



