Tomogram Type

- ☐ Vp
- ☐ Vs
- ☐ Vp and Vs

Cross Section

- ☐ A-A'
- ☐ B-B'
- ☐ C-C'
- ☐ D-D' (Vs Only)
- ☐ E-E' (Vs Only)

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Figure 9. [Interactive](#). Cross sections through the S-wave tomogram, with four traversing the South Island perpendicular to the surface expression of the Alpine fault (A–A' through D–D') and one parallel (E–E'). Radio buttons allow you to interactively select the tomogram type and the cross section. The map shows the location of each cross section. Black circles in A–A' mark earthquake hypocenters in New Zealand since 2009 with $m_b > 4$ and between 40°S and 42°S. Cross sections D–D' and E–E' highlight the high-speed structure beneath the Southern Alps. We did not invert for structure shallower than 60 km. The P-wave tomogram of Zietlow et al. (2016) is shown for comparison. To interact with Figure 9 for the PDF version of this paper, open the PDF in Adobe Acrobat or Adobe Reader. To interact with the figure while reading the full-text version of this paper, click <http://doi.org/10.1130/GES01591.i4> to download a PDF of Figure 9.