Information about data files used in Figure 10 of Holmes et al., 2008

The data and script files are all readable text files and can be broken out as follows:

line1356.shot:
A concatenated shot file containing shot locations and times for all on-axis lines (1, 3, 5, and 6). Line numbers correspond with what's in the paper.

project_onto_seir_line.csh:
This script was used before plotting any data. It relies on GMT commands to fit a great circle path through the on-axis shot lines, which was then treated as the reference line for projecting the model results onto a 2D plane by...

make_crust_vs_lon_plot.csh:
The figure-generating c-shell script used to create the final figure. I included comments in the script and remember trying to use variables with somewhat logical names if you ever have the need to look it over.

lineX_covref.ave:
Output for the "reflector" (i.e. the Moho) beneath line X based on the tomography and my Monte Carlo routine for error estimation (see Appendix A3 in the paper for more details)
format: along-line x-location, mean depth below seafloor, standard deviation, left confidence interval/error bar (depth-2*std), right confidence interval (depth+2*std)

lineX_layers.txt:
Data from the final model for line X.
format: along-line x-location, seafloor depth, Layer 2, Layer 3, *Depth to Moho below sea-level (km, calculated from seafloor depth + layer 2 thickness + layer 3 thickness)*,
crustal thickness as Moho - seafloor depth at that x-location, pseudo-crustal thickness as Moho - average seafloor depth, velocity at the Layer 2/3 boundary, longitude, and latitude]

lineX_layers_projected.txt:
Output of the great circle projection script where the final model has been projected onto the great circle path fitting the on-axis shot lines.
[longitude, latitude, along-line x-location, Layer 2, Layer 3, crustal thickness as Moho - seafloor depth at that x-location, great circle projection x-location]