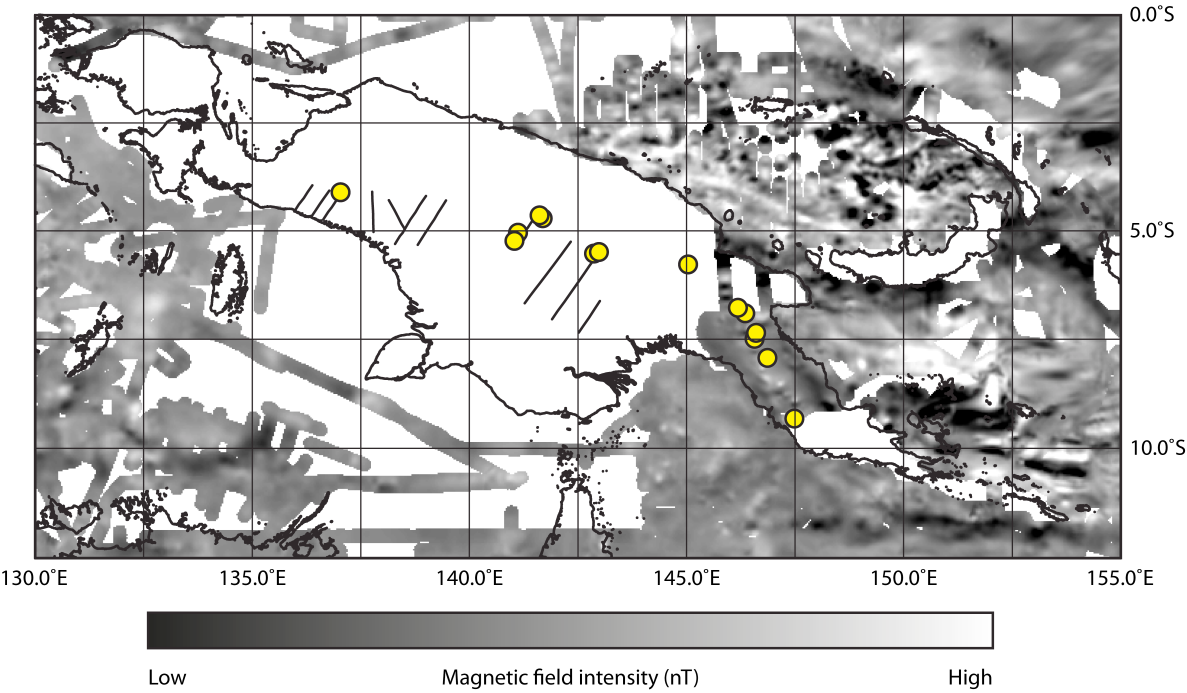


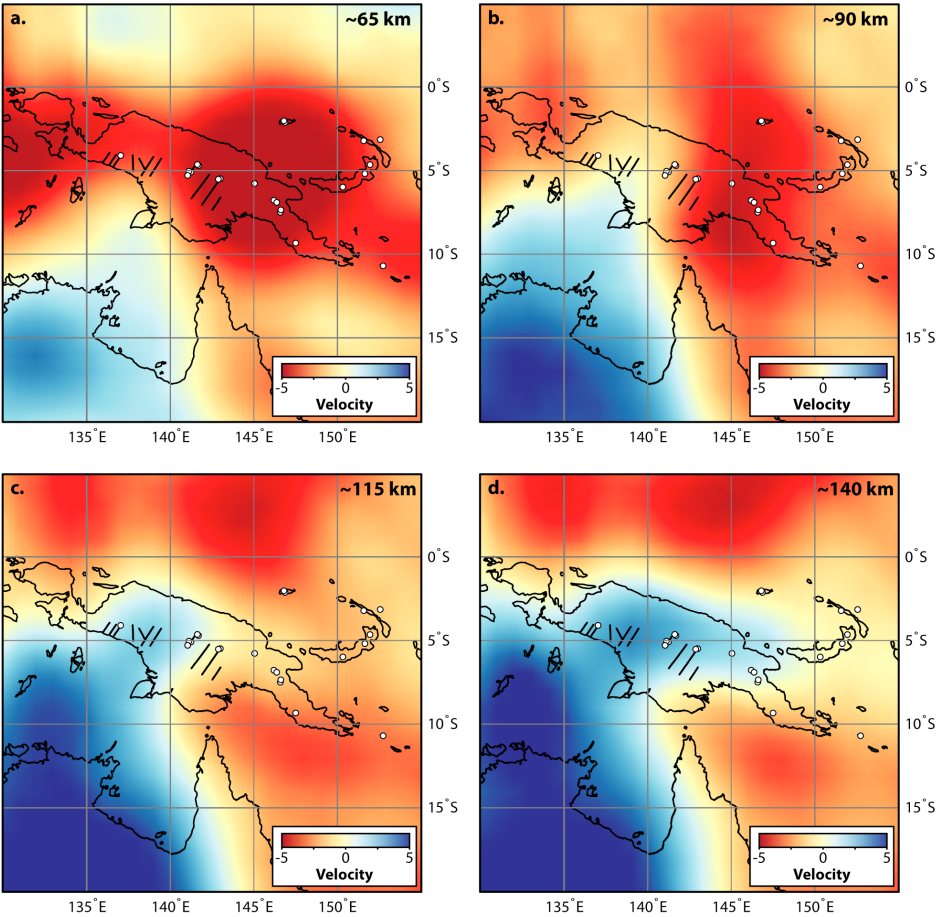
Supplementary Data

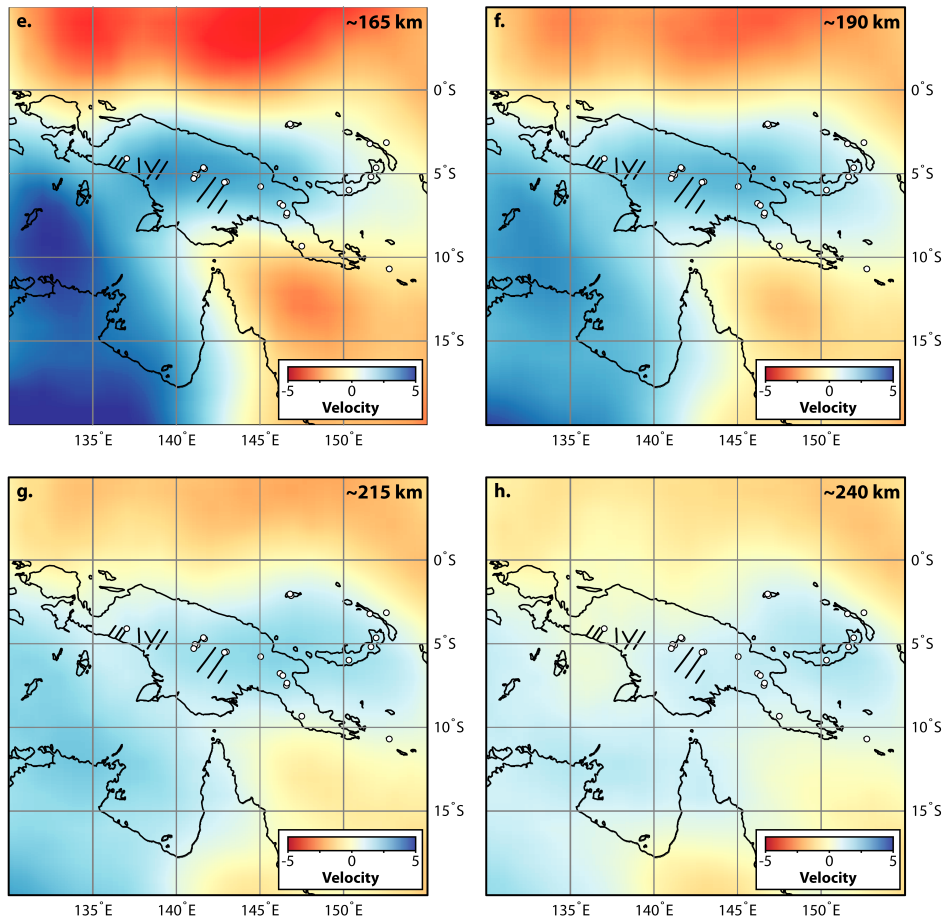
Supplementary File 1



Supplementary File 1: Supplementary File 1: EMAG2 Magnetic Map of N. Australia and New Guinea (Maus et al. 2009)

Supplementary File 2





Supplementary Data 2. S-Wave tomography depth slices after the global S-Wave tomography dataset of Debayle et al. (2005). Various slices are shown at (a) ~65 km, (b) ~90 km, (c) ~115 km, (d) ~140 km, (e) ~165 km, (f) ~190 km, (g) ~215 and (h) ~240 km.