Grevemeyer et al.; GEOSPHERE - Supplementary Table 2:

Area lon lat thickness velocity approach Reference

EPR 9°N -104.0 9.0 6.6 ± 0.6 7.07 ± 0.04 T Canales et al., 2003

EPR 4°S -103.0 -3.5 6.4 ± 0.3 7.19 ± 0.05 T Roland et al., 2012

EPR 5°S -105.0 -6.0 6.2 ± 0.3 7.17 ± 0.05 T Roland et al., 2012

EPR 14°S -106.2 -15.7 6.2 ± 0.5 7.02 ± 0.05 F Grevemeyer et al., 1998

EPR 16°S -112.0 -17.3 5.8 ± 0.5 7.1 ± 0.06 F Canales et al., 1998

Chile 46°S -77.5 -43.1 5.3 ± 0.3 7.02 ± 0.03 T Contreras-Reyes et al., 2007

Chile 38°S -76.5 -37.6 7.3 ± 0.4 7.16 ± 0.03 T Contreras-Reyes et al., 2008

Chile 34°S -74.0 -34.3 5.7 ± 0.3 6.96 ± 0.03 T Moscoso et al., 2011

Nicaragua -86.7 9.0 5.1 ± 0.3 6.95 ± 0.03 T Ivandic et al., 2008

WPacific 150.0 26.7 6.9 ± 0.5 7.03 ± 0.04 T Oikawa et al., 2010

WPacific 150.0 27.7 7.0 ± 0.5 7.07 ± 0.04 T Oikawa et al., 2010

MAR 4.5°S -12.2 -4.8 9.2 ± 0.7 7.22 ± 0.04 T Planert et al., 2009

MAR 4.5° S -12.2 -4.7 7.1 ± 0.6 7.16 ± 0.04 T Planert et al., 2009

MAR 4.5° S -122 -4.6 6.6 ± 0.6 7.03 ± 0.04 T Planert et al., 2009

MAR 4.5° S -12.2 -5.0 4.3 ± 0.5 6.71 ± 0.04 T Planert et al., 2009

MAR 5°S -11.6 -5.0 8.0 ± 0.6 7.15 ± 0.04 T Planert et al., 2010

MAR 5°S -11.6 -5.2 5.5 ± 0.6 6.96 ± 0.04 T Planert et al., 2010

EAtlantic -23.0 24.5 7.3 ± 0.5 7.18 ± 0.07 F Henstock et al., 1996

EAtlantic -24.2 14.5 7.5 ± 0.3 7.1 ± 0.05 T Wilson et al., 2013

WAtlantic -66.0 32.0 7.0 ± 0.4 7.0 ± 0.06 S Purdy, 1983

Kolbeinsey -15.0 70.0 8.8 ± 0.8 7.15 ± 0.06 F Kodeira et al., 1997

SEIR 100°E 100.5 -47.5 6.0 ± 0.5 6.99 ± 0.03 T Holmes et al., 2008

SEIR 101°E 101.5 -47.8 5.9 ± 0.4 6.98 ± 0.03 T Holmes et al., 2008

AAD 134°E 134.0 -50.0 6.8 ± 0.3 7.16 ± 0.03 T Holmes et al., 2010

AAD 127°E 127.0 -48.2 3.5 ± 0.3 6.90 ± 0.03 T Holmes et al., 2010

Wharton 17°S 90.4 -17.0 6.4 ± 0.3 7.1 ± 0.03 T Grevemeyer et al., 2001

Wharton 3°N 94.0 3.0 4.5 ± 0.5 6.9 ± 0.06 T Singh et al., 2011

SWIR 50.5°E 50.5 -37.6 9.0 ± 0.5 7.2 ±0.03 T Li et al., 2015

SWIR 57°E 57.0 -32.7 3.8 ± 0.9 6.82 ± 0.08 F Muller et al., 1999

SWIR 66°E 66.0 -27.7 5.3 ± 0.7 6.9 ± 0.08 F Minshull et al., 2006

(thickness in km, velocity in km/s)

(EPR: East Oacific Rise; MAR – Mid-Atlantic Ridge; SWIR – Southwest Indian Ridge; SEIR – Southeast Indian Ridge; AAD – Australian-Antarctic-Discordance; Kolbeinsey: Kolbeisey Ridge / North Atlantic; Wharton: Wharton Basin / Indian Ocean)

(F: forward modelling, T: tomography, S: synthetic seismogram modelling)

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