Subduction Zones (Part 1) 1.0 1.0 Glass-only Glass-only 55.0 55.0 Raman-calibrated Raman-calibrated Raman-uncalibrated Raman-uncalibrated 52.5 52.5 8.0 8.0 **Central America** Mexico 50.0 - 50.0 0.6 0.6 30 0.24 30 0.24 SiO₂ (wt%) - 45.0 SiO₂ - 45.0 $\mathsf{X}_{\mathsf{H}_2\mathsf{O}}$ X_{H_2O} 0.4 0.4 42.5 - 42.5 0.2 0.2 40.0 40.0 - 37.5 37.5 0.0 0.0 100 200 300 400 500 200 400 600 0 Saturation pressure (MPa) Saturation pressure (MPa) 1.0 1.0 Glass-only Glass-only 55.0 55.0 Raman-calibrated Raman-calibrated Raman-uncalibrated Raman-uncalibrated Δ 52.5 52.5 8.0 8.0 Chile **Ecuador** 50.0 50.0 0.6 0.6 SiO₂ (wt%) SiO₂ (wt%) - 45.0 - 45.0 $\mathsf{X}_{\mathsf{H}_2\mathsf{O}}$ 0.4 0.4 42.5 - 42.5 0.2 0.2 - 40.0 40.0 - 37.5 37.5 0.0 0.0 76 100 200 300 78 82 86 80

0

Saturation pressure (MPa)

84

Saturation pressure (MPa)