Figure S5: Tectono-magmatic fingerprinting by zircon trace elements 100 (A. Rock type/site magnatic are Arcon array Continental arc Post-collisional Mid-ocean ridge compilation 10 Mid-Atlantic ridge, fracture zone Iceland Hualalai, Hawaii Kimberlite mante-zircon array **Tectono-magmatic differentiation ▶** Boundary between arc and mantle tectono-magmatic domains Overlap between arc and mantle tectono-magmatic domains 0.1 W. Newfoundland samples Hare Hill Alkali Granite mean value Disappointment Hill tonalite modified after Grimes and others (2015) mean value 0.01 0.0001 0.001 0.01 0.1 Nb/Yb B2. B1. 1000 0.01 Within-plate/Anorogenic Arc-related Hf/Th 100 0.001 Within-plate/Anorogenic 10 0.0001 Arc-related 0.00001 0.110 10 100 1000 Th/Nb Th/U

modified after Hawkesworth and Kemp (2006) and Yang and others (2012)