

Seismic reflections from subducting lithosphere?

R. M. CLOWES^{*}, R. M. ELLIS^{*}, Z. HAJNAL[†] & I. F. JONES^{*}

^{*}Department of Geophysics and Astronomy, University of British Columbia, Vancouver, British Columbia, Canada V6T 1W5

[†]Department of Geological Sciences, University of Saskatchewan, Saskatoon, Saskatchewan Canada S7N 0W0

Data from two short reflection lines obtained using explosives and an airgun source, together with offshore and onshore refraction profiles and a gravity interpretation, provide evidence of coherent reflections between the subducting oceanic Juan de Fuca and overriding continental America plates.

References

1. Riddihough, R. P. *Can J. Earth Sci.* **16**, 350–363 (1979).
2. Ellis, R. M. *et al. Can. J. Earth Sci.* **20**, 719–741 (1983).
3. Keen, C. E. & Hyndman, R. D. *Can. J. Earth Sci.* **16**, 712–747 (1979).
4. McMechan, G. A. & Spence, G. D. *Can. J. Earth Sci.* **20**, 742–752 (1983).
5. Clowes, R. M. *et al. Progr. Abstr. Geol. Ass. Can. A. Meet.* **8**, A13 (1983).
6. Muller, J. E. *Geol. Surv. Can. Pap.* 79–30 (1980).
7. Muller, J. E. & Carson, D. J. T. *Geol. Surv. Can. Pap.* 68–50 (1969).