

REFERENCES

- Ammon, C. J., 1990. On the nonuniqueness of receiver function inversions, *J. Geophys. Res.*, **95**, 2504–2510.
- Arlitt, R., Kissling, E., Ansorge, J. & TOR Working Group, 1999. Three dimensional crustal structure beneath the TOR array and effects on teleseismic wavefronts, *Tectonophysics*, **314**, 309–319.
- BABEL Working Group, 1990. Evidence for early Proterozoic plate tectonics from seismic reflection profiles in the Baltic shield, *Nature*, **348**, 34–38.
- BABEL Working Group, 1991. Deep seismic survey images crustal structures of Tornquist Zone beneath southern Baltic sea, *Geophysical Research Letter*, **18**, 1091–1094.
- BABEL Working Group, 1993. Deep seismic reflection/refraction interpretation of critical structure along BABEL profiles A and B in the southern Baltic Sea. *Geophys. J. Int.*, **112**, 325–343.
- Berthelsen, A., 1992. Mobile Europe, in Blundell, D., R. Freeman, and St. Mueller (eds.), *A Continent Revealed: The European Geotraverse*, 275 pp., Cambridge University Press, New York, USA.
- Benz, H.M., & Vidale, J.E., 1993. Sharpness of upper mantle discontinuities determined from high–frequency reflections, *Nature*, **365**, 147–150.
- Bina, C.R., & Wood, B.J., 1987. Olivine–spinel transitions : Experimental and thermodynamic constraints and implications for the nature of the 400 km seismic discontinuity, *J. Geophys. Res.*, **92**, 4853–4866.
- Blundell, D., Freeman R., and Mueller, S. (eds.), 1992. *A Continent Revealed: The European Geotraverse*, 275 pp., Cambridge University Press, New York, USA.
- Bock, G. (ed.), and SVEKALAPKPO Working Group, 2001. Seismic probing of Fennoscandian Lithosphere. *EOS, Trans. AGU*, **82**, 50.
- Elo, S., Gravity data, in Korsman, K., Korja, T., and GGT/SVEKA, 1999. Archean Kuhmo region–Mesoproterozoic Aland rapakivi, Finland, Northern Europe, *Geol. Surv. Finland, Spec. Pap.*
- DEKORP–BASIN Research Group, 1999. The deep crustal structure of the Northeast German Basin: New DEKORP Basin 96 deep–profiling results, *Geology*, **27**, 55–58.

Elo, S., 1999. Gravity data, in Korsman, K., Korja, t., and the GGT/SVEKA Working Group, Global Geoscience Transect, #23, GGT/SVEKA: Archaean Kuhmo region–Mesoproterozoic Åland rapakivi, Finland, Northehrn Europe, *Geol. Surv. Finland, Spec. Pap.*

EUGENO–S Working Group, 1988. Crustal structure and tectonic evolution of the transition between the Baltic Shield and the North German Caledonites (the EUGENO–S Project), *Tectonophysics*, **150**, 253–348.

Frost, R.T.C., Fitch, F.J., and Miller, J.A., 1981. The age and nature of the crystalline basement on the North Sea Basin, Chapter 2. In: L. V. Illing and G. C. Hubson (eds.), *Petroleum Geology of the Continental Shelf of North–West Europe*. Heyden–Inst. of Petrology, London, pp. 43–57.

Funke, S., Friedrich, W., 2001. Rayleigh wave dispersion and 1D model of Mantle s–velocity for southern Finland, in *the proceedings of the 6th SVEKALAPKO workshop, Lammi, Finland*.

Gaál, G., and Gorbatshev, R., 1987. An outline of the Precambrian evolution of the Baltic Shield, *Precamb. Res.*, **35**, 15–52.

Gossler, J., Kind, R., 1996. Seismic evidence for very deep roots of continents, *Earth and Planetary Science Letters*, **138**, 1–13.

Gossler, J., Kind, R., Sobolov, S.V., Kaempf, H., Wylegalla, K., Stiller, M., and TOR Working Group, 1999. Major crustal features between the Harz mountains and the Baltic Shield derived from receiver functions, *Tectonophysics*, **314**, 321–333.

Grand, S.P., and HelMBERGER, D.V., 1984. Upper mantle shear structure beneath the Northwest Atlantic Ocean, *J. Geophys. Res.*, **89**, 11465–11475.

Gregersen, S., and TOR Working Group, 1999. Important findings expected from Europe's largest seismic array, *EOS, Trans. AGU*, **80**, 1.

Gurrola, H., Minister, J.B., and Owens, T., 1994. The use of velocity spectrum for stacking receiver functions and imaging upper mantle discontinuities, *Geophys. J. Int.*, **117**, 427–440.

Heikkinen, P., Luosto, U., Malaska, J., Yliniemi, J., and Komminaho, K., 1999. Seismic data, in Korsman, K., Korja, t., and the GGT/SVEKA Working Group, Global Geoscience Transect, #23, GGT/SVEKA: Archaean Kuhmo region–Mesoproterozoic Åland rapakivi, Finland, Northehrn Europe, *Geol. Surv. Finland, Spec. Pap.*

Hjelt, S.E., and Daly, J.S., SVEKALAPKPO, 1996. Evolution of Palaeoproterozoic and Archaean Lithosphere, in *Europrobe 1996– Lithospheric Dynamics: Origin and Evolution of Continents*, edited by D.G. Gee and H.J. Zeyen, 138 pp., Europrobe Secretariate, Uppsala University, Uppsala, Sweden.

- Hoffmann, N., Stiewe, H., Pasternak, G., 1996. Struktur und Genese der Mohorovicic–Diskontinuität (Moho) im Norddeutschen Becken – ein Ergebnis langzeitregistrierter Steilwinkelseismik, *Z. Angew. Geol.*, **42**, 138–148.
- Kennett, B.L.N., and Engdahl, E.R., 1991. Travel times for global earthquakes location and phase identification, *Geophys. J. Int.*, **105**, 429–465.
- Kind, R., 1985. The reflectivity method for different source and receiver structures and comparison with GRF data, *J. Geophys.*, **58**, 146–152.
- Kind, R., Vinnik, L.P., 1988. The upper mantle discontinuities underneath the GRF array from P–to–S converted phases, *J. Geophys.*, **62**, 138–147.
- Kind, R., Gregersen, S., Hanka, W., Bock, G., 1997. Seismological evidence for a very sharp Sorgenfrei–Tornquist Zone in southern Sweden, *Geol. Mag.*, **134**, 591–595.
- Kind, R., Kosarev, G.L., and Petersen, N.V., 1995. Receiver functions at the stations of the German Regional Seismic Network (GRSN), *Geophys. J. Int.*, **121**, 191–202.
- Korsman, K., Korja, T., Pajunen, M., Virransalo, P., and GGT/SVEKA Working Group, the GGT/SVEKA Transect, 1999. Structure and evolution of the continental crust in the Paleoproterozoic Svecofennian Orogen in Finland, *Int. Geol. Rev.*, **41**, 287–333.
- Kosarev, G., Kind, R., Sobolov, S.V., Yuan, X., Hanka, W., Oreshin, S., 1999. Direct seismic evidence for detached Indian lithospheric mantle beneath Tibet, *Science*, **283**, 1306–1309.
- Kozlovskaya, E., and Yliniemi, J., 1999. Deep Structure of the Earth's Crust Along the SVEKA Profile and its Extension to the North–East, *Geophysics*, **35** (1–2), 111–123
- Langston, C.A., 1977. The effect of planar dipping structure on source and receiver responses for constant ray parameter, *Bull. Seism. Soc. Am.*, **67**, 1029–1050.
- Langston, C.A., 1979. Structure under Mount Rainier, Washington, inferred from teleseismic body waves, *J. Geophys. Res.*, **84**, 4749–4762.
- Langston, C.A., 1981. Evidence for the subducting lithosphere under southern Vancouver Island and western Oregon from teleseismic P wave conversions. *J. Geophys. Res.* **86**, 3857–3866.
- Larsen, O., 1971. K/Ar age determination from the Precambrian of Denmark, *Geol. Surv. Denmark, Ser. 2*, 97: 37 pp.
- Lay, T., 1992. Wrinkles on the inside, *Nature*, **355**, 768–769.
- Lay T., Wallace, T. C., (eds.), 1995. *Modern global seismology*, Academic Press, Inc. USA.

- Liboriussen, J., Ashton, P. and Thygesen, T., 1987. The evolution of the Fennoscandian border zone in Denmark, *Tectonophysics*, **137**, 21–29.
- Luosto, U., 1997. Structure of the earth's crust in Fennoscandia as revealed from refraction and wide-angle reflection studies, *Geophysica*, **33**, 3–16.
- Meissner, R., Wever, T., 1991. Sadowiak, P., Continental collisions and seismic signature, *Geophys. J. Int.*, **105**, 15–23.
- MONA LISA Working Group 1997a. MONA LISA – Deep seismic investigations of the lithosphere in the south-eastern North Sea, *Tectonophysics*, **269**, 1–19.
- MONA LISA Working Group 1997b. Closure of the Tornquist Sea: Constraints from MONA LISA deep seismic reflection data, *Geology*, **25**, 1071–1074.
- Öhlander, B., Skiöld, T., Elming, S.A., Claesson, S. and Nisca, D.H., 1993. Delineation and character of the Archaean–Proterozoic boundary in northern Sweden, *Precambrian Res.*, **1–4**, 67–84.
- Owens, T.J., Zandt, G. and Taylor, S.R., 1984. Seismic evidence for an ancient rift beneath the Cumberland Plateau, Tennessee: A detailed analysis of broadband teleseismic P waveforms, *J. Geophys. Res.*, **89**, 7783–7795.
- Phinney, R. A., 1964. Structure of the Earth's crust from spectral behaviour of long-period body waves, *J. Geophys. Res.*, **69**, 2997–3107.
- Press, F., and Siever, R., 1978. *Earth*, Freeman, San Francisco, USA.
- Richards, P.G., 1972. Seismic waves reflected from velocity gradient anomalies within the Earth's upper mantle, *Z. Geophys.*, **38**, 517–527.
- Sandoval, S., Kissling, E., Ansorge, J., 2001. A closer look at the bowels of the Baltic Shield: high resolution seismic tomography to 400–km depth. Abstract in the proceeding of the *Europrobe Precambrian Time–Slice Symposium*, St. Petersburg, Russia.
- Scherbaum, F., 1992. *Of Poles and Zeros: Fundamentals of Digital Seismology*, second edition, Kluwer Academic Publishers, 256 pp.
- Shearer, P.M., 1993. Global mapping of upper mantle reflectors from long-period SS precursors, *Geophys. J. Int.*, **115**, 878–904.
- Sorgenfrei, T., & Buch, A., 1964. Deep tests in Denmark 1935–1959, *Dan. Geol. Unders.* **3**, No.36.
- Thybo, H. 1990. A seismic velocity model along the EGT profile—from the North German

Basin into the Baltic Shield. In: Freeman, R., Giese, P. & Mueller, St. (eds.), *The European Geotraverse: Integrative studies*, 99–108.

Thybo, H., 2000. Crustal structure and tectonic evolution of the Tornquist Fan region as revealed by geophysical methods. *Bulletin of the Geological Society of Denmark*, **46**, 145–160.

Thybo, H., Abramovitz, T., Lassen, A., and Schjøth, F., 1994. Deep structure of the Sorgenfrei–Tornquist Zone interpreted from BABEL seismic data, *Zeitschrift der Geologischen Wissenschaften*, **22**, 3–17.

Thybo, H., Perchuc, E., Gregersen, S., 1998. Interpretation in Statu Nascendi of seismic wide–angle reflections based on EUGENO–S data, *Tectonophysics*, **289**, 281–294.

Vinnik, L.P., 1977. Detection of waves converted from P to SV in the mantle, *Phys. Earth planet. Inter.*, **15**, 39–45.

Wilde–Piorko, M., Grad, M., and TOR Working Group, 2002. Differences of the crustal structures between the Precambrian and Paleozoic platforms in Europe from the inversion of teleseismic receiver function – project TOR, *Geophys. J. Int.* **150** (1), 261–270.

Windley, B., 1992. Tectonic evolution of Europe, in Blundell, D., R., Freeman, and St. Mueller (eds.), *A Continent Revealed: The European Geotraverse*, 275 pp., Cambridge University Press, New York, USA.

Yuan, X., 1999. Teleseismic receiver function study and its application in Tibet and the Central Andes, Ph.D. Thesis, 148 pp., Freie Universität Berlin.

Yuan, X., Ni, J., Kind, R., Mechie, J., Sandoval, E., 1997. Lithospheric and upper mantle structures of southern Tibet from a seismological passive source experiment, *J. Geophys. Res.*, **102**, 27491–27500.

Zhu, L., Kanamori, H., 2000. Moho depth variations in southern California from teleseismic receiver functions, *J. Geophys. Res.*, **105**, 2969–2980.

Ziegler, P.A., 1982. *Geological Atlas of Western and Central Europe*. Shell Internationale Petroleum Maatschappij, The Hague / Elsevier, Amsterdam, 130 pp.

