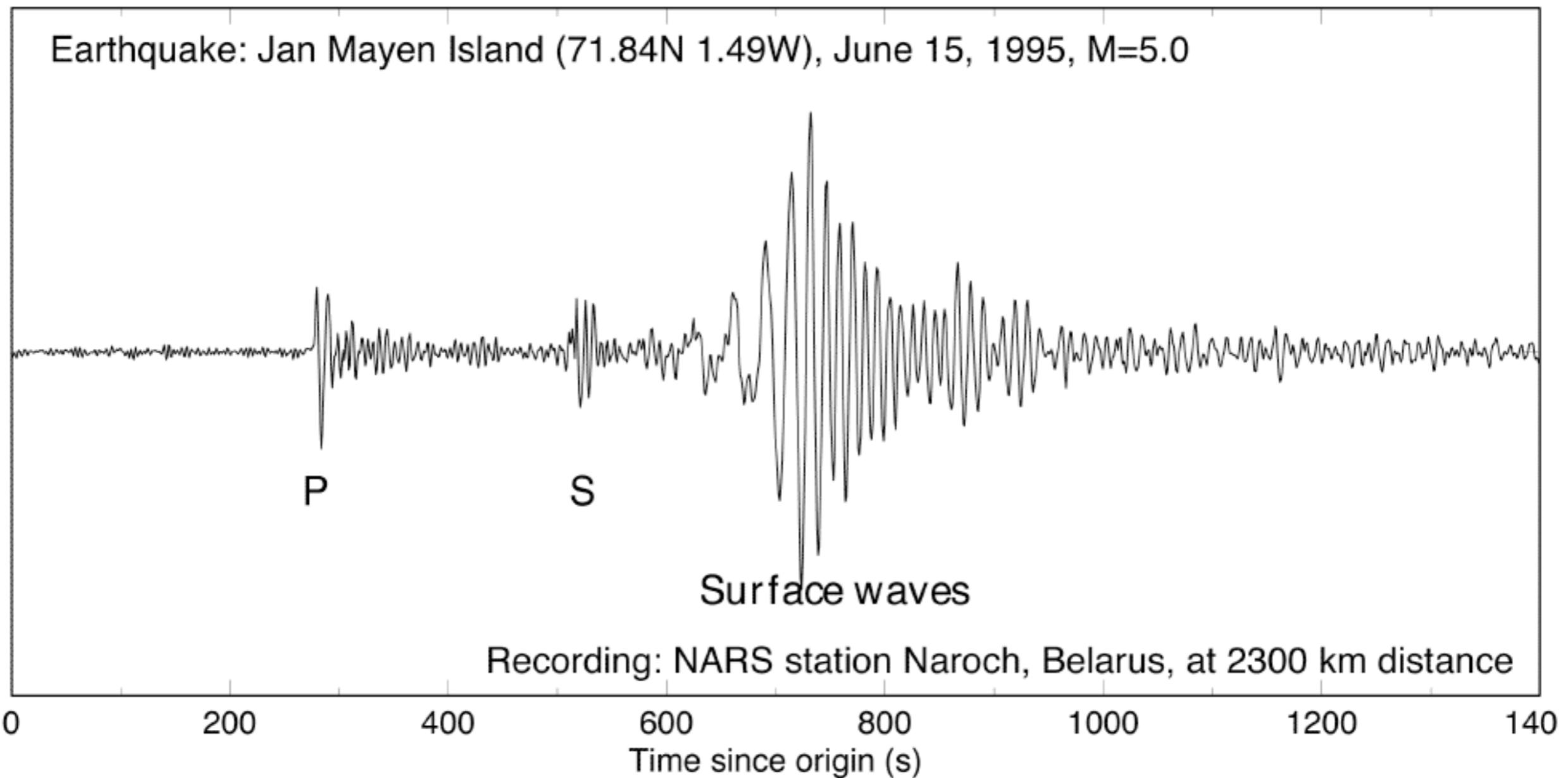


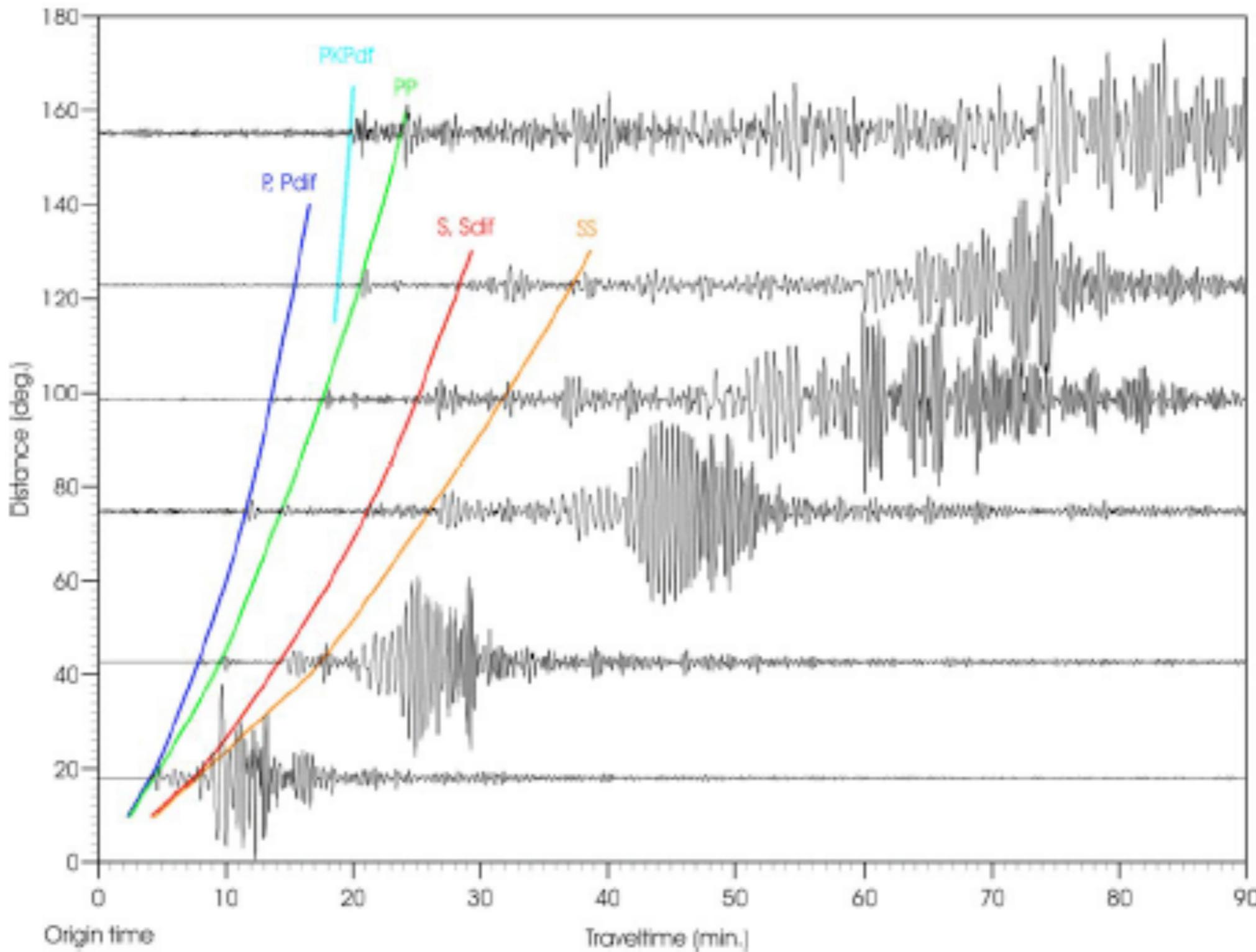
Body waves



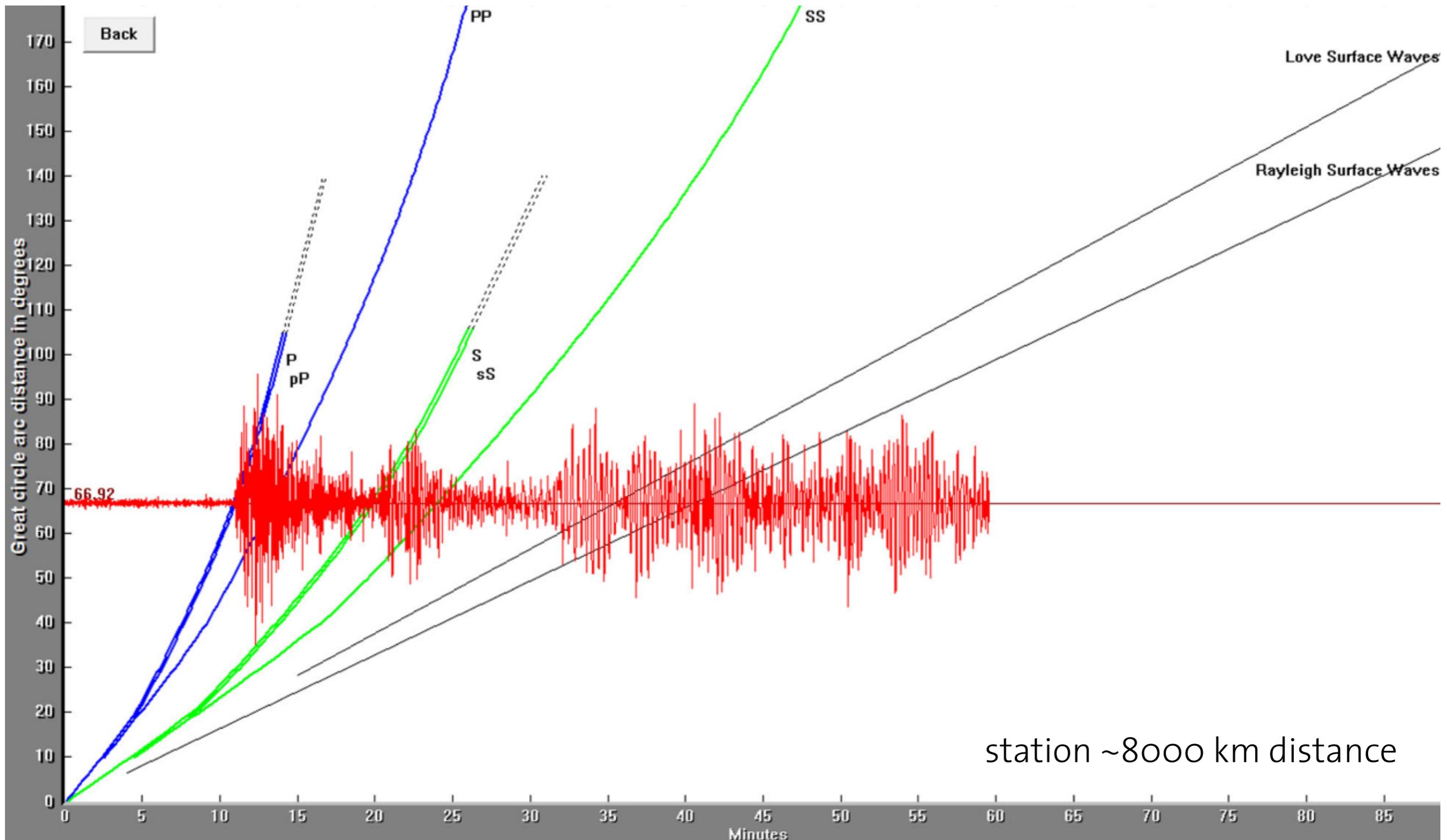
tele-seismic recordings



tele-seismic recordings

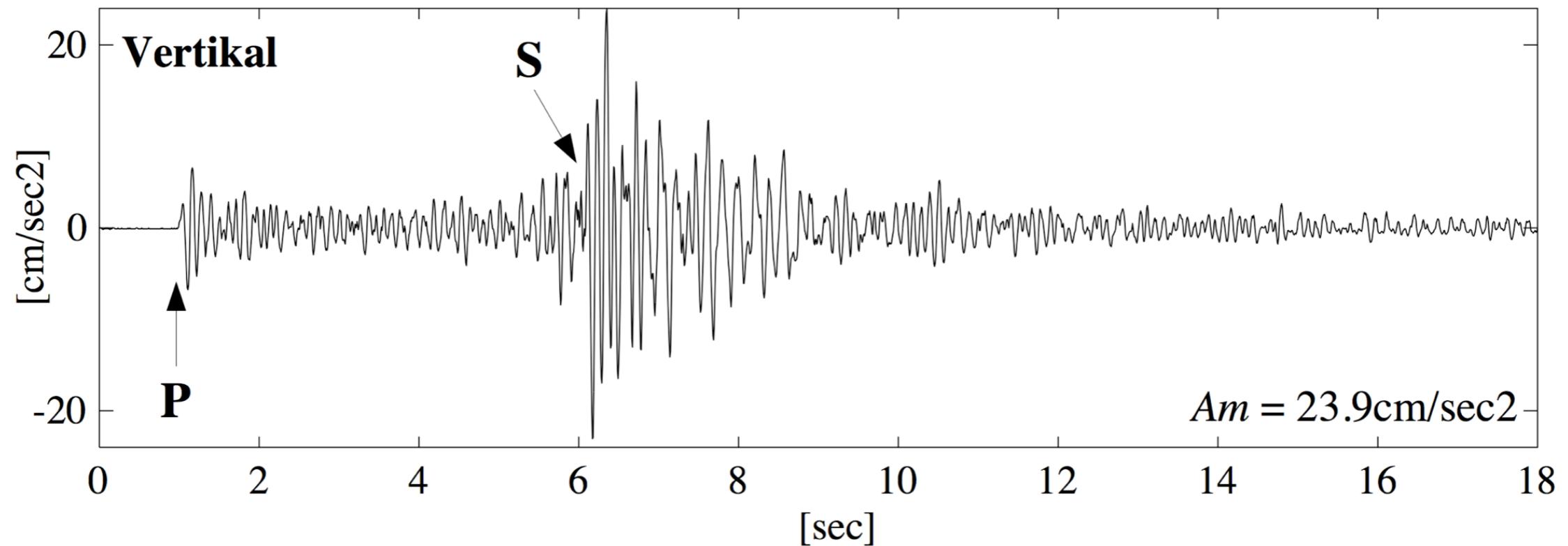


tele-seismic recordings



local/regional recordings

M4.4 event 14. Juni 1993 Domodossola

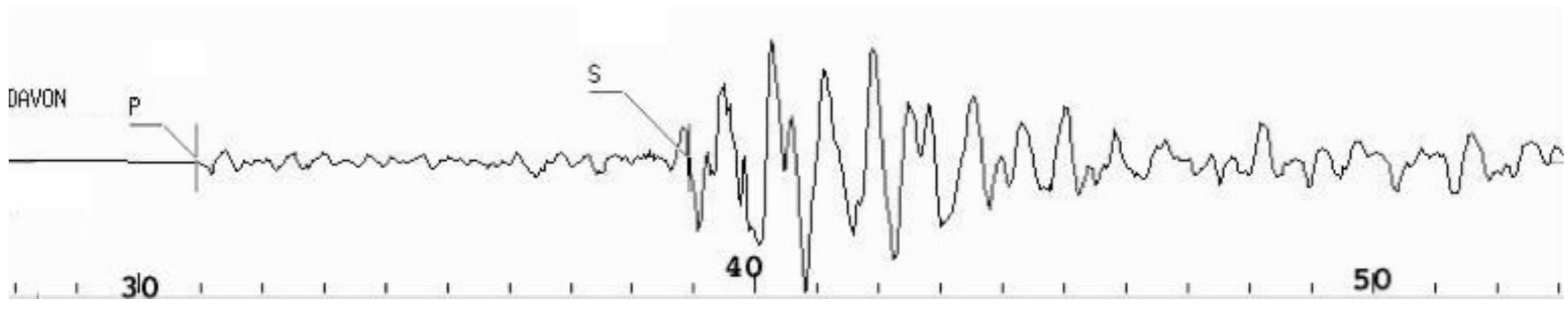


station ~42 km distance (Brig-Glis)
epicentral distance ~ 8 * (Ts - Tp)



local recordings

event 17. March 2001

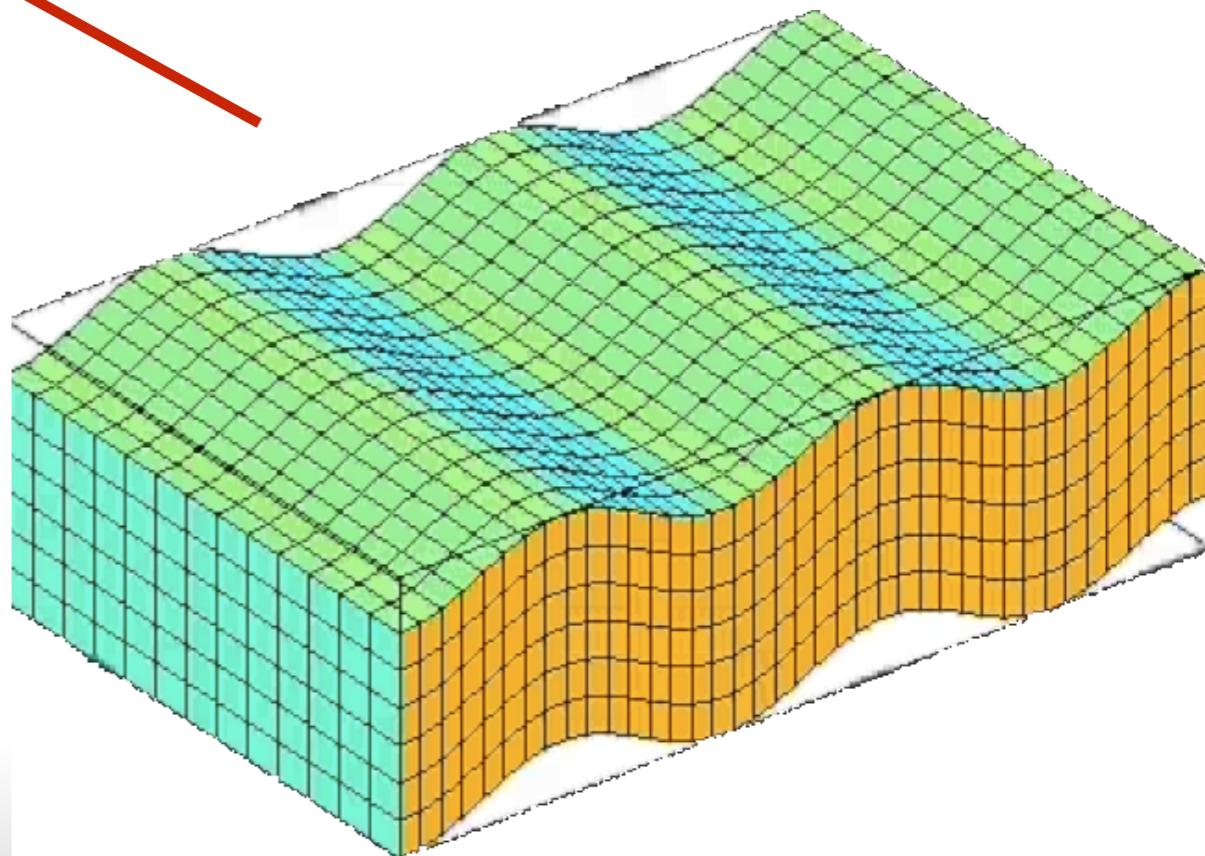
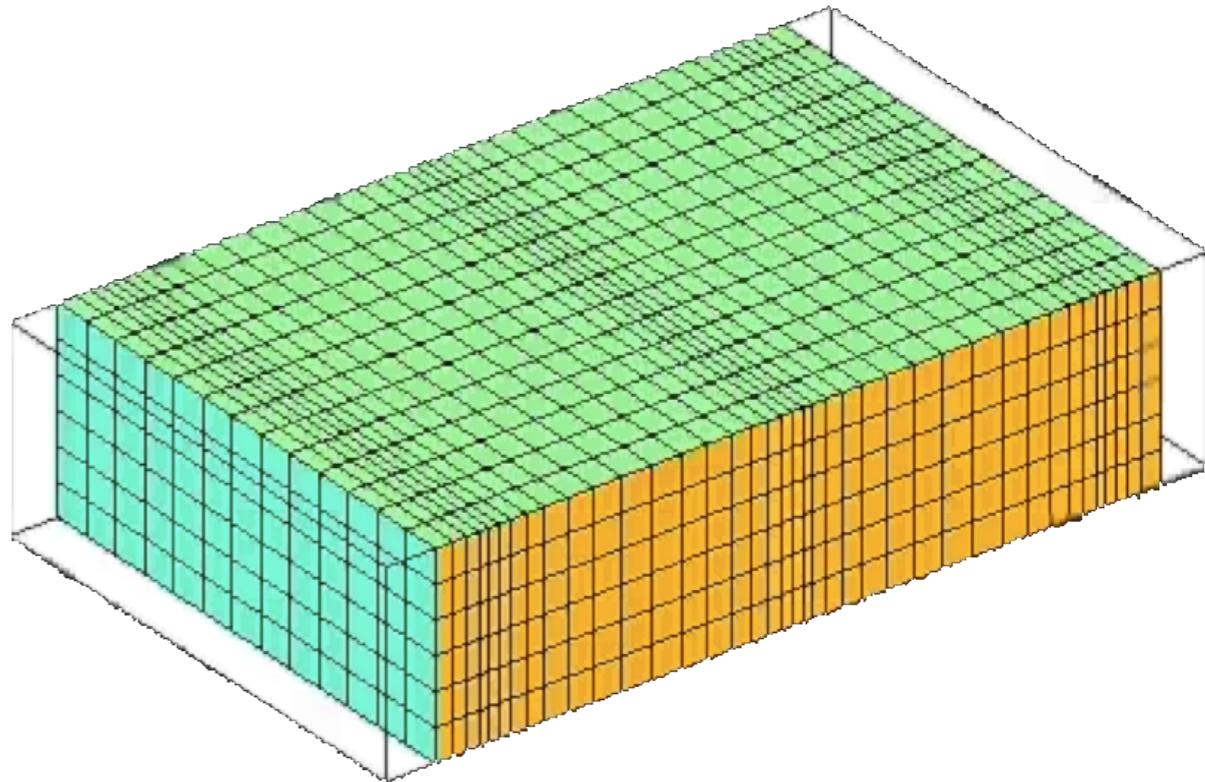
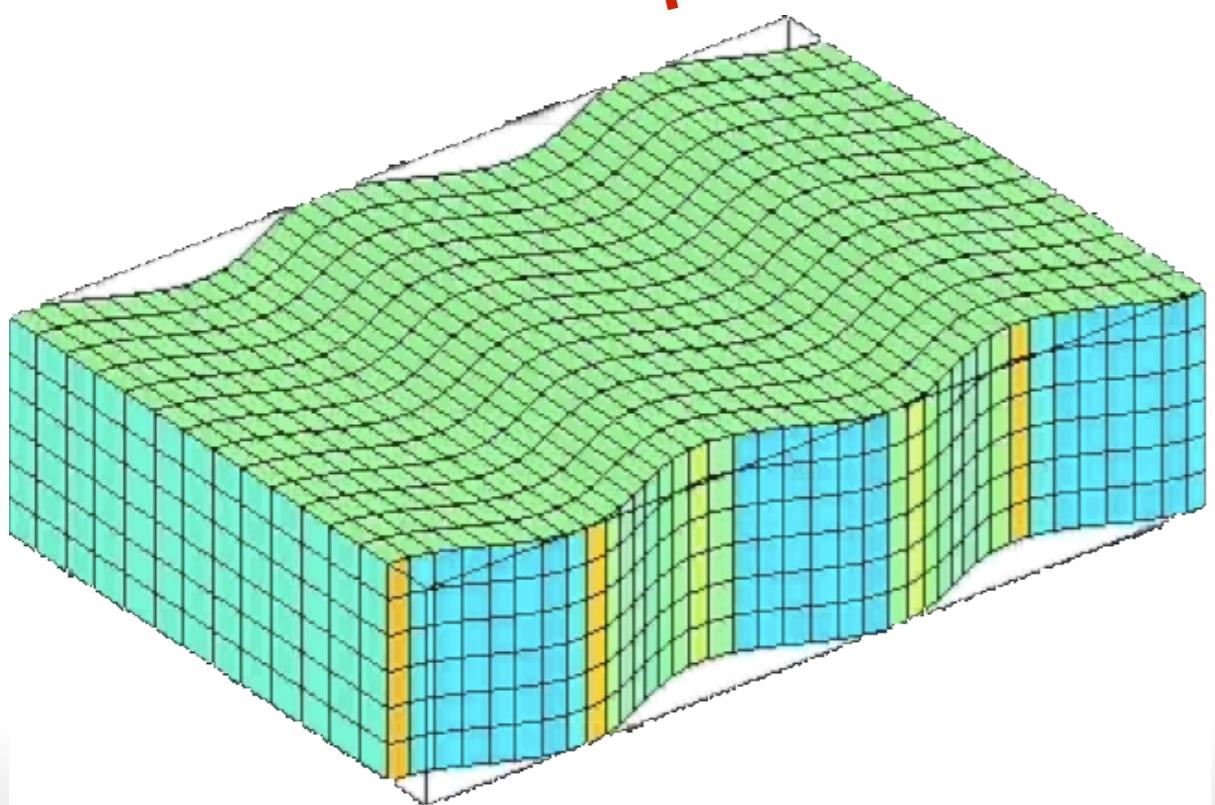
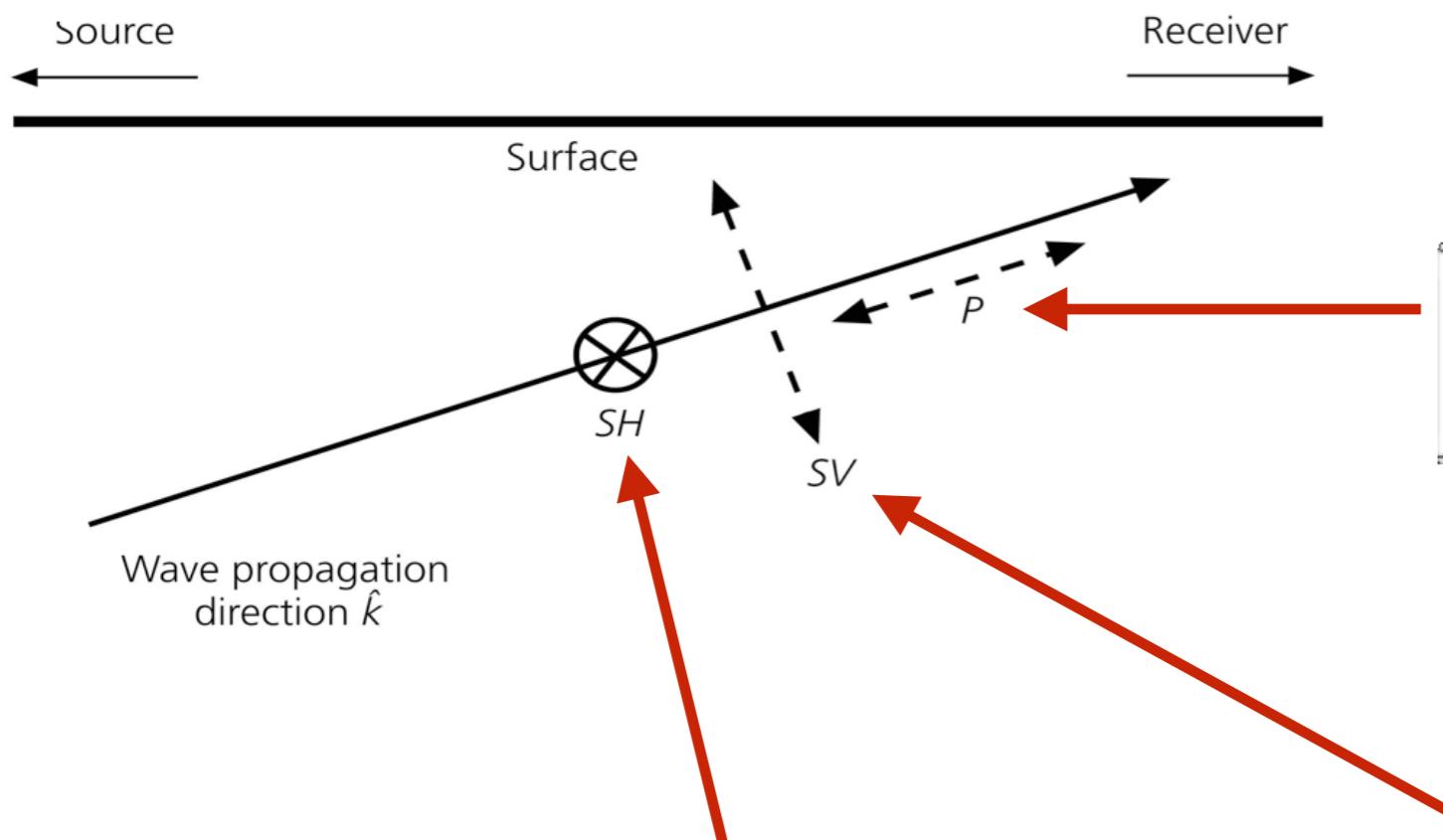


station DAVOX (HHZ component) ~60 km distance

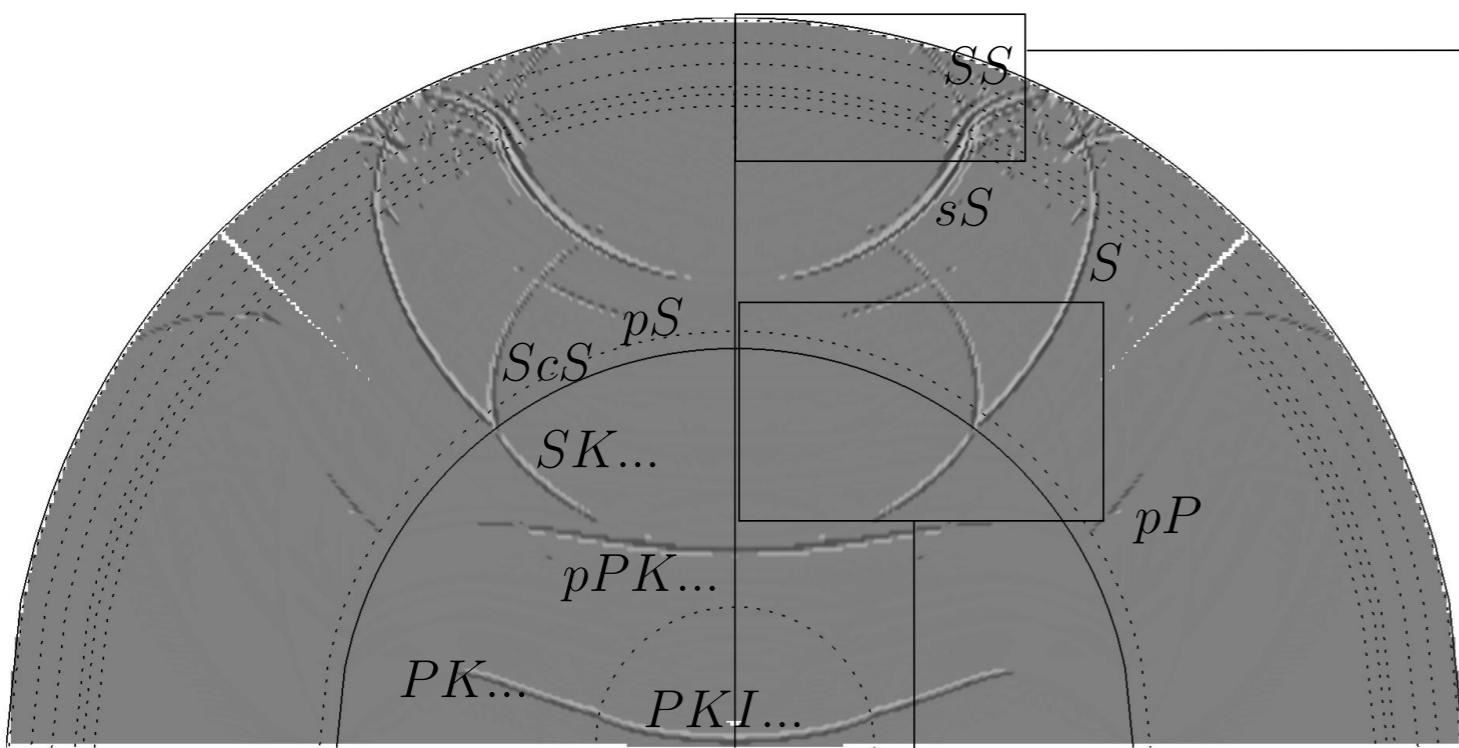


Wave motions

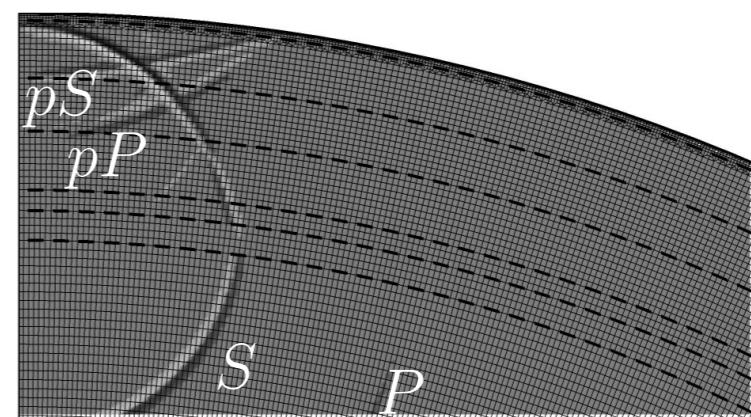




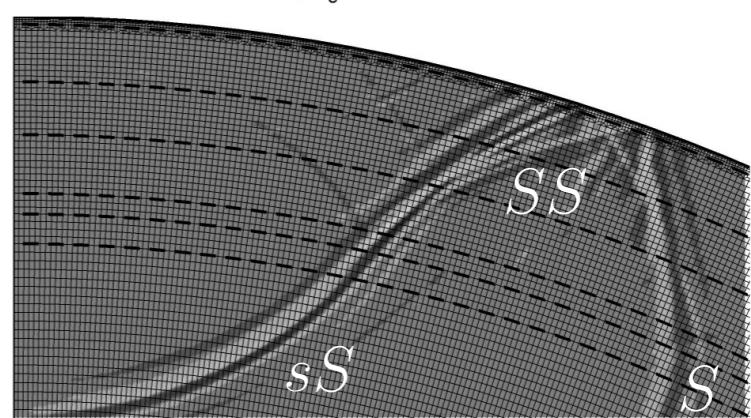
M_{zz}, u_z at t = 540 sec



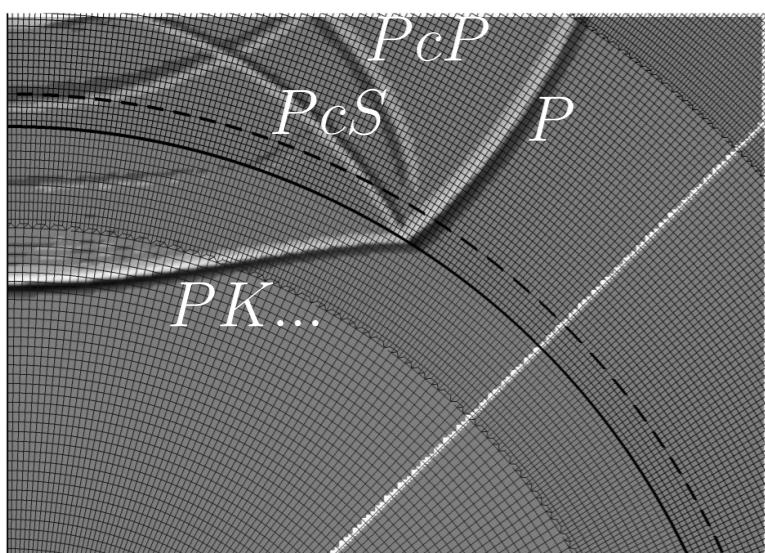
M_{zz}, u_s at t = 140 sec



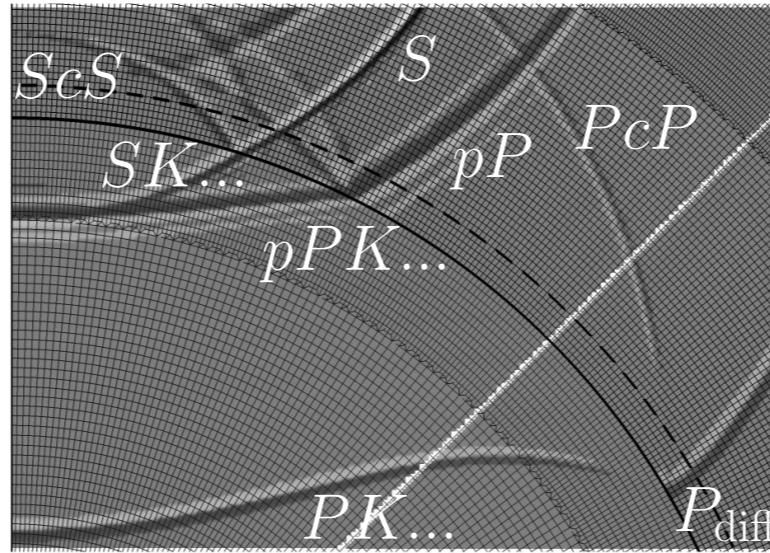
M_{zz}, u_s at t = 400 sec



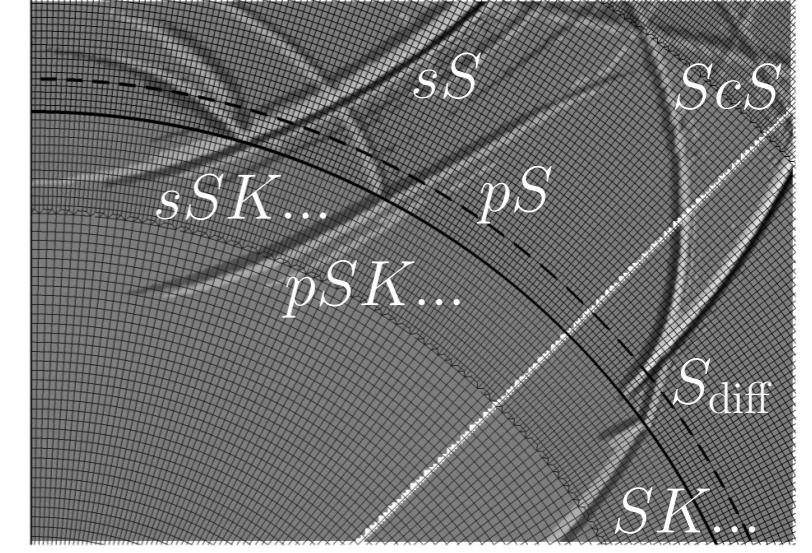
M_{zz}, u_z at t = 280 sec



M_{zz}, u_z at t = 400 sec



M_{zz}, u_z at t = 660 sec



Rays





Figure 3.7-8: Different approaches to wave propagation in a heterogeneous medium.

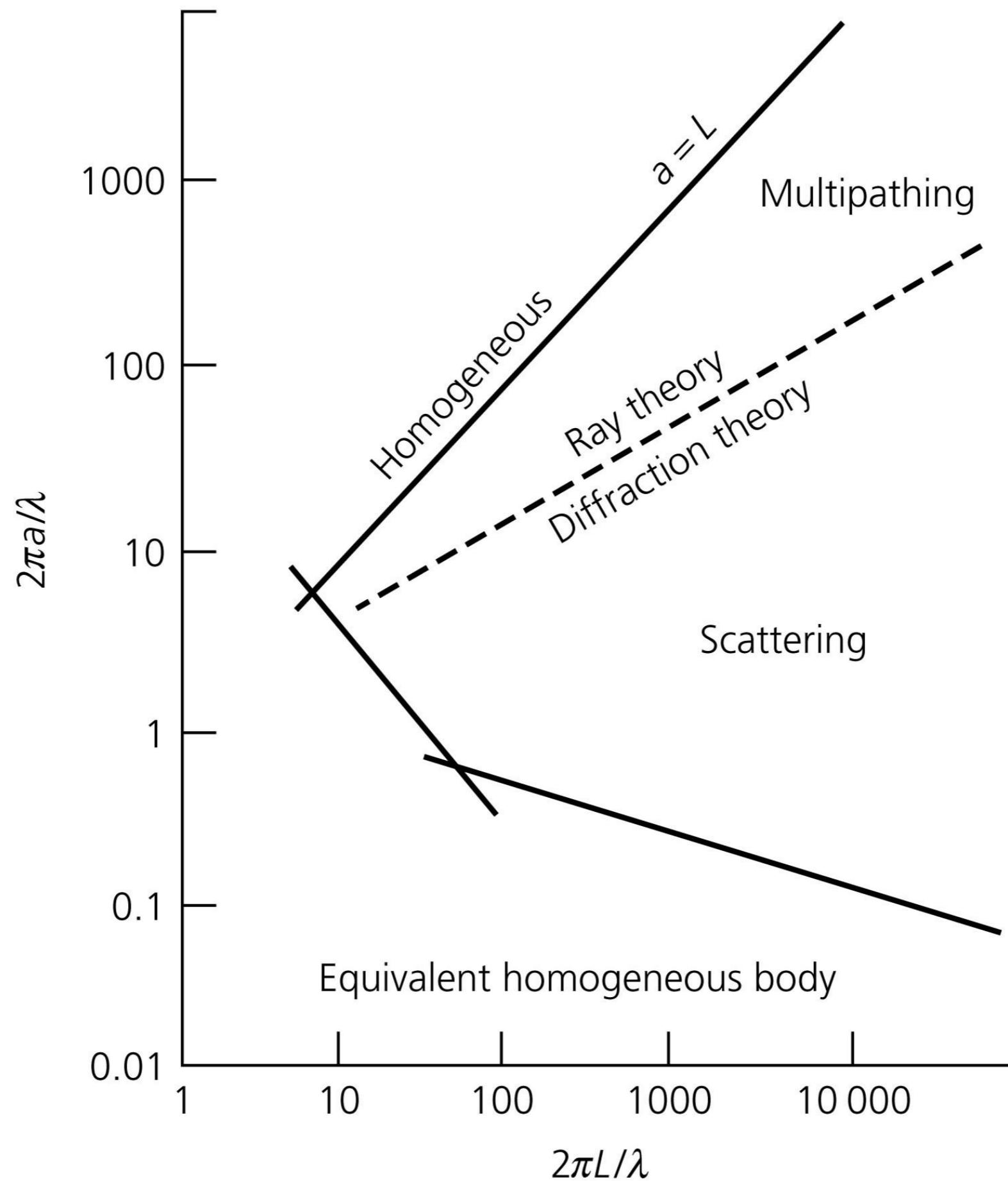
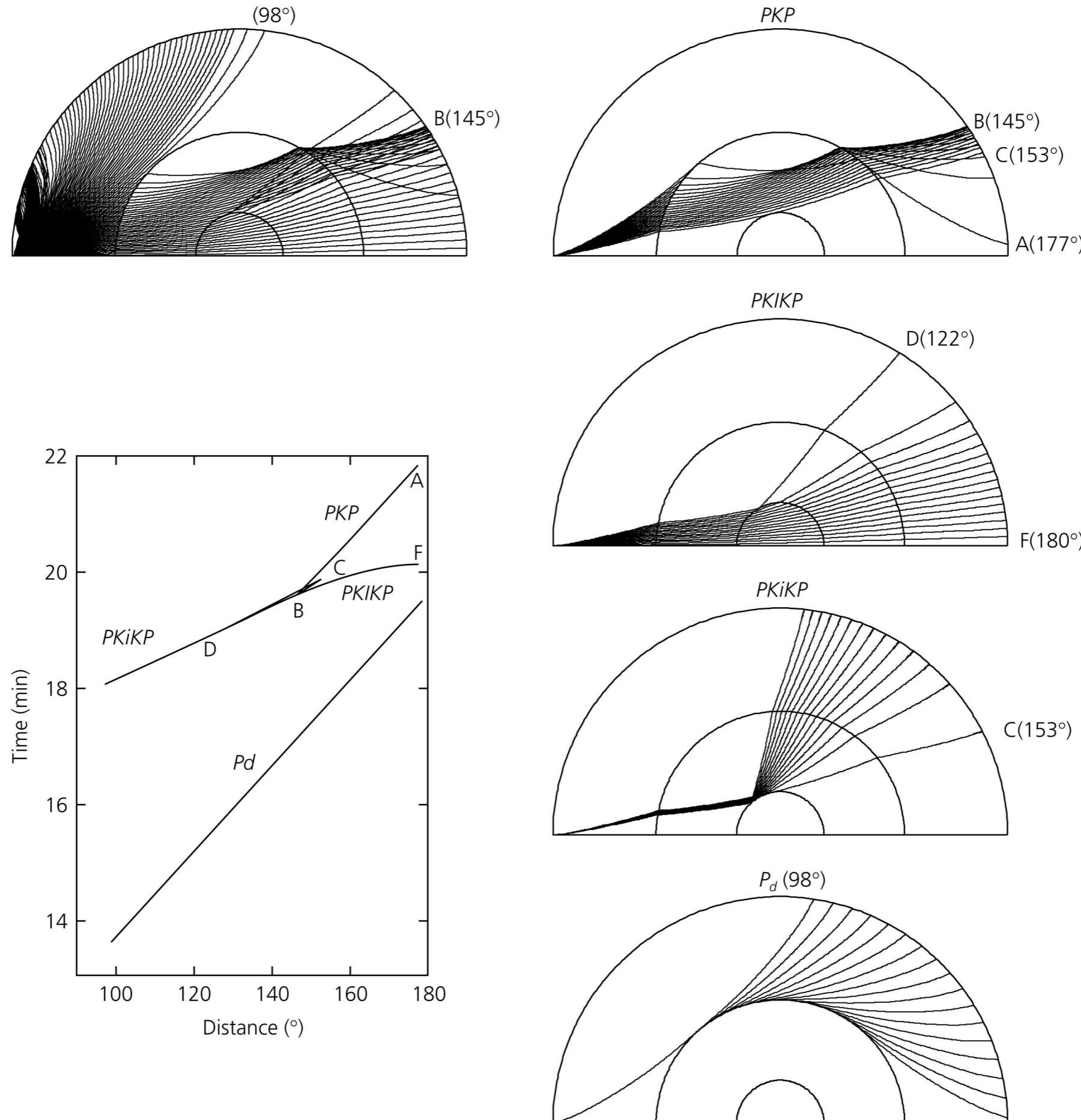
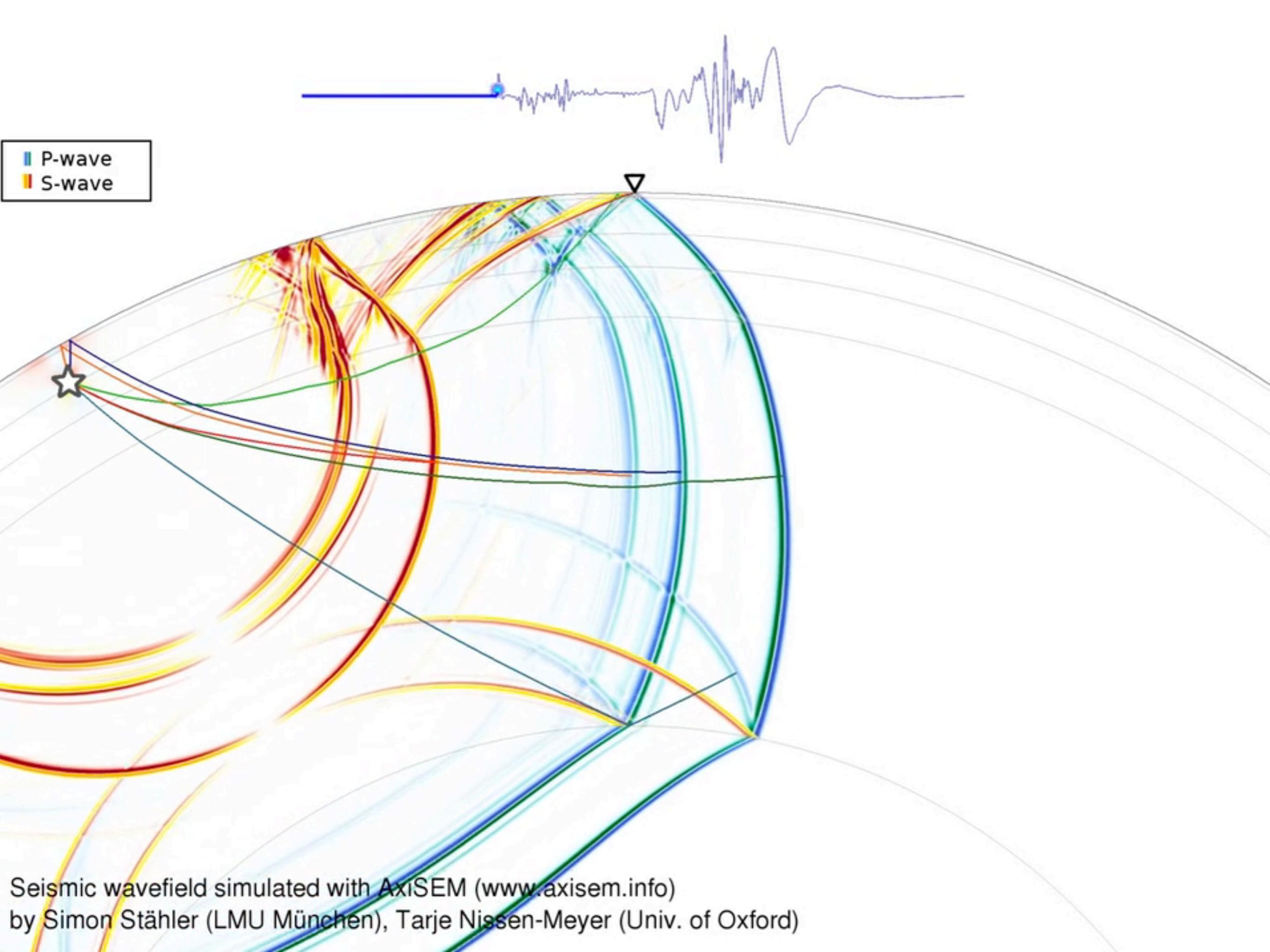


Figure 3.5-7: Ray paths and travel times for major core phases.



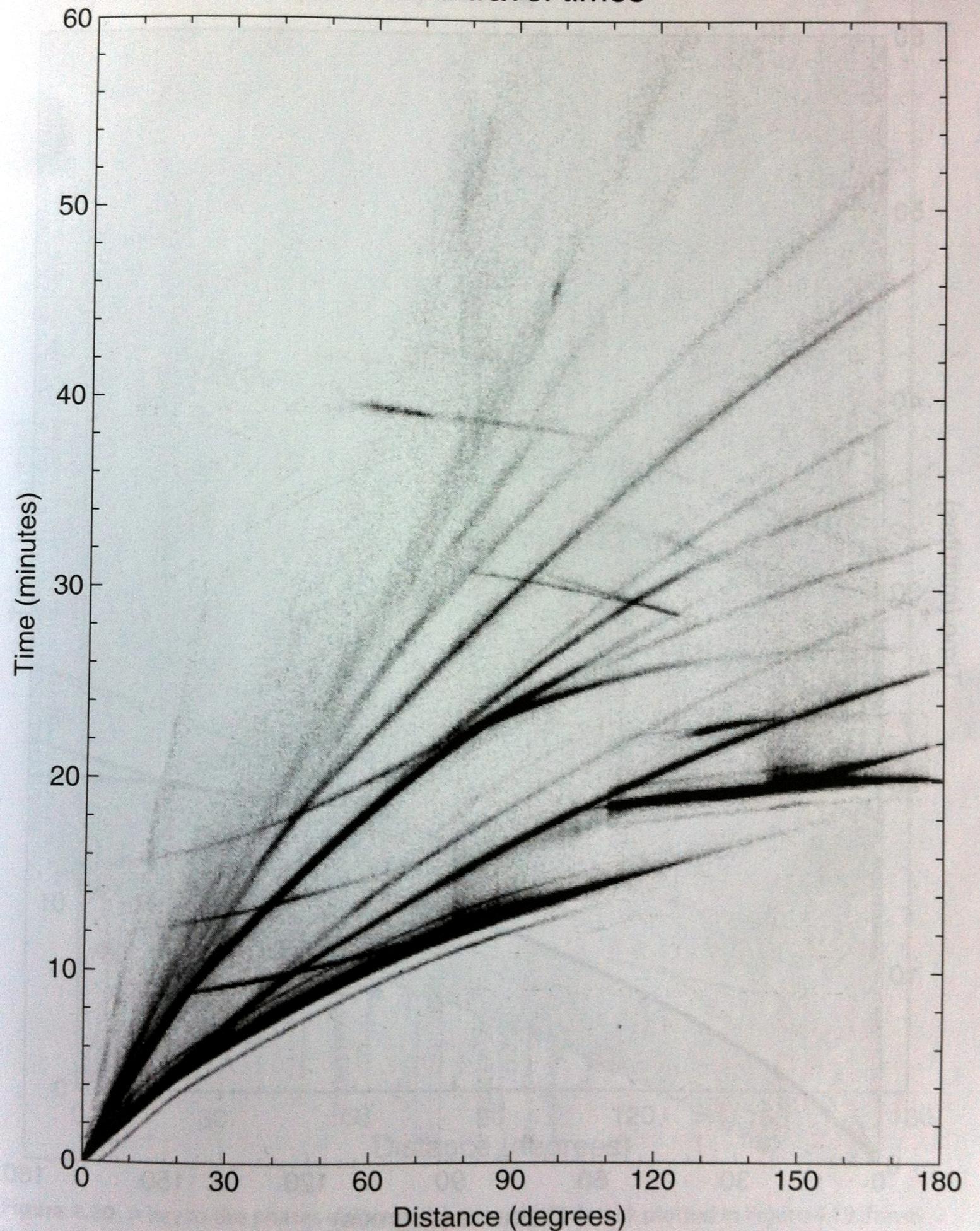


Seismic wavefield simulated with AxisEM (www.axisem.info)
by Simon Stähler (LMU München), Tarje Nissen-Meyer (Univ. of Oxford)

Traveltime curves



ISC travel times



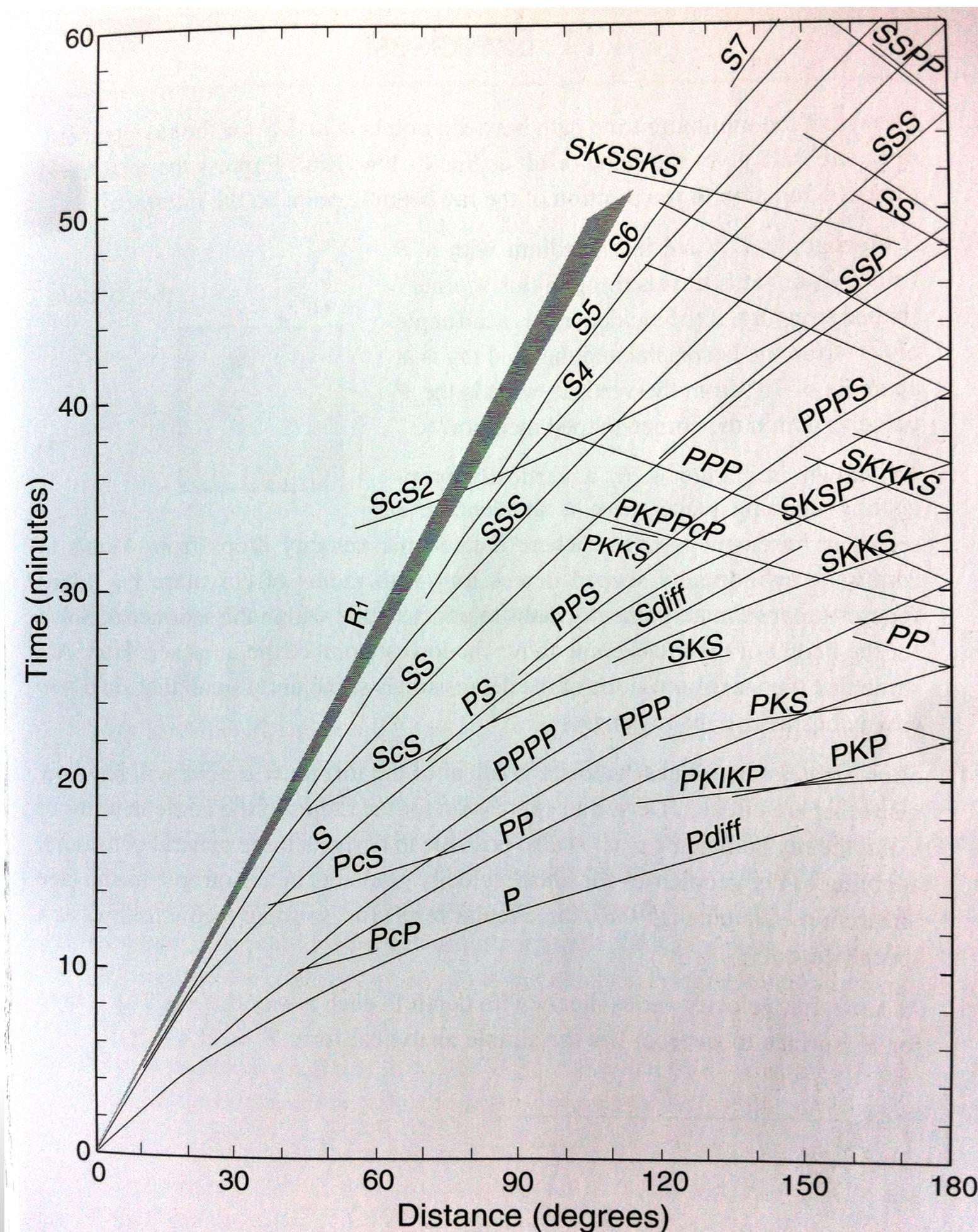


Figure 3.5-3: Travel time data and curves for the IASP91 model.

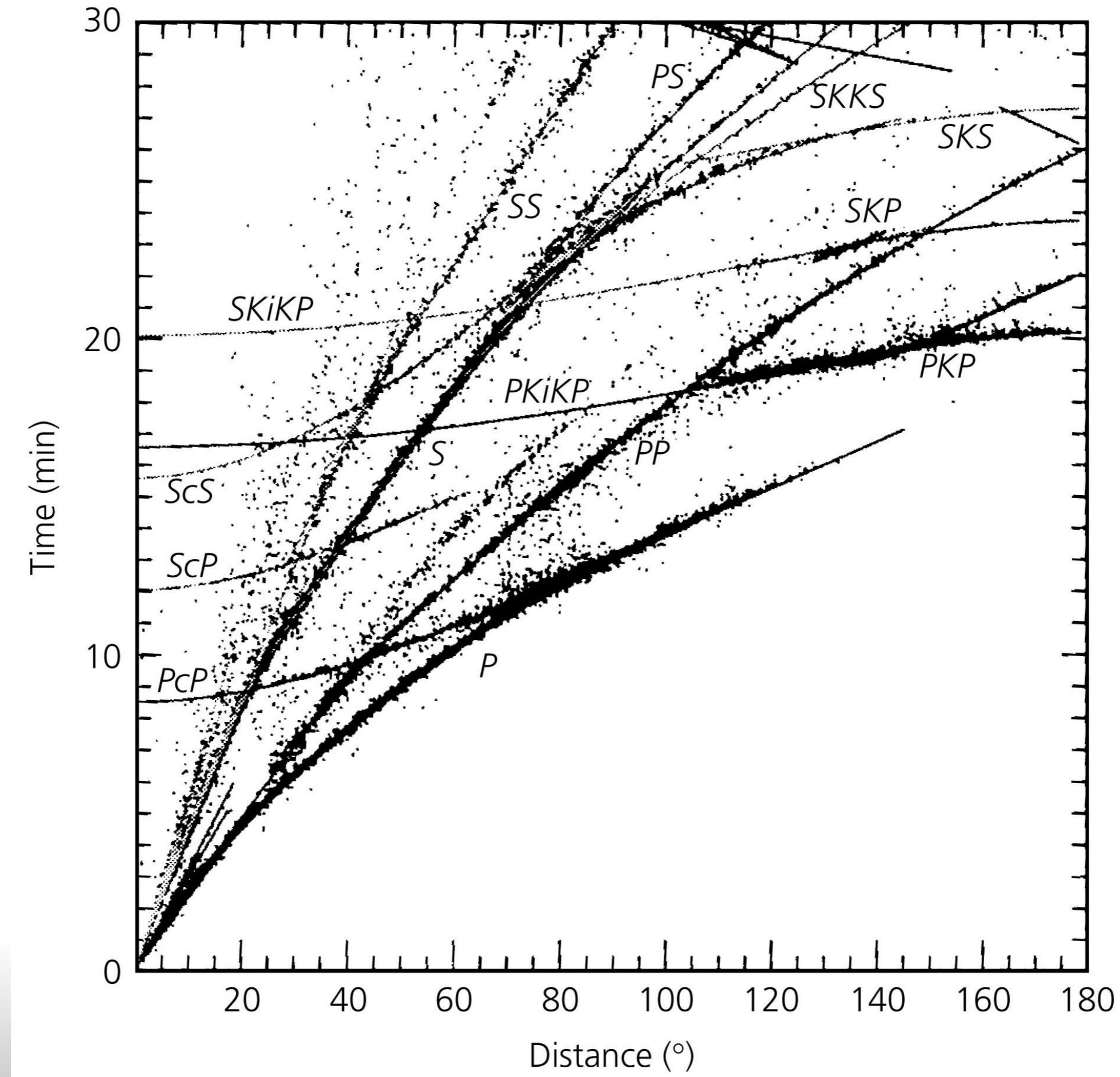
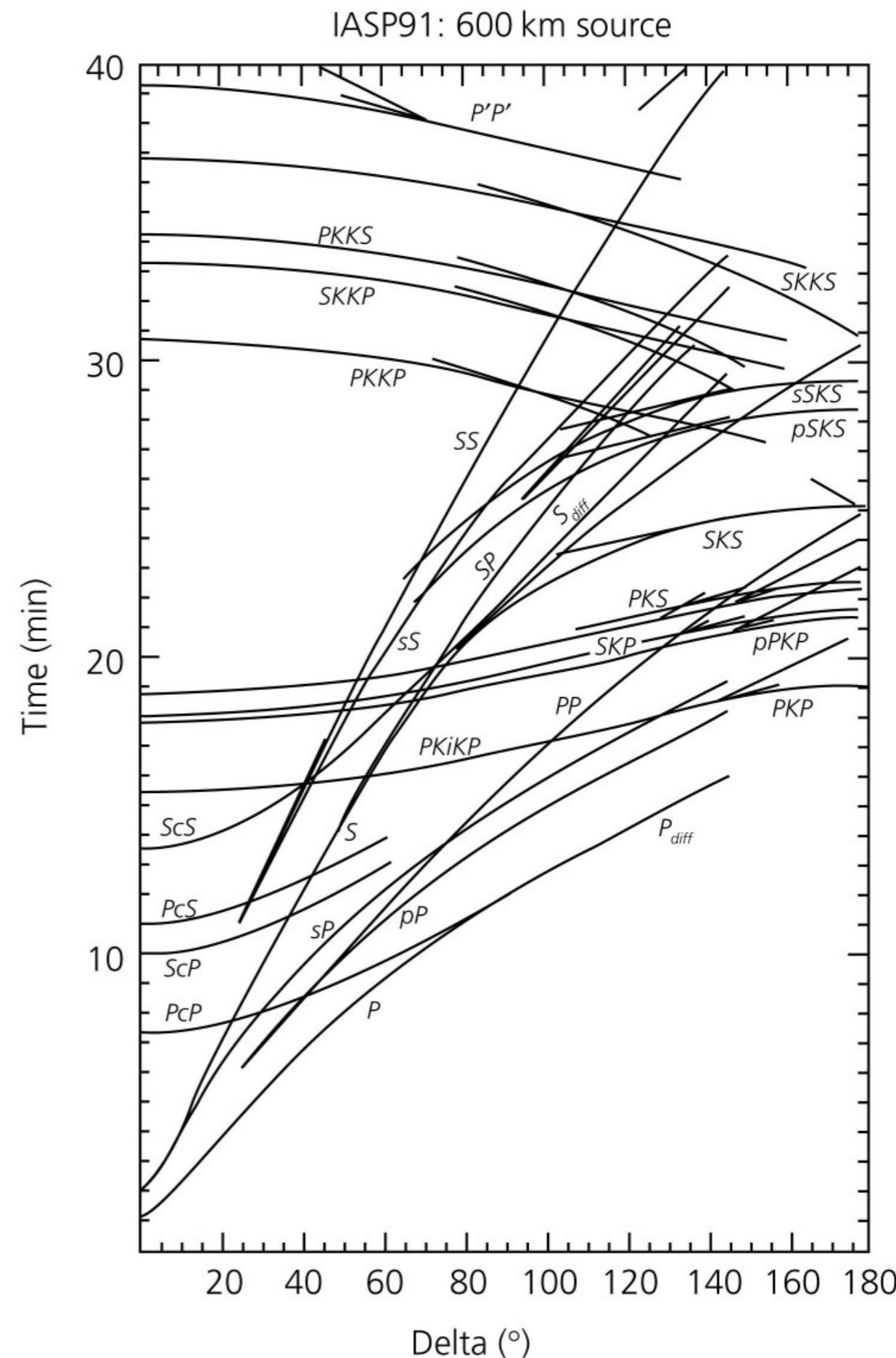
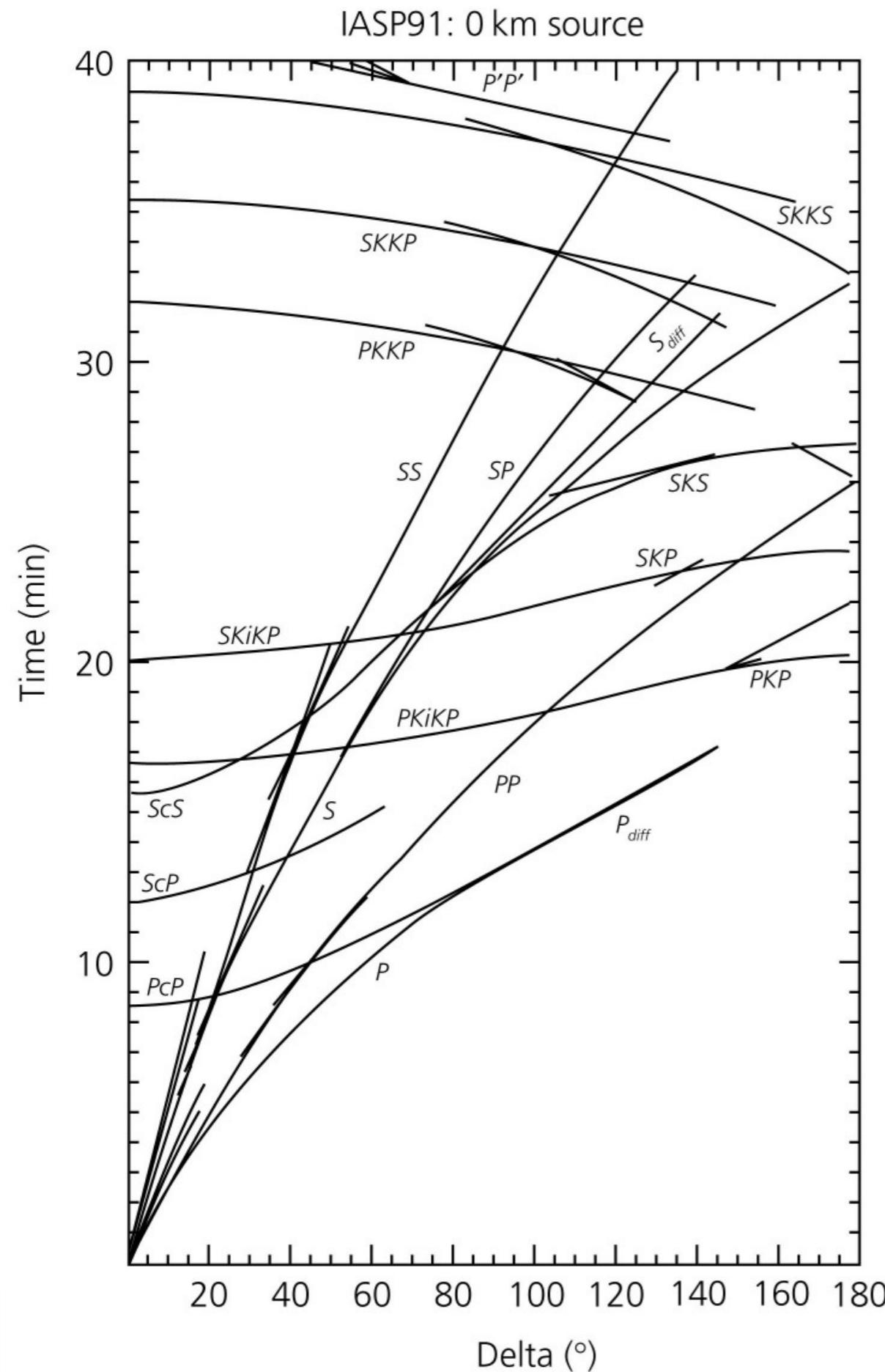
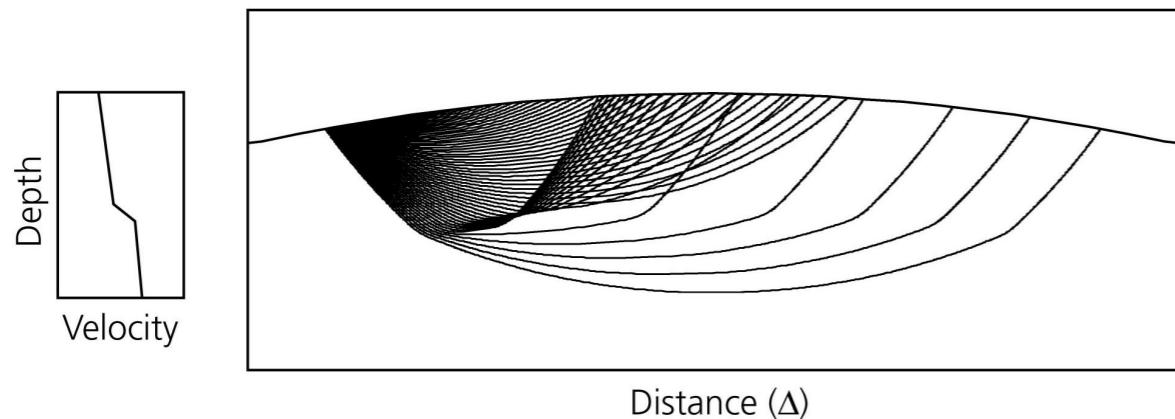


Figure 3.5-4: IASP91 travel time curves for a surface and deep source.



Ray path triplication effects for a velocity increase.



Ray path shadow-zone effects for a velocity decrease.

