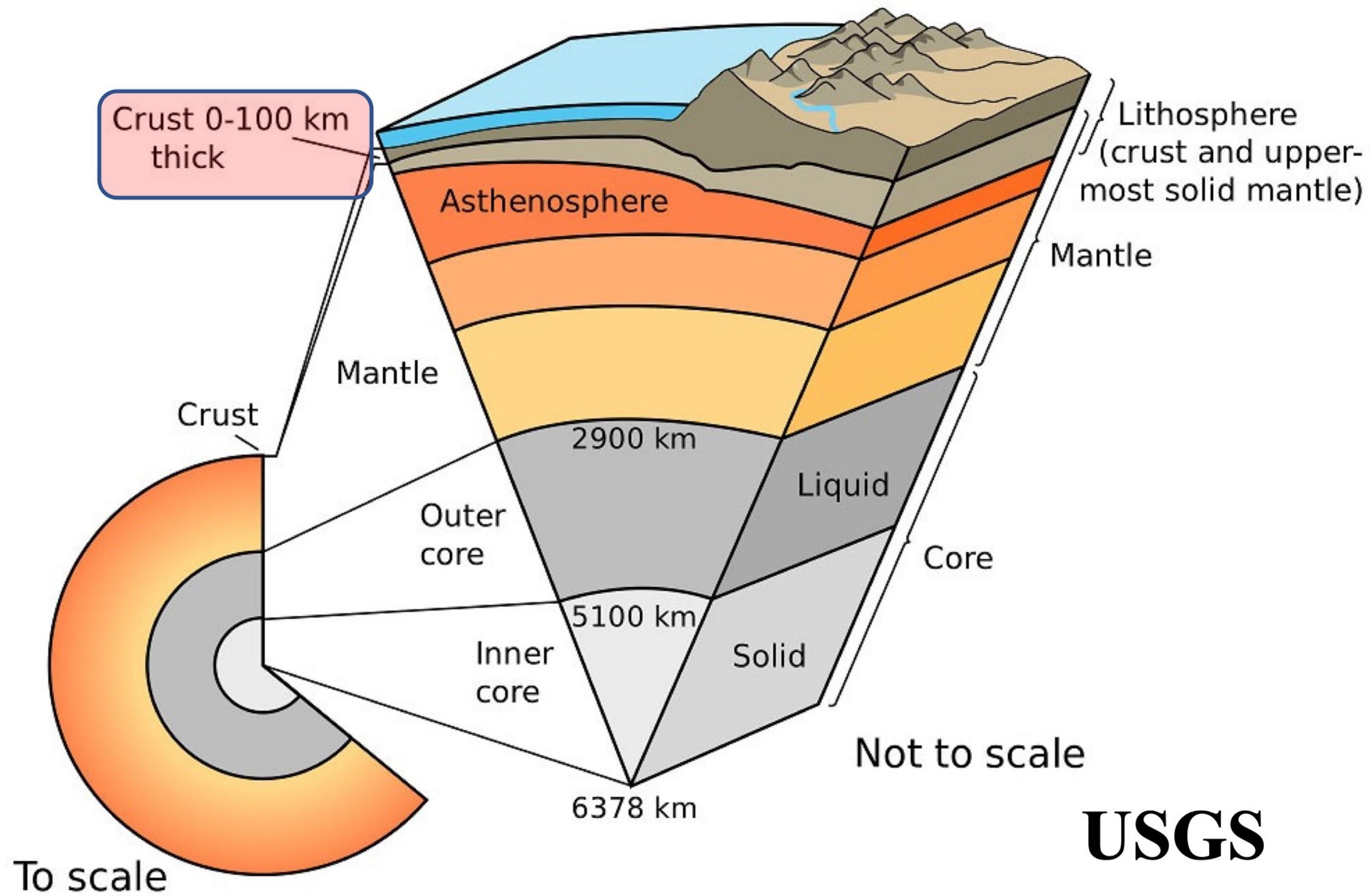


# The Moho geometry

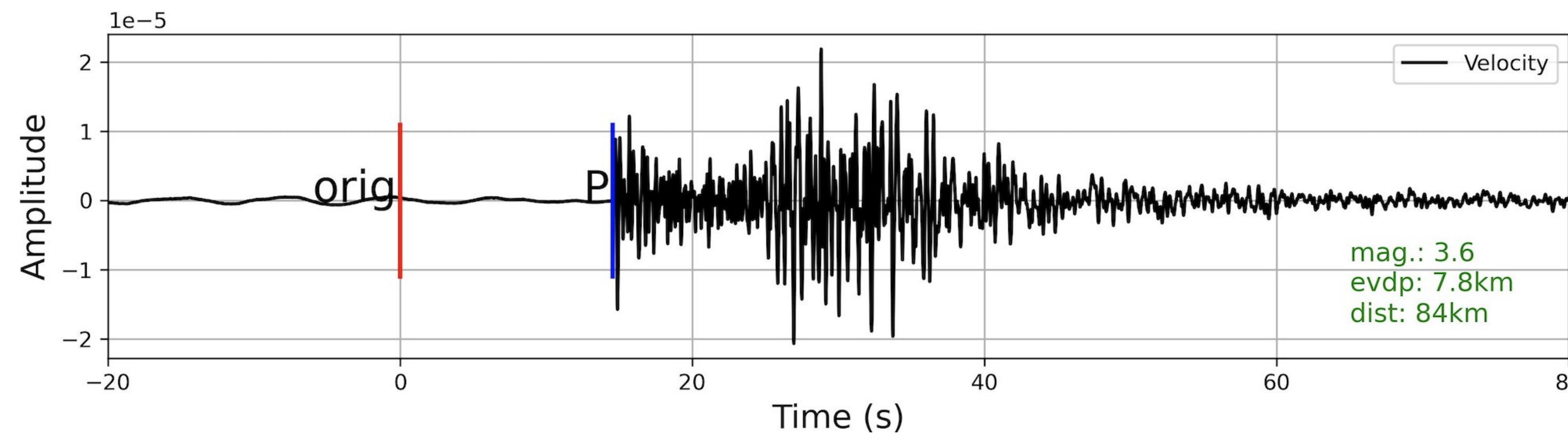
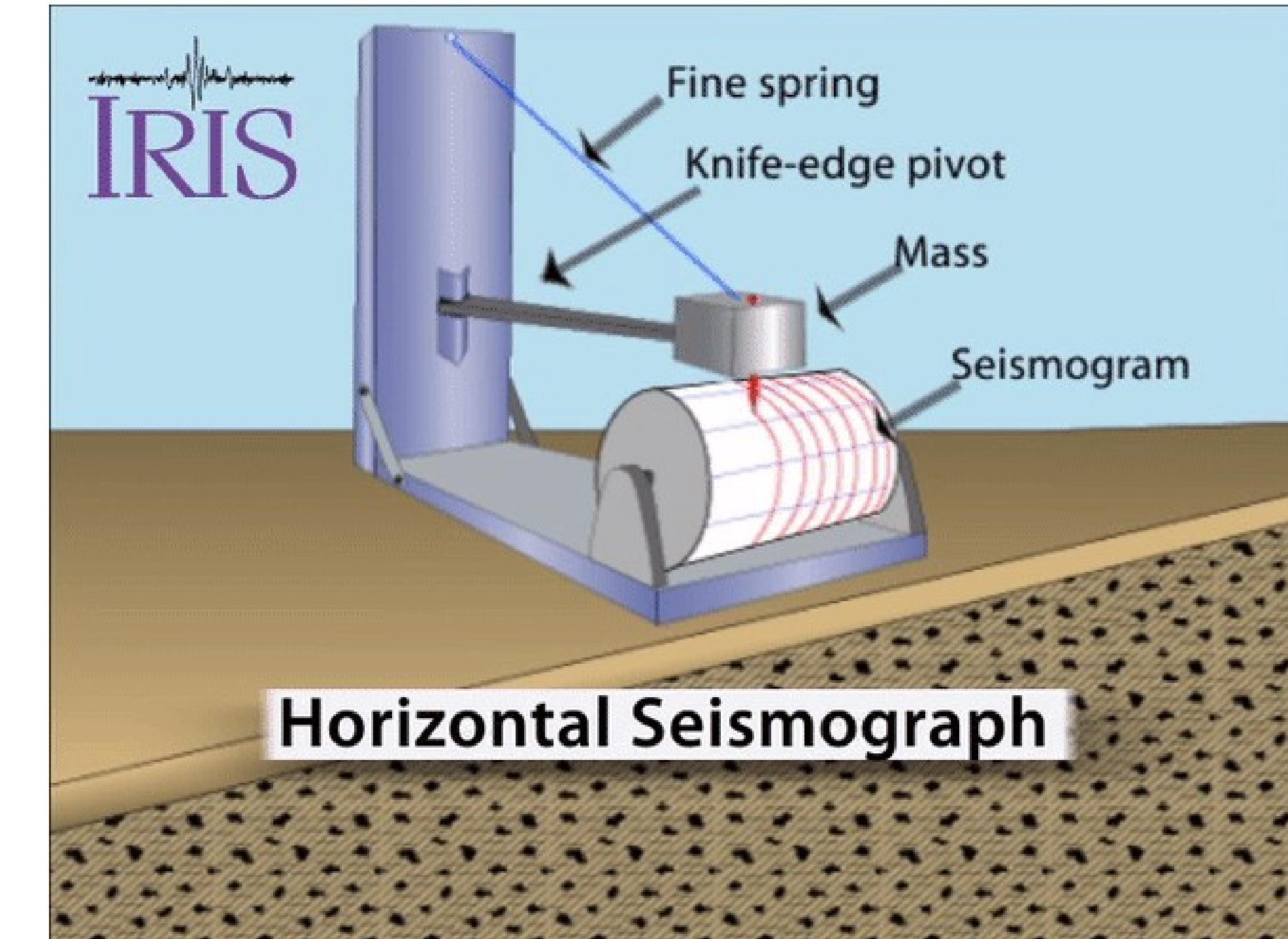
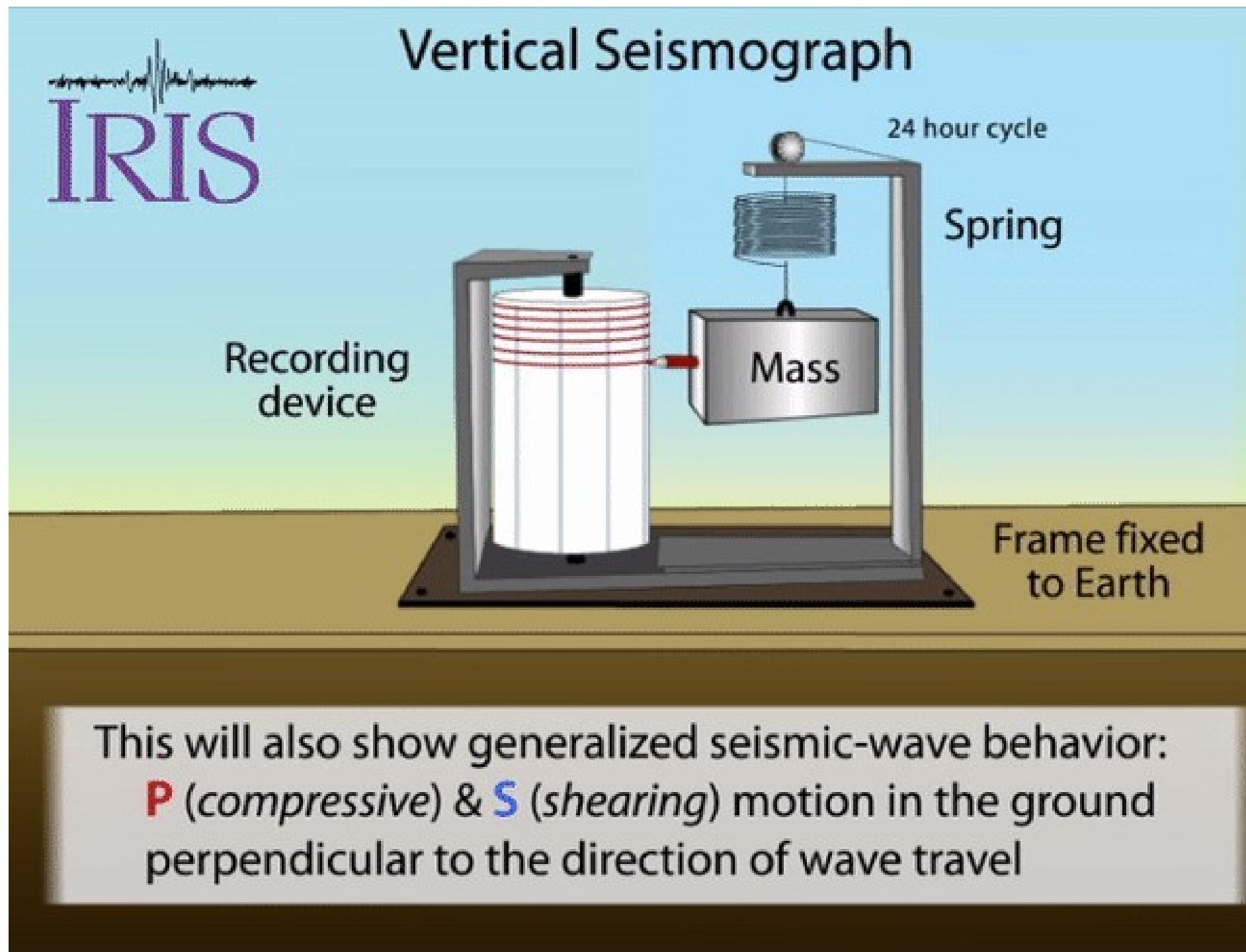


*First-order discontinuity in solid Earth*

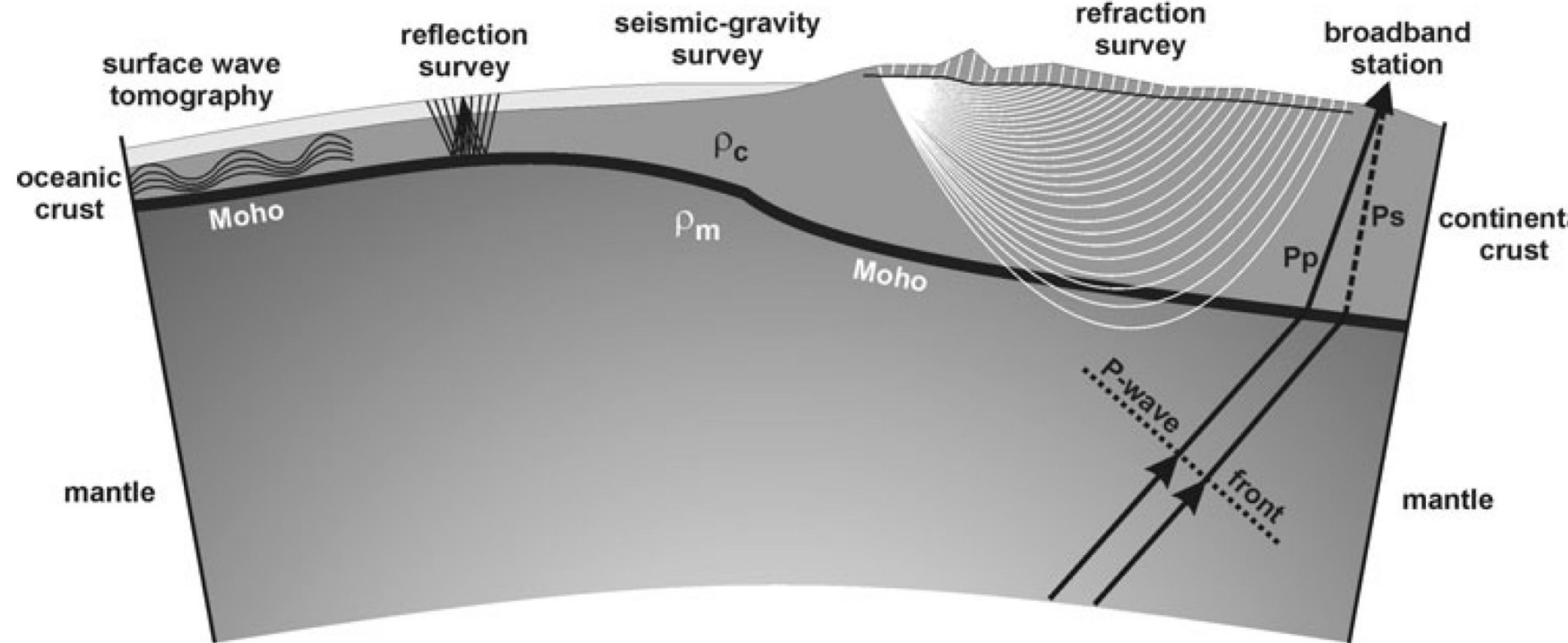
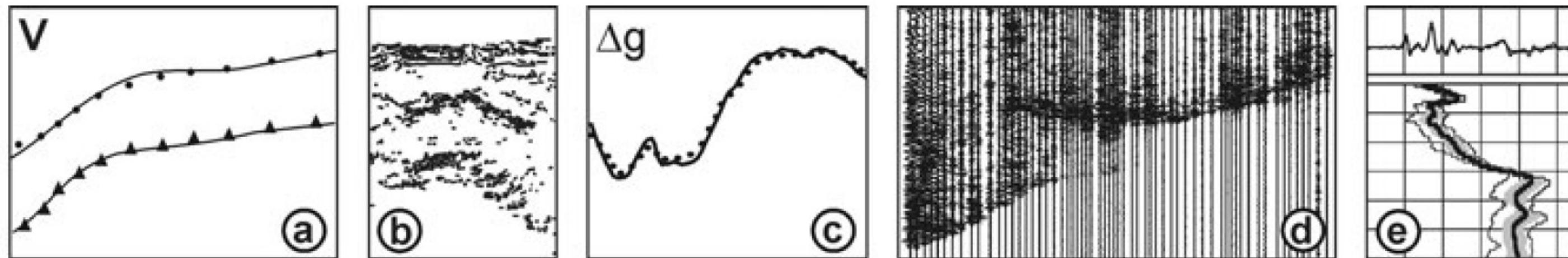
Reference 1D velocity model	P-wave velocity contrast across Moho
IASP91 (Kennett and Engdahl, 1991)	~20%
CM95 (Christensen and Mooney, 1995)	~15%
PREM (Dziewonski and Anderson, 1981)	~17%

Rabbel et al., 2013

# Observation: Seismogram (ground shaking)



# *Available seismic signals to image crustal structures*



Grad et al., 2009

Surface waves:

- , Rayleigh wave
- , Love wave

Ambient Noise Source: 5 ~ 40s

Earthquake Source: 20 ~ 80s

Body waves:

Near-field case:

Active Source: Reflection (20Hz)  
Refraction (10Hz)

Passive Source: Pg, Pn, PmP (5Hz)

Teleseismic case: Ps (1s)

SsPmp (2s)

