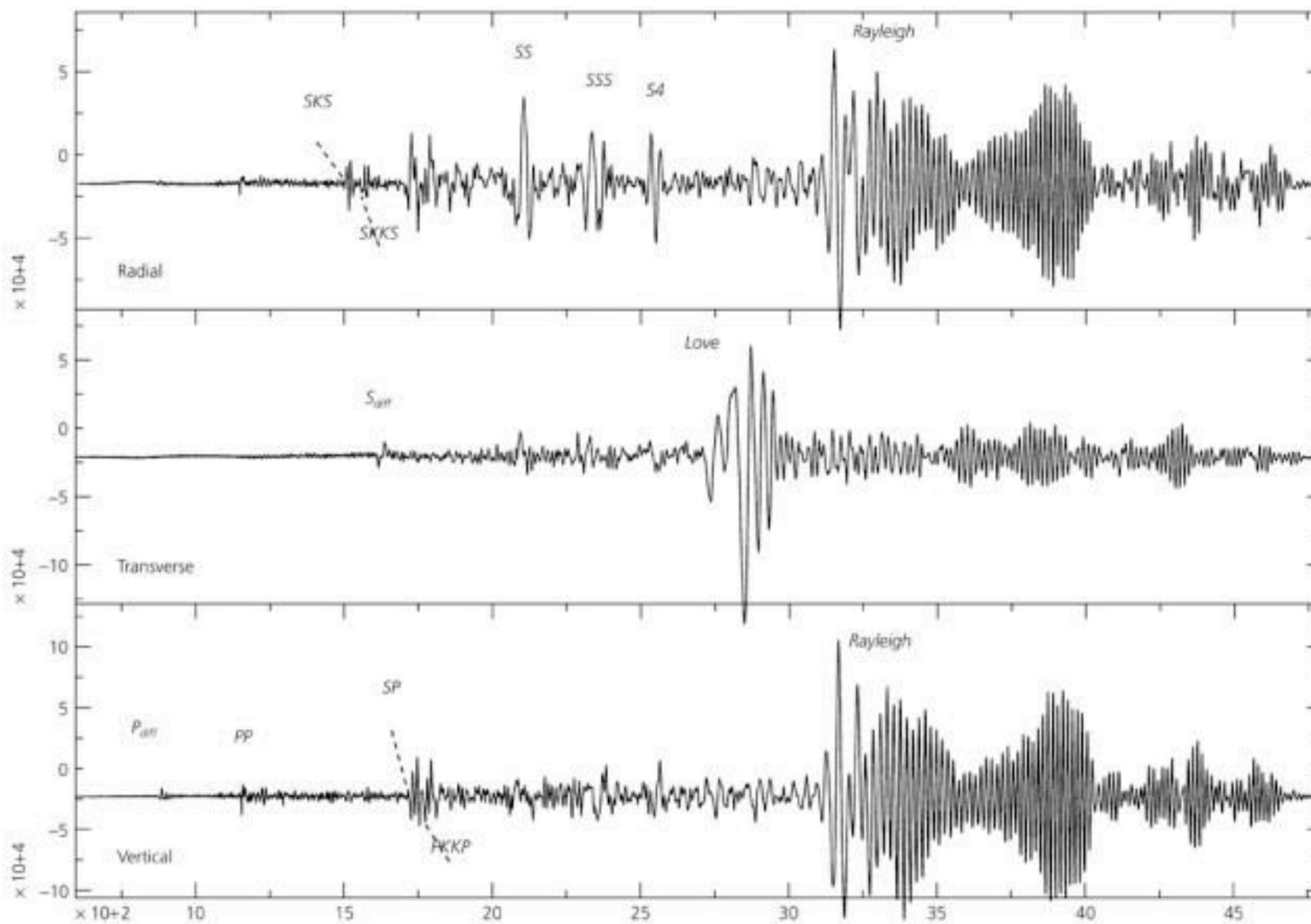


Ondes de Surface

Surface waves

Rayleigh
Love

Figure 2.7-1: Seismograms recorded at a distance of 110°, showing surface waves.

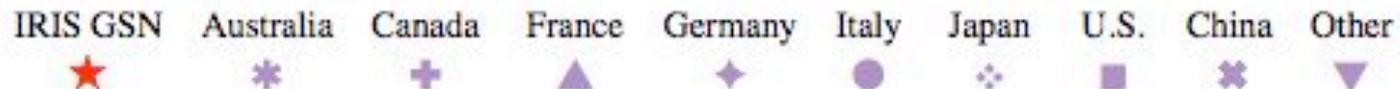
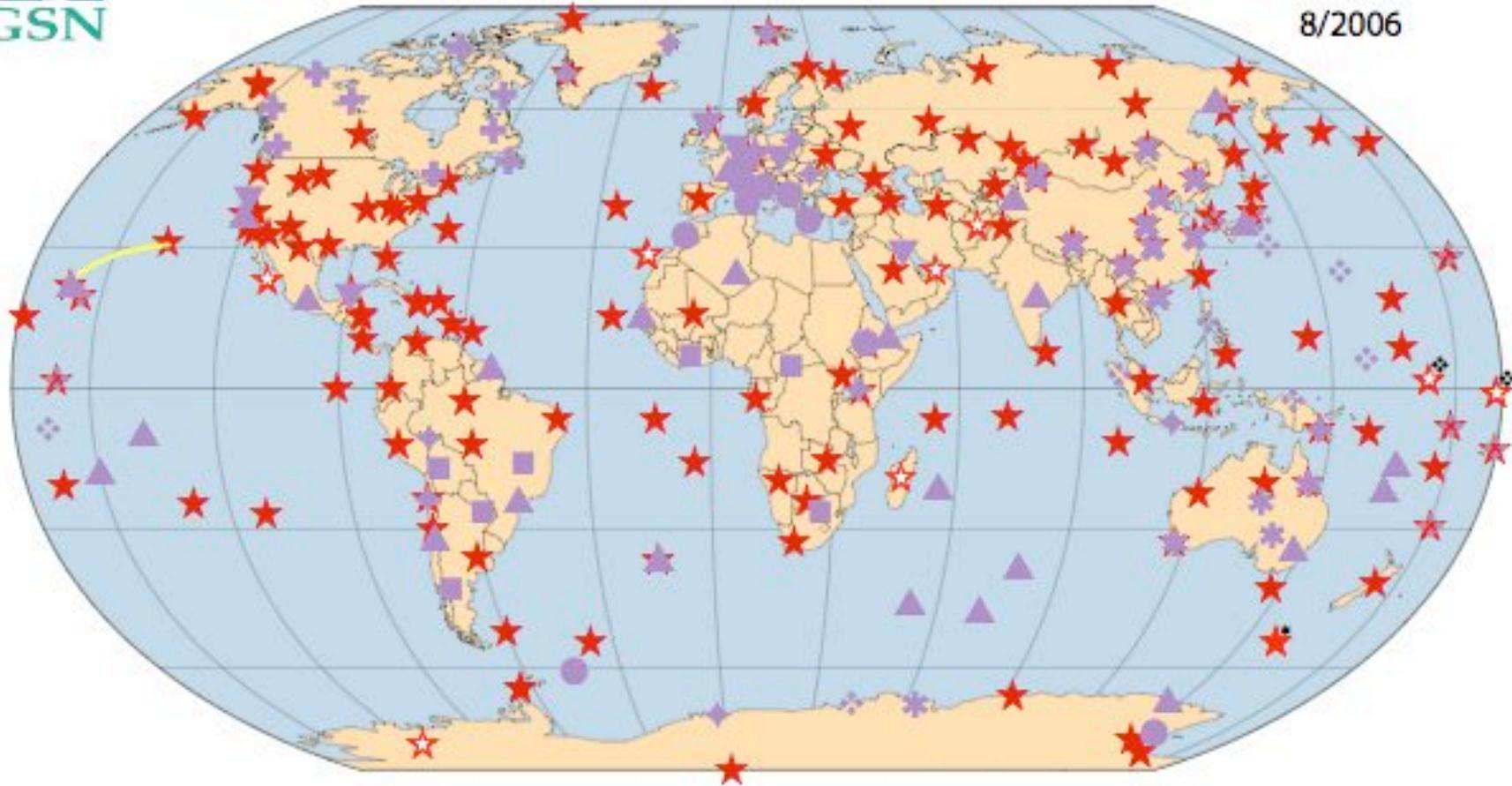


1960s-present: development of world-wide instrument networks



GLOBAL SEISMOGRAPHIC NETWORK & INTERNATIONAL FEDERATION OF DIGITAL SEISMIC NETWORKS

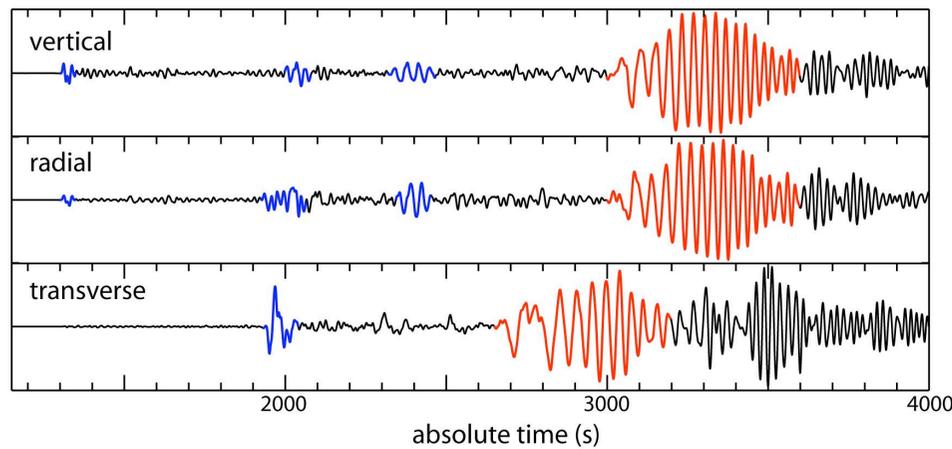
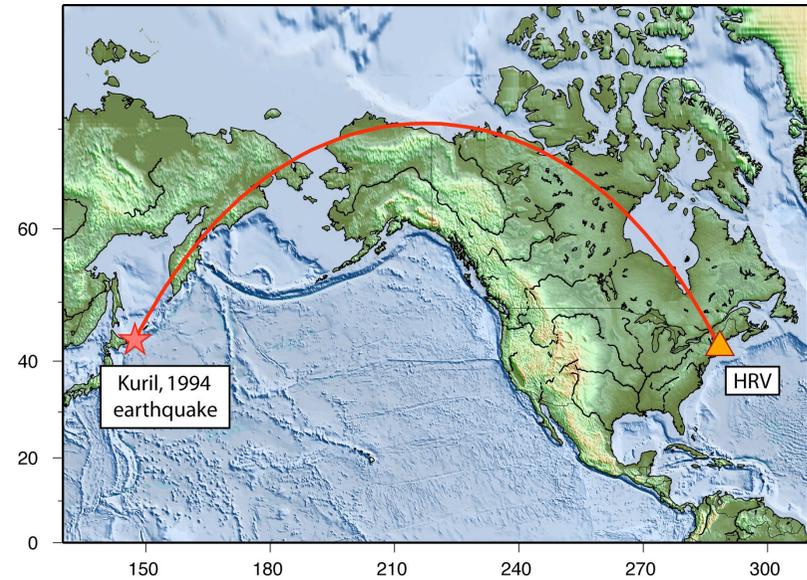
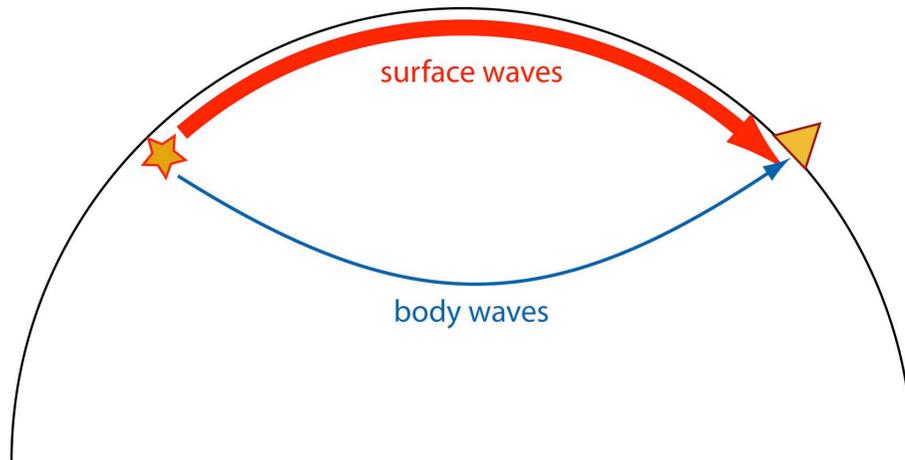
8/2006



surface-wave tomography

(from lecture of A. Levshin)

Seismic data

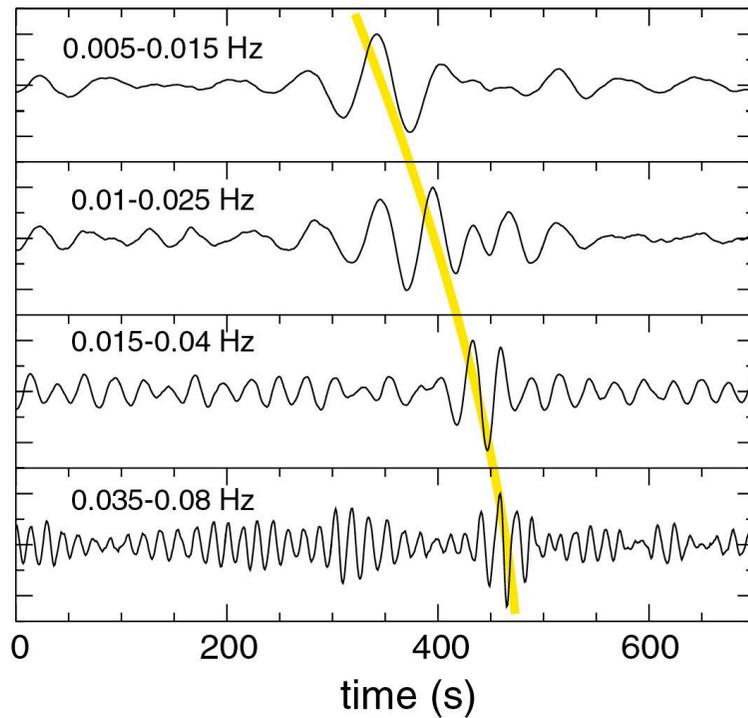
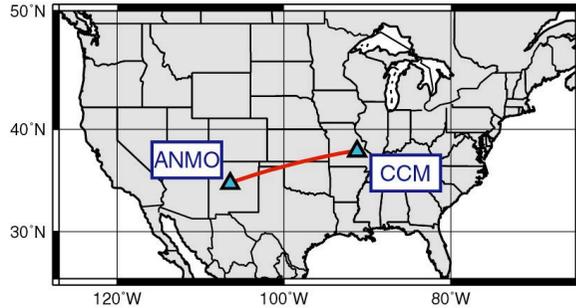


Body waves sample deep parts of the Earth

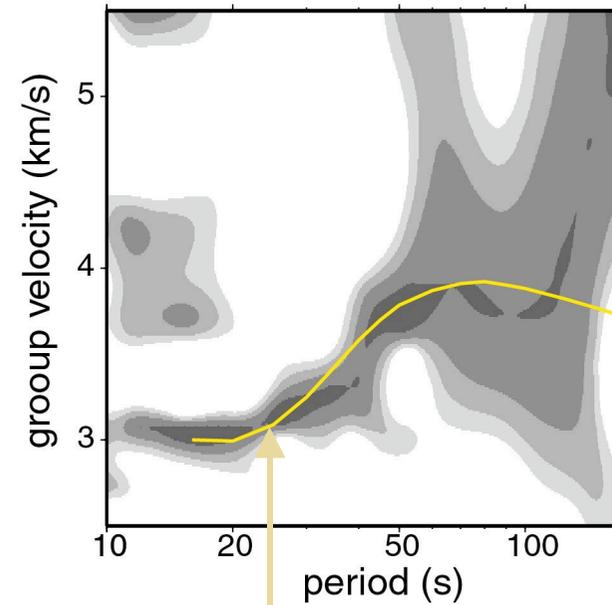
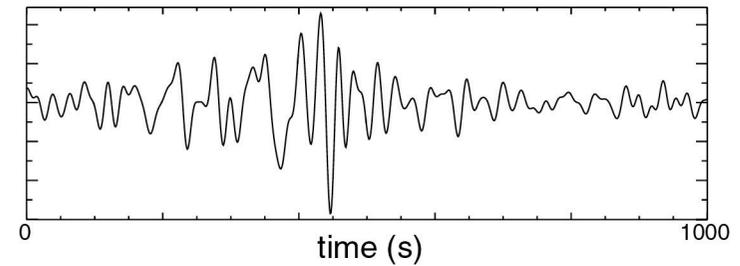
Surface waves sample the crust and upper mantle

Calculation of group velocity ANMO - CCM

(from Shapiro, 2006)

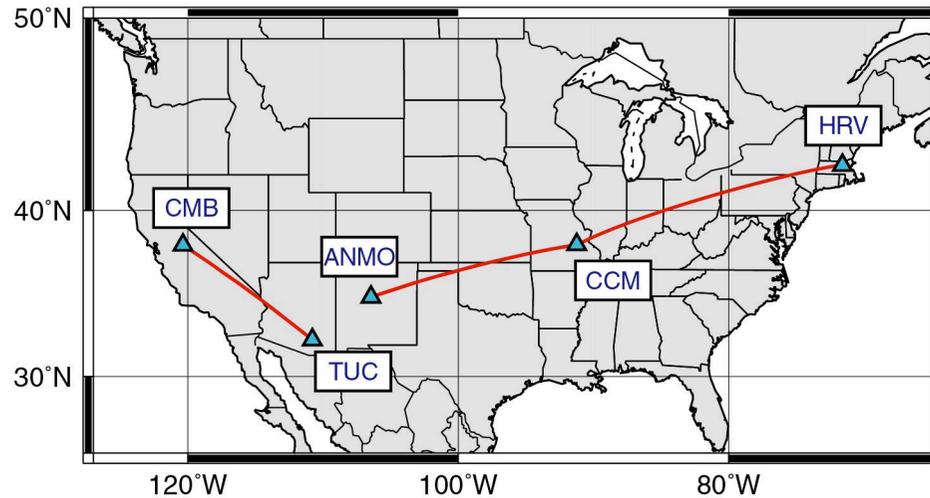


frequency-time analysis

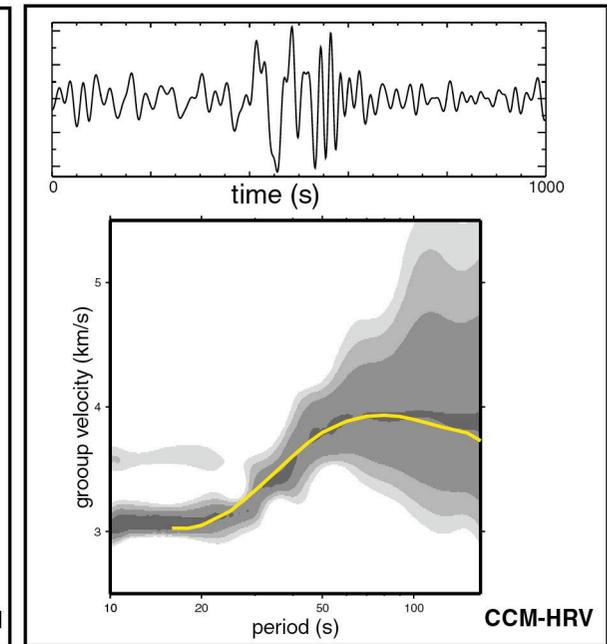
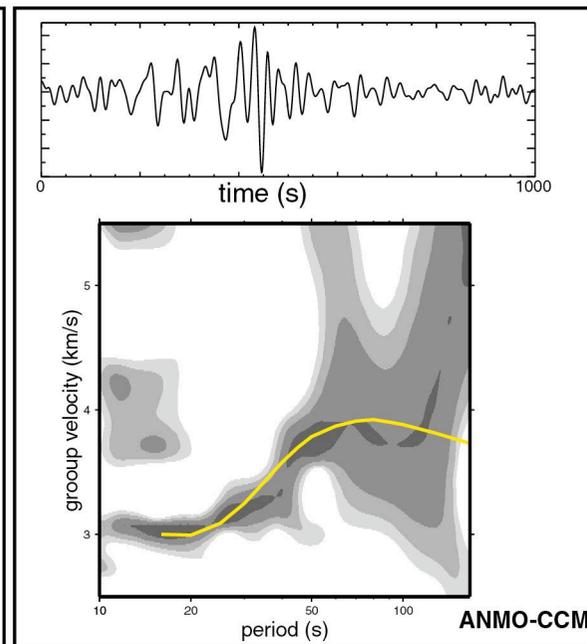
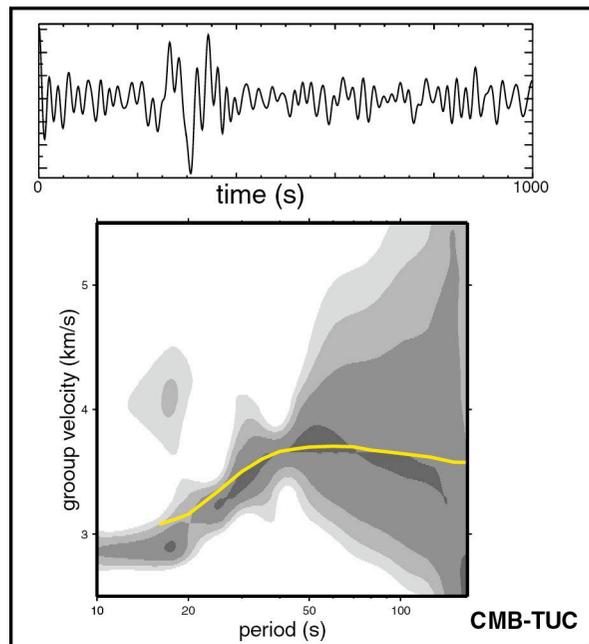


prediction from global group velocity maps of Ritzwoller et al. (2002)

Group velocity dispersion curves at US stations



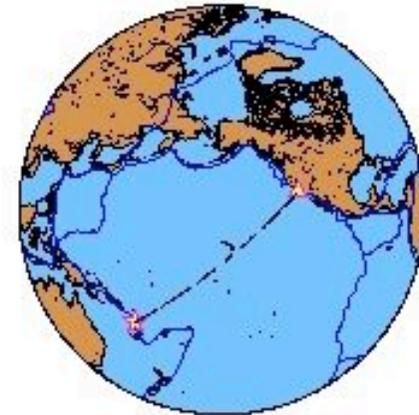
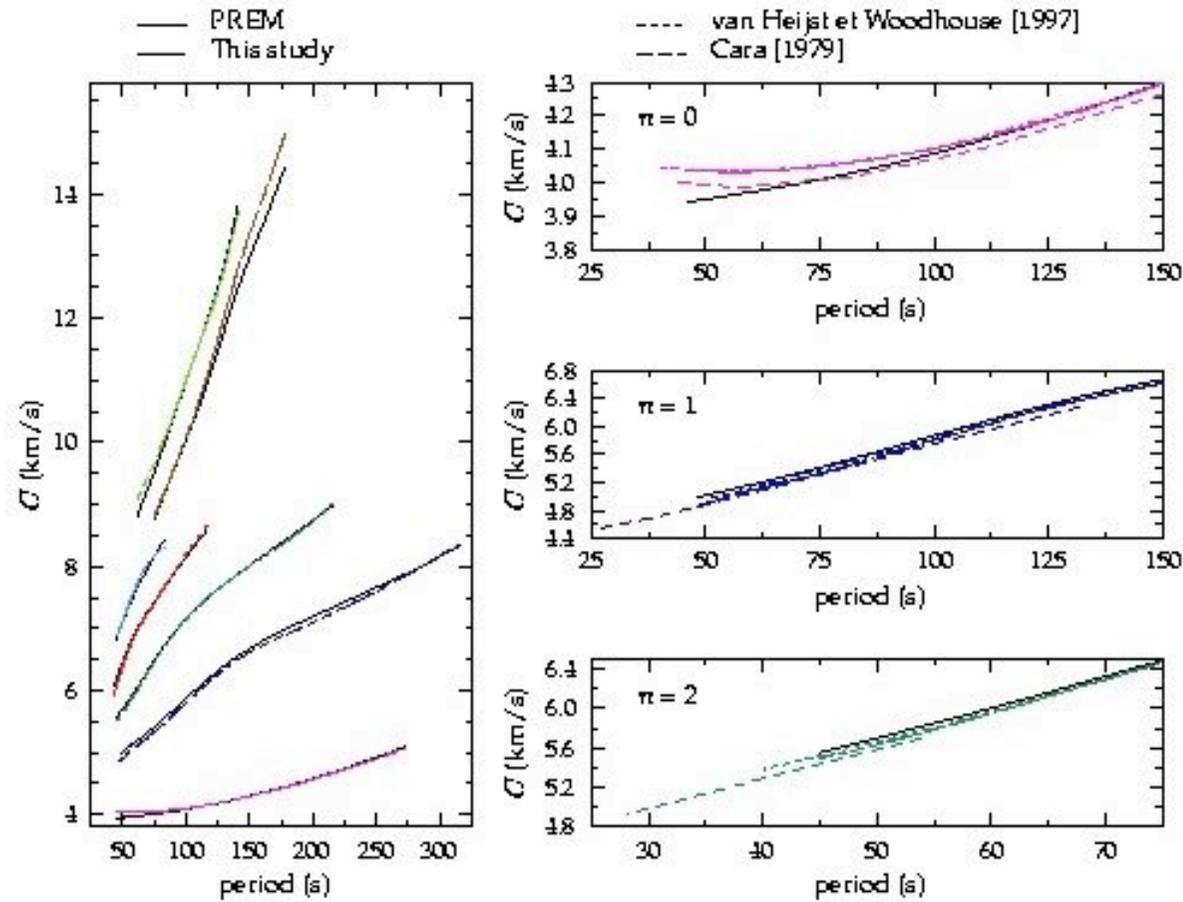
frequency-time analysis
continuous vertical
component records
(Shapiro, 2006)



Phase velocity of surface waves

ÉRIC BEUCLER

2002



Comparison with previous results along the Vanuatu-California path.