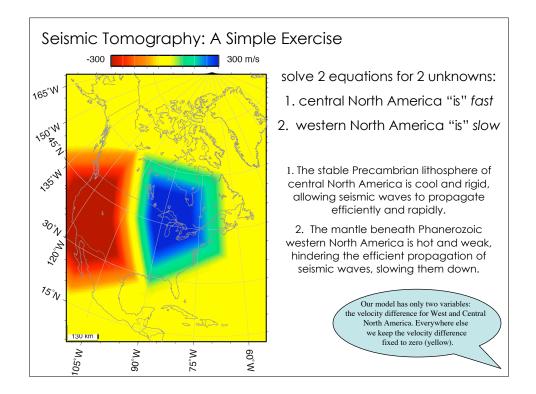
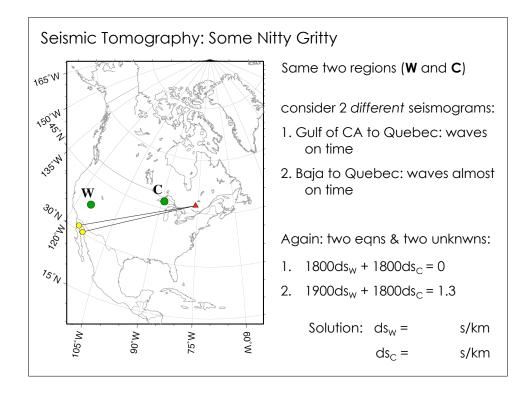
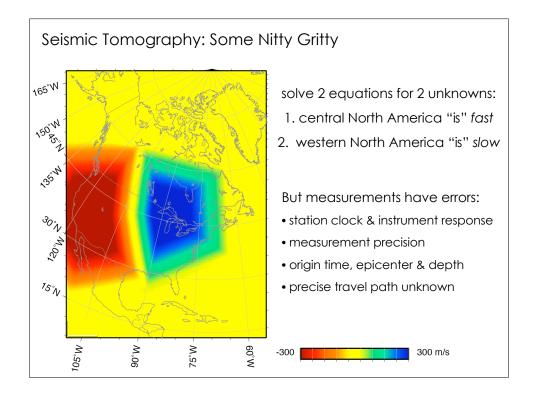
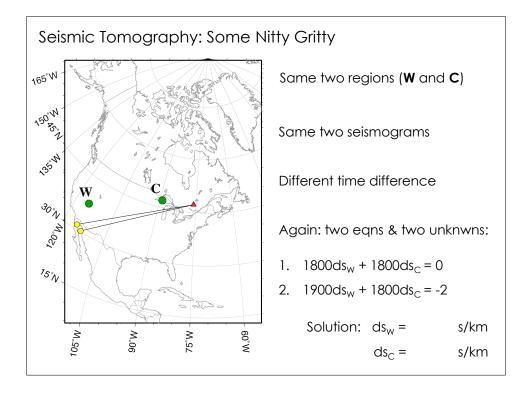


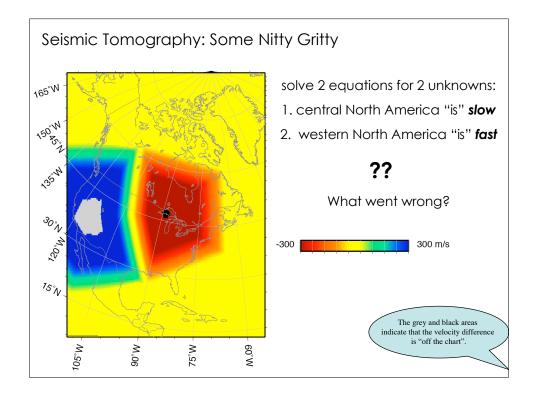
Seismic Tomography:	r: A Simple Exercise	
	00 km dt = 0 s x _w = x _c = 1800 km 00 km dt = 52 s x _w = x	
Reference slowness s	s ₀ = 0.222 s/km = 1/(4.5 km/s)	
$x = vt \rightarrow x/v = t \rightarrow xs$	= t, with s = 1/v	
distance*slowness = t distance*slownes	time → ss difference (ds) = time difference (dt)	
Two independent measurements (dt ₁ and dt ₂) yield two equations to be solved for two unknowns (ds _w and ds _c):		
1. 1800ds _w + 1800ds _C	_c = 0	
2. 4000ds _w	= 52 Solution: ds _w = s/km	า
	ds _c = s/kn	n

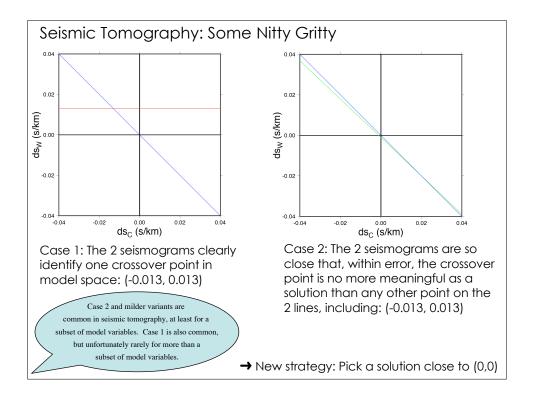


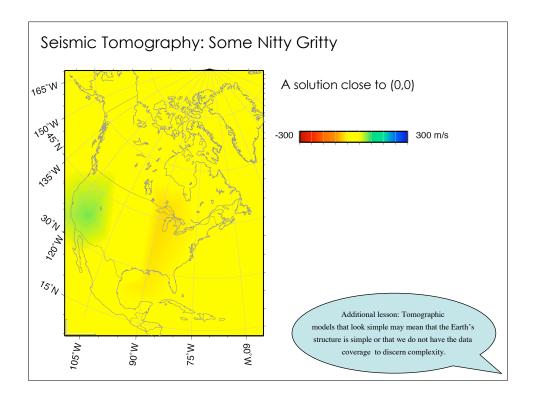


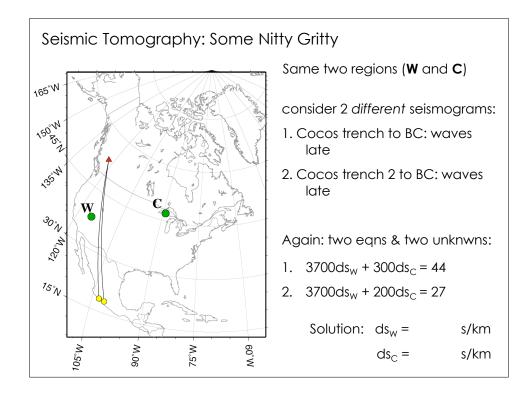


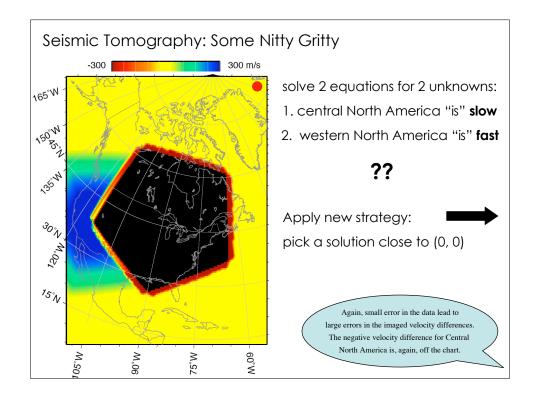


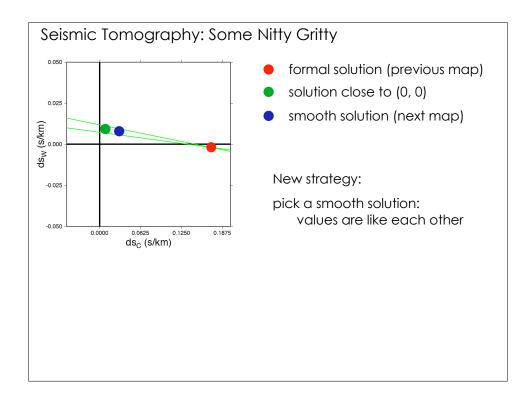


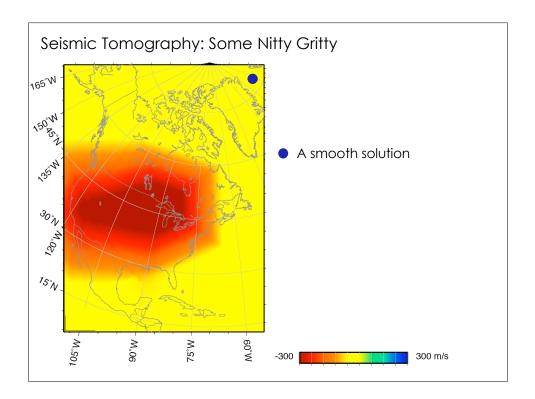


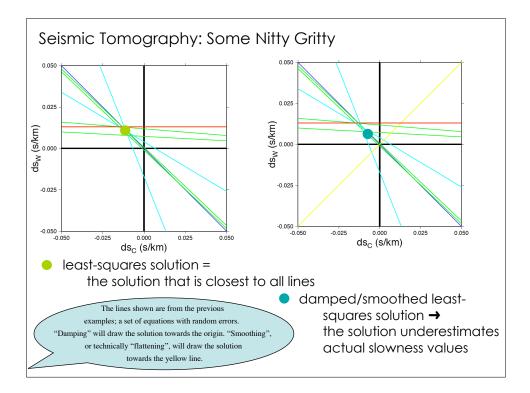


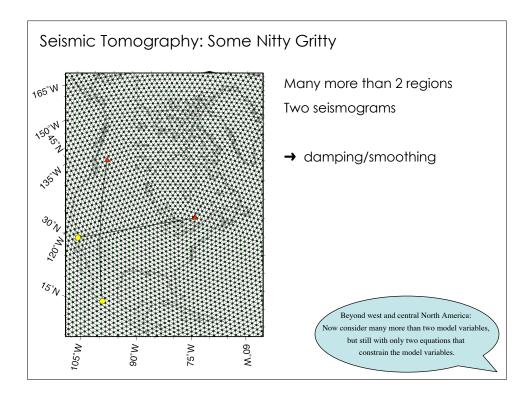


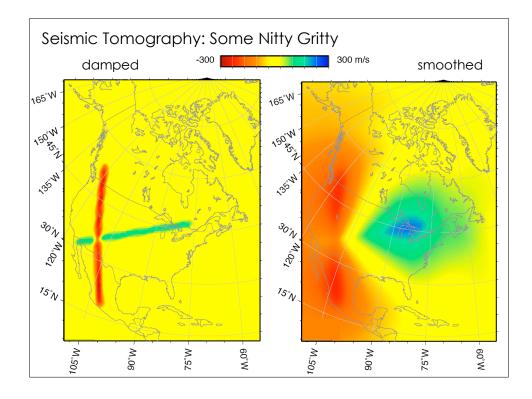


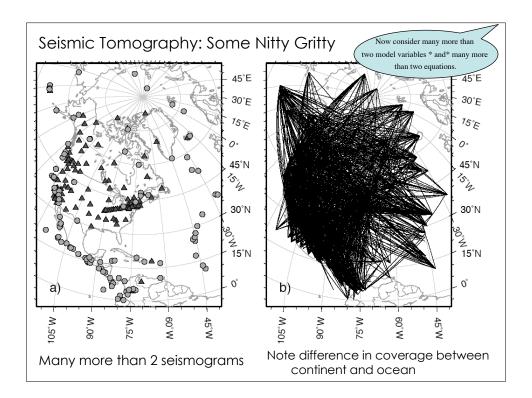


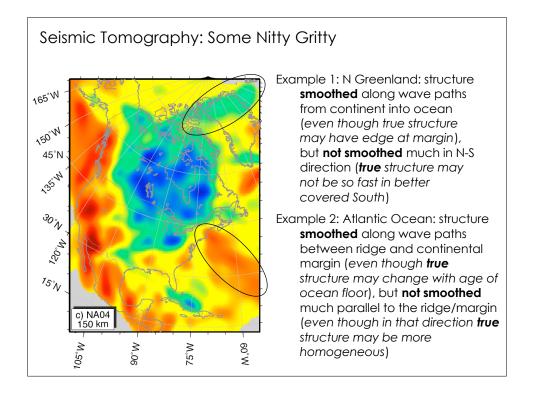


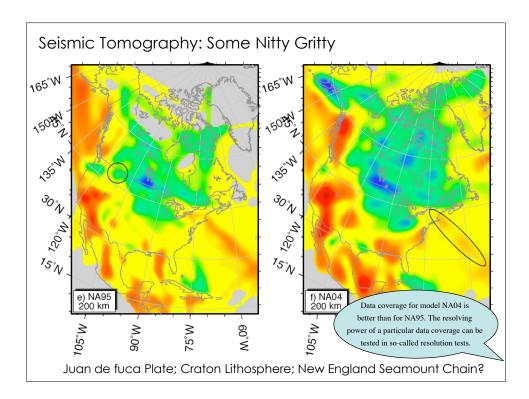


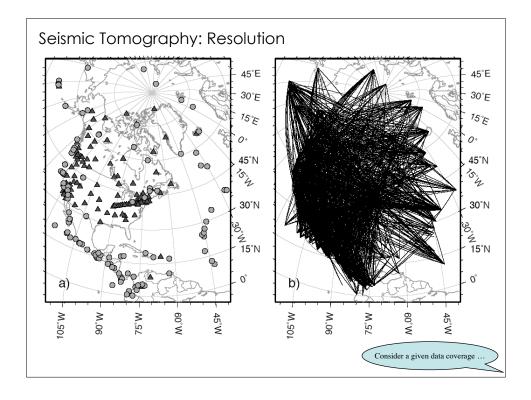


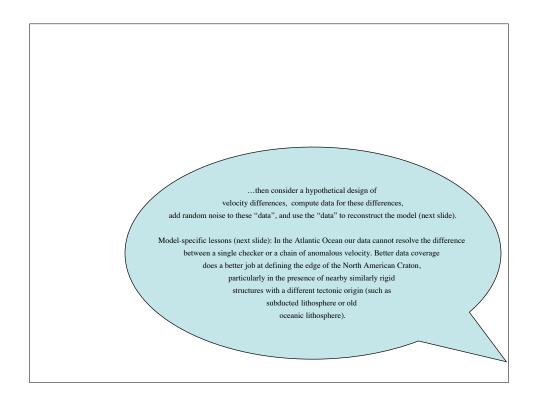


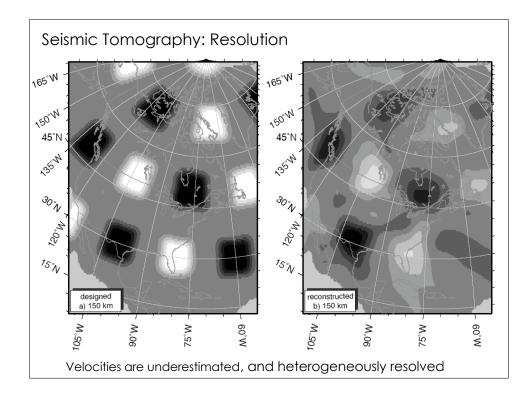


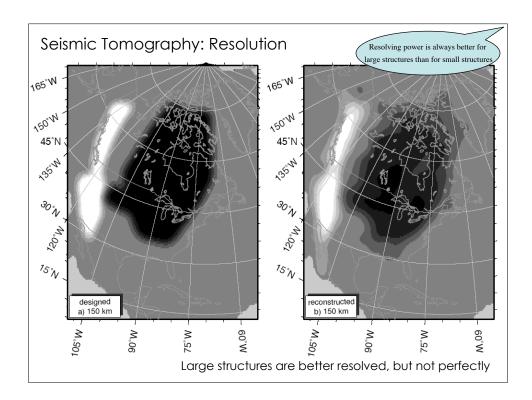


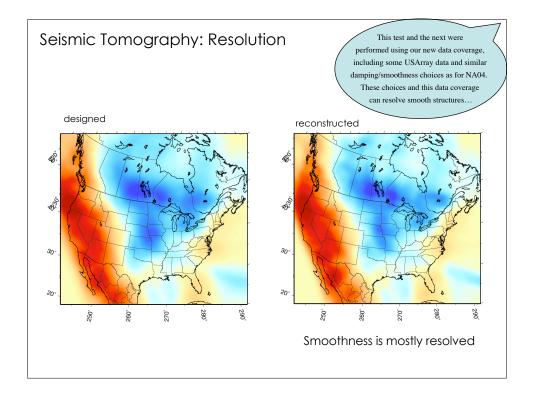


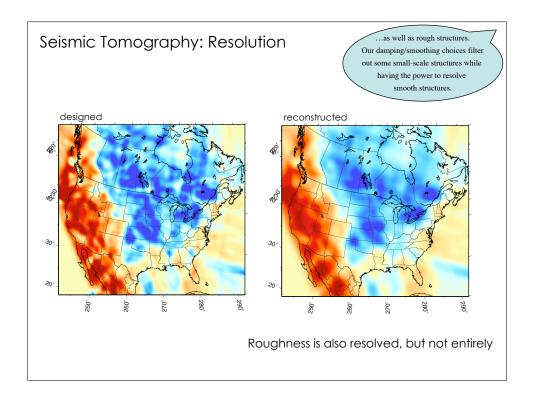


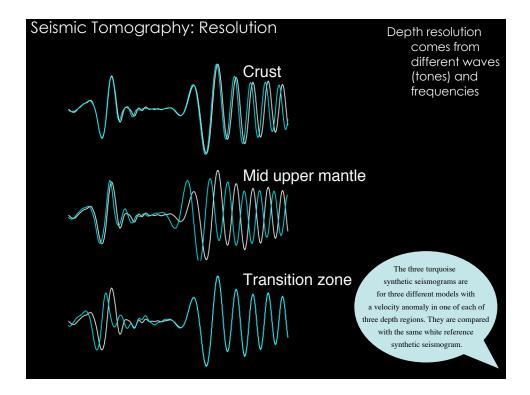


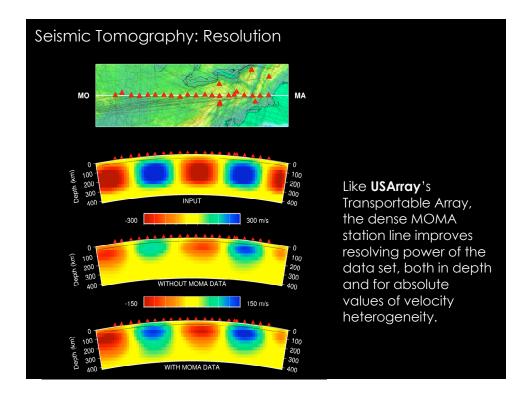


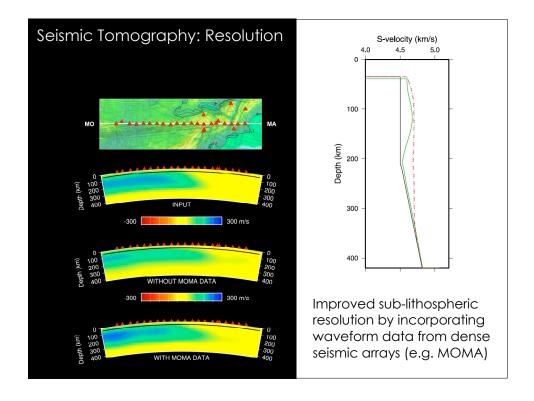


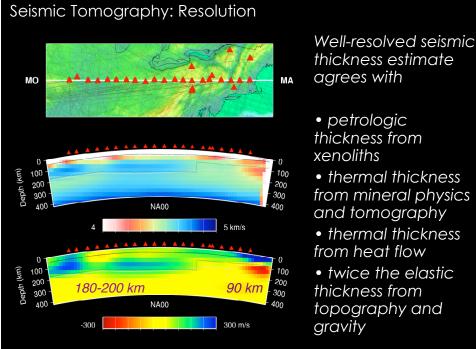






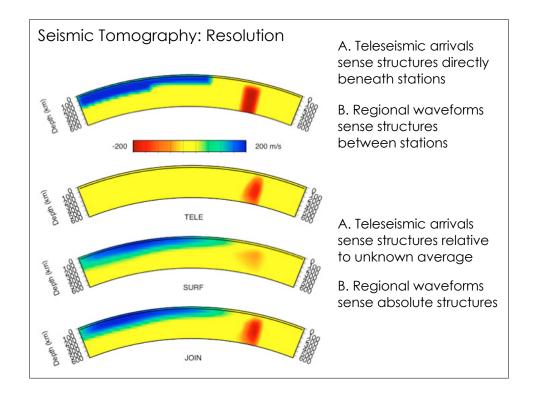


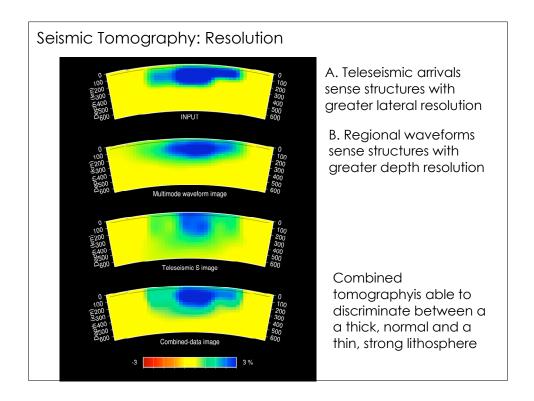


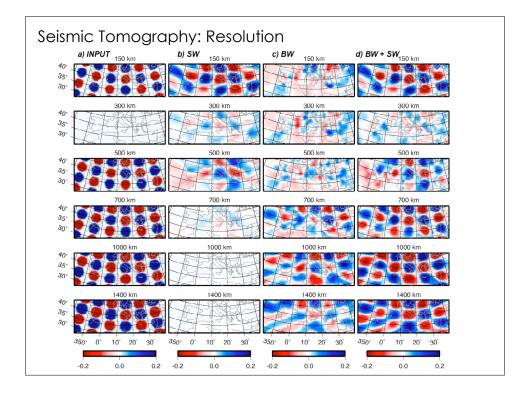


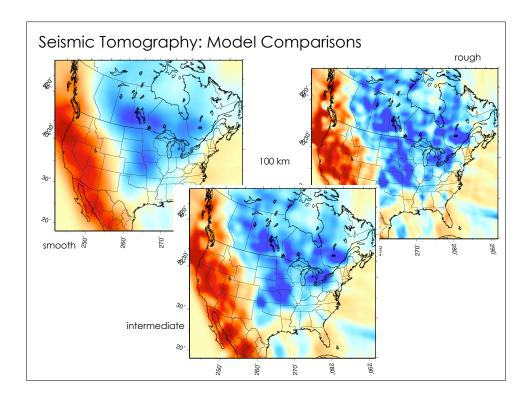


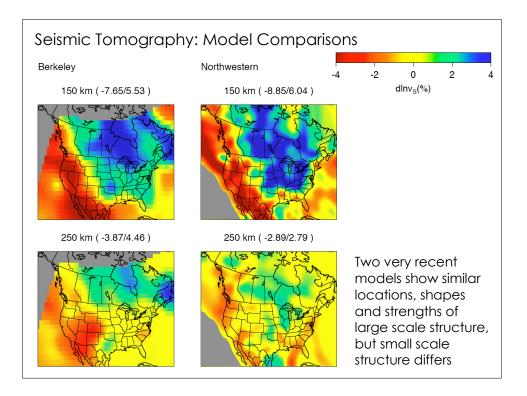
• twice the elastic thickness from topography and gravity

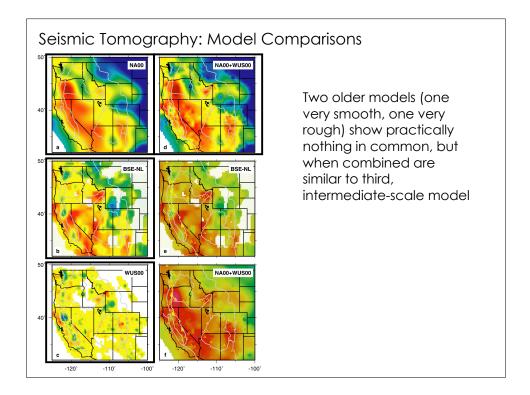


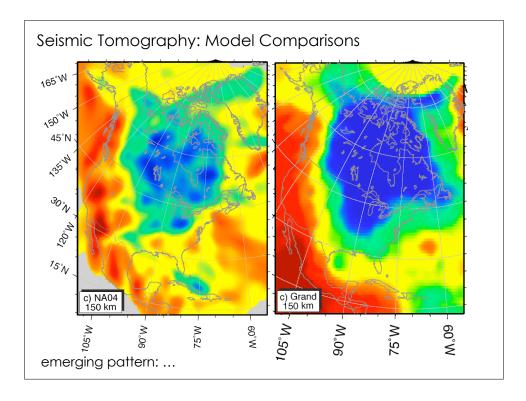


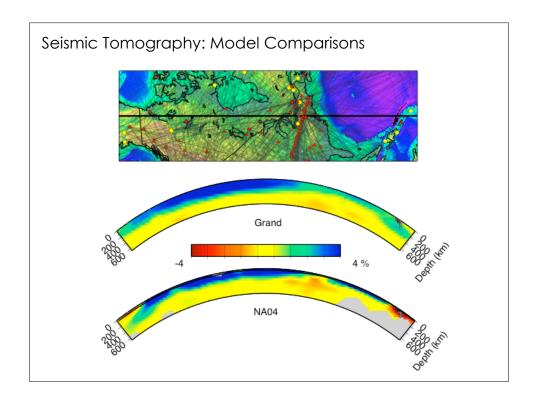


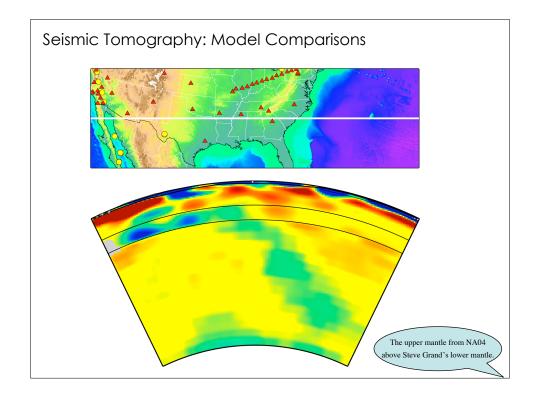












Seismic Tomography: Tips

When seriously interested in a tomographic model:

- 1. Read the associated peer-reviewed publication
- 2. Examine the accompanying resolution test results
- 3. **Compare** the model with other models for the region
- 4. **Discuss** the model and its details with your seismology colleagues and or its authors

The End