

 **British Geological Survey**
NATURAL ENVIRONMENT RESEARCH COUNCIL

Applied geoscience for our changing Earth


Seismic Waves


Paul Denton
British Geological Survey

Pokhara International workshop


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Computer Simulation M8.0 San Andreas



 **SDSC**

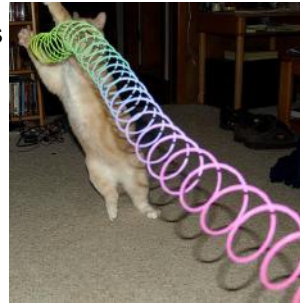
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Practical waves

- Use slinkies to demonstrate P and S waves
- Have slinky races
- Use a box file +5 slinkies to talk about earthquake mechanisms

- Do people waves for P and S
- Have races and talk about solids and liquids



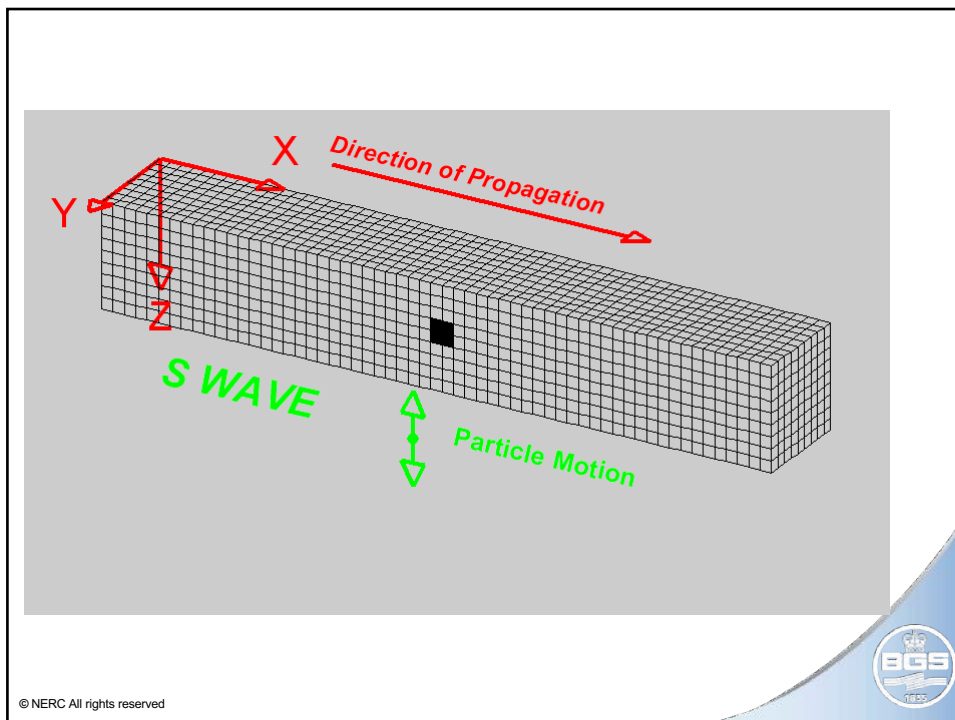
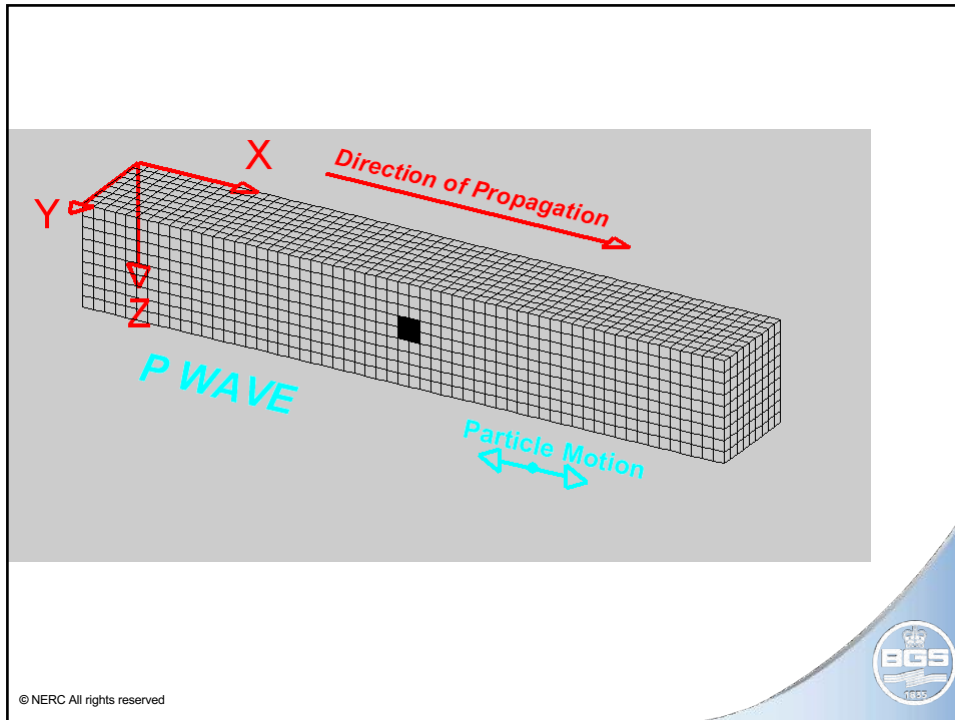
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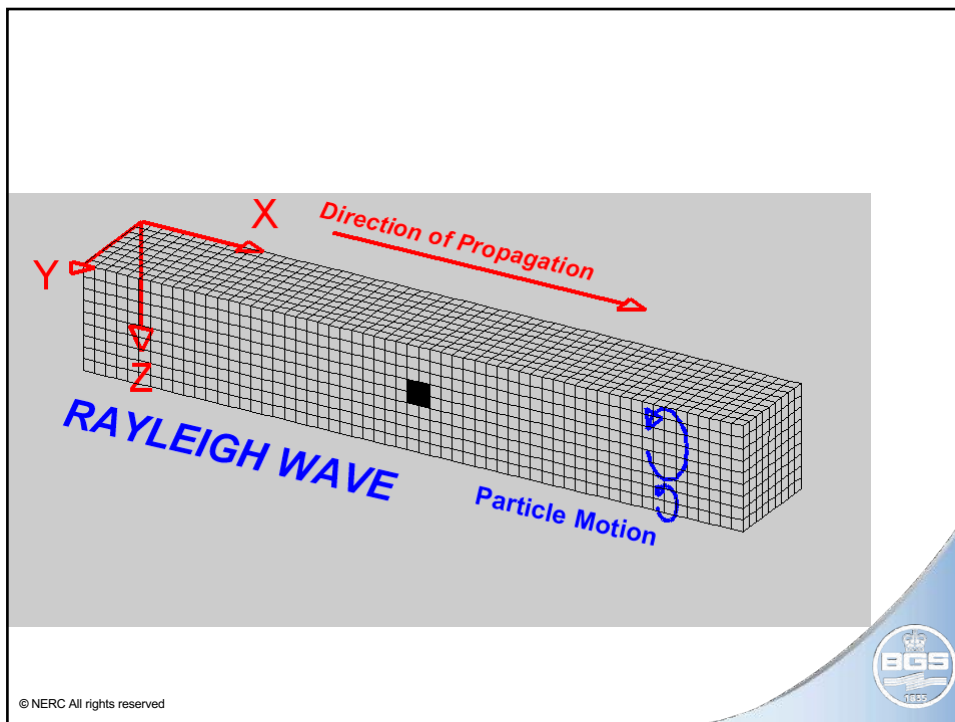
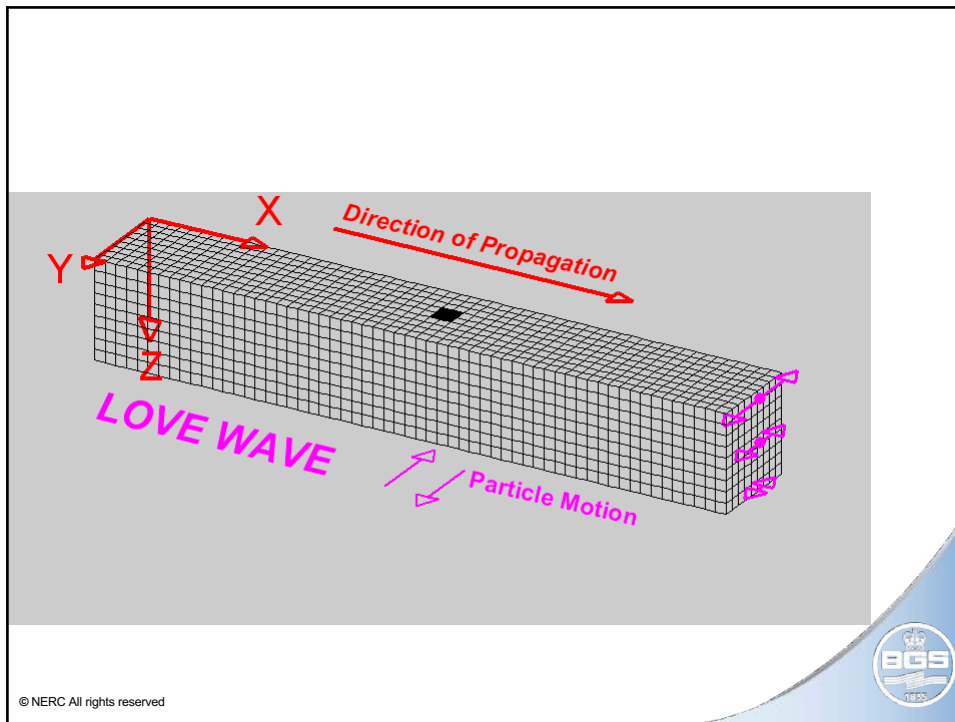
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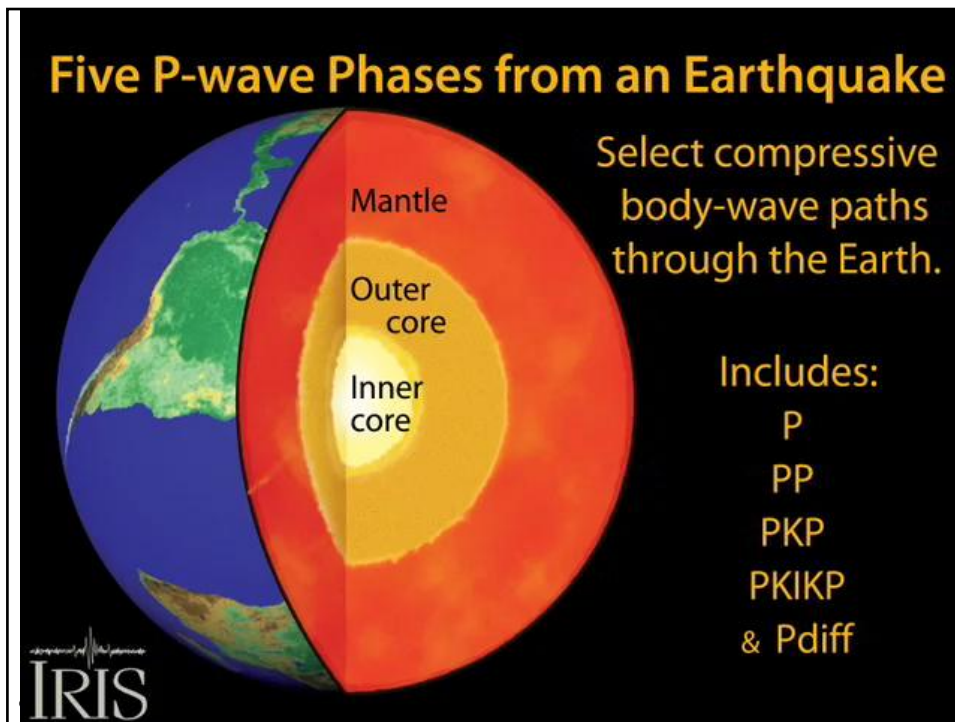
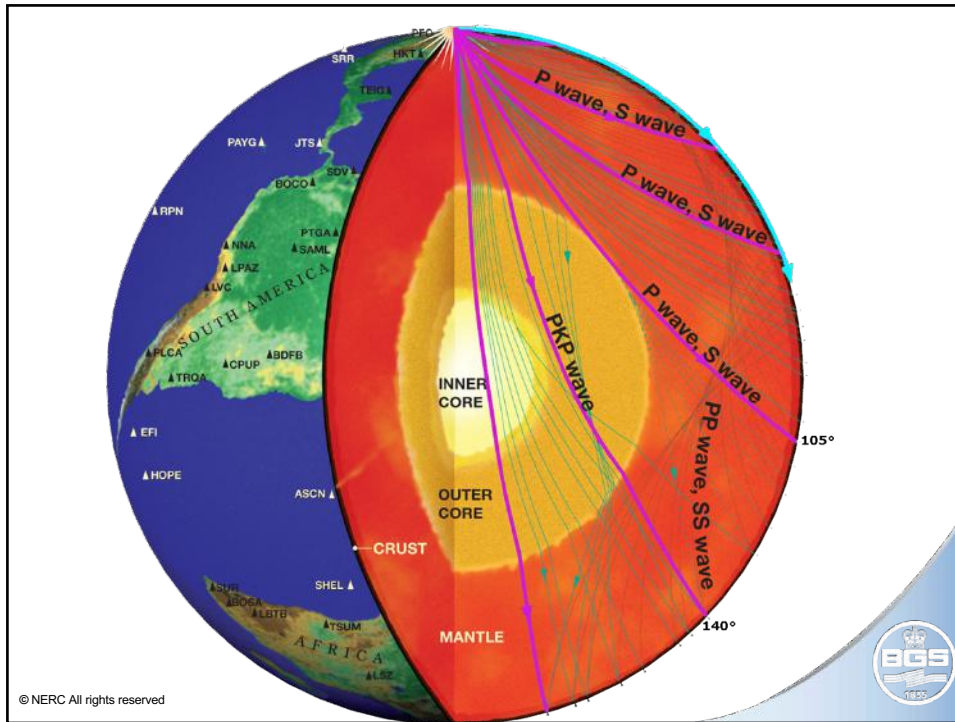


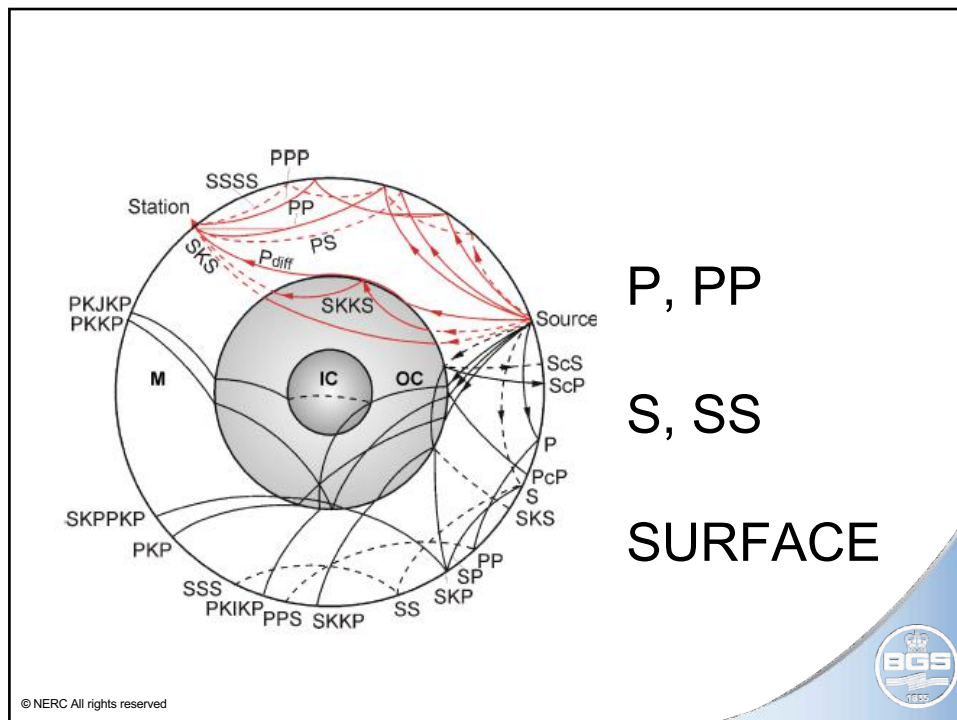
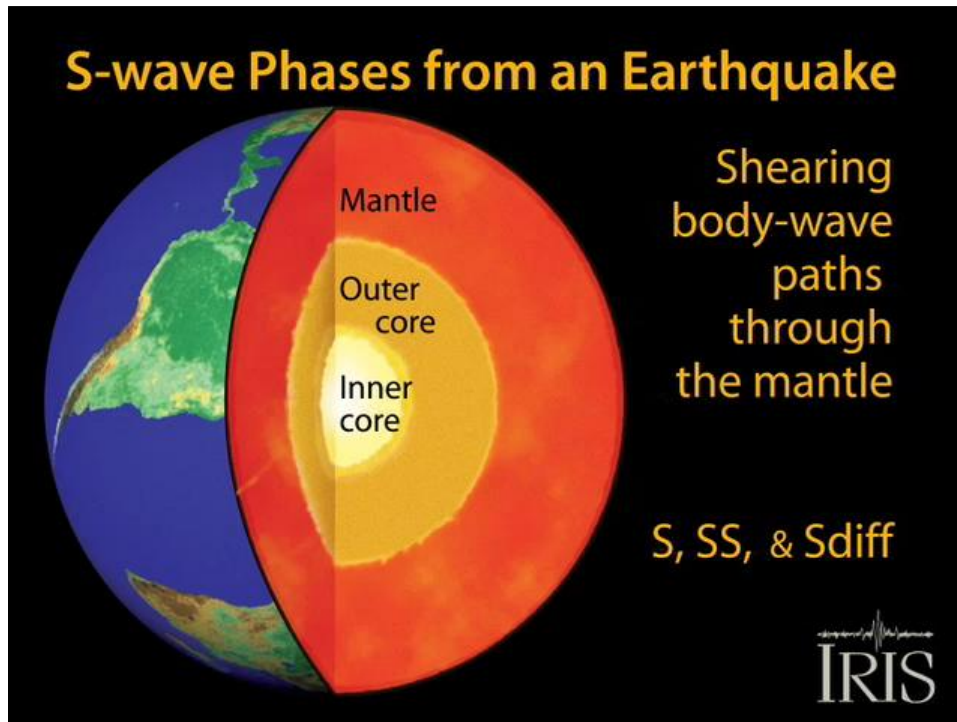
TALK 3: Seismic Waves - Paul Denton



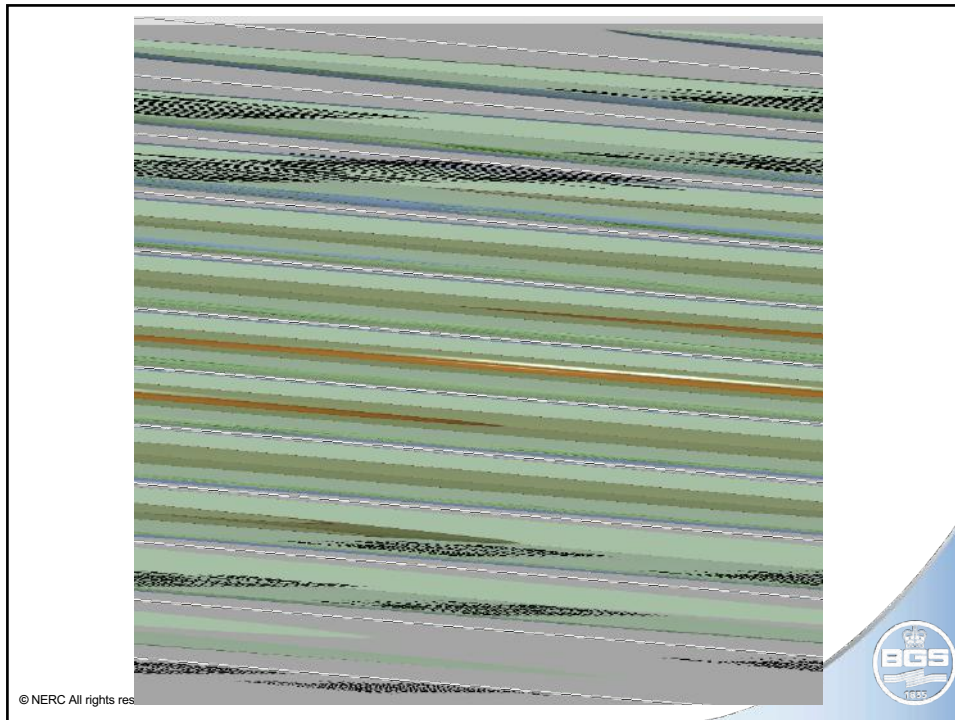
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2011 Tohoku Quake & Tsunami 2011-03-11 05:46 UTC Mag: 9
Rotate Earth by dragging on it. Press to create an earthquake.

Seismograms

Distance (degrees)	Station
0	IMJO
30	GUJM
45	LSA
60	APF
75	KIEV
90	WCF
120	GTBY

Time (minutes): 0, 5, 10, 15, 20, 25, 30, 35, 40

Drag to Move Earth

- Hypocenter
- P waves
- S waves
- Surface waves

Seismic Waves

IRIS
Learn More

A visualization of earthquake waves traveling both through Earth's interior and radiating outward on the surface. What you will see is explained [here](#).

Press the play button to begin.

Controls

Message: Press play to start.

elapsed time: 00:00:00

speed: 20x

- cross section waves
- label waves on
- change view direction
- load new quake
- help
- mute sound

* misc:

Favorite Controls

Like Tweet Share

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