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Loma Prieta, 1989





Pt Reyes, 1906

Caracus, Venezuela





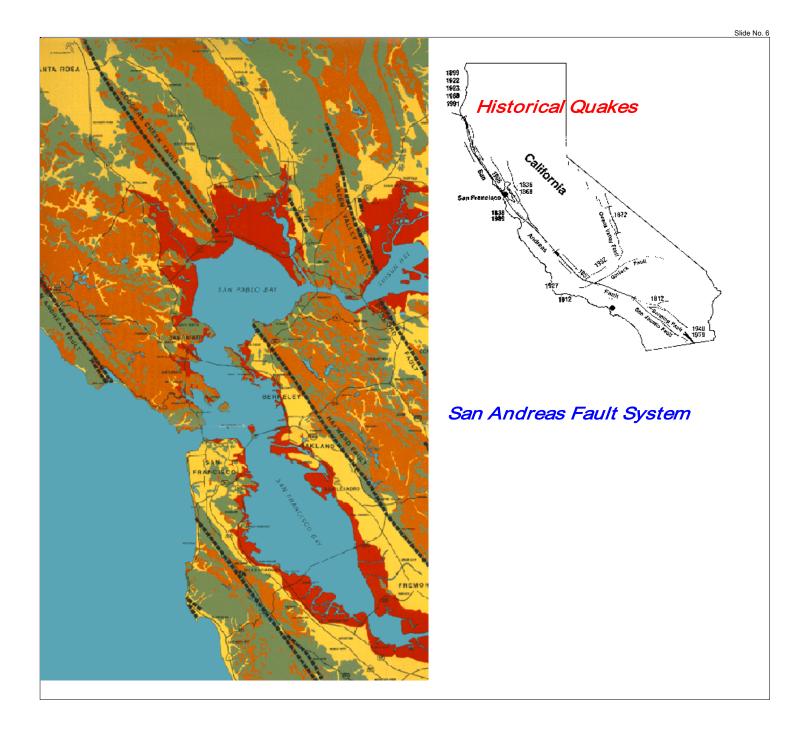
Neckering, Australia, 1968



What occurs prior to an earthquake?
What happens during an earthquake?
What can you see after an earthquake?

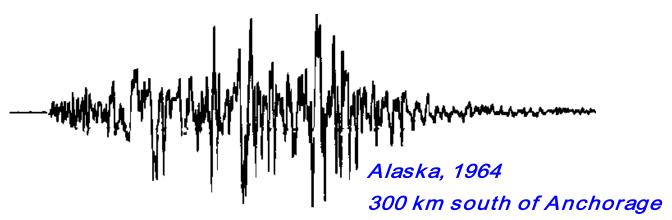


Kobe, Japan









P waves

push - pull or compressional waves

primary

S waves

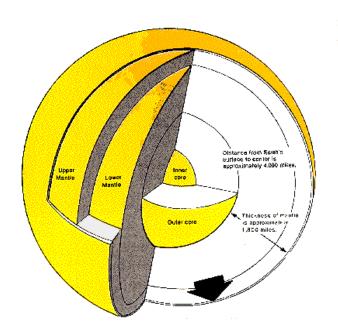
shear waves, secondary

Raleigh waves, surface

others

60+ types of wave motion

Slide No. 9

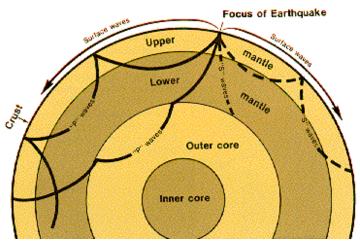


Seismic waves can help determine the divisions of the internal Earth

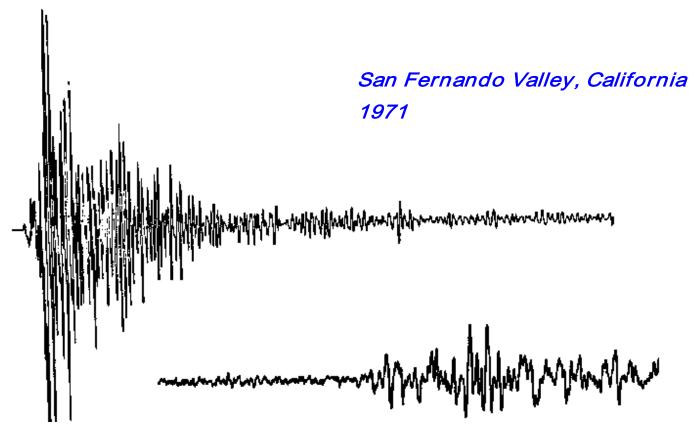
Focus - Point of displacement

Epicenter - Point of surface of

Earth above focus



Seismograms



Hollister , California

Richter Magnitude Scale

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1.0 = small blast at construction site , 6 oz of TNT
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4.5 = 32 tons of TNT

7.5 = 1,000,000 tons of TNT

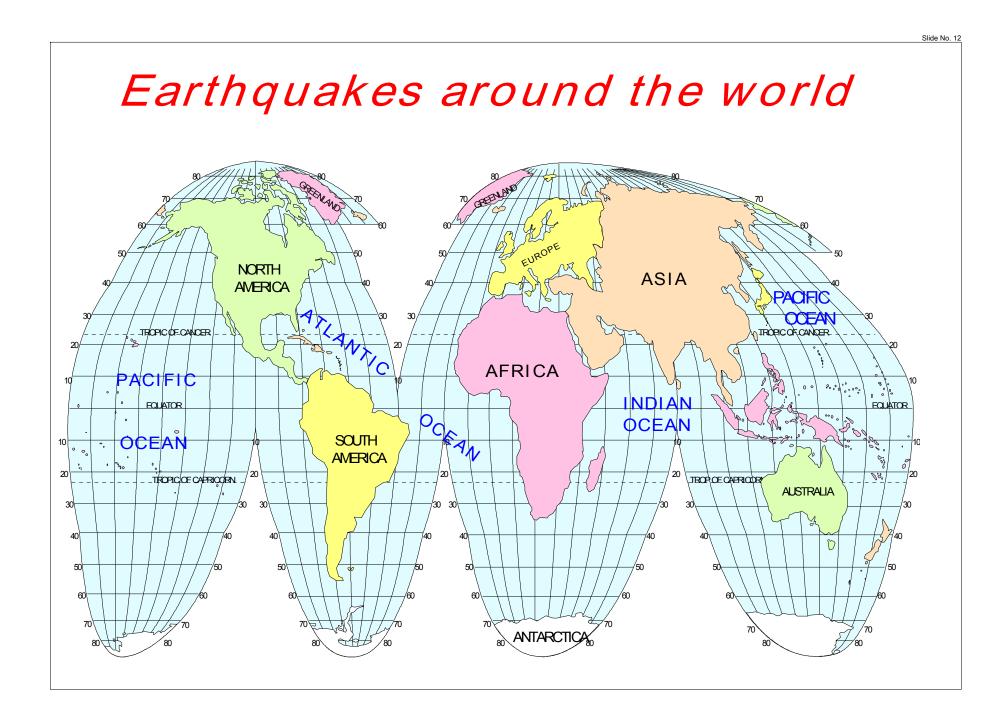
12.0 = 1,000,000,000 tons of TNT

Mercalli Intensity Scale 1-XIII

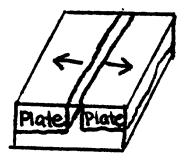
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|| = feeble, for sensitive people only
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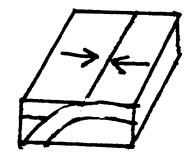
VI = strong, trees sway, objects swing

X = disastrous, ground cracks badly, buildings destroyed and railway lines bent



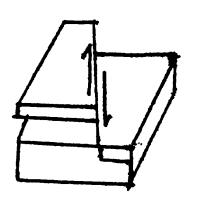
Diverge







Transform



Types of plate boundary