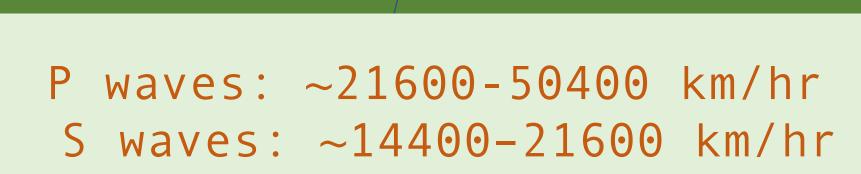


2011 Tohoku Earthquake

How fast does earthquake travel?

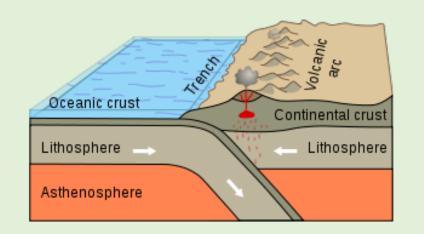


Boeing 747: ~920 km/hr

Event Date: March 11, 2011

Large amount of energy build up

The pacific plate is sliding underneath the continental plate of Japan and building up a tremendous amount of energy.



Tension build up for a Geology -5 mins Conference in Toronto



Tōhoku quake begins

The earthquake begins on local time 14:46:24. The subduction zone releases tremendous amount of energy and was recorded as a magnitude 9.1, the largest in Japanese history.



00:00:00 Takes off from Chicago

The earthquake lasted 6 minutes

The earthquake caused one of the largest tsunami and history. The amount of energy released by the quake can power the entire City of Los Angeles for an year.



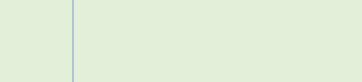
5 mins

Looking out the window and see some clouds

Waves travel across the world

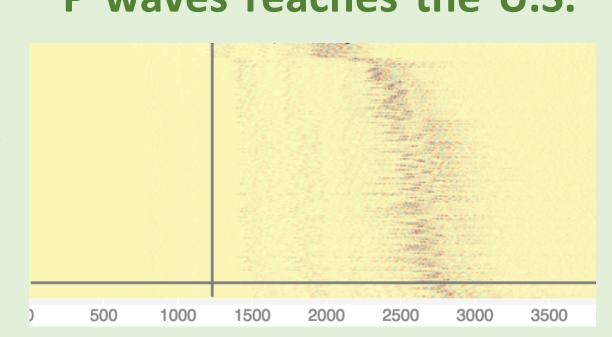
Earthquake creates two different form of waves, p waves and the s wave. P waves is caused by compression of the earth and S waves is the shear motion. It travels through the earth's surface, mantle, and the core.





P waves reaches the U.S.

After about 18 minutes, transportable arrays in the U.S. recorded the Primary waves..



15 mins Reaching cruising altitude of 35,000 feet



S waves hit the U.S

30 minutes after the quake, transportable arrays in the U.S. recorded the Secondary waves..



Somewhere over Detroit....

