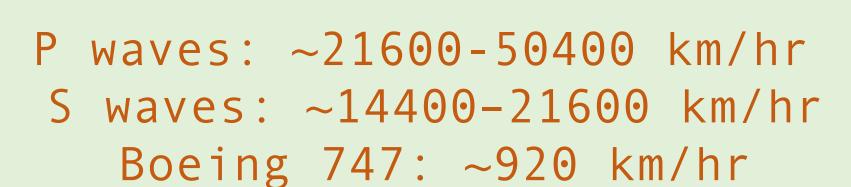


# 2011

# Tohoku Earthquake

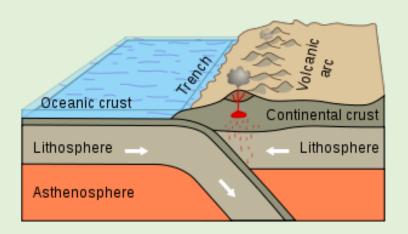
How fast does earthquake travel?



**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.

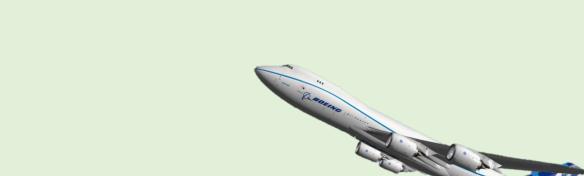


Tension build up for a Geology -5 mins Conference in Toronto



# 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.



# 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.



00:00:00 Takes off from Chicago

# 5 mins

Looking out the window and see some clouds

## Waves travel across the world

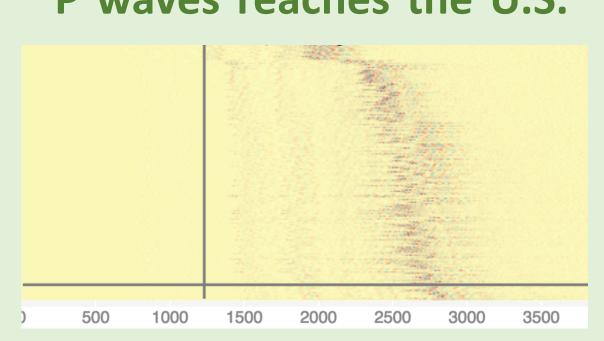
Earthquake creates two different form of waves, p waves and the s wave. P waves is caused by compression of the earth and S waves is the shear motion. It travels through the earth's surface, mantle, and the core.





# 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....

