

Locating the Epicenter...

In this lab activity, you will be analyzing data from seismographs and using that data to locate the epicenters of four separate earthquakes around the world.

MAP #1- NORTH AMERICA

Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time (Time of Earthquake)
A	10:00:10 AM	10:02:00 AM					
B	10:04:20 AM	10:07:40 AM					
C	10:06:40 AM	10:11:00 AM					

Describe the location of the epicenter: _____

What is the name of the plate boundary that likely triggered this earthquake? _____

MAP #2- SOUTH AMERICA

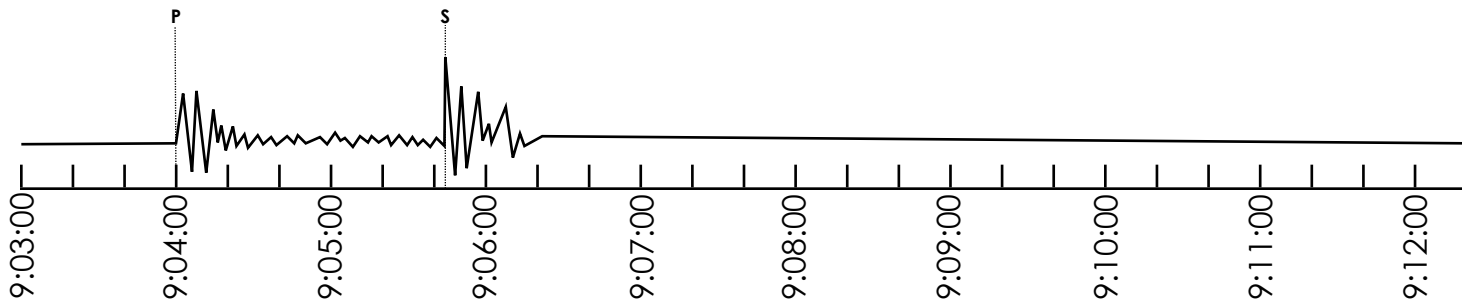
Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time (Time of Earthquake)
A	1:24:50 PM	1:30:40 PM					
B	1:24:30 PM	1:28:50 PM					
C	1:21:40 PM	1:24:20 PM					

Describe the location of the epicenter: _____

What is the name of the plate boundary that likely triggered this earthquake? _____

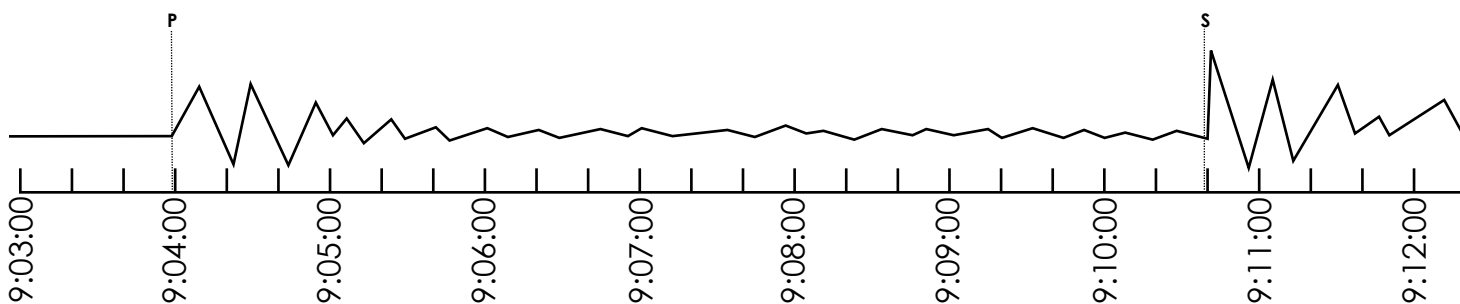
MAP #3- ASIA

Seismic Station A



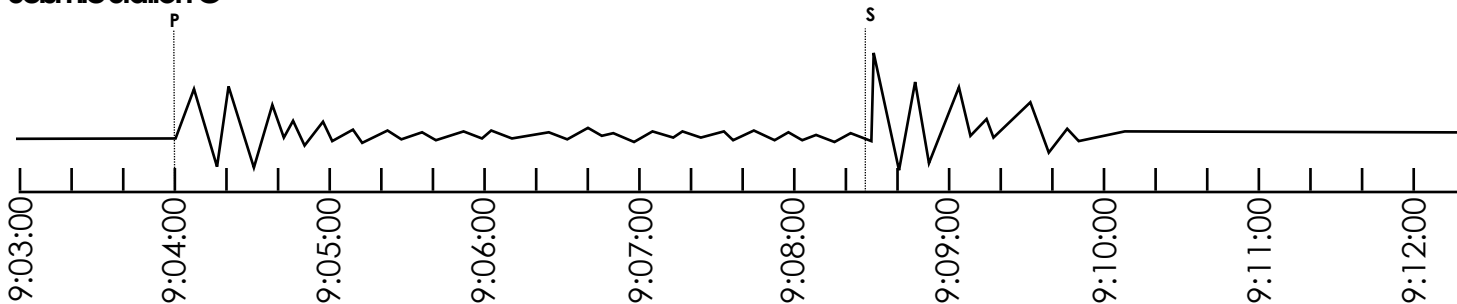
Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time <small>(Time of Earthquake)</small>
A							

Seismic Station B



Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time <small>(Time of Earthquake)</small>
B							

Seismic Station C



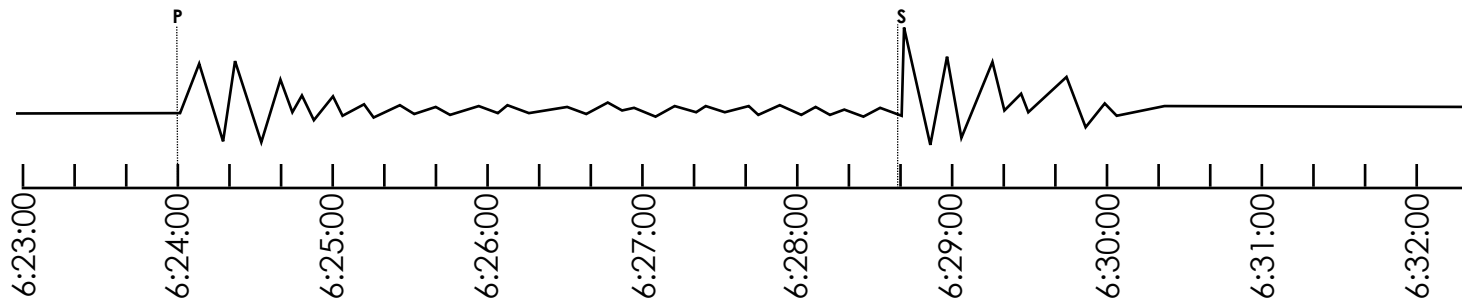
Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time <small>(Time of Earthquake)</small>
B							

› Describe the location of the epicenter: _____

› What is the name of the plate boundary that likely triggered this earthquake? _____

MAP #4- AFRICA

Seismic Station A



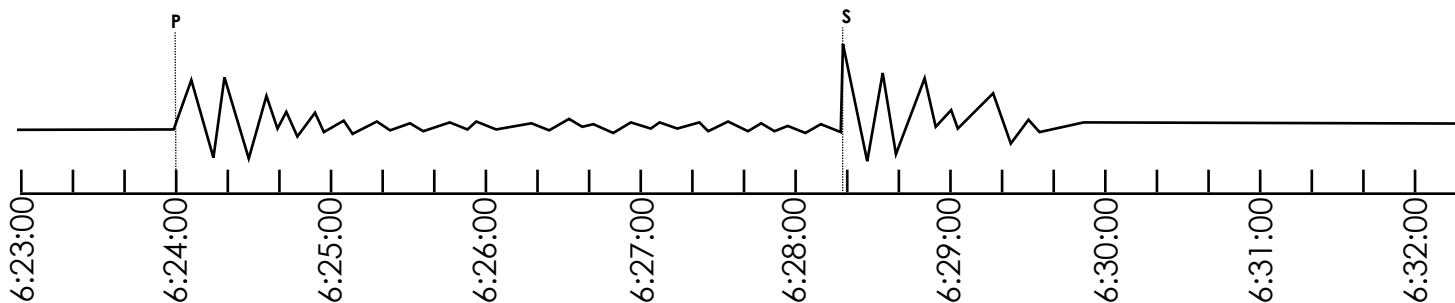
Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time (Time of Earthquake)
A							

Seismic Station B



Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time (Time of Earthquake)
B							

Seismic Station C



Seismic Station	P-Wave Arrival Time	S-Wave Arrival Time	Lag Time	Epicenter Distance	P-Wave Travel Time	S-Wave Travel Time	Origin Time (Time of Earthquake)
B							

Describe the location of the epicenter: _____

What is the name of the plate boundary that likely triggered this earthquake? _____

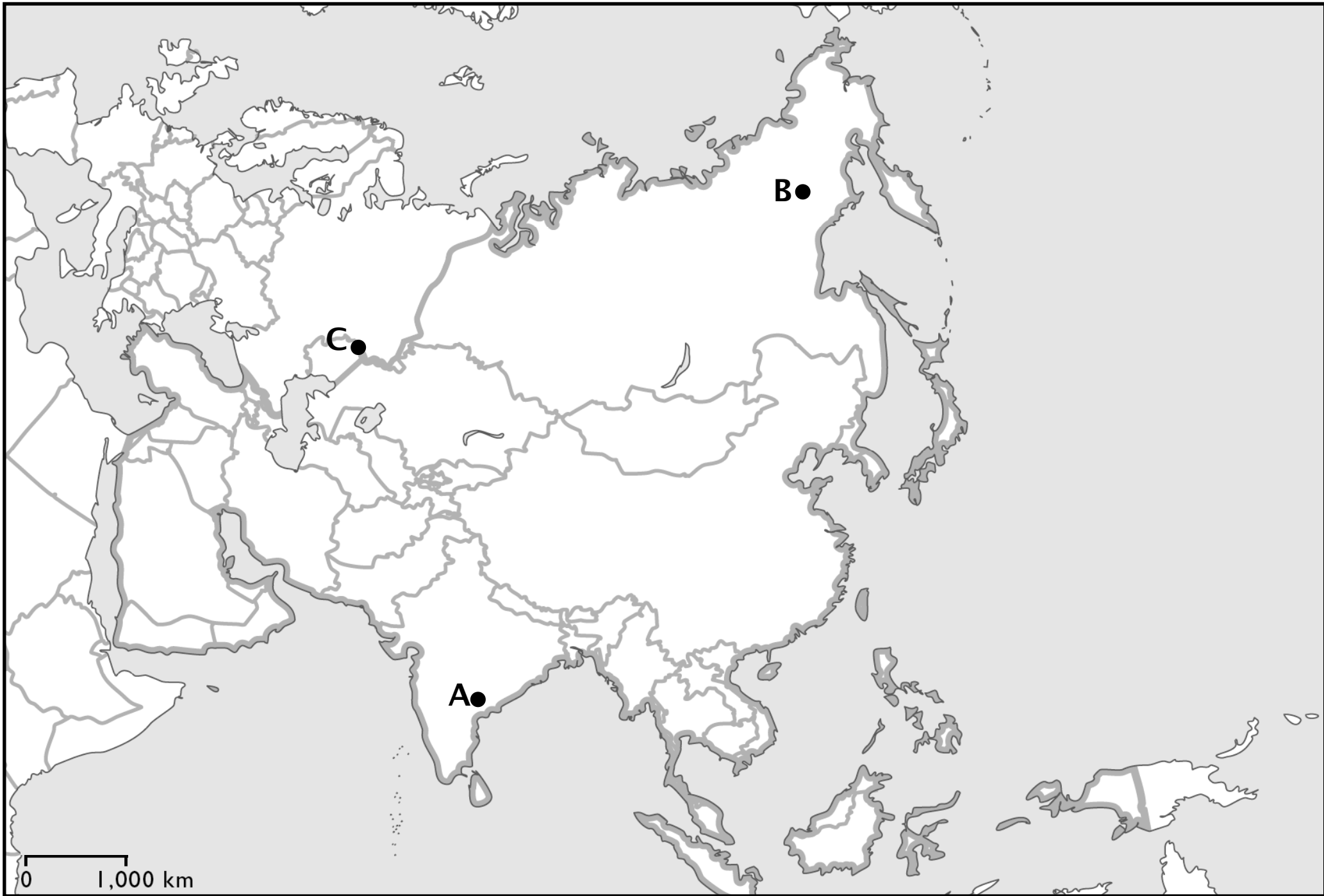
MAP#1- NORTH AMERICA



MAP#2- SOUTH AMERICA



MAP#3- ASIA



MAP#4- AFRICA

