

Ocean 420 Winter 2007
You do not have to turn this in.

Try to answer the following questions after you watch the movie “Waves across the Pacific”.

- a) How long does it take the wave group to travel from New Zealand to Alaska?
Estimate how fast the wave group must be traveling.

- b) If the waves are traveling from New Zealand to Alaska, that means that energy is transported as well. Does this mean that water from New Zealand has traveled all of the way to Alaska with the waves?

- c) Which arrive first at each station, short period waves or long period waves?

- d) Why are the waves measured at Samoa more regular than those measured in New Zealand?

- e) Do locally generated waves influence the waves that are traveling all of the way across the Pacific?

- f) Do you think that they placed their pressure gauges on the New Zealand or Alaska side of Samoa? Why?

- g) Is attenuation of wave energy higher at lower or higher frequencies? Speculate why this is so.