Newport, Oregon GPS Station
Yearly Movement, 2000 - 2014
(Referenced to North America’s stable east)

The dots on this card show motion of the Newport GPS station since 2000. Because the station is anchored into hard rock beneath the soil, the dots represent the year-to-year movement of the Newport region toward the northeast.

Orient this graph toward the north, tape it to the floor, and think about the questions below.

1. How far has the Newport region moved since the year 2000? At what rate (inches per year) is the region moving? At that rate, how far has the region moved since the year 1700?

2. Why is the region moving towards the northeast?

3. The last big earthquake in the Pacific Northwest occurred in the year 1700. What will happen to the Newport region when the next big earthquake occurs?


Card developed by the Cascadia EarthScope Earthquake and Tsunami Education Program (http://ceetep.oregonstate.edu) and UNAVCO. CEETEP is sponsored by a grant from the EarthScope Program of the National Science Foundation (http://www.earthscope.org) to Oregon State University, the University of Portland, and Central Washington University.