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Geology

* Paleoseismology and Pallet Creek
  + Take the recurrence interval from sand blocks to determine the earthquake rate
* Determine fault types by first p wave
  + go from down p waves to up p waves to find the direction
* What does seismograph data show
  + The amount of ground shaking
  + Ground acceleration and engineering info
  + types of earthquake waves
  + location of earthquake epicenter 3 seismographs
  + size or magnitude 1 seismograph
  + fault depth
  + fault type (normal, strike slip…)
  + location of fault
* Every volcanic eruption has earthquakes before it
* Earthquake Forecast (**Promote planning**)
  + When/Time period of interest for your forecast
    - Based on when EQs happened in the past
  + Where/Location of faults
    - if there is no fault in your area, an EQ may not affect you
  + How Big/Magnitude
    - by using seismograph and moment magnitude
  + Use this information to make a random statement of odds when Eq will occur