

# Problems with Sampling

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# Human Error



# Equipment Error



# Variation in Space or Time

## Mud Lake



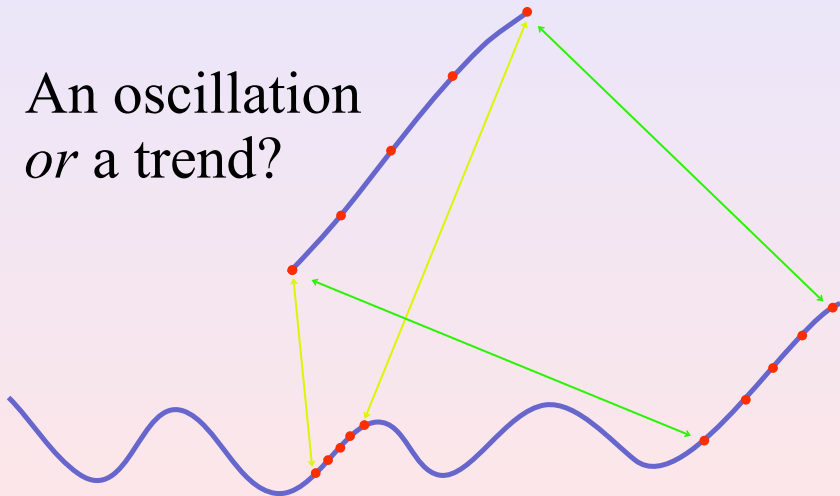
2004

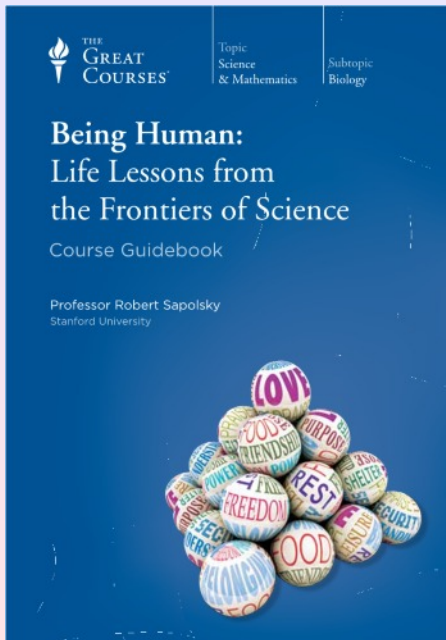


2005

# Trends and Oscillations

An oscillation  
*or* a trend?





## Lecture 5.

# How can you deal with the problems?

- Break into groups of 3
- Each group gets a topic:
  1. Human error
  2. Machine error
  3. Spatial/temporal variation
  4. Trends and oscillations
  5. Bias
- Give three attempts to overcome the problem.

