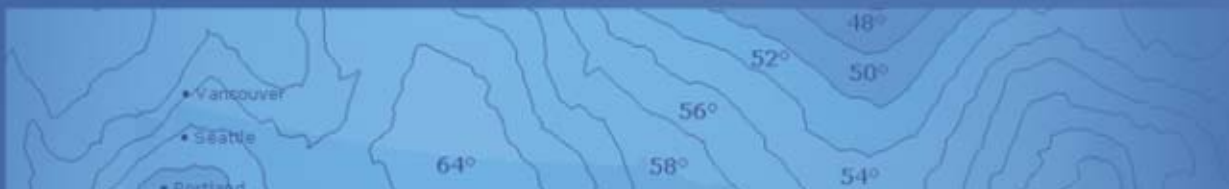




# GPS and Travel Modeling

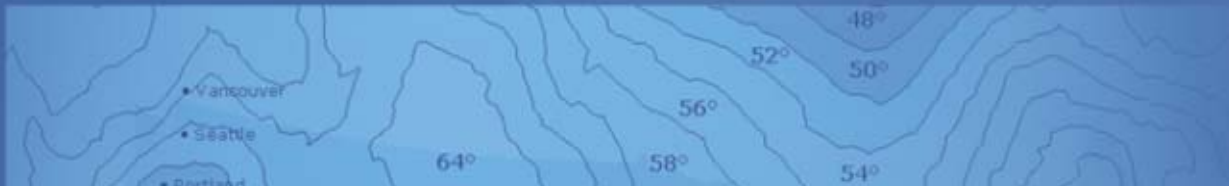
Terry Bills, ESRI  
October 10, 2005





# GPS and Travel Modeling

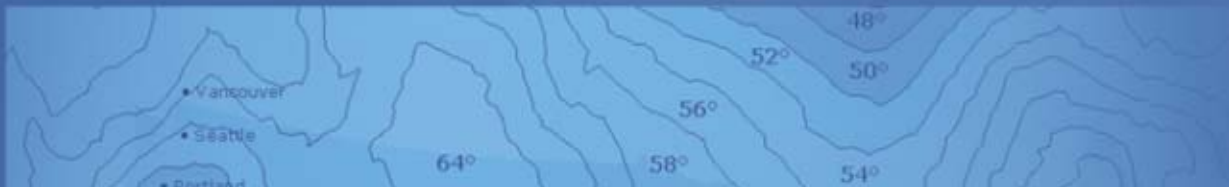
- Argue for a wider usage of GPS data
- To be useful, a number of conceptual and methodological issues





# Methodological Issues

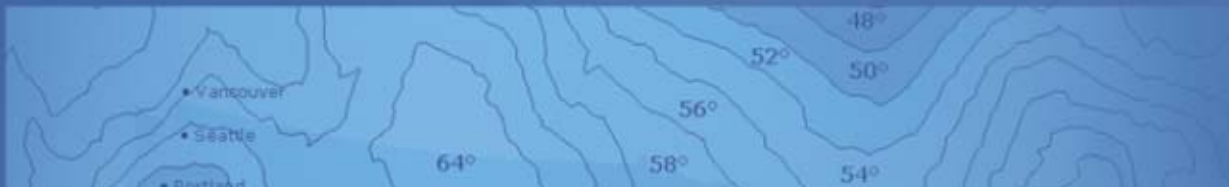
- **How to aggregate the voluminous data?**
  - Individual path tracing?
  - Trip segments
- **Trip segments w attributes**





# Methodological Issues

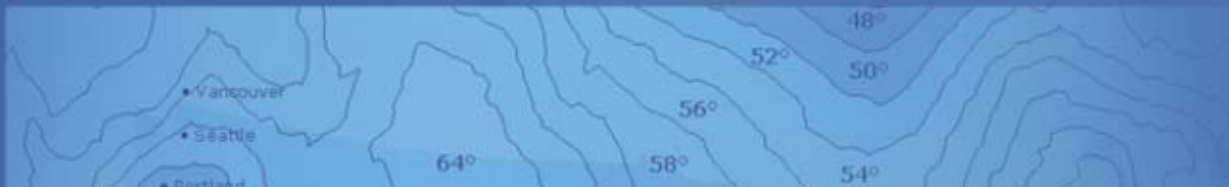
- **What is the appropriate unit of analysis?**
  - Individual
  - Household
  - “community”
- **Each will give a considerably different view**





# Methodological Issues

- **Community View:**
  - How to discover the patterns in the voluminous data?
  - Data Mining issues





# Methodological Issues

- **Microsimulation Models:**
  - What sample size?
- **Open the possibility of very large samples – worth the effort?**

