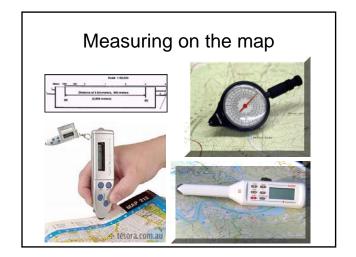
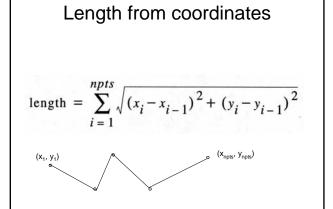


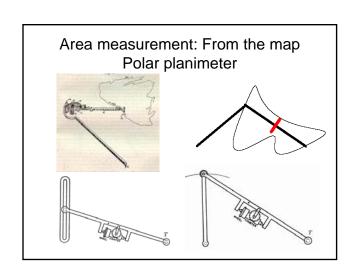
Distance on the ground Odometer GPS point trace Dead reckoning Record coordinates and compute

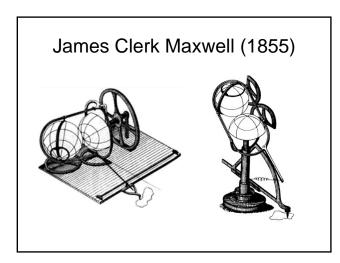
Pacing

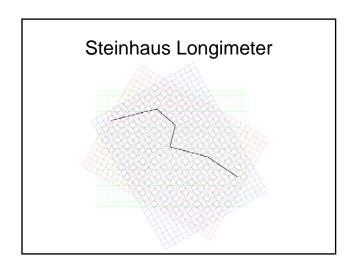
- Measure a base line using a superior method
- Devise method for pace counting
- Repeat measurement several times
- Average result and divide for length of pace
- Note how pace varies with terrain

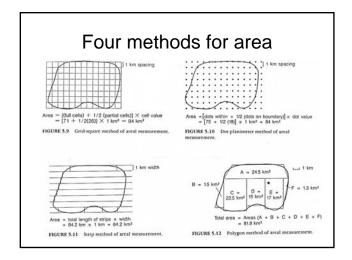


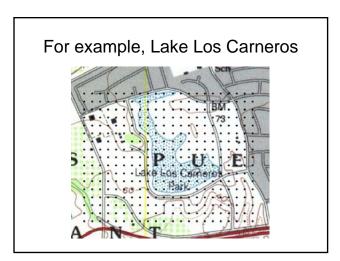












Area from coordinates

$$A = \frac{1}{2} \left| \sum_{i=1}^{npts+1} (x_i y_{i-1}) - (x_{i-1} y_i) \right|$$

Equivalence FIGURE 198. Equal-area diagram.

Summary

- Topo maps and others show line and area features
- Features have different symbols and colors
- We can measure length and bearing of lines
- We can measure area of areas
- We can do this from the map or the coordinates