

Variable Circular Plots: Station Placement and the Independence Assumption

Master's Research Project

Matt Edwards
Advisor: Claudio Fuentes

June 11, 2014

Distance Sampling

- Population Density Estimation
- Used often in Ecological Sciences
- Began with roadside surveys in early 1900s
- Theory developed through mid-1900s

Distance Sampling: History

- Emlen 1971
- Ramsey, Scott 1979, 1980 Papers
- Burnham, Anderson, and Jeffrey L. Laake 1980 Monograph
- Buckland et. al. 1993, 2001
- Continued Development into 2000s
 - Combined with Mark-Recapture Methods
 - Extended for use with underwater acoustics for estimates of krill populations
 - Combined with camera traps to estimate populations

Distance Sampling: Current Development