**J. A. Royle, Richard B. Chandler, Kimberly D. Gazenski, Tabitha A. Graves. 2012. Ecological Distance in Spatial Capture-Recapture Models. *Ecology***

**Supplement**

Supplement 1: R code for computing least-cost path distance and likelihood analysis of the SCR model   
Supplement 2: R code for computing the marginal likelihood and obtaining the MLEs   
Supplement 3: R code for simulation study

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**File List**

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EDmanuscript-supplements.pdf **–** R code in pdf form and extra explanation for supplement 1 (not sure if this is needed?)

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Leastcostpath.R - R code for computing least-cost path distance and likelihood analysis of the SCR model

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MLE.R - R code for computing the marginal likelihood and obtaining the MLEs

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simstudy.R - R code for simulation study

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**Description**

The supplement demonstrates the computation of least-cost path and its use in obtaining maximum likelihood estimates of model parameters. The file Leastcostpath.R is an R script which can be executed directly (narrative walk-through is provided by the PDF file EDmanuscript-supplements.pdf). The likelihood function (in the form of an R function) is provided in the R script MLE.R. Finally, the various pieces are put together to carry-out a simulation study in the R script simstudy.R.