

ACES 2014 Morning Workshop 8 Agenda
December 8, 2014 | 8:00am-11:30am

Modeling Species Banking at a Landscape-Scale

Organizer: Douglas Bruggeman, Ecological Services & Markets

Note: All workshop participants must provide their own Windows PC laptop in order to participate in this workshop.

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| 40 min | Characterizing a landscape-perspective for tradable credits <ul style="list-style-type: none">- What is a landscape perspective?- When is a landscape perspective appropriate?- How do aspects of natural history relate to tradable credits?- How are source/sink dynamics germane?- How can different dispersal behaviors be represented?- Modeling techniques: metapopulation models, matrix population models, and individually-based, spatially explicit population models- Questions & discussion |
| 50 min | Applying Individual-based Models to species banking for the Red-cockaded Woodpecker <ul style="list-style-type: none">- How habitat defragmentation credits can be estimated using population genetic theory- How the value of trades can be evaluated using counterfactual evidence- Questions & discussion |
| 30 min | Break – 9:30-10:00am |
| 90 min | Work with open source software: Martix-LEA <ul style="list-style-type: none">- Gain experience with modeling techniques for spatially structured populations- <i>Please bring your PC laptop.</i> A thumb drive will be provided that contains software to perform GIS and spatial modeling of populations. Your computer need not have any GIS software installed prior to the workshop – it will be on the thumb drive. The software may not work on Mac, but you can follow along with facilitators and/or choose a partner- Using a hypothetical species, we will work through a hypothetical trading scenario that incorporates landscape-scale processes and analyzes source-sink dynamics- Discussion / Lessons Learned |