

## Final Paper Guidelines

**Due:** Dec 11, 2:45pm

### Directions:

Use readings from class and other literature to set the stage for your main question(s). Choose 2 spatial analysis techniques we learned in lab and incorporate them in your analysis portion of your paper. Below are guidelines for particular sections.

#### (1) **Introduction** section:

- a. Include relevant discussion of theory, and use primary citations for those theories.
- b. Use theory and findings from previous studies to set the stage for your study.
- c. Clearly state what is missing from the literature, and how Your Study can address that research gap – this is often known as “the hook” in proposal and manuscript writing.
- d. After setting the stage for your study, state Questions or Hypotheses you plan to address.

#### (2) **Methods** section:

- a. Clearly state how you will test your hypotheses or answer the questions posed in the introduction with certain approaches.
- b. Use at least 2 techniques you learned in Lab. Techniques include things like Moran's I (or Mantel test), Variograms, Species Distribution Models, Species Distribution Model assessments, Species-Area Relationships, investigating analyses at different scales, etc.

### Format:

The paper will follow the scientific paper format in *Global Ecology and Biogeography* (a journal you might consider publishing in with research related to Spatial Ecology).

GEB website: [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1466-8238](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1466-8238)

You will need to submit your paper to D2L Drop Box for “Final Paper”, in the “**Research paper**” format specified by the journal. Instructions are found here: [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1466-8238/homepage/ForAuthors.html](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1466-8238/homepage/ForAuthors.html)

\*Also take a look at any current “**Research paper**” to get an idea of what these sections look like – specifically note there are 5 sections to the Abstract.

*Exceptions to the GEB Author guidelines above include:*

- 1) Upload as MS Word Document (so I can make electronic comments)
- 2) Font size = 12 point (Times New Roman, Arial, or similar)
- 3) Double-spaced throughout, with Line Numbers
- 4) You will not be submitting your paper to the journal (submit it to Final Paper Assignment on D2L).
- 5) [if you have tables] Place Tables after References, with properly-labeled Table legends above each table.
- 6) You must have at least 2 figures.
- 7) After tables, your figures will be pasted in at the end of the paper, with Figure legends below each properly-labeled figure.

**What to upload to D2L:**

(A) Your final paper (in Word), following the GEB format (noting exceptions above), PLUS (B) a pdf file created with R Markdown, showing all your code, analysis, and plots.

**100 Points Total**

Points Breakdown:

- |    |  |
|----|--|
| 10 | correct format                         |
| 10 | grammar/sentence structure: 10         |
| 40 | at least 2 spatial analyses & HPCC use |
| 40 | content/discussion                     |