

## Proceedings Paper

- **NEW PAGE LENGTH** Maximum 10 pages
- Single Spaced
- Microsoft 2000 or higher is required for preparing your paper.
- One Inch Margins - Full Justified

## Heading

The heading goes in the upper right hand corner, first page only. Times New Roman-9. (Not in the header space)

Proceedings of The National Conference  
On Undergraduate Research (NCUR) 2018  
University of Central Oklahoma  
Edmond, Oklahoma  
April 5-7, 2018

## Title

The title should be centered and one space below the heading. Times New Roman-14, title case and bold.

# **Fall and Winter Movement Patterns of Translocated Adult Sicklefin Redhorse (*Moxostoma* sp.) in the Oconaluftee River, North Carolina**

## Personal Data (faculty are not considered co-authors)

Name, Department, University, Faculty. Times New Roman-12

Jessica Davis  
Environmental Studies  
The University of North Carolina at Asheville  
One University Heights  
Asheville, North Carolina 28804 USA

Faculty Advisor: Dr. David Gillette

## Abstract

Please include the abstract that you sent to NCUR back in October for acceptance. The word "Abstract" should be centered, bolded and size 12. The abstract itself should be in size 10.

### **Abstract**

The southeastern United States contains the most diverse freshwater fauna in North America, yet many of these species are imperiled. The Sicklefin Redhorse is currently an undescribed species of the genus *Moxostoma*, endemic to the Hiawassee and Little Tennessee river basins of western North Carolina and northern Georgia. They are listed as a priority wildlife species of North Carolina with a state status of "significantly rare", and are expected to gain federal protection under the Endangered Species Act within the next year. Like many potamodromous fishes, the Sicklefin Redhorse population is at risk of fragmentation due to stream impediments, habitat degradation, and restriction of its natural home range. The objective of this study was to determine the suitability of the Oconaluftee River, which is historically within Sicklefin Redhorse's home range, for future reintroductions by tracking movement patterns of translocated individuals. Ten native Sicklefin Redhorse were collected from the Tuckasegee River in Swain County, NC, surgically implanted with radio transmitters, and translocated into the Oconaluftee River. Fish were tracked individually using radio telemetry for six months. Movement patterns for newly translocated fish, as well as seasonal

patterns for female Sicklefin Redhorse, were comparable to those found within their current range. Although some fish moved extensively, the sedentary patterns observed in females is indicative that the habitat provided in the Oconaluftee River may be suitable for the Sicklefin Redhorse. Continued observation throughout the spawning season will help in fully determining suitability of the Oconaluftee river for future management and restoration of this imperiled species to its native home range.

## Keywords

Chose three words that best describe your paper. Please list one space below the abstract, size 10, bolded.

**Keywords: Patterns, Adult Sicklefin Redhorse, North Carolina**

## Body of Paper

Headings should be size 12, bold. Body of section one is single spaced, full justified Times Roman size 10.

### 1. Body of Paper

Your paper must be a minimum of 4 pages to a maximum of 10 pages. (No exceptions). Paper is single-spaced, full justified, no indents on first paragraph in each section, use 8-1/2 x 11" (US letter paper). Times New Roman in font size 10 for text. All margins 1". Maximum page length from title information to references is 10 pages and no page breaks.

In most cases do not use personal pronouns. Personal pronouns are not accepted in your abstract. Even in those disciplines where personal pronouns have become accepted use with care. Overuse is not acceptable.

The first sentence in any section is NOT indented. Starting with the second paragraph in the same section indent 3 spaces, NOT five spaces. DO NOT TAB.

### 2. Editorial Standards and Introduction

Published papers will reflect genuine undergraduate student research. Inferences, general application of results and investigator's observations must be supported by data and references. Acceptance or rejection of the authors' hypothesis must be fully supported and not biased opinion.

### 3. Main Headings

Main headings are in font size 12, bold, capitalize each word. Skip one line between heading and paragraph using no indent to the first paragraph. Suggestions for headings: Introduction, Methodology, Data, Conclusion, Acknowledgements, and References, Endnotes.

#### 3.1. Secondary Headings

Secondary headings are in font size 12, and lower case, not bolded.

##### 3.1.1. tertiary headings

Tertiary headings are in font size 12, italic, and lower case, not bolded and italicized.

#### 3.2. Tables, Equations, Figures, Graphs, Or Pictures

Insert your tables, equations, figures, graphs, or pictures into your document where indicated in the text. We do not accept appendices. Maximum page length from title information to references is 10 pages

Equations should be referred in the text as equation (1), be indented six spaces, and numbered in parentheses. Equation numbers are right justified. There are two spaces between text and equations.



Numbers and captions should appear above each table in lower case, e.g.

Table 1. Physical data and home range size for Sicklefin Redhorse tagged on August 26<sup>th</sup>, 2014 in the Oconaluftee River, NC

Fish #	Total Length (mm)	Weight (kg)	Sex	Fall Range (m)	Winter Range (m)
14	591	1.60	Female	≥5664	unknown
15	538	1.30	Unknown	384	0
18	600	1.65	Female	310	0
19	510	1.25	Female	105	0
20	605	2.00	Female	0	0

Figures and their captions should be centered as illustrated in the example (Figure 1) below. Captions should also appear as illustrated below with all but the first word in the caption in lower case. Captions should be brief and descriptive. Comments on the figure should be left justified one line below caption. Paper text would then begin one line below comment. Landscape orientation is preferred. However, for some photographs landscape is not appropriate.

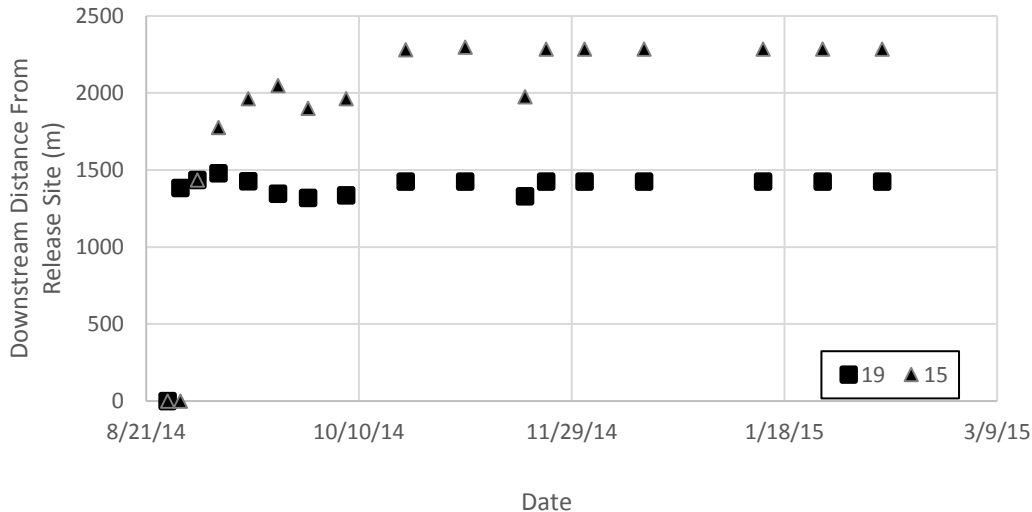


Figure 1. Movement patterns for tagged fish #19 and #15 from release site #1. River meters were calculated with the release

Include a few sentences explaining the figure

#### 4. Acknowledgements

The author(s) wish to express their appreciation to ....

#### 5. References

Footnotes are not acceptable. To cite a reference in your paper use a superscript number<sup>1</sup>. We do not accept roman numerals, or parenthetical notations (Smith, Roberts 2004).

References are required. The preferred style for citing references is the Note (N) format found in the Chicago Manual of Style, 15th ed. Use endnotes as opposed to footnotes, following the examples below. You are encouraged to consult the Chicago Manual of Style for additional examples not provided here.

You may opt to use another style better suited to your discipline (American Chemical Society, American Institute of Physics, etc.) provided that references are numbered and appear at the end of the paper.

Use superscript numbers in the body of your paper to note references – like this<sup>1</sup>. Do not use parenthetical notation like this: (Doniger 1999, 23).

##### *Books (examples for)*

1. Wendy Doniger, *Splitting the Difference: Gender and Myth in Ancient Greece and India* (Chicago: University of Chicago Press, 1999), 23.
2. *Ibid.*, 25.
3. William Strunk Jr. and E. B. White, *The Elements of Style*, 4th ed. (New York: Allyn and Bacon, 2000), 3.
4. Jeri A. Sechzer and others, eds., *Women and Mental Health* (Baltimore: Johns Hopkins University Press, 1996), xxiv.
5. Ernest Kaiser, "The Literature of Harlem," in *Harlem: A Community in Transition*, ed. J.H. Clarke (New York: Citadel Press, 1964), 131.
6. *The Letters of George Meredith*, ed. C. L. Cline, 3 vols. (Oxford: Clarendon Press, 1970), 1:125.

##### *Journals (Print) (examples for)*

7. E. W. D. Huffman Jr. and Ronald L. Keil, "Determination of Trace Organic Carbon and Nitrogen in the Presence of Carbonates in Anorganic Bovine Bone Graft Materials," *Microchemical Journal* 74 (June 2003): 250.
8. John Pellegrino and Yong Soo Kang, "CO<sub>2</sub>/CH<sub>4</sub> Transport in Polyperfluorosulfonate Ionomers: Effects of Polar Solvents on Permeation and Solubility," *Journal of Membrane Science* 99, no. 2 (1995): 165.
9. Douglas D. Heckathorn, "Collective Sanctions and Compliance Norms: A Formal Theory of Group-Mediated Social Control," *American Sociological Review* 55 (1990): 370.

##### *Journals (Online) (examples for)*

10. Susan Meisenhelder, "Conflict and Resistance in Zora Neale Hurston's *Mules and Men*," *Journal of American Folklore* 109 (Summer 1996): 270, <http://links.jstor.org/sici?sici=0021-8715%28199622%29109%3A433%3C267%3ACARIZN%3E2.0.CO%3B2-G>.
11. T. Ederth and others, "Force Measurements between Semifluorinated Thiolate Self-Assembled Monolayers: Long-Range Hydrophobic Interactions and Surface," *Journal of Colloid and Interface Science* 235, no. 2 (2001): 392, <http://www.sciencedirect.com>.
12. Mark Warr and Christopher G. Ellison, "Rethinking Social Reactions to Crime: Personal and Altruistic Fear in

Family Households,” *American Journal of Sociology* 106, no. 3 (2000), under “The Consequences of Fear,” <http://www.journals.uchicago.edu/AJS/journal/issues/v105n3/050125/050125.html>.

### *Magazines (examples for)*

13. Jessica Reaves, “A Weighty Issue: Ever-Fatter Kids,” interview with James Rosen, *Time*, March 14, 2001, <http://www.time.com/time/nation/article/0,8599,102443,00.html>.
14. Stephen Lacy, “The New German Style,” *Horticulture*, March 2000, 44.
15. “The Talk of the Town,” *New Yorker*, April 10, 2000, 31.

### *Newspapers/News Services (examples for)*

16. Linton Weeks, “Folklorist Alan Lomax's Trove Goes to Library,” *Washington Post*, March 24, 2004, C1, <http://web.lexisnexis.com/universe>.
17. David Clemens, letter to the editor, *Wall Street Journal*, April 21, 2000.
18. Bruce Barcott, review of *The Last Marlin: The Story of a Family at Sea*, by Fred Waitzkin, *New York Times Book Review*, April 16, 2000, 7.
19. Reuters, “Russian Bombs Kill 21, Injure More Than 140,” *Yahoo! News*, March 24, 2001, <http://dailynews.yahoo.com/>.

### *Web Resources (examples for)*

20. U. S. Census Bureau, “Health Insurance Coverage Status and Type of Coverage by Sex, Race, and Hispanic Origin, 1987 to 1999,” *Health Insurance Historical Table 1*, 2000, <http://www.census.gov/hhes/hlthins/historic/hihist1.html>.
21. Mayo Clinic staff, “8 Ways to Prevent Food-Borne Illness,” *MayoClinic.com*, <http://www.mayoclinic.com/invoke.cfm?id=NU00291>.
22. Bryan Sinclair, “North Carolina Jazz Musicians,” *Ramsey Library Special Collections*, University of North Carolina Asheville, <http://toto.lib.unca.edu/sounds/ncjazz.html>.

### *Videocassettes and DVDs (examples for)*

23. *Legacies of Social Change: 100 Years of Professional Social Work in the U.S.*, videocassette, produced and directed by Jacqueline Offenbach, written by Eric Christenson (Council on Social Work Education, National Association of Social Workers, 2001).
24. John Cleese, Terry Gilliam, and Eric Idle, “Commentaries,” Disc 2, *Monty Python and the Holy Grail*, special ed. DVD, directed by Terry Gilliam and Terry Jones (Culver City, CA: Columbia Tristar Home Entertainment, 2001).

### *Interviews (examples for)*

25. Interview with health care worker, August 10, 2004.
26. McGeorge Bundy, interview by Robert MacNeil, *MacNeil/Lehrer NewsHour*, PBS, February 7, 1990.