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Bluefin Stoneroller #RS33



Collection and Diversity:

This bluefin stoneroller was captured in a headwater stream in Rock Springs Park located in Gwinnett County Georgia. A sample was collected from its tail, and it was released back into the water. The Shannon H' diversity value for this stream was found to be 1.2886 given the data we collected and Var H' of 0.002452.

Taxonomic Information:

Kingdom- Animalia

Phylum- Chordata

Class- Teleostei

Order- Cypriniformes

Family- Leuciscidae

Genus- Campostoma

Species- C.pauciradii

Morphological characteristics:

The bluefin stone roller is small to moderate in size. Long not wide and has lateral line large scales and has a large overbite. Orange colored dorsal, pectoral, and tail fins.

Ecology of Species:

- Habitat: They prefer the shoal areas, riffles, and riffle runs of small to moderate streams characterized by clear, flowing water and gravel and sand substrates. Mostly found in southeast amongst the Altamaha and Apalachicola River watersheds of Georgia and Alabama.
- Reproduction: They spawn mostly in April or springtime. In breeding males, the gill covers have numerous small white tubercles, while the head develops large tubercles on the sides. Most of the body scales have at least one tubercle, particularly on the back and upper sides. Breeding males are dark olive on the back, yellowish green to steel-blue on the head and upper sides of the body, brassy yellow on the lower sides, and white or light cream on the venter.
- Species Interaction: The stone roller uses its cartilaginous ridge on the its lower jaw to scrape algae and other organisms from rocks and other hard structures.

DNA Sequence:

TTCCCTTTNATCTTGTATTTGGTGCCTGAGCTGGAATAGTGGGGACCGCTTTAAGCCTGCTCATTGAGCCGAACTGA
GCCAACCCGGATCACTTTTAGGTGATGATCAAATTTATAACGTTATTGTTACTGCCACGCCTTTGTAATAATTTCTTTA
TAGTAATGCCAATTCTAATTGGCGGATTTGGGAACGGCTTGTACCTCTAATAATTGGTGCGCCAGACATGGCATTCCC
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CAGGGACAGGATGAACTGTGTACCCCTCTTGCAGGTAACCTCGCCACGCAGGAGCATCAGTAGACCTCACCATC
TTCTCCCTACATTTAGCAGGTGTATCATCAATTTTAGGAGCCGTAAACTTCATTACTACAATTATTAATAAAAACCCCA
GCCATCTCCAGTACCAAACGCCTCTCTTTGTATGAGCTGTTCTTGTAACCGCTGTGCTTCTGTTACTATCACTACCCGT
ACTGGCGGCCGGAATTACAATACTTCTTACTGACCGTAATCTTAATACCACATTCTTCGACCCGGCAGGCGGGGGGA
TCCAATCTTATACCAACACTTATTCTGATTCTTCGGTCACCCTGAAGTGTCATCTGNNNNNNCENNNGNNNNNG

References

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