

Bluefin stoneroller\_RS27

Christin Cain

Collection Location: 550 Rock Springs Rd, Lawrenceville, GA 30043

Coordinates: (34.0400° N, 84.0209° W)

Shannon H' Values for Rock Springs:

- H': 1.39587
- Var H': 0.00528285



Taxonomic Information:

- Kingdom: Animalia
- Class: Actinopterygii
- Family: Leuciscidae
- Genus: *Campostoma*
- Species: *Campostoma pauciradii*

Distinguishing Morphological Features:

- Small to medium in size
- Noticeable overbite
- Orange colored dorsal, pectoral, and tail fins
- Green-gray color

## Ecology of Species:

- Habitat:
  - Bluefin stonerollers are found in the southeast amongst the Altamaha and Apalachicola river watersheds of Georgia and Alabama. They inhabit headwater streams, rocky riffles and runs, and creeks.
- Reproduction:
  - Bluefin stonerollers tend to spawn in the spring month of April. Their spawning nests consist of an eight inch deep circular depression of dark silt layered on top of fine gravel and white sand. Breeding males are characterized by a dark olive back, yellow-green to steel-blue upper sides, brassy yellow lower sides, white-cream venter, blue-green dorsal and anal fins, increased small white breeding tubercles along the gills, and large tubercles on the side of the head.
- Species Interaction:
  - Using the cartilaginous ridge of their lower jaw, bluefin stonerollers feed off of rocks and other hard structures by scraping algae and other organisms off of them.

## DNA Sequence:

- CTCCCTTTCATCTTTGTATCTTGGTGCCTGAGCTGGAATAGTGGGGACCGCTTTAAG  
CCTGCTCATTGAGCCGAAGTGGGCAACCCGGATCACTTTTAGGTGATGATCAAAAT  
TTATAACGTTATTGTTACTGCCACGCCTTTGTAATAATTTTCTTTATAGTAATGCCAAT  
TCTAATTGGCGGATTTGGGAAGTGGCTTGTACCTCTAATAATTGGTGCGCCAGACAT  
GGCATTCCCACGAATAAATAACATAAGCTTCTGACTTTTACCCCTTCATTTCTCCTCT  
TATTAGCCTCTTCTGGTGTGGAAGCTGGCGCAGGGACAGGATGAACTGTGTACCCC  
CCTCTTGCAGGTAACCTCGCCCACGCAGGAGCATCAGTAGACCTCACCATCTTCTC  
CCTACATTTAGCAGGTGTATCATCAATTTTAGGAGCCGTAACTTCATTACTACAATTAT  
TAATATAAAACCCCGAGCCATCTCCAGTACCAAACGCCTCTCTTTGTATGAGCTGTT  
CTTGTAACCGCTGTGCTTCTGTTACTATCACTACCCGTAAGTGGCGGCCGGAATTACA  
ATACTTCTTACTGACCGTAATCTTAATACCACATTCTTCGACCCGGCAGGCGGGGGG  
GATCCAATCTTATACCAACACTTATTCTGATTCTTCGGTCACCCTGAAGTGTCATACTT  
TTTTTNCCGGGAAG

## References:

1. *Bluefin stoneroller*. (n.d.). Wikipedia. Retrieved November 9, 2022, from [https://en.wikipedia.org/wiki/Bluefin\\_stoneroller](https://en.wikipedia.org/wiki/Bluefin_stoneroller)
2. *Bluefin | Outdoor Alabama*. (n.d.). | Outdoor Alabama. Retrieved November 9, 2022, from <https://www.outdooralabama.com/stonerollers/bluefin>