



## Molecular Population Genetic Structure in the Piping Plover: Open-File Report 2009-1032 (Paperback)

By Mark P Miller

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Piping Plover (*Charadrius melodus*) is a migratory shorebird currently listed as Endangered in Canada and the U.S. Great Lakes, and threatened throughout the remainder of its U.S. breeding and winter range. In this study, we undertook the first comprehensive molecular genetic-based investigation of Piping Plovers. Our primary goals were to (1) address higher level subspecific taxonomic issues, (2) characterize population genetic structure, and (3) make inferences regarding past bottlenecks or population expansions that have occurred within this species. Our analyses included samples of individuals from 23 U.S. States and Canadian Provinces, and were based on mitochondrial DNA sequences (580 bp, n = 245 individuals) and eight nuclear microsatellite loci (n = 229 individuals). Our findings illustrate strong support for separate Atlantic and Interior Piping Plover subspecies (*C. m. melodus* and *C. m. circumcinctus*, respectively). Birds from the Great Lakes region were allied with the Interior subspecies group and should be taxonomically referred to as *C. m. circumcinctus*. Population genetic analyses suggested that genetic structure was stronger among Atlantic birds relative to the Interior group. This pattern indicates...



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