

## Ecography

### **ECOG-04325**

Gibson, D., Hornsby, A. D., Brown, M. B., Cohen, J. B., Dinan, L. R., Fraser, J. D., Friedrich, M. J., Gratto-Trevor, C. L., Hunt, K. L., Jeffery, M., Jorgensen, J. G., Paton, P. W. C., Robinson, S. G., Rock, J., Stantial, M. L., Weithman, C. E. and Catlin, D. H. 2019. Migratory shorebird adheres to Bergmann's Rule by responding to environmental conditions through the annual lifecycle. – *Ecography* doi: 10.1111/ecog.04325

## Appendix 1

Table A1. User-defined delineations of population clusters on the breeding (top) and non-breeding grounds (left) based on observed groupings of piping plover capture and resighting efforts throughout North America. Transition probabilities represent the proportion of each breeding population cluster that was observed at a specific non-breeding population cluster, and were used to calculate the strength of migratory connectivity.

		Breeding population cluster							
		<i>Canada (Prairie)</i>	<i>North MSR</i>	<i>South MSR</i>	<i>North Carolina</i>	<i>Mid- Atlantic</i>	<i>New York</i>	<i>New England</i>	<i>Canada (Atlantic)</i>
Non-breeding population cluster	<i>Texas (Gulf)</i>	0.27	0.11	0.55	0	0	0	0	0
	<i>West Miss. Delta</i>	0.27	0.39	0.14	0	0	0	0	0
	<i>East Miss. Delta</i>	0.33	0.24	0.05	0	0	0	0	0
	<i>Florida (Gulf)</i>	0	0.11	0.22	0.36	0.07	0.04	0.17	0
	<i>GA &amp; FL (Atlantic)</i>	0.07	0.09	0.02	0.09	0.14	0.04	0.21	0.5
	<i>SC &amp; NC</i>	0.07	0.07	0.01	0	0.21	0.23	0.14	0.25
	<i>Carribbean</i>	0	0	0	0.55	0.57	0.68	0.48	0.25

Breeding population clusters include Saskatchewan (Canada Prairie), the Missouri River associated with North Dakota and Montana (North MSR), the Missouri River associated with South Dakota and Nebraska (South MSR), the outerbanks of North Carolina (North Carolina), the Delmarva Peninsula and New Jersey (Mid-Atlantic), New York (New York), Massachusetts and Connecticut (New England), and eastern Canada (Canada Atlantic). Non-breeding population clusters include coastal Texas (Texas Gulf), Louisiana (West Miss. Delta), Alabama and Mississippi (East Miss. Delta), western Florida (Florida Gulf), Georgia and eastern Florida (GA & FL Atlantic), North and South Carolina (SC & NC), and the Bahamas and nearby islands in the Caribbean (Caribbean).