

SUPPLEMENTARY INFORMATION

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The influence of host dispersal on the gene flow and genetic diversity of generalist and specialist ectoparasites

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Table S1: Localities of the populations sampled for each species together with the distances. Log transformed distances and global F_{st} values (population differentiation estimates). Locality names correspond to names as presented in each of the sources (given in parenthesis following each species name).

Species	Kilometres	Log Distance	F_{st}
<i>Amblyomma hebraeum</i> (Cangi et al. 2013)			
Vosloonek to Mahlakwe	328	2.516	0.15
Strydpoort to Vosloonek	510	2.708	0.07
Spring valley to Strydpoort	543	2.735	0.33
Strydpoort to Mahlakwe	630	2.799	0.33
Spring valley to Vosloonek	880	2.944	0.17
<i>Hyalomma rufipes</i> (Cangi et al. 2013)			
Massangena to Chivavane	370	2.568	0.00
Changara to Massangena	465	2.667	0.23
Mossuril to Changara	780	2.892	0.10
Mossuril to Massangena	1091	3.038	0.49
<i>Hyalomma truncatum</i> (Sands et al. 2017)			
Upington to Kuruman	244	2.387	0.26
Upington to Bloemfontein	485	2.686	0.06
Mariental to Upington	526	2.721	0.50
Skukuza to Kuruman	859	2.934	0.00
Skukuza to Upington	1079	3.033	0.00

***Chiastopsylla rossi* (van der Mescht et al. 2015)**

Springbok to Vanrhynsdorp	227	2.356	0.50
Springbok to Sutherland	384	2.584	0.33
Springbok to Beaufort West	528	2.723	0.54
Springbok to Fort Beaufort	878	2.943	0.57
Springbok to Garies	96	1.982	0.31

Species	Kilometres	Log Distance	F _{st}
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***Listropsylla agrippinae* (van der Mescht et al. 2015)**

Springbok to Vanrhynsdorp	227	2.356	0.12
Springbok to Sutherland	384	2.584	0.65
Springbok to Beaufort West	528	2.723	0.52
Springbok to Fort Beaufort	878	2.943	0.59
Springbok to Garies	96	1.982	0.18

***Laelaps muricola* (Matthee et al. 2018)**

Kaalplaas to Rietvlei	136	2.133	0.33
Three Sisters to Rooipoort	375	2.574	0.00
Three Sisters to East London	380	2.580	0.21
Kaalplaas to Three Sisters	729	2.863	0.93
Three Sisters to Rietvlei	824	2.915	0.10

***Laelaps giganteus* (Engelbrecht et al. 2016)**

Dronfield to Rooipoort	50	1.699	0.60
Windhoek to Keetmanshoop	443	2.646	0.68
Rooipoort to Keetmanshoop	456	2.659	0.94
Windhoek to Dronfield	1027	3.012	0.83
Rooipoort to Windhoek	982	2.992	0.76

***Polyplax arvicantis* (du Toit et al. 2013)**

Grobbershoop to Rooipoort	216	2.334	0.71
Windhoek to Keetmanshoop	443	2.646	0.31
Rooipoort to Keetmanshoop	456	2.659	0.69
Windhoek to Groblershoop	854	2.931	0.71
Rooipoort to Windhoek	982	2.992	0.85

Polyplax praomydis
(Bothma et al. in review)

De Doorns to Loeriesfontein	290	2.462	0.93
Loeriesfontein to Goegap	175	2.243	0.87
Bloemfontein to De Doorns	790	2.898	1.00
Bloemfontein to Elandskuil	233	2.367	0.32
Bloemfontein to Loeriesfontein	666	2.823	0.69

Species	Kilometres	Log Distance	F _{st}
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Hoplopleura pattersoni
(Bothma et al. in review)

Mogalakwena to Marken	106	2.025	0.44
Marken to Alldays	130	2.114	0.81
Dinokeng to Mogalakwena	311	2.493	0.86
Postmasburg to Dinokeng	644	2.809	0.96
Postmasburg to Alldays	861	2.935	0.95