Alternative Model Comparisons

Route	Variable	r	Overall model r^2	Distance AIC_c	Model AIC_c
Null straight line	distance***	0.581	0.337	−84.82	−84.82
Topo straight line	distance***	0.587	0.828	−85.05	−103.53
	elevation**	0.422			
	open shrub**	−0.397			
	rivers**	−0.384			
Topo stepping stone	distance***	0.495	0.618	−82.27	−90.63
	dry meadow***	−0.517			
	wetland likelihood*	−0.325			
Topo least slope path	distance***	0.527	0.422	−83.02	−84.97
	dry meadow**	0.381			
Topo wetland likelihood path	distance***	0.542	0.675	−83.59	−93.8
	rivers***	−0.558			
	open shrub*	−0.265			
Topo least slope + wetland	Distance***	0.530	0.632	−83.08	−91.37
	Rivers***	−0.546			
	open shrub*	−0.231			

Issues with Mantel

Turning non-distance data into distance measurements may exaggerate:

$\rho = 0.471$

$\rho = 0.180$