

1 Tables

1.1 State based violence

	Geography	North Africa	Population density	Distance to border
(Intercept)	3.67*** (0.11)	3.68*** (0.11)	2.62*** (0.12)	2.76*** (0.13)
sqrtSpAll	0.10*** (0.01)	0.08*** (0.01)	0.07*** (0.01)	0.08*** (0.01)
mountains_mean	2.27*** (0.19)	2.43*** (0.19)	1.38*** (0.18)	1.24*** (0.18)
water_gc	0.03*** (0.00)	0.02*** (0.00)	0.02*** (0.00)	0.01** (0.00)
barren_gc	-0.03*** (0.00)	-0.03*** (0.00)	-0.02*** (0.00)	-0.02*** (0.00)
distcoast	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)
region3	(0.00)	(0.00)	(0.00)	(0.00)
logPopd		0.59*** (0.14)	0.69*** (0.14)	0.82*** (0.14)
bdist3			1.01*** (0.07)	1.03*** (0.07)
			-0.00*** (0.00)	-0.00*** (0.00)
AIC	43416.47	43397.21	43137.83	43116.87
BIC	43466.57	43454.48	43202.25	43188.45
Log Likelihood	-21701.23	-21690.61	-21559.91	-21548.43
Deviance	5357.37	5358.24	5370.70	5371.83
Num. obs.	9492	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 1: Fatalities

	Geography	North Africa	Population density	Distance to border
Precolonial state presence (sqrt)	0.07*** (0.01)	0.05*** (0.01)	0.04*** (0.01)	0.04*** (0.01)
Mountainous terrain	0.87*** (0.16)	0.81*** (0.16)	-0.22 (0.15)	-0.28* (0.15)
Water (%)	-0.01* (0.00)	-0.01* (0.00)	-0.01** (0.00)	-0.01*** (0.00)
Barren (%)	-0.02*** (0.00)	-0.02*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)
Distance to coast (log)	-0.16*** (0.02)	-0.14*** (0.02)	-0.11*** (0.02)	-0.08*** (0.02)
Population density (log)			1.00*** (0.06)	0.94*** (0.06)
Distance to international boundary (log)				-0.20*** (0.04)
North Africa		0.51*** (0.13)	0.38** (0.12)	0.47*** (0.12)
AIC	20314.22	20297.34	20007.10	19979.16
BIC	20364.33	20354.61	20071.52	20050.74
Log Likelihood	-10150.11	-10140.67	-9994.55	-9979.58
Deviance	4106.74	4112.96	4158.66	4164.26
Num. obs.	9492	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 2: State based conflict events

	Geography	North Africa	Population density	Distance to border
(Intercept)	7.38*** (0.59)	7.23*** (0.59)	5.36*** (0.59)	5.26*** (0.59)
sqrtSpAll	-0.18* (0.08)	-0.13* (0.08)	-0.39*** (0.08)	-0.33*** (0.08)
logCapdist	-0.64*** (0.10)	-0.62*** (0.10)	-0.45*** (0.09)	-0.41*** (0.09)
mountains_mean	1.96*** (0.19)	2.19*** (0.19)	1.37*** (0.18)	1.26*** (0.18)
water_gc	0.02*** (0.00)	0.02*** (0.00)	0.01*** (0.00)	0.01** (0.00)
barren_gc	-0.03*** (0.00)	-0.03*** (0.00)	-0.02*** (0.00)	-0.02*** (0.00)
distcoast	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)
sqrtSpAll:logCapdist	0.05*** (0.01)	0.03** (0.01)	0.08*** (0.01)	0.07*** (0.01)
region3		0.65*** (0.14)	0.66*** (0.14)	0.76*** (0.14)
logPopd			1.05*** (0.07)	1.06*** (0.07)
bdist3				-0.00*** (0.00)
AIC	43336.75	43312.48	43111.91	43096.36
BIC	43401.17	43384.06	43190.65	43182.26
Log Likelihood	-21659.37	-21646.24	-21544.96	-21536.18
Deviance	5361.08	5362.21	5372.08	5372.94
Num. obs.	9492	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 3: Fatalities * Distance to capital

	Geography	North Africa	Population density	Distance to border
Precolonial state presence (sqrt)	-0.25*** (0.07)	-0.30*** (0.07)	-0.36*** (0.06)	-0.33*** (0.06)
Mountainous terrain	0.88*** (0.15)	0.87*** (0.15)	0.01 (0.15)	-0.05 (0.15)
Water (%)	-0.01 (0.00)	-0.00 (0.00)	-0.01** (0.00)	-0.01*** (0.00)
Barren (%)	-0.02*** (0.00)	-0.02*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)
Distance to coast (log)	-0.13*** (0.02)	-0.09*** (0.02)	-0.12*** (0.02)	-0.09*** (0.02)
Population density (log)			1.00*** (0.06)	0.95*** (0.06)
Distance to international boundary (log)				-0.19*** (0.04)
North Africa		0.39** (0.13)	0.36** (0.12)	0.44*** (0.12)
Distance to capital (log)	-0.45*** (0.08)	-0.37*** (0.08)	-0.30*** (0.08)	-0.28*** (0.08)
Interaction term	0.05*** (0.01)	0.06*** (0.01)	0.06*** (0.01)	0.06*** (0.01)
AIC	20284.02	20282.75	19982.19	19957.16
BIC	20348.44	20354.33	20060.93	20043.06
Log Likelihood	-10133.01	-10131.37	-9980.09	-9966.58
Deviance	4117.11	4118.67	4168.50	4172.13
Num. obs.	9492	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 4: Conflict events * Distance to capital

1.2 Communal violence

	Baseline	North Africa	Population density	Distance to international boundary	Pastoralism
Mountainous terrain	1.88*** (0.24)	1.89*** (0.24)	1.73*** (0.23)	1.74*** (0.23)	1.72*** (0.23)
Water (%)	0.00 (0.01)	0.00 (0.01)	-0.00 (0.01)	0.00 (0.01)	0.00 (0.01)
Barren (%)	-0.03*** (0.00)	-0.03*** (0.00)	-0.02*** (0.00)	-0.02*** (0.00)	-0.02*** (0.00)
Distance to coast (log)	-0.10*** (0.02)	-0.10*** (0.02)	-0.11*** (0.02)	-0.11*** (0.02)	-0.11*** (0.02)
North Africa		0.06 (0.19)	0.62*** (0.19)	0.59** (0.19)	0.59** (0.19)
Population density (log)			1.21*** (0.09)	1.20*** (0.09)	1.20*** (0.09)
Distance to border (log)				0.06 (0.06)	0.05 (0.06)
Land not suited for pastoral herding					
Precolonial state presence (sqrt)	0.07*** (0.01)	0.07*** (0.01)	-0.03* (0.01)	-0.03* (0.01)	-0.03* (0.01)
AIC	14603.42	14605.30	14455.47	14456.71	14458.67
BIC	14653.53	14662.57	14519.90	14528.30	14537.41
Log Likelihood	-7294.71	-7294.65	-7218.74	-7218.36	-7218.33
Deviance	2412.91	2412.85	2439.51	2439.59	2439.66
Num. obs.	9492	9492	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 5: Non-state conflict events

	Baseline	North Africa	Population density	Distance to international boundary	Pastoralism
Mountainous terrain	2.32*** (0.53)	2.29*** (0.53)	2.05*** (0.48)	2.02*** (0.48)	2.29*** (0.48)
Water (%)	0.02 (0.01)	0.02 (0.01)	0.04** (0.01)	0.04** (0.01)	0.04** (0.01)
Barren (%)	-0.02*** (0.00)	-0.01* (0.00)	0.00 (0.00)	0.00 (0.00)	0.01 (0.01)
Distance to coast (log)	0.26*** (0.06)	0.26*** (0.06)	0.35*** (0.06)	0.36*** (0.07)	0.36*** (0.07)
North Africa		-1.11** (0.42)	-0.35 (0.39)	-0.31 (0.39)	-0.38 (0.39)
Population density (log)			1.92*** (0.19)	1.94*** (0.19)	1.95*** (0.20)
Distance to border (log)				-0.11 (0.12)	-0.01 (0.12)
Land not suited for pastoral herding					0.09 (0.45)
Precolonial state presence (sqrt)	0.03 (0.03)	0.05 (0.03)	-0.10** (0.03)	-0.09** (0.03)	-0.07* (0.03)
AIC	3256.20	3250.43	3185.22	3186.58	3191.01
BIC	3306.31	3307.69	3249.65	3258.16	3269.75
Log Likelihood	-1621.10	-1617.21	-1583.61	-1583.29	-1584.50
Deviance	482.96	484.90	504.20	504.31	504.20
Num. obs.	9492	9492	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 6: Communal violence events

	Main ZINB model	Excluding Nigeria	Excluding Uganda	Excluding Kenya	Excluding Ghana	Former British colony interaction	East Africa interaction	West Africa interaction
Count model: (Intercept)	-3.06*** (0.38)	-0.12 (0.42)	-3.19*** (0.38)	-2.57*** (0.43)	-3.06*** (0.38)	-1.56*** (0.35)	-2.18*** (0.34)	-0.09 (0.31)
Count model: sqrtSpAll	-0.02*** (0.00)	-0.16*** (0.01)	-0.02*** (0.00)	0.05*** (0.01)	-0.02*** (0.00)	-0.05*** (0.01)	0.10*** (0.01)	-0.18*** (0.01)
Count model: mountains.mean	1.19*** (0.06)	1.63*** (0.08)	1.13*** (0.06)	0.81*** (0.09)	1.14*** (0.06)	1.56*** (0.07)	1.36*** (0.07)	1.36*** (0.07)
Count model: water.gc	0.01* (0.00)	0.01 (0.00)	0.01* (0.00)	-0.00 (0.01)	0.01* (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Count model: barren.gc	0.02*** (0.00)	0.01*** (0.00)	0.02*** (0.00)	0.01*** (0.00)	0.02*** (0.00)	0.02*** (0.00)	0.01*** (0.00)	0.02*** (0.00)
Count model: logCDist	0.29*** (0.03)	0.18*** (0.03)	0.29*** (0.03)	0.24*** (0.03)	0.30*** (0.03)	0.15*** (0.02)	0.18*** (0.02)	0.11*** (0.02)
Count model: logBDist	0.09*** (0.02)	-0.07*** (0.02)	0.12*** (0.02)	-0.12*** (0.02)	0.07*** (0.02)	0.01 (0.02)	0.02 (0.02)	0.03 (0.02)
Count model: logPopd	0.89*** (0.03)	0.19** (0.06)	0.90*** (0.03)	1.12*** (0.04)	0.90*** (0.03)	0.48*** (0.03)	0.73*** (0.03)	0.74*** (0.04)
Count model: region3	-0.43*** (0.07)	0.40*** (0.08)	-0.45*** (0.07)	0.40*** (0.09)	-0.44*** (0.07)	-0.45*** (0.07)	-0.12 (0.08)	0.31*** (0.08)
Zero model: (Intercept)	6.01*** (0.73)	6.14*** (0.84)	6.24*** (0.74)	6.56*** (0.85)	6.05*** (0.75)	6.71*** (0.76)	7.46*** (0.78)	6.24*** (0.70)
Zero model: sqrtSpAll	-0.00 (0.02)	0.01 (0.02)	-0.00 (0.02)	-0.06** (0.02)	0.01 (0.02)	-0.02 (0.02)	-0.06** (0.02)	0.04* (0.02)
Zero model: mountains.mean	-0.94*** (0.23)	-1.30*** (0.25)	-0.90*** (0.23)	-0.40 (0.27)	-1.05*** (0.23)	-0.93*** (0.24)	-0.36 (0.26)	-1.38*** (0.25)
Zero model: water.gc	0.00 (0.01)	-0.00 (0.01)	-0.00 (0.01)	0.01 (0.01)	0.00 (0.01)	0.01 (0.01)	0.01 (0.01)	0.00 (0.01)
Zero model: barren.gc	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)
Zero model: logCDist	-0.15** (0.05)	-0.21*** (0.06)	-0.15** (0.05)	-0.17** (0.06)	-0.14** (0.05)	-0.16** (0.05)	-0.19*** (0.05)	-0.17*** (0.05)
Zero model: logBDist	0.08 (0.07)	0.21** (0.07)	0.06 (0.07)	0.11 (0.07)	0.07 (0.07)	0.10 (0.07)	0.06 (0.07)	0.07 (0.07)
Zero model: logPopd	-0.60*** (0.12)	-0.30* (0.12)	-0.64*** (0.09)	-0.57*** (0.10)	-0.62*** (0.09)	-0.57*** (0.10)	-0.63*** (0.09)	-0.45*** (0.10)
Zero model: region3	0.59* (0.26)	0.15 (0.27)	0.60* (0.26)	0.38 (0.27)	0.53* (0.26)	0.90*** (0.26)	0.49 (0.29)	0.19 (0.29)
Count model: gbr						1.12*** (0.10)		
Count model: sqrtSpAll:gbr						0.10*** (0.01)		
Zero model: gbr						-1.12*** (0.25)		
Zero model: sqrtSpAll:gbr						0.00 (0.03)		
Count model: region1							1.35*** (0.08)	
Count model: sqrtSpAll:region1							-0.26*** (0.01)	
Zero model: region1							-1.65*** (0.24)	
Zero model: sqrtSpAll:region1							0.08* (0.03)	
Count model: region5								-1.48*** (0.11)
Count model: sqrtSpAll:region5								0.30*** (0.01)
Zero model: region5								0.57 (0.36)
Zero model: sqrtSpAll:region5								-0.16*** (0.04)
AIC	7795.41	4729.80	7634.24	4950.45	7635.25	6689.10	6917.96	6804.82
Log Likelihood	-3879.71	-2346.90	-3799.12	-2457.23	-3799.02	-3322.55	-3380.41	-3380.41
Num. obs.	9492	9184	9419	9305	9410	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 7: Non-state conflict events

	Main ZINB model	Excluding Nigeria	Excluding Uganda	Excluding Kenya	Excluding Ghana	Former British colony interaction	East Africa interaction	West Africa interaction
Count model: (Intercept)	4.08*** (0.03)	4.94*** (0.03)	4.09*** (0.03)	3.99*** (0.03)	4.09*** (0.03)	3.92*** (0.03)	3.89*** (0.03)	4.44*** (0.03)
Count model: sqrtSpAll	-0.02*** (0.00)	-0.08*** (0.00)	-0.03*** (0.00)	-0.03*** (0.00)	-0.03*** (0.00)	-0.11*** (0.00)	0.00** (0.00)	-0.07*** (0.00)
Count model: mountains.mean	1.39*** (0.01)	1.53*** (0.02)	1.39*** (0.01)	1.39*** (0.01)	1.38*** (0.01)	1.60*** (0.02)	1.72*** (0.01)	1.35*** (0.02)
Count model: water.gc	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)
Count model: barren.gc	-0.02*** (0.00)	-0.02*** (0.00)	-0.02*** (0.00)	-0.03*** (0.00)	-0.02*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.02*** (0.00)
Count model: logCDist	-0.19*** (0.00)	-0.21*** (0.00)	-0.19*** (0.00)	-0.19*** (0.00)	-0.19*** (0.00)	-0.18*** (0.00)	-0.19*** (0.00)	-0.20*** (0.00)
Count model: logBDist	0.31*** (0.01)	0.19*** (0.01)	0.31*** (0.01)	0.36*** (0.01)	0.31*** (0.01)	0.24*** (0.01)	0.43*** (0.01)	0.29*** (0.01)
Count model: logPopd	0.15*** (0.00)	0.08*** (0.01)	0.16*** (0.00)	0.16*** (0.00)	0.15*** (0.00)	0.07*** (0.00)	0.05*** (0.00)	0.24*** (0.01)
Count model: region3	-0.45*** (0.02)	-0.13*** (0.02)	-0.46*** (0.02)	-0.42*** (0.02)	-0.46*** (0.02)	-0.45*** (0.02)	-0.35*** (0.02)	-0.38*** (0.02)
Zero model: (Intercept)	2.59*** (0.11)	2.35*** (0.22)	2.65*** (0.12)	2.58*** (0.12)	2.56*** (0.12)	2.31*** (0.12)	2.35*** (0.13)	2.66*** (0.12)
Zero model: sqrtSpAll	0.01 (0.01)	0.02* (0.01)	0.01 (0.01)	-0.01 (0.01)	0.01 (0.01)	0.03*** (0.01)	0.02* (0.01)	0.03*** (0.01)
Zero model: mountains.mean	-0.39*** (0.11)	-0.64*** (0.12)	-0.36*** (0.12)	-0.22 (0.12)	-0.37** (0.12)	-0.62*** (0.12)	-0.13 (0.13)	-0.70*** (0.12)
Zero model: water.gc	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.01 (0.00)	0.00 (0.00)	0.00 (0.00)	0.01 (0.00)	0.00 (0.00)
Zero model: barren.gc	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)
Zero model: logCDist	-0.04** (0.01)	-0.05*** (0.01)	-0.04** (0.01)	-0.04** (0.01)	-0.04** (0.01)	-0.03 (0.01)	-0.04** (0.01)	-0.04** (0.01)
Zero model: logBDist	0.12*** (0.03)	0.19*** (0.03)	0.11*** (0.03)	0.14*** (0.03)	0.13*** (0.03)	0.15*** (0.03)	0.15*** (0.03)	0.10** (0.03)
Zero model: logPopd	-0.67*** (0.04)	-0.41*** (0.05)	-0.67*** (0.04)	-0.65*** (0.04)	-0.68*** (0.04)	-0.61*** (0.04)	-0.70*** (0.04)	-0.56*** (0.04)
Zero model: region3	-0.32** (0.10)	-0.66*** (0.11)	-0.30** (0.10)	-0.37*** (0.11)	-0.29** (0.10)	-0.28** (0.10)	-0.51*** (0.11)	-0.62*** (0.12)
Count model: gbr						0.53*** (0.02)		
Count model: sqrtSpAll:gbr						0.14*** (0.02)		
Zero model: gbr								
Zero model: sqrtSpAll:gbr								
Count model: region1								
Count model: sqrtSpAll:region1								
Zero model: region1								
Zero model: sqrtSpAll:region1								
Count model: region5								
Count model: sqrtSpAll:region5								
Zero model: region5								
Zero model: sqrtSpAll:region5								
AIC	123045.16	94951.29	122361.22	117843.37	122810.24	107899.82	108719.66	117864.88
Log Likelihood	-61504.58	-47457.65	-61162.61	-58903.69	-61387.12	-53927.91	-54337.83	-58910.44
Num. obs.	9492	9184	9419	9305	9410	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 8: Communal violence events

	Main ZINB model			Excluding Nigeria	Excluding Uganda	Excluding Kenya	Excluding Ghana	Former British colony interaction	East Africa interaction	West Africa interaction
Count model: (Intercept)	2.08*** (0.05)	2.68*** (0.05)	1.95*** (0.05)	2.15*** (0.05)	2.10*** (0.05)	2.32*** (0.05)	1.61*** (0.05)			2.38*** (0.05)
Count model: sqrtSpAll	-0.02*** (0.00)	-0.06*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.06*** (0.00)	0.02*** (0.00)			-0.07*** (0.00)
Count model: mountains.mean	-0.06*** (0.03)	0.12*** (0.03)	-0.16*** (0.03)	-0.19*** (0.03)	-0.09*** (0.03)	0.09** (0.03)	-0.18*** (0.03)			0.01 (0.03)
Count model: water.gc	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)			-0.01*** (0.00)
Count model: barren.gc	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)	-0.01*** (0.00)			-0.01*** (0.00)
Count model: logCDist	-0.03*** (0.00)	-0.01*** (0.00)	-0.03*** (0.00)	-0.03*** (0.00)	-0.03*** (0.00)	-0.03*** (0.00)	-0.02*** (0.00)			-0.03*** (0.00)
Count model: logBDist	0.02*** (0.01)	-0.11*** (0.01)	0.05*** (0.01)	0.01*** (0.01)	0.02*** (0.01)	-0.01*** (0.01)	0.02*** (0.01)			0.02*** (0.01)
Count model: logPopd	0.22*** (0.01)	0.01*** (0.01)	0.24*** (0.01)	0.22*** (0.01)	0.22*** (0.01)	0.21*** (0.01)	0.24*** (0.01)			0.21*** (0.01)
Count model: region3	0.54*** (0.02)	0.92*** (0.02)	0.32*** (0.02)	0.56*** (0.02)	0.51*** (0.02)	0.47*** (0.02)	0.69*** (0.02)			0.80*** (0.03)
Zero model: (Intercept)	2.28*** (0.18)	2.07*** (0.19)	2.27*** (0.18)	2.29*** (0.19)	2.25*** (0.18)	2.04*** (0.18)	2.54*** (0.19)			2.25*** (0.18)
Zero model: sqrtSpAll	0.01*** (0.01)	0.02*** (0.01)	0.00*** (0.01)	-0.01*** (0.01)	0.01*** (0.01)	0.03*** (0.01)	0.01*** (0.01)			0.04*** (0.01)
Zero model: mountains.mean	0.18*** (0.10)	0.03*** (0.11)	0.23*** (0.11)	0.39*** (0.11)	0.16*** (0.10)	-0.02*** (0.11)	0.55*** (0.11)			-0.19*** (0.11)
Zero model: water.gc	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)			0.00*** (0.00)
Zero model: barren.gc	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.02*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)			0.02*** (0.00)
Zero model: logCDist	-0.06*** (0.01)	-0.07*** (0.01)	-0.06*** (0.01)	-0.06*** (0.01)	-0.06*** (0.01)	-0.05*** (0.01)	-0.07*** (0.01)			-0.06*** (0.01)
Zero model: logBDist	0.15*** (0.03)	0.18*** (0.03)	0.13*** (0.03)	0.16*** (0.03)	0.15*** (0.03)	0.17*** (0.03)	0.16*** (0.03)			0.13*** (0.03)
Zero model: logPopd	-0.99*** (0.04)	-0.86*** (0.04)	-0.97*** (0.04)	-0.97*** (0.04)	-1.00*** (0.04)	-0.95*** (0.04)	-1.05*** (0.04)			-0.86*** (0.04)
Zero model: region3	-0.39*** (0.09)	-0.59*** (0.09)	-0.39*** (0.09)	-0.45*** (0.09)	-0.41*** (0.09)	-0.24*** (0.09)	-0.59*** (0.09)			-0.79*** (0.10)
Count model: gbr						-0.17*** (0.03)				-0.77*** (0.04)
Count model: sqrtSpAll:gbr						0.08*** (0.00)				0.13*** (0.00)
Zero model: gbr						0.09*** (0.00)				-0.05 (0.13)
Zero model: sqrtSpAll:gbr						-0.11*** (0.01)				-0.10*** (0.02)
Count model: region1										
Count model: sqrtSpAll:region1										
Zero model: region1										
Zero model: sqrtSpAll:region1										
Count model: region5										
Count model: sqrtSpAll:region5										
Zero model: region5										
Zero model: sqrtSpAll:region5										
AIC	41368.21	33435.45	39999.08	39295.53	40856.68	40577.65	40511.83			40389.93
Log Likelihood	-20666.10	-16699.73	-19981.54	-19629.76	-20410.34	-20266.82	-20172.96			-20172.96
Num. obs.	9492	9184	9419	9305	9410	9492	9492			9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 9: NA

	Main ZINB model	Excluding Nigeria	Excluding Uganda	Excluding Kenya	Excluding Ghana	Former British colony interaction	East Africa interaction	West Africa interaction
Count model: (Intercept)	2.75*** (0.03)	3.00*** (0.03)	2.56*** (0.03)	2.78*** (0.03)	2.79*** (0.03)	2.88*** (0.03)	2.75*** (0.03)	3.00*** (0.03)
Count model: sqrtSpAll	0.04*** (0.00)	0.00 (0.00)	0.04*** (0.00)	0.04*** (0.00)	0.05*** (0.00)	0.01*** (0.00)	0.05*** (0.00)	-0.00* (0.00)
Count model: mountains.mean	-0.02 (0.01)	0.36*** (0.02)	-0.13*** (0.01)	-0.07*** (0.01)	-0.07*** (0.01)	0.12*** (0.01)	0.05*** (0.01)	0.17*** (0.01)
Count model: water.gc	0.00*** (0.00)	0.01*** (0.00)	0.00*** (0.00)	0.00* (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)	0.00*** (0.00)
Count model: barren.gc	-0.02*** (0.00)	-0.01*** (0.00)	-0.02*** (0.00)	-0.02*** (0.00)	-0.02*** (0.00)	-0.01*** (0.00)	-0.02*** (0.00)	-0.01*** (0.00)
Count model: logCDist	0.04*** (0.00)	0.12*** (0.00)	0.05*** (0.00)	0.04*** (0.00)	0.04*** (0.00)	0.04*** (0.00)	0.04*** (0.00)	0.04*** (0.00)
Count model: logBDist	-0.01** (0.00)	-0.20*** (0.00)	0.01*** (0.00)	-0.01** (0.00)	-0.02*** (0.00)	-0.04*** (0.00)	-0.01** (0.00)	-0.01** (0.00)
Count model: logPopd	0.22*** (0.00)	-0.22*** (0.01)	0.24*** (0.00)	0.23*** (0.00)	0.22*** (0.00)	0.18*** (0.00)	0.21*** (0.00)	0.18*** (0.00)
Count model: region3	0.86*** (0.01)	1.32*** (0.01)	0.84*** (0.01)	0.89*** (0.01)	0.83*** (0.01)	0.69*** (0.01)	0.84*** (0.01)	1.09*** (0.01)
Zero model: (Intercept)	3.11*** (0.20)	2.84*** (0.21)	3.15*** (0.21)	3.17*** (0.21)	3.08*** (0.21)	2.80*** (0.21)	3.38*** (0.21)	3.02*** (0.21)
Zero model: sqrtSpAll	0.01 (0.01)	0.03*** (0.01)	0.01 (0.01)	-0.01 (0.01)	0.01 (0.01)	0.04*** (0.01)	0.01 (0.01)	0.05*** (0.01)
Zero model: mountains.mean	0.15 (0.11)	-0.04 (0.11)	0.20 (0.11)	0.39** (0.12)	0.14 (0.11)	-0.08 (0.11)	0.54*** (0.12)	-0.21 (0.12)
Zero model: water.gc	-0.00 (0.00)	-0.00 (0.00)	-0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	-0.00 (0.00)
Zero model: barren.gc	0.02*** (0.00)	0.02*** (0.00)	0.02*** (0.00)	0.02*** (0.00)	0.02*** (0.00)	0.01*** (0.00)	0.02*** (0.00)	0.02*** (0.00)
Zero model: logCDist	-0.09*** (0.01)	-0.10*** (0.01)	-0.09*** (0.01)	-0.09*** (0.01)	-0.09*** (0.01)	-0.08*** (0.01)	-0.10*** (0.01)	-0.08*** (0.01)
Zero model: logBDist	0.10*** (0.03)	0.15*** (0.03)	0.09** (0.03)	0.12*** (0.03)	0.10*** (0.03)	0.13*** (0.03)	0.12*** (0.03)	0.08** (0.03)
Zero model: logPopd	-0.95*** (0.04)	-0.77*** (0.04)	-0.95*** (0.04)	-0.94*** (0.04)	-0.96*** (0.04)	-0.91*** (0.04)	-1.01*** (0.04)	-0.83*** (0.04)
Zero model: region3	-0.54*** (0.09)	-0.83*** (0.10)	-0.53*** (0.09)	-0.62*** (0.09)	-0.55*** (0.09)	-0.39*** (0.10)	-0.77*** (0.10)	-0.96*** (0.11)
Count model: gbr								
Count model: sqrtSpAll:gbr								
Zero model: gbr								
Zero model: sqrtSpAll:gbr								
Count model: region1							0.01 (0.01)	
Count model: sqrtSpAll:region1							-0.01*** (0.00)	
Zero model: region1							-0.57*** (0.10)	
Zero model: sqrtSpAll:region1							-0.03 (0.01)	
Count model: region5								-0.55*** (0.02)
Count model: sqrtSpAll:region5								0.10*** (0.00)
Zero model: region5								0.06 (0.14)
Zero model: sqrtSpAll:region5								-0.11*** (0.02)
AIC	248285.49	170871.39	241049.80	240876.11	244695.73	248855.08	248110.67	244685.14
Log Likelihood	-124124.75	-85417.69	-120506.90	-120420.06	-122329.86	-121905.54	-124033.34	-122320.57
Num. obs.	9492	9184	9419	9305	9410	9492	9492	9492

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; $p < 0.1$

Table 10: NA