

Table S1. Localized climate trends mentioned by rural local municipalities in Limpopo Province

Local Municipality	MAIN LOCAL CLIMATIC TRENDS									
	Rising temperature	Heatwaves	More intense rainfall	Erratic rainfall	Declining rainfall	Increasing dry spells	Heatwaves	Cyclones	Hailstorm	Strong winds
Blouberg		✓		✓						
Collins Chabane	✓									
Elias Motsoaledi			✓						✓	
Ephraim Mogale			✓							
Fetakgomo Tubatse			✓							✓
Greater Giyani		✓								
Greater Letaba										
Greater Tzaneen			✓						✓	✓
Lepelle-Nkumpi	✓	✓	✓		✓	✓				
Makhado			✓					✓	✓	
Makhuduthamaga			✓							
Maruleng			✓					✓	✓	✓
Molemole										
Thulamela			✓					✓	✓	

Table S1 above provides more detailed results that are summarized in Figure 3 of the paper in section 3.2.

Table S2. Hydroclimatic hazards referred to by rural local municipalities in Limpopo Province

Local Municipality	HYDROCLIMATIC HAZARD											
	Hot temperature/Heatwave	Heavy/severe/intense storms	Floods	Erratic/fluctuating rainfall	Hailstorm	Hurricane	Cyclone	Drought	Increasing dry spells	Veldfires	Strong winds	TOTAL
Blouberg	✓			✓				✓				3
Collins Chabane	✓		✓					✓				3
Elias Motsoaledi		✓	✓		✓			✓		✓		5
Ephraim Mogale		✓	✓					✓		✓		4
Fetakgomo Tubatse		✓						✓			✓	3
Greater Giyani	✓		✓					✓				3
Greater Letaba		✓	✓	✓				✓		✓		5
Greater Tzaneen		✓	✓		✓					✓	✓	5
Lepelle-Nkumpi	✓	✓	✓					✓	✓	✓		6
Makhado		✓	✓		✓	✓	✓	✓		✓		7
Makhuduthamaga		✓								✓		2
Maruleng		✓	✓		✓	✓	✓	✓		✓	✓	8
Molemole										✓		1
Thulamela		✓	✓		✓	✓	✓	✓		✓		7
TOTAL	4	10	10	2	5	3	3	11	1	10	3	

Table S2 above provides more detail on the hydroclimatic hazards that are presented in section 3.2

Table S3. Environmental vulnerabilities identified by rural local municipalities in Limpopo Province

Local Municipality	ENVIRONMENTAL VULNERABILITIES														
	Air pollution	Alien plant species	Biodiversity loss	Bush encroachment	Deforestation	Desertification	Land degradation	Landslide	Mudslide	Overgrazing	Sand mining	Soil erosion	Stormwater drainage	Water pollution	TOTAL
Blouberg					✓		✓			✓			✓		4
Collins Chabane	✓			✓	✓	✓	✓			✓		✓			7
Elias Motsoaledi	✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	10
Ephraim Mogale							✓						✓	✓	3
Fetakgomo Tubatse	✓						✓			✓		✓			4
Greater Giyani	✓		✓		✓		✓			✓		✓		✓	7
Greater Letaba				✓	✓		✓					✓	✓	✓	6
Greater Tzaneen					✓		✓			✓		✓			4
Lepelle-Nkumpi	✓	✓	✓		✓		✓			✓		✓			7
Makhado	✓				✓	✓	✓	✓	✓			✓			7
Makhuduthamaga	✓				✓		✓			✓		✓		✓	6
Maruleng	✓				✓		✓	✓	✓	✓		✓		✓	8
Molemole	✓	✓			✓					✓		✓			5
Thulamela	✓				✓	✓	✓	✓	✓						6
TOTAL	10	3	2	2	12	4	13	3	4	9	1	11	4	6	

Table S3 above provides more detailed environmental vulnerabilities that are summarized in Figure 4 under section 3.2