

# Mapping soil-transmitted helminth parasite infection in Rwanda: estimating endemicity and identifying at-risk populations

## Supplementary File 1

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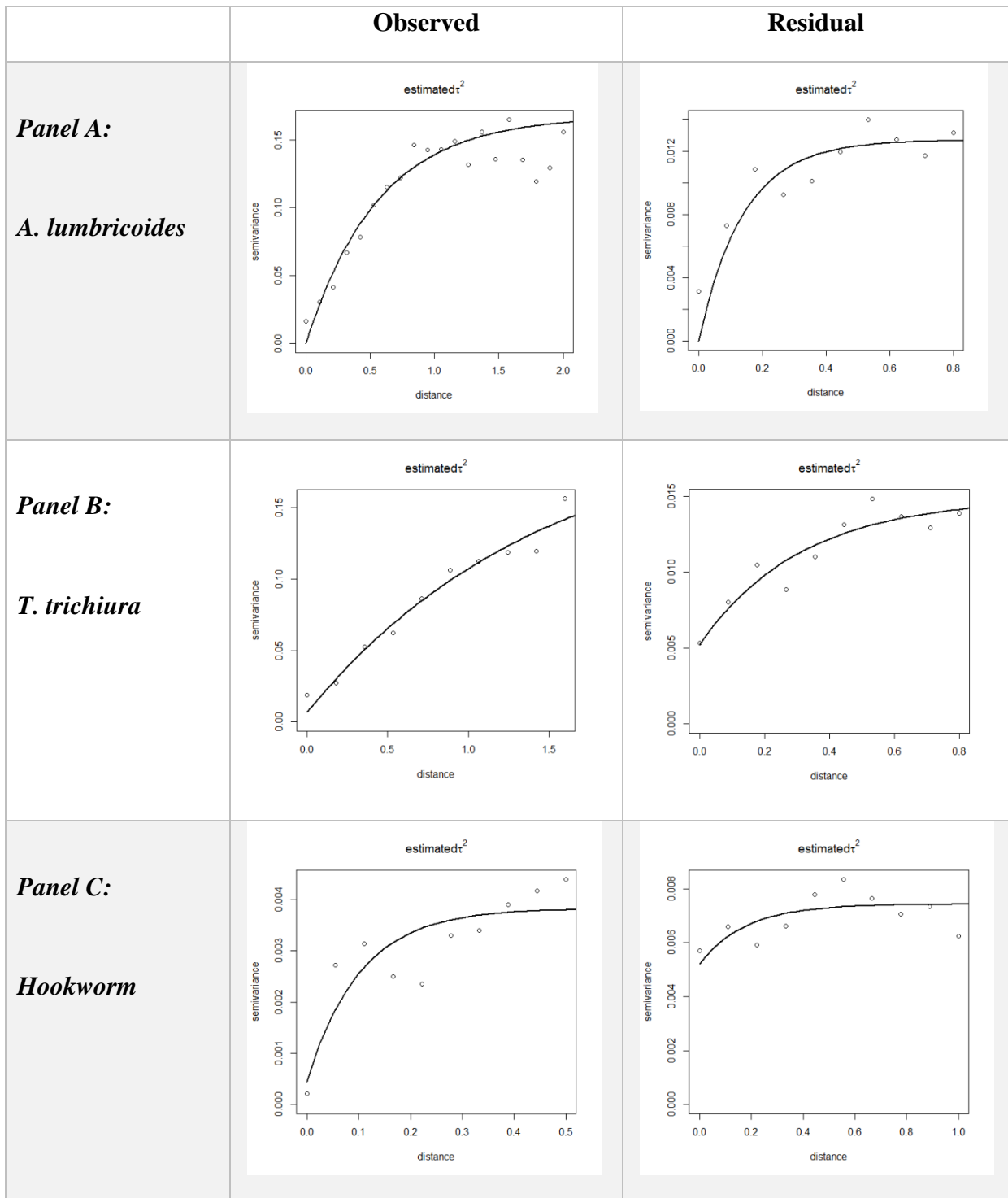
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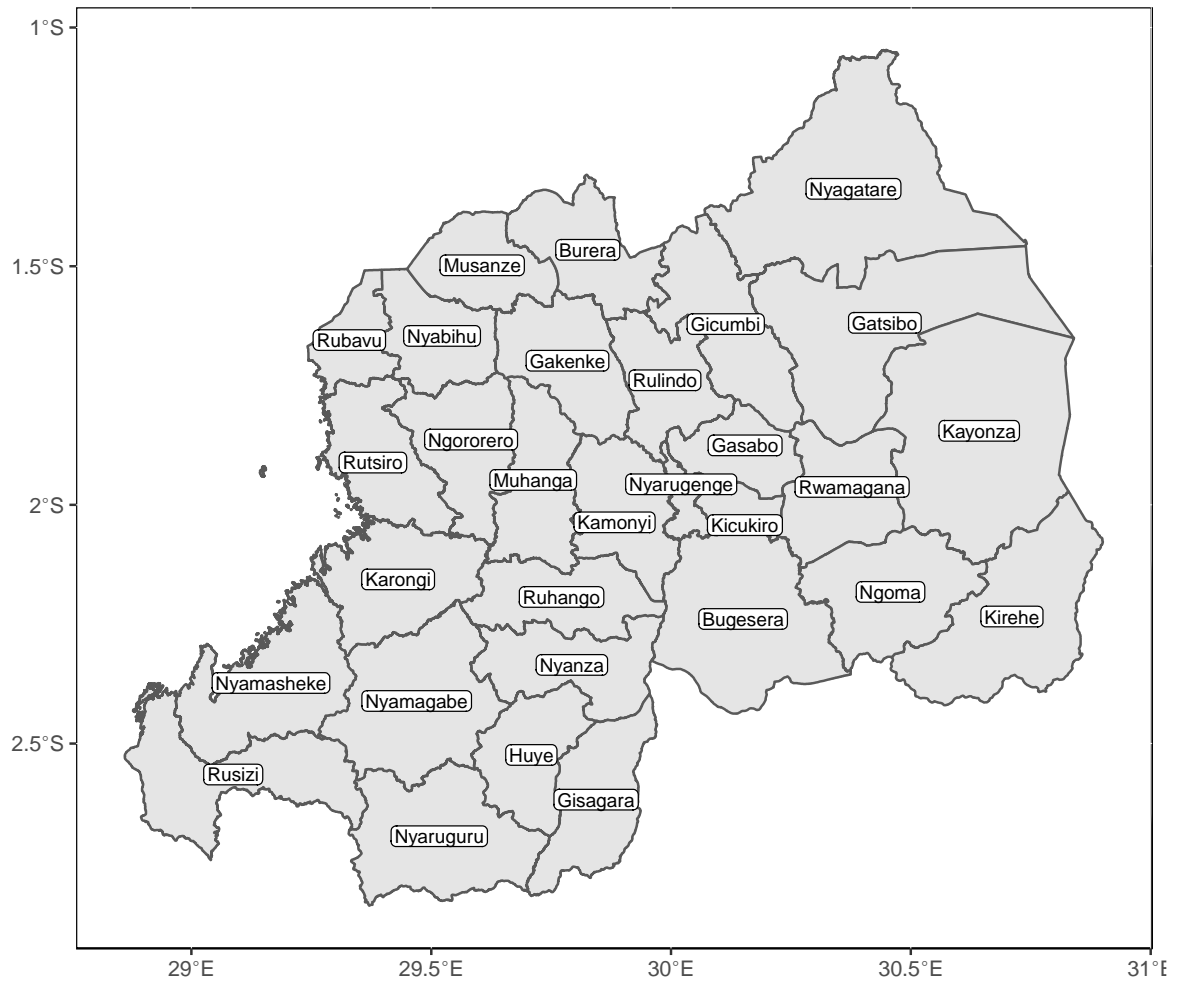
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**Figure S1:** Semivariograms of observed and residual spatial dependence.





**Figure S2:** Map of Rwanda’s provincial districts. This figure was produced in R version 3.5 using a shapefile representing Rwanda’s current administrative units (obtained from the data warehouse DIVA GIS ([www.diva-gis.org/Data](http://www.diva-gis.org/Data))).

**Table S1:** Prevalence of soil-transmitted (STH) helminth infection, represented as proportions of surveyed individuals found to be infected with at least one STH parasite (STH), *A. lumbricoides*, *T. trichiura* and hookworm, in Rwanda across two survey periods

District	2008 STH	2008 Ascaris	2008 Hookworm	2008 Trichuris	2014 STH	2014 Ascaris	2014 Hookworm	2014 Trichuris
Bugesera	0.432	0.028	0.402	0.036	0.108	0.064	0.028	0.036
Burera	0.958	0.865	0.015	0.663	0.802	0.734	0.046	0.542
Gakenke	0.678	0.496	0.347	0.373	0.469	0.403	0.071	0.183
Gasabo	0.152	0.052	0.100	0.013	0.057	0.029	0.017	0.014
Gatsibo	0.543	0.078	0.519	0.053	0.244	0.180	0.048	0.052
Gicumbi	0.686	0.322	0.462	0.136	0.526	0.486	0.011	0.223
Gisagara	0.588	0.279	0.467	0.067	0.293	0.240	0.047	0.037
Huye	0.720	0.614	0.305	0.127	0.455	0.439	0.016	0.053
Kamonyi	0.421	0.100	0.342	0.038	0.196	0.128	0.028	0.048
Karongi	0.675	0.542	0.136	0.301	0.723	0.589	0.031	0.374
Kayonza	0.452	0.013	0.431	0.016	0.177	0.067	0.080	0.063
Kicukiro	0.076	0.040	0.000	0.049	0.021	0.008	0.008	0.004
Kirehe	0.796	0.008	0.779	0.088	0.168	0.040	0.100	0.040
Muhanga	0.753	0.300	0.563	0.057	0.250	0.193	0.043	0.027

<b>District</b>	<b>2008 STH</b>	<b>2008 Ascar is</b>	<b>2008 Hookwor m</b>	<b>2008 Trichur is</b>		<b>2014 STH</b>	<b>2014 Ascar is</b>	<b>2014 Hookwor m</b>	<b>2014 Trichur is</b>
Musanze	0.947	0.795	0.210	0.705		0.771	0.655	0.033	0.552
Ngoma	0.533	0.004	0.521	0.050		0.105	0.095	0.007	0.003
Ngororero	0.789	0.620	0.413	0.112		0.588	0.508	0.064	0.124
Nyabihu	0.915	0.847	0.119	0.617		0.884	0.824	0.004	0.424
Nyagatare	0.657	0.240	0.492	0.157		0.225	0.053	0.143	0.073
Nyamagabe	0.822	0.744	0.157	0.467		0.563	0.535	0.020	0.220
Nyamasheke	0.922	0.611	0.336	0.725		0.563	0.417	0.051	0.257
Nyanza	0.494	0.085	0.464	0.055		0.128	0.080	0.032	0.020
Nyarugenge	0.203	0.031	0.114	0.095		0.060	0.052	0.000	0.012
Nyaruguru	0.874	0.824	0.167	0.531		0.799	0.779	0.028	0.225
Rubavu	0.955	0.827	0.000	0.909		0.896	0.779	0.003	0.842
Ruhango	0.544	0.194	0.435	0.017		0.120	0.092	0.012	0.016
Rulindo	0.718	0.564	0.174	0.386		0.468	0.456	0.004	0.116
Rusizi	0.715	0.559	0.254	0.361		0.754	0.549	0.096	0.549
Rutsiro	0.935	0.805	0.264	0.687		0.877	0.835	0.005	0.599
Rwamagana	0.701	0.027	0.683	0.016		0.077	0.012	0.056	0.008

