

geno_pop ~ bio12 + bio1 + SP + MWMT + bio15 + bio4 + bio3

r.squared 0.46

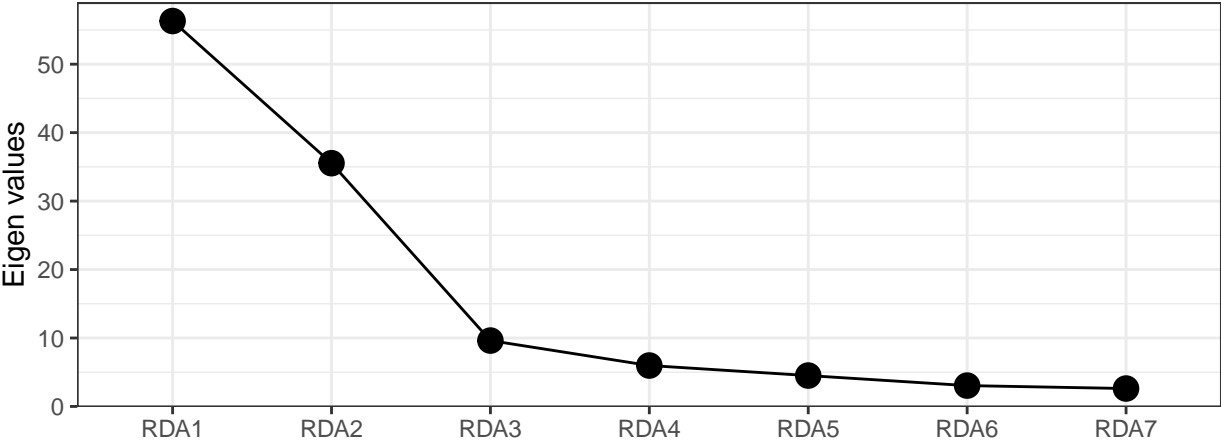
adj.r.squared 0.31

	Df	Variance	F	Pr(>F)
Model	7	117.615	3.166	0.001
RDA1	1	56.302	10.608	0.001
RDA2	1	35.534	6.695	0.001
RDA3	1	9.623	1.813	0.664
RDA4	1	5.979	1.126	0.915
RDA5	1	4.513	0.85	0.959
RDA6	1	3.046	0.574	0.987
RDA7	1	2.618	0.493	0.946

	bio12	bio1	SP	MWMT	bio15	bio4	bio3
VIF	21.02	53.12	20.06	94.55	12.94	79.22	1.74

	RDA1	RDA2	RDA3	RDA4	RDA5	RDA6	RDA7
Eigenvalue	56.3	35.53	9.62	5.98	4.51	3.05	2.62
Proportion Explained	0.48	0.3	0.08	0.05	0.04	0.03	0.02
Cumulative Proportion	0.48	0.78	0.86	0.91	0.95	0.98	1

Scree plot



geno_pop ~ bio12 + bio1 + SP + MWMT + bio15 + bio4 + bio3 + Condition(PC1 + PC2 + PC3)

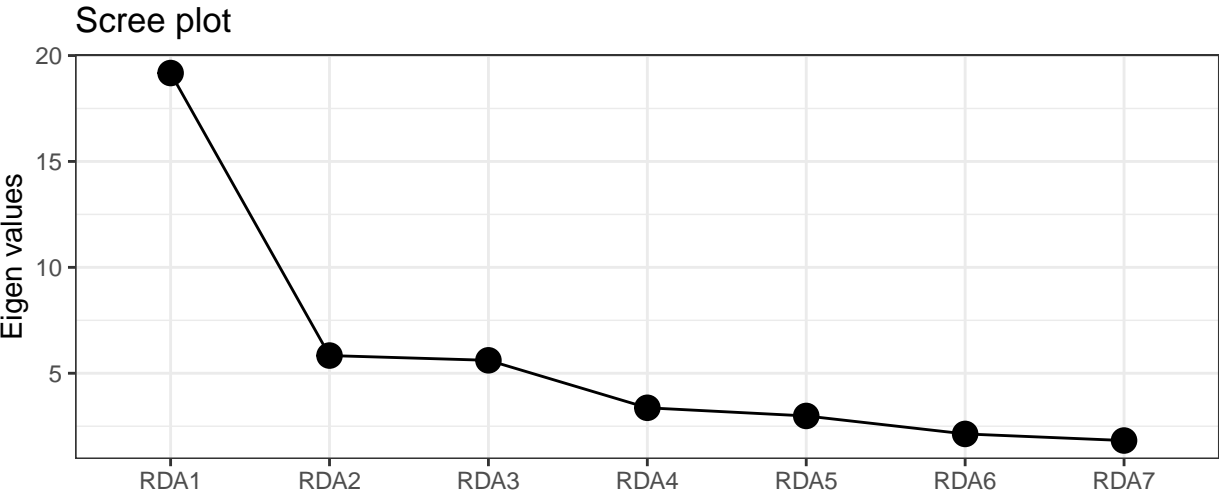
r.squared 0.16

adj.r.squared 0.09

	Df	Variance	F	Pr(>F)
Model	7	40.936	2.013	0.001
RDA1	1	19.174	6.6	0.001
RDA2	1	5.836	2.009	0.318
RDA3	1	5.611	1.931	0.19
RDA4	1	3.37	1.16	0.881
RDA5	1	2.985	1.027	0.907
RDA6	1	2.136	0.735	0.988
RDA7	1	1.824	0.628	0.949

	PC1	PC2	PC3	bio12	bio1	SP	MWMT	bio15	bio4	bio3
VIF	6.71	12.76	3.6	21.19	293.21	21.01	483.97	13.93	496.27	3.96

	RDA1	RDA2	RDA3	RDA4	RDA5	RDA6	RDA7
Eigenvalue	19.17	5.84	5.61	3.37	2.98	2.14	1.82
Proportion Explained	0.47	0.14	0.14	0.08	0.07	0.05	0.04
Cumulative Proportion	0.47	0.61	0.75	0.83	0.9	0.96	1



geno_pop ~ bio1 + bio12 + bio15 + bio3 + bio4 + SHM

r.squared 0.41

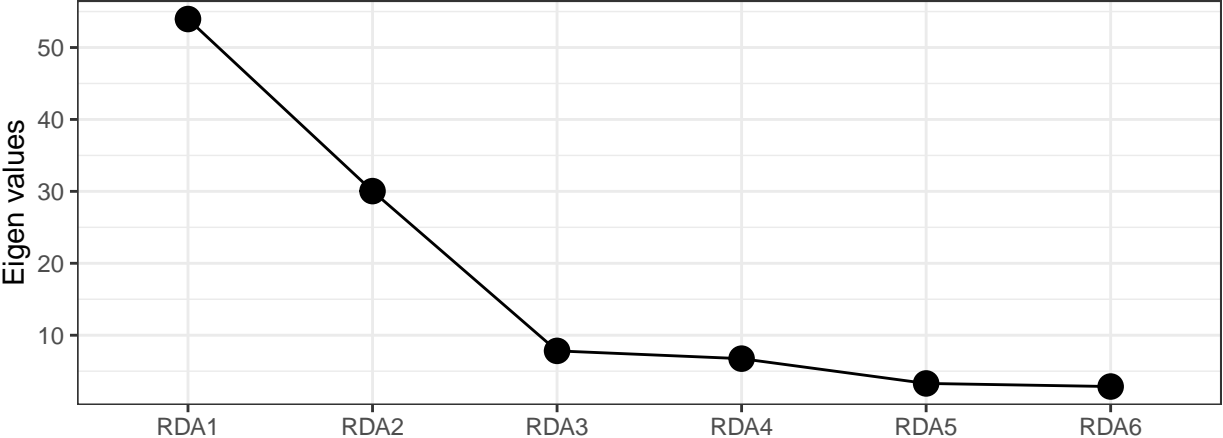
adj.r.squared 0.28

	Df	Variance	F	Pr(>F)
Model	6	104.721	3.123	0.001
RDA1	1	53.959	9.655	0.001
RDA2	1	30.035	5.374	0.001
RDA3	1	7.823	1.4	0.757
RDA4	1	6.742	1.206	0.738
RDA5	1	3.295	0.59	0.982
RDA6	1	2.867	0.513	0.938

	bio1	bio12	bio15	bio3	bio4	SHM
VIF	1.84	7.5	6.4	1.66	2	8.94

	RDA1	RDA2	RDA3	RDA4	RDA5	RDA6
Eigenvalue	53.96	30.04	7.82	6.74	3.3	2.87
Proportion Explained	0.52	0.29	0.07	0.06	0.03	0.03
Cumulative Proportion	0.52	0.8	0.88	0.94	0.97	1

Scree plot



geno_pop ~ bio1 + bio12 + bio15 + bio3 + bio4 + SHM + Condition(PC1 + PC2 + PC3)

r.squared 0.14

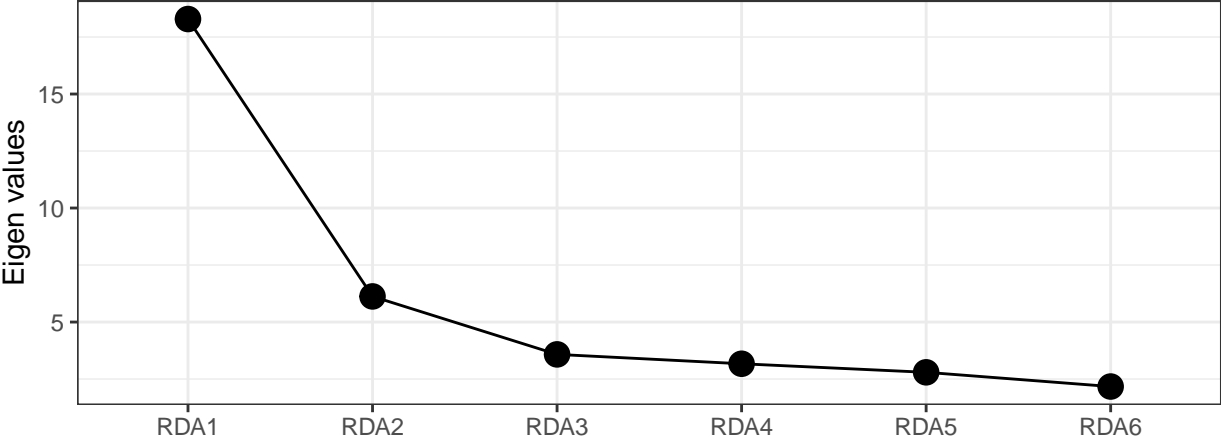
adj.r.squared 0.08

	Df	Variance	F	Pr(>F)
Model	6	36.131	2.018	0.001
RDA1	1	18.289	6.128	0.001
RDA2	1	6.124	2.052	0.225
RDA3	1	3.581	1.2	0.819
RDA4	1	3.17	1.062	0.856
RDA5	1	2.795	0.936	0.866
RDA6	1	2.172	0.728	0.862

	PC1	PC2	PC3	bio1	bio12	bio15	bio3	bio4	SHM
VIF	3.26	2.74	1.61	2.21	7.66	9.19	2.46	3.9	9.45

	RDA1	RDA2	RDA3	RDA4	RDA5	RDA6
Eigenvalue	18.29	6.12	3.58	3.17	2.79	2.17
Proportion Explained	0.51	0.17	0.1	0.09	0.08	0.06
Cumulative Proportion	0.51	0.68	0.77	0.86	0.94	1

Scree plot



geno_pop ~ AHM + SHM + bio15 + bio4 + bio3

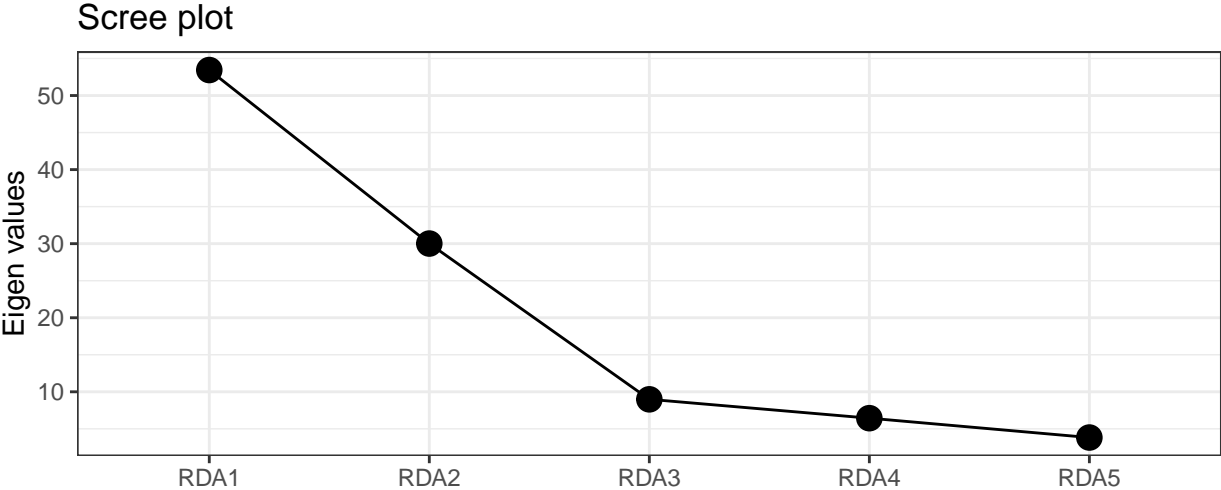
r.squared 0.4

adj.r.squared 0.3

	Df	Variance	F	Pr(>F)
<i>Model</i>	5	102.709	3.762	0.001
<i>RDA1</i>	1	53.443	9.787	0.001
<i>RDA2</i>	1	30.016	5.497	0.001
<i>RDA3</i>	1	8.984	1.645	0.424
<i>RDA4</i>	1	6.439	1.179	0.569
<i>RDA5</i>	1	3.827	0.701	0.748

	AHM	SHM	bio15	bio4	bio3
<i>VIF</i>	8.5	10.81	6.58	1.7	1.21

	RDA1	RDA2	RDA3	RDA4	RDA5
<i>Eigenvalue</i>	53.44	30.02	8.98	6.44	3.83
<i>Proportion Explained</i>	0.52	0.29	0.09	0.06	0.04
<i>Cumulative Proportion</i>	0.52	0.81	0.9	0.96	1



geno_pop ~ AHM + SHM + bio15 + bio4 + bio3 + Condition(PC1 + PC2 + PC3)

r.squared 0.13

adj.r.squared 0.08

	Df	Variance	F	Pr(>F)
<i>Model</i>	5	32.6	2.169	0.001
<i>RDA1</i>	1	18.038	6	0.001
<i>RDA2</i>	1	5.641	1.876	0.195
<i>RDA3</i>	1	3.655	1.216	0.668
<i>RDA4</i>	1	2.968	0.987	0.795
<i>RDA5</i>	1	2.299	0.765	0.822

	PC1	PC2	PC3	AHM	SHM	bio15	bio4	bio3
<i>VIF</i>	3.26	2.61	1.64	10.47	15.64	7.63	2.88	2.82

	RDA1	RDA2	RDA3	RDA4	RDA5
<i>Eigenvalue</i>	18.04	5.64	3.65	2.97	2.3
<i>Proportion Explained</i>	0.55	0.17	0.11	0.09	0.07
<i>Cumulative Proportion</i>	0.55	0.73	0.84	0.93	1

Scree plot

