

SUPPLEMENTARY ONLINE MATERIALS

Table S1 - Results from statistical analysis of interacting environmental change factors on nematode communities: composition and diversity indices. *P*-values < 0.05 are shown in bold, and those <0.07 are underlined.

Effect	Composition		Shannon H'		Richness		Evenness		Abundance	
	pseudo- <i>F</i>	<i>P</i>	<i>ChiSq</i>	<i>P</i>	<i>ChiSq</i>	<i>P</i>	<i>ChiSq</i>	<i>P</i>	<i>ChiSq</i>	<i>P</i>
Warming	0.90	0.4891	8.22	0.0042	6.58	0.0103	6.29	0.0121	0.79	0.3726
Precipitation	0.81	0.5614	0.01	0.9028	0.14	0.7039	0.01	0.9813	0.21	0.6458
Nitrogen	0.89	0.4896	1.92	0.1657	1.53	0.2168	0.48	0.4899	0.58	0.4455
Time	18.44	0.0001	4.33	0.0374	6.19	0.0129	0.50	0.4777	17.91	<0.0001
Warming × Precipitation	1.50	0.1699	3.82	<u>0.0506</u>	3.98	0.0460	4.17	0.0412	3.21	0.0731
Warming × Nitrogen	0.61	0.7432	0.43	0.5119	0.00	1.0000	0.42	0.5179	0.11	0.7407
Warming × Time	1.14	0.3375	6.22	0.0126	2.03	0.1542	0.36	0.5511	0.14	0.7063
Precipitation × Nitrogen	1.34	0.2236	0.37	0.5409	1.43	0.2325	6.62	0.0101	0.90	0.3433
Precipitation × Time	1.04	0.4148	2.93	0.0871	2.23	0.1356	1.62	0.2025	1.08	0.2990
Nitrogen × Time	1.33	0.2360	1.40	0.2361	1.43	0.2325	1.72	0.1891	0.09	0.7653
Warming × Precipitation × Nitrogen	0.80	0.5754	0.43	0.5117	0.58	0.4473	0.33	0.5662	0.04	0.8398
Warming × Precipitation × Time	2.10	0.0369	0.34	0.5598	0.16	0.6906	0.13	0.7143	1.52	0.2175
Warming × Nitrogen × Time	1.01	0.4351	3.39	<u>0.0656</u>	5.24	0.0221	3.92	0.0477	0.00	0.9586
Precipitation × Nitrogen × Time	3.04	0.0031	2.05	0.1517	2.53	0.1114	2.56	0.1098	5.52	0.0189
Warming × Precipitation × Nitrogen × Time	1.39	0.2075	0.04	0.8406	0.01	0.9207	0.19	0.6612	0.01	0.9379

Table S2 - Results from statistical analysis of interacting environmental change factors on nematode functional groups. *P*-values < 0.05 are shown in bold, and those <0.07 are underlined.

Effect	Bacterivores		Fungivores		Herbivores		Omnivores/Carnivores	
	<i>X</i> ²	<i>P</i>	<i>X</i> ²	<i>P</i>	<i>X</i> ²	<i>P</i>	<i>X</i> ²	<i>P</i>
Warming	1.63	0.37	0.5417	0.2020	1.33	0.2490	1.21	0.2716
Precipitation	0.00	2.20	0.1384	0.9899	0.59	0.4421	1.56	0.2110
Nitrogen	0.30	0.01	0.9305	0.5870	0.33	0.5643	0.52	0.4714
Time	31.54	6.68	0.0098	<0.0001	5.08	0.0242	41.04	<0.0001
Warming × Precipitation	1.50	0.62	0.4327	0.2205	2.73	0.0984	2.42	0.1202
Warming × Nitrogen	0.27	0.19	0.6629	0.6046	0.09	0.7585	1.21	0.2717
Warming × Time	2.41	1.28	0.2571	0.1203	0.05	0.8176	0.17	0.6767
Precipitation × Nitrogen	1.36	0.08	0.7740	0.2435	0.00	0.9626	0.24	0.6222
Precipitation × Time	0.90	0.08	0.7740	0.3416	1.61	0.2049	0.90	0.3433
Nitrogen × Time	0.00	0.45	0.5029	0.9571	2.26	0.1330	0.12	0.7330
Warming × Precipitation × Nitrogen	0.15	3.35	<u>0.0672</u>	0.6954	0.12	0.7294	0.07	0.7908
Warming × Precipitation × Time	3.82	2.65	0.1038	<u>0.0505</u>	0.01	0.9252	3.45	<u>0.0633</u>
Warming × Nitrogen × Time	1.62	2.06	0.1512	0.2027	0.06	0.8144	0.00	0.9698
Precipitation × Nitrogen × Time	5.69	8.80	0.0030	0.0170	6.19	0.0128	4.67	0.0307
Warming × Precipitation × Nitrogen × Time	0.03	3.31	<u>0.0690</u>	0.8717	2.55	0.1104	0.52	0.4714

Fig. S1. Interactive effects of winter El Niño precipitation additions, nighttime warming, and nitrogen addition on nematode community diversity metrics (A) Shannon Diversity Index, (B) Genus-level evenness, (C) Genus-level richness, and total nematode abundance per 50 g soil (D). Bars show means with s.e. for two sample collection dates.

