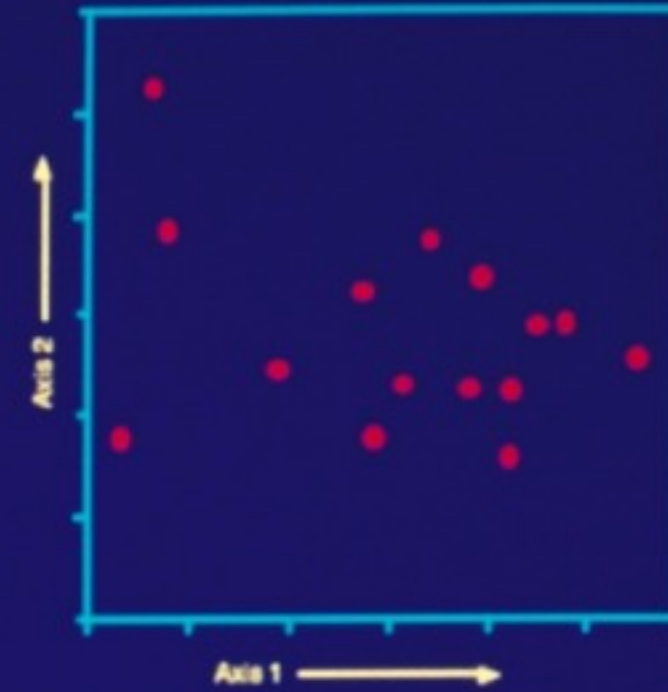


Correspondence Analysis

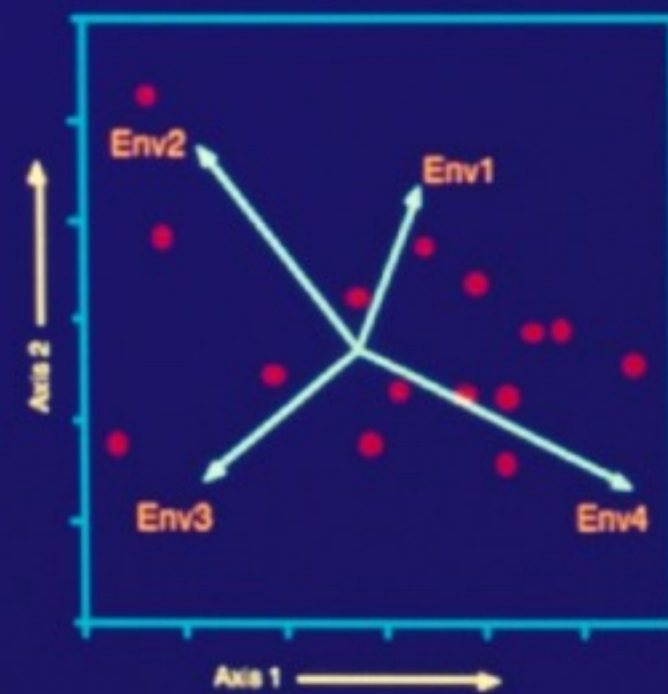
Taxon by
Locality
Data
Matrix



Taxon by
Locality
Data
Matrix

Canonical Correspondence Analysis

Environmental
Variable by
Locality
Data
Matrix



CLAMP uses a multivariate statistical engine called Correspondence Analysis (CA).

Unlike other multivariate methods such as multiple regression CA does not assume that the variables are independent.

CA is also robust to missing data and is less sensitive to some variables having rare values.

In a variant called Canonical Correspondence Analysis a second data array consisting of environmental data is used to position environmental vectors in the ordination.

This is what is done in the current version of CLAMP.

MET3BR.xls													
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Sample	MAT	WMMT	CMMT	GROWSE	GSP	MMGSP	3-WET	3-DRY	RH	SH	ENTHAL	
2	Guanica, Puerto Rico	26.8	28.2	25	12	66	5.5	32	5.7	66	14.4	33.85	
3	Cabo Rojo, Puerto Rico	26.8	28.2	25	12	73	6.1	32	7.8	70	15.3	34.06	
4	Mocuzari A, Sonora	25.8	32.1	19	12	70	5.8	45	2.3	50	10.5	32.51	
5	Mocuzari-B, Sonora	25.8	32.1	19	12	70	5.8	45	2.3	50	10.4	32.48	
6	Natua, Fiji	25.6	26.7	24.3	12	290	24.2	105	22	74	15	33.86	
7	Borinquen, Puerto Rico	25.5	27.7	24.6	12	82	6.8	36	7.5	70	14.4	33.73	
8	Cambalache, Puerto Rico	25.5	26.9	23.5	12	154	12.8	48	29	79	15.9	34.06	
9	Tres Hermanos, Sonora	25.3	31.5	17.8	12	63	5.3	42	1.7	53	10.6	32.47	
10	Keka, Fiji	25.2	26.7	23.6	12	251	20.9	100	33	75	14.8	33.77	
11	Guajatica, Puerto Rico	24.8	26.3	23.2	12	190	15.8	61	27	82	15.6	33.85	
12	Susua Alta, Puerto Rico	24.5	25.6	22	12	188	15.7	72	19.8	71	14.4	33.68	
13	Cabo San Lucas, Baja California S	24.4	29.1	20.1	12	26	2.2	17.7	0.2	55	10.3	32.88	
14	Quiriego, Sonora	24.2	31.2	16.5	12	70	5.8	47	1.9	51	10.2	32.32	
15	Seqaqa, Fiji	24	25.5	22.4	12	280	23.3	115	23	84	15.5	33.82	
16	Nuri, Sonora	24	31.7	16	12	71	5.9	43	6.1	50	9.8	32.18	
17	Santiago, Baja California Sur	23.6	30.4	16.8	12	36	3.0	24	0.4	57	10.3	32.79	
18	Alamos, Sonora	23.5	30.4	16.2	12	77	6.4	47	2.3	54	10.1	32.17	
19	Empalme, Sonora	23.3	29.1	17.1	12	18	1.5	14	0.5	68	11.9	32.53	
20	Baie d'Magenta, New Caledonia	23	26.1	19.9	12	101	8.4	35	16	71	13.1	33.12	
21	Avon Park, Florida	22.4	27.7	15.6	12	134	11.2	60	14	72	12.2	32.88	
22	Orlando, Florida	22.2	27.9	15.3	12	122	10.2	55	14	70	11.7	32.71	
23	Todos Santos, Baja California Sur	22.1	27.7	18.4	12	18	1.5	11.2	0.4	65	10.8	32.77	
24	Buena Vista, Puerto Rico	22	23.8	21.1	12	181	15.1	77	20	83	14.7	33.44	
25	San Bartolo, Baja California Sur	22	28.1	16.5	12	36	3.0	26	0.6	58	9.9	32.53	
26	Canyon Lake, Arizona	21.9	33	11.6	12	35	2.9	11.8	2.4	41	5.6	31.13	
27	Los Divisaderos, Baja California Su	21.8	26.7	17.1	12	46	3.8	32	0.5	55	9.4	32.4	
28	Maricao, Puerto Rico	21.7	22.9	20.2	12	231	19.3	99	24	78	14	33.22	
29	Riv. Bleue, New Caledonia	21.5	24.7	18.2	12	230	19.2	93	19	79	12.6	32.83	
30	Bartlett Resvr., Arizona	21.4	32.4	11.5	12	35	2.9	10.9	2.7	40	5.3	30.99	
31	Mt. Koghis, New Caledonia	21	24.1	17.9	12	174	14.5	81	21.1	80	12.1	32.6	
32	Lake George, Florida	21	27.2	13.7	12	141	11.8	66	18	73	11.2	32.49	
33	Castle Cr., Arizona	20.9	31.6	11.5	12	40	3.3	12	2.5	34	4.8	30.86	
34	Silver Bell, Arizona	20.8	30.3	11.3	12	31	2.6	16	1.5	41	5.1	30.92	
35	Saguaro Lake, Arizona	20.6	31.7	10.7	12	33	2.8	10	2.2	41	6.1	31.13	
36	Superior, Arizona	20.4	30.3	10.9	12	47	3.9	15.9	3.6	43	4.5	30.71	
37	Roosevelt Lk., Arizona	19.8	31.5	8.7	11.2	32	2.9	11.8	2.8	42	5.5	30.9	
38	Brunswick, Georgia	19.6	27.8	11.1	12	134	11.2	55	21	70	9.8	31.97	
39	Anbo-west, Yakushima	19.2	27	11.1	12	429	35.8	159	75	75	9.6	31.64	
40	Nagakubo, Yakushima	19.2	27	11.1	12	429	35.8	159	75	75	9.6	31.64	
41	Monte Guilarte, Puerto Rico	19	20.5	17	12	223	18.6	81	35	86	13.5	32.82	
42	Beaufort, South Carolina	19	27.4	10.2	12	127	10.6	48	19	69	9.1	31.69	
43	Punkin Center, Arizona	18	29.8	7.6	9.6	35	3.6	12	2.8	42	5.5	30.8	
44	Yakusugi 260 m, Yakushima	17.9	25.7	9.8	11.5	418	36.3	158	36	75	9.5	31.39	
45	Toro Negro, Puerto Rico	17.9	19.7	16.6	12	238	19.8	101	26	86	13.1	32.6	
46	Childs, Arizona	17.9	29.3	7.7	9.7	33	3.4	16.2	4.3	39	5.3	30.69	
47	Simmons ville, South Carolina	17.8	26.9	8.5	10	114	11.4	48	24	66	8.4	31.46	

Part of the
MET3BR
modern observed
meteorological
data array.