

Supplementary material

Resilience to climate change: complex relationships among wetland hydroperiod, larval amphibians and aquatic predators in temporary wetlands

Katrin Lowe^{A,B}, J. Guy Castley^A and Jean-Marc Hero^A

^AEnvironmental Futures Research Institute, Griffith School of Environment, Griffith University, Gold Coast Campus, Southport, Qld 4222, Australia.

^BCorresponding author. Email katrin.lowe@gmail.com.au

Table S1. Abiotic variables for each transect over the course of the survey, summarised by wet and dry years

Hydroperiod is the number of months in a year that a wetland contained water. Dry year, August 2009–July 2010; wet year, August 2010–July 2011. Average annual rain is the long-term average from Bureau of Meteorology weather stations

Latitude	Transect	Rain total (mm)		Average annual rain (mm)	Hydroperiod (of 12 months)		Maximum water depth (cm)		Solar exposure (monthly average, MJ m ⁻²)	
		Dry year	Wet year		Dry year	Wet year	Dry year	Wet year	Dry year	Wet year
-26.01	C1	1240	2158	1453	7	12	53	55.2	21.54	19.07
	C2	1240	2158	1453	10	12	18.5	100	21.54	19.07
	C3	1240	2158	1453	8	12	15.4	21.9	21.54	19.07
	C4	1240	2158	1453	0	7	0	30	21.54	19.07
-26.79	B1	1361	2331	1451	7	12	19.8	20.5	20.56	18.49
	B2	1361	2331	1451	6	12	26	26	20.56	18.49
	M1	1131	2464	1460	5	11	28.5	30.4	21.53	18.41
	M2	1131	2464	1460	6	12	25	29	21.53	18.41
-28.61	T1	1690	2330	1879	10	12	39.5	44.5	20.95	18.46
	T2	1690	2330	1879	10	12	21.3	24.5	20.95	18.46
	T3	1690	2330	1879	7	11	13.4	18	20.95	18.46
	T4	1690	2330	1879	9	12	30	30	20.95	18.46
-29.84	Y1	1316	2412	1349	10	12	23.8	31	20.69	18.70
	Y2	1316	2412	1349	11	12	52	53	20.69	18.70
	Y3	1316	2412	1349	12	12	32	40	20.69	18.70
	Y4	1316	2412	1349	12	12	72.1	88	20.69	18.70
Average		1373	2324	1534	8.1	11.6	29.4	40.1	21.06	18.67

Table S2. Number of captures of *Litoria longburensis* tadpoles (Tad), fish, carnivorous aquatic invertebrates (Invert), and *Crinia tinnula* tadpoles (Ct) at each transect during the dry year and the wet year

Rows are sorted by wetland hydroperiod (months with water from a total of 20 months) from most temporary to most permanent

Transect (hydroperiod of 20)	Number of tads dry year	Number of tads wet year	Number of fish dry year	Number of fish wet year	Number of invert dry year	Number of invert wet year	Number of tads of Ct dry year	Number of tads of Ct wet year
C4 (3)	0	6	0	0	0	52	0	13
M1 (12)	100	159	3	27	25	125	61	70
T3 (14)	8	69	0	0	87	83	102	358
B2 (14)	41	46	0	0	6	29	196	254
M2 (14)	68	13	44	81	18	60	25	29
B1 (15)	196	43	25	85	14	39	156	199
C1 (15)	351	263	47	116	46	110	7	14
C3 (16)	4	14	0	0	26	56	3	31
T4 (17)	135	16	177	197	115	109	18	20
C2, (17)	10	27	14	4	15	4	4	49
Y1 (18)	67	36	4	160	30	56	162	129
T2 (18)	192	19	4	38	104	59	138	130
T1 (18)	166	65	176	184	65	83	66	44
Y2 (19)	34	2	241	632	135	41	3	5
Y3 (20)	20	3	394	949	75	59	4	1
Y4 (20)	0	0	195	213	20	4	0	0