

Supplementary Information

Table S1 Summary of the dataset used to conduct the analyses on the efficiency of the telemetry across varied environmental conditions. It includes the capture/recapture data of marsh frogs and the pond characteristics collected at each pond and each session. Marked: number of frogs captured by dip netting the day before the detection; Detected: number of frogs detected during telemetry that were caught by dip-netting the day before; % recapture: proportion of frogs detected during telemetry that were caught the day before (i.e. detection rates); Detection time: duration of the telemetry session.

Site	Session	Capture/recapture events			Pond characteristics			Detection time (min)
		Marked	Detected	% recapture	Water Depth	Surface area	Pond type	
1	1	12	2	16.67	deep	large	natural	47
2	1	10	9	90	deep	small	natural	16
3	1	7	2	28.57	deep	large	artificial	29
4	1	11	11	100	shallow	small	natural	15
5	1	16	11	68.75	deep	large	natural	62
6	1	8	8	100	shallow	small	artificial	21
7	1	9	9	100	shallow	small	artificial	9
8	1	29	25	86.21	deep	large	artificial	31
9	1	13	9	69.23	deep	large	natural	35
10	1	7	7	100	shallow	small	natural	13
11	1	8	8	100	shallow	small	artificial	12
12	1	13	13	100	deep	small	artificial	19
13	1	19	11	57.89	deep	large	natural	60
14	1	19	14	73.68	deep	small	artificial	15
15	1	23	22	95.65	shallow	small	artificial	14
1	2	10	5	50	deep	large	natural	30
2	2	16	16	100	shallow	small	natural	22
3	2	8	8	100	shallow	large	artificial	20
4	2	10	9	90	shallow	small	artificial	8
5	2	24	22	91.67	deep	large	natural	39
8	2	21	20	95.24	shallow	large	artificial	18
9	2	22	15	68.18	deep	large	natural	22
10	2	9	9	100	shallow	small	natural	13
11	2	8	7	87.5	shallow	small	artificial	10
12	2	9	8	88.89	shallow	small	artificial	15
13	2	23	17	73.91	deep	large	natural	41
14	2	20	17	85	shallow	small	artificial	13
15	2	30	28	93.33	deep	small	artificial	14

16	2	7	4	57.14	deep	large	artificial	15
17	2	9	5	55.56	shallow	small	natural	9
18	2	7	6	85.71	deep	large	natural	36
1	3	21	16	76.19	deep	large	natural	35
2	3	20	19	95	shallow	small	natural	6
3	3	7	5	71.43	shallow	small	artificial	12
5	3	30	26	86.67	shallow	large	natural	18
8	3	18	18	100	shallow	large	artificial	14
9	3	20	13	65	shallow	large	natural	24
11	3	8	7	87.5	shallow	small	artificial	14
12	3	13	12	92.31	shallow	small	artificial	10
13	3	30	15	50	deep	large	natural	26
14	3	28	21	75	shallow	small	artificial	12
15	3	30	29	96.67	deep	small	artificial	19
16	3	17	17	100	deep	large	artificial	14
18	3	20	16	80	shallow	large	natural	25
19	3	7	5	71.43	deep	large	artificial	19
