

Supplementary information

Tap dancing birds: the multimodal mutual courtship display of males and females in a socially monogamous songbird

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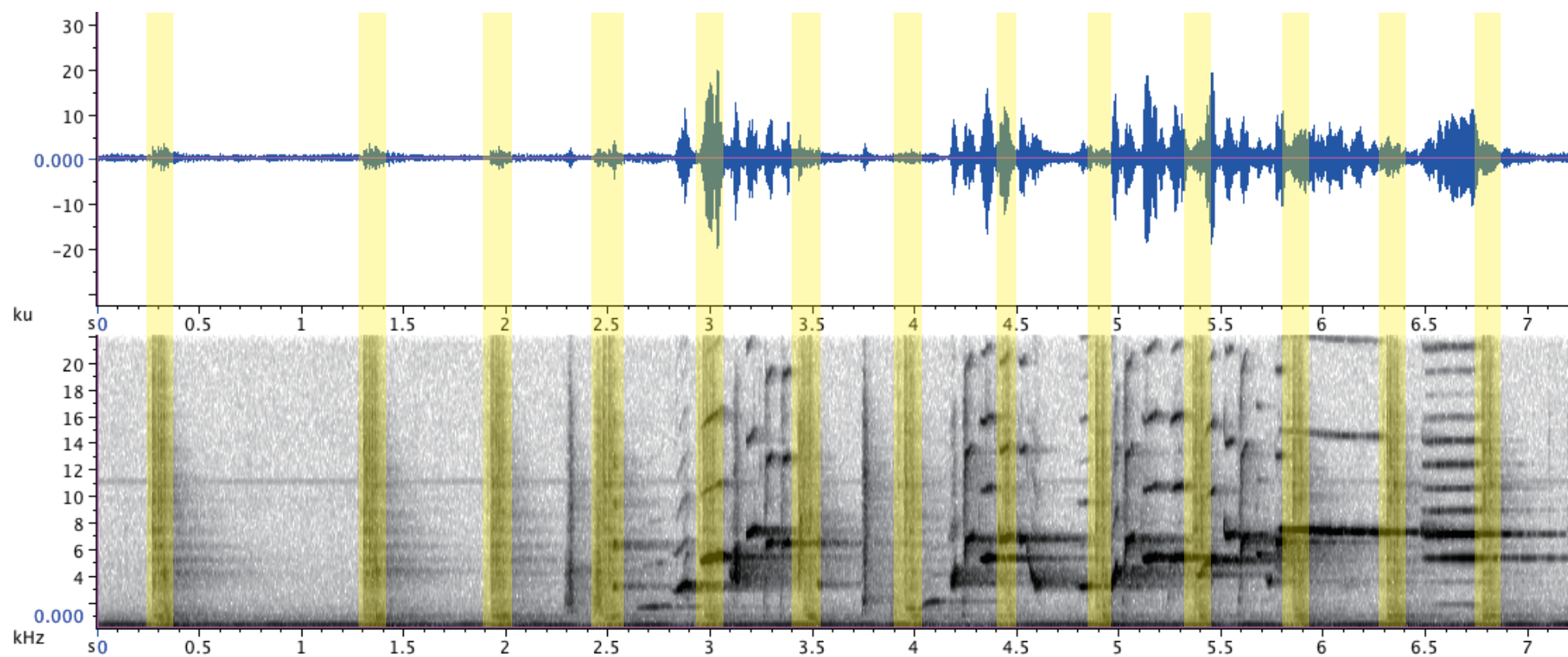
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Supplementary video S1. Courtship display of blue-capped cordon-bleus with normal and high-speed video camera.

Supplementary video S2. Partner's response to courtship display.

Supplementary video S3. Courtship display of a male red-cheeked cordon-bleu (*Uraeginthus bengalus*) with normal and high-speed video camera.

Supplementary figure S1. The waveform and the spectrogram of sound of courtship display shown by a male blue-capped cordon-bleu in Supplementary video S1, in which stepping sounds are yellow-coloured.



Supplementary Table S1. (a) The list of subject birds and the percentage of the sessions with dance.

(b) Behavioural matrix showing the dance rate observed in each male-female combination. Upper triangles correspond to female dance probability rate, while lower triangles show those of males. Blue and pink areas indicate combinations in which males and/or females danced, respectively. Grey parts indicate that the corresponding male and female were not paired. Median no. steps (green) and bobbing tempo (yellow) are indicated. Medians of no. steps per individuals are shown in descending order because it differed significantly among individuals, while bobbing tempo did not.

(a)

Bird ID	Sex	Total number of sessions	Number of sessions with dance	Dance probability
M04	Male	9	5	55.6 %
M17	Male	6	1	16.7 %
M13	Male	8	4	50.0 %
M02	Male	15	1	6.7 %
M03	Male	10	2	20.0 %
M06	Male	17	1	5.9 %
M01	Male	17	6	35.3 %
M07	Male	20	0	0 %

Average

23.8 %

F02	Female	15	3	20.0 %
F06	Female	15	3	20.0 %
F04	Female	9	1	11.1 %
F16	Female	6	2	33.3 %
F01	Female	17	0	0 %
F03	Female	10	0	0 %
F07	Female	19	0	0 %
F13	Female	11	0	0 %

Average

10.6 %

(b)

Male ID	Female ID		F02	F06	F04	F16	F01	F03	F07	F13
	No. steps	bobbing tempo	4	3	2	1	-	-	-	-
M04	4	1.36			1/7			0/2		
M17	4	1.37		0/3		1/1			0/1	0/1
M13	4	1.65							0/1	0/7
M02	3.5	1.65	2/12				0/3			
M03	3	1.47			0/2			0/8		
M06	3	1.34		3/11		1/3			0/2	0/1
M01	2	1.62	1/3				0/14			
M07	-	-		0/1		0/2			0/15	0/2

Examples:



Not paired



Paired

a: total no. sessions
b: no. sessions with female dance
c: no. sessions with male dance