

Appendix 2. Model ranking based on Akaike's information criteria corrected for small sample size (AIC_c) for each call type. Models include distance (Dist), noise treatment (Treat), microphone sensitivity loss (Mic), and relevant interactions.

Call Type	Model	ΔAIC_c	Degrees of Freedom	Log Likelihood
AMBI	Dist + Treat + Mic + Dist: Mic	0	8	-389.2
AMBI	Dist + Treat + Mic	2.8	6	-392.6
AMBI	Dist + Treat + Mic + Dist: Treat + Dist: Mic	5	12	-387.6
AMBI	Dist + Treat + Mic + Dist: Treat	8.4	10	-391.4
AMBI	Dist + Treat + Dist: Treat	180.8	9	-478.6
AMBI	Dist + Treat	182	5	-483.2
BAWW	Dist + Treat + Mic + Dist: Treat	0	10	-258
BAWW	Dist + Treat + Mic + Dist: Treat + Dist: Mic	1.9	12	-256.9
BAWW	Dist + Treat + Dist: Treat	12.8	9	-265.4
BAWW	Dist + Treat + Mic	12.8	6	-268.5
BAWW	Dist + Treat + Mic + Dist: Mic	14.1	8	-267.1
BAWW	Dist + Treat	30	5	-278.1
GRUNT	Dist + Treat + Mic + Dist: Treat	0	10	-397
GRUNT	Dist + Treat + Mic + Dist: Treat + Dist: Mic	3.9	12	-396.9
GRUNT	Dist + Treat + Mic	15.9	6	-409
GRUNT	Dist + Treat + Mic + Dist: Mic	19	8	-408.5
GRUNT	Dist + Treat + Dist: Treat	20.7	9	-408.3
GRUNT	Dist + Treat	48.9	5	-426.5
LCSP	Dist + Treat + Mic + Dist: Treat + Dist: Mic	0	12	-248.1
LCSP	Dist + Treat + Mic + Dist: Treat	2.2	10	-251.2
LCSP	Dist + Treat + Dist: Treat	8.2	9	-255.3
LCSP	Dist + Treat + Mic + Dist: Mic	12.6	8	-258.5
LCSP	Dist + Treat + Mic	14.3	6	-261.3
LCSP	Dist + Treat	23.2	5	-266.8

Call Type	Model	ΔAIC_c	Degrees of Freedom	Log Likelihood
NESP	Dist + Treat + Mic + Dist: Mic + Dist: Mic	0	12	-314.8
NESP	Dist + Treat + Mic + Dist: Treat	2	10	-317.8
NESP	Dist + Treat + Mic	23.9	6	-332.9
NESP	Dist + Treat + Mic + Dist: Mic	25.4	8	-331.5
NESP	Dist + Treat + Dist: Treat	28.6	9	-332.2
NESP	Dist + Treat	68.5	5	-356.2
OVEN	Dist + Treat + Mic	0	6	-424.2
OVEN	Dist + Treat + Mic + Dist: Treat	0.1	10	-420.2
OVEN	Dist + Treat + Mic + Dist: Mic	2.4	8	-423.4
OVEN	Dist + Treat + Mic + Dist: Treat + Dist: Mic	2.4	12	-419.4
OVEN	Dist + Treat + Dist: Treat	5.9	9	-424.1
OVEN	Dist + Treat	5.9	5	-428.2
PERWEEP	Dist + Treat + Mic	0	6	-408.8
PERWEEP	Dist + Treat + Mic + Dist: Treat	2.2	10	-405.8
PERWEEP	Dist + Treat + Mic + Dist: Mic	3.6	8	-408.5
PERWEEP	Dist + Treat + Mic + Dist: Treat + Dist: Mic	5.8	12	-405.5
PERWEEP	Dist + Treat + Dist: Treat	16.3	9	-413.9
PERWEEP	Dist + Treat	18.4	5	-419
PBGR	Dist + Treat + Mic	0	6	-530.7
PBGR	Dist + Treat + Mic + Dist: Treat	0.3	10	-526.8
PBGR	Dist + Treat + Mic + Dist: Mic	3.4	8	-530.4
PBGR	Dist + Treat + Mic + Dist: Treat + Dist: Mic	3.8	12	-526.5
PBGR	Dist + Treat + Dist: Treat	38.4	9	-546.8
PBGR	Dist + Treat	38.4	5	-550.9
SEWR	Dist + Treat + Mic + Dist: Treat	0	10	-310
SEWR	Dist + Treat + Mic + Dist: Treat + Dist: Mic	0.2	12	-308

Call Type	Model	ΔAIC_c	Degrees of Freedom	Log Likelihood
SEWR	Dist + Treat + Mic	18.9	6	-323.5
SEWR	Dist + Treat + Mic + Dist: Mic	20.2	8	-322.1
SEWR	Dist + Treat + Dist: Treat	29.2	9	-325.6
SEWR	Dist + Treat	60.5	5	-345.3
TICKIT	Dist + Treat + Mic + Dist: Mic	0	8	-414.1
TICKIT	Dist + Treat + Mic	0.9	6	-416.5
TICKIT	Dist + Treat + Mic + Dist: Treat + Dist: Mic	5.2	12	-412.6
TICKIT	Dist + Treat + Mic + Dist: Treat	5.8	10	-414.9
TICKIT	Dist + Treat	5.9	5	-420.1
TICKIT	Dist + Treat + Dist: Treat	10.1	9	-418.1
WHINNY	Dist + Treat + Mic + Dist: Treat	0	10	-458.5
WHINNY	Dist + Treat + Mic	2.6	6	-463.9
WHINNY	Dist + Treat + Mic + Dist: Treat + Dist: Mic	3.4	12	-458.2
WHINNY	Dist + Treat + Mic + Dist: Mic	6.1	8	-463.6
WHINNY	Dist + Treat + Dist: Treat	13.5	9	-466.3
WHINNY	Dist + Treat	19.1	5	-473.2
YERA	Dist + Treat + Mic + Dist: Treat + Dist: Mic	0	12	-366.8
YERA	Dist + Treat + Mic + Dist: Treat	1	10	-369.3
YERA	Dist + Treat + Mic	19.6	6	-382.7
YERA	Dist + Treat + Mic + Dist: Mic	21.4	8	-381.6
YERA	Dist + Treat + Dist: Treat	29.3	9	-384.5
YERA	Dist + Treat	59.3	5	-403.5