

### Supplementary Material

#### **Integrating western and Indigenous knowledge to identify habitat suitability and survey for the white-throated grasswren (*Amytornis woodwardi*) in the Arnhem Plateau, Northern Territory, Australia**

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**Table S1.** Survey sites, white-throated grasswren detections, distance of site to nearest previous grasswren record (to 2019) and distance from site to the nearest edge of habitat suitability.

Year	Survey area	Group	Site	White-throated grasswren detected?	Purple-backed fairywren detected?	Feral cat detected	Distance to nearest WTGW record (km)	Year of previous record	Distance to nearest pixel of habitat suitability modelling (km)
2022	Warddeken IPA	Warddeken Rangers	MAN02	Yes	Yes	Yes	0.67	2014	0
2022	Warddeken IPA	Warddeken Rangers	KAB01	Yes	No	Yes	15.83	2001	0
2022	Warddeken IPA	Warddeken Rangers	KAB02	Yes	Yes	No	9.31	2001	0.63
2022	Warddeken IPA	Warddeken Rangers	MAN01	Yes	NA	No	7.15	2014	0.32
2023	Warddeken IPA	Warddeken Rangers	KAB04	Yes	Yes	No	10.71	2012	0
2023	Warddeken IPA	Warddeken Rangers	SM04	Yes	NA	No	16.58	2001	0
2021	Jawoyn	Jawoyn Rangers	H02	No	No	Yes	17.81	2016	0
2021	Jawoyn	Jawoyn Rangers	N01	No	No	Yes	14.87	2016	0.03
2021	Jawoyn	Jawoyn Rangers	M03	No	NA	Yes	34.61	2016	0
2021	Jawoyn	Jawoyn Rangers	H03	No	Yes	No	12.25	2016	0
2021	Jawoyn	Jawoyn Rangers	H01	No	Yes	No	37.43	2011	0
2021	Jawoyn	Jawoyn Rangers	M01	No	No	No	24.56	2011	0
2021	Jawoyn	Jawoyn Rangers	L02	No	No	No	36.26	2016	0.22
2021	Jawoyn	Jawoyn Rangers	N02	No	NA	No	22.6	2016	0
2021	Jawoyn	Jawoyn Rangers	N03	No	NA	No	38.4	2011	0.63
2023	Mimal IPA	Mimal Rangers	MIM01	No	No	No	30.96	2012	0
2023	Mimal IPA	Mimal Rangers	MIM03	No	No	No	35.17	2012	0
2023	Mimal IPA	Mimal Rangers	MIM02	No	No	No	36.28	2012	0.52
2023	Mimal IPA	Mimal Rangers	MIM04	No	No	No	36.48	2012	0.52
2022	Mirrar Estate	Djurrubu Rangers	MIR02	No	No	Yes	38	2014	0.12
2022	Mirrar Estate	Djurrubu Rangers	MIR05	No	Yes	No	34	2014	0
2022	Mirrar Estate	Djurrubu Rangers	MIR01	No	Yes	No	37.66	2014	0.43
2022	Mirrar Estate	Djurrubu Rangers	MIR04	No	No	No	36.47	2014	0.03
2022	Mirrar Estate	Djurrubu Rangers	MIR03	No	NA	No	37.65	2000	0.37
2023	Nitmiluk National Park	Jawoyn Rangers, Nitmiluk NP Rangers	NM02	No	Yes	Yes	55.77	2016	0
2023	Nitmiluk National Park	Jawoyn Rangers, Nitmiluk NP Rangers	NM03	No	Yes	Yes	56.18	2016	0
2023	Nitmiluk National Park	Jawoyn Rangers, Nitmiluk NP Rangers	NM05	No	Yes	No	58.48	2016	0
2023	Nitmiluk National Park	Jawoyn Rangers, Nitmiluk NP Rangers	NM04	No	No	No	56.91	2016	0
2023	Nitmiluk National Park	Jawoyn Rangers, Nitmiluk NP Rangers	NM01	No	NA	No	57.16	2016	0
2022	Warddeken IPA	Warddeken Rangers	MAN03	No	Yes	Yes	22.56	2019	0
2022	Warddeken IPA	Warddeken Rangers	MAMA02	No	Yes	No	0.08	2020	0
2022	Warddeken IPA	Warddeken Rangers	MAMA01	No	NA	No	15.96	2020	0
2022	Warddeken IPA	Warddeken Rangers	KAB03	No	NA	No	19.3	2012	0
2022	Warddeken IPA	Warddeken Rangers	MAMA03	No	NA	No	7.04	2001	0.1
2023	Warddeken IPA	Warddeken Rangers	MAMA05	No	Yes	NA	15.07	2020	0
2023	Warddeken IPA	Warddeken Rangers	MAMA04	No	No	NA	6.39	2020	0
2023	Warddeken IPA	Warddeken Rangers	SM05	No	NA	NA	22.23	2014	0
2023	Warddeken IPA	Warddeken Rangers	SM03	No	NA	NA	18.5	2001	0.08
2023	Warddeken IPA	Warddeken Rangers	MAMA06	No	NA	NA	18.81	2017	0.18

Distances of '0' indicate that the site is within the suitability prediction, however, as these distances are within ~1 pixel of resolution of the most important predictor covariate we consider these sites as within the model's prediction area. Table also includes detections of purple-backed fairywrens (a more common sympatric species), and feral cats (presumed predator). NA for fairywren detection indicates call playback surveys were not undertaken at that site. NA for feral cats indicates that cameras were not set at that site on which to detect cats.