

10.1071/IS14009\_AC

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Supplementary Material: *Invertebrate Systematics* **28**, 401–414.

## Supplementary Material

### **Phylogeography and species delimitation in the New Zealand endemic, genetically hypervariable harvestman species, *Aoraki denticulata* (Arachnida, Opiliones, Cyphophthalmi)**

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**Table S1.** List of specimens used in the present study. GenBank accession numbers are shown for each individual and each gene.

In italics, new sequences obtained in this study.

Species	MCZ Acc. No.	DNA number	Sample	Sex	COI	16S	H3	28S
<i>A.denticulata</i>	IZ-134673	DNA101836	1	-	DQ992212	KF22726	KF22964	KF23016
	IZ-134672	DNA101835	1	female	DQ992219	KF22727	KF22965	KF23017
	IZ-134671	DNA101833	1	-	-	KF22708	KF22966	KF23018
			2	-	-	KF22709	KF22967	-
			3	-	-	KF22710	-	-
			4	-	-	KF22711	-	-
			5	-	-	KF22712	-	-
			6	-	-	KF22713	-	-
	IZ-134664	DNA101823	1	male	DQ992256	KF22830	KF22968	-
			2	male	DQ992258	KF22831	KF22969	-
			3	male	DQ992259	KF22832	-	-
			4	male	DQ992260	KF22833	-	-
			5	male	DQ992261	KF22834	-	-
			6	male	DQ992262	KF22835	-	-
			7	-	-	KF22836	-	-
			8	female	DQ992263	KF22837	-	-
			9	female	DQ992264	KF22838	-	-
			10	female	DQ992257	KF22839	-	-
	IZ-134637	DNA106812	1	female	KF822956	KF22770	KF22970	KF23019
			2	female	KF822957	KF22771	KF22971	-
			3	male	KF822958	KF22772	-	-
			4	male	KF822949	KF22773	-	-
			5	male	KF822950	KF22774	-	-
			6	male	KF822955	KF22775	-	-
			7	female	KF822948	KF22776	-	-
			8	male	KF822959	-	-	-
			9	male	KF822960	-	-	-
			10	male	KF822954	-	-	-
	IZ-134670	DNA101831	1	-	DQ992291	KF22846	KF22972	KF23020
			2	-	DQ992292	KF22847	KF22973	-
			3	male	DQ992293	KF22848	-	-
			4	male	DQ992294	KF22849	-	-
	IZ-134669	DNA101828	1	-	DQ992280	KF22841	KF22974	KF23021
			2	-	DQ992274	KF22842	KF22975	-
			5	-	DQ992277	KF22840	-	-
			10	-	DQ992278	KF22843	-	-
			11	-	DQ992279	KF22844	-	-
			13	-	KF822951	-	-	-
			14	-	KF822952	-	-	-
			15	-	KF822953	-	-	-
	IZ-134650	DNA101124	1	-	DQ992283	KF22762	KF22976	KF23022
			2	-	DQ992285	KF22763	KF22977	-
			3	-	DQ992276	KF22764	-	-
			4	-	DQ992284	KF22765	-	-
			5	-	DQ992282	KF22766	-	-
			6	-	-	KF22767	-	-

			7	-	DQ992286	KF22768	-	-
			8	-	DQ992287	KF22769	-	-
	IZ-127679	-	1	female	KF822906	KF22714	KF22978	KF23023
			2	male	KF822941	KF22715	KF22979	-
			3	female	KF822942	KF22716	-	-
			4	female	KF822945	KF22717	-	-
			5	male	KF822943	KF22718	-	-
			6	female	KF822909	KF22719	-	-
			7	male	KF822907	KF22720	-	-
			8	female	KF822946	KF22723	-	-
			9	female	<i>to be assigned</i>	KF22706	-	-
			10	female	KF822944	KF22721	-	-
			11	female	KF822908	KF22722	-	-
	IZ-134647	DNA100964	1	male	DQ992308	-	-	KF23024
			2	male	DQ992300	-	-	-
			3	male	DQ992301	-	-	-
			4	female	DQ992302	KF22850	-	-
			5	male	DQ992303	KF22851	-	-
			6	male	DQ992304	KF22852	-	-
			8	male	DQ992305	KF22853	-	-
			9	male	DQ992307	KF22777	-	-
			10	male	DQ992306	-	-	-
	IZ-134676	DNA101842	1	-	DQ992247	KF22737	KF22980	KF23025
			2	-	DQ992248	KF22738	KF22981	-
			3	-	DQ992249	KF22732	-	-
			4	-	DQ992250	KF22731	-	-
			5	-	DQ992251	KF22739	-	-
			6	-	DQ992252	KF22740	-	-
			7	-	DQ992253	KF22741	-	-
			8	-	DQ992254	KF22742	-	-
			9	-	DQ992255	KF22743	-	-
	IZ-134642	DNA100955	1	-	DQ992309	KF22733	-	-
			2	-	DQ992310	KF22734	-	-
			3	-	DQ992311	KF22735	-	-
			4	-	KF822947	KF22736	-	-
	IZ-134683	DNA106810	1	male	KF822915	KF22696	KF22982	KF23026
			2	female	KF822916	KF22730	KF22983	-
			3	male	KF822917	KF22758	-	-
			4	female	KF822914	KF22761	-	-
			5	male	KF822919	KF22759	-	-
			6	female	KF822918	-	-	-
			7	male	KF822913	KF22760	-	-
	IZ-134667	DNA101826	1	male	DQ992281	KF22845	KF22984	KF23027
			2	-	-	KF22824	KF22985	-
			3	-	-	KF22825	-	-
			4	-	-	KF22828	-	-
			5	-	-	KF22826	-	-
			6	-	-	KF22821	-	-
			7	-	-	KF22822	-	-
			8	male	DQ992275	KF22823	-	-

			9	-	-	KF22827	-	-
			10	-	-	KF22829	-	-
	IZ-134666	DNA101825	1	male	DQ992265	KF22697	KF22986	KF23028
			2	male	DQ992266	KF22698	KF22987	-
			3	male	DQ992267	KF22699	-	-
			4	male	DQ992268	KF22700	-	-
			5	male	DQ992269	KF22701	-	-
			6	female	DQ992270	KF22702	-	-
			7	female	DQ992271	KF22703	-	-
			8	female	DQ992272	KF22704	-	-
			9	female	DQ992273	KF22705	-	-
	IZ-134646	DNA100961	1	male	DQ992295	KF22778	KF22988	KF23029
			2	female	DQ992296	KF22781	KF22989	-
			3	female	DQ992297	KF22779	-	-
			4	female	DQ992298	KF22780	-	-
			5	female	DQ992299	KF22782	-	-
	IZ-134662	DNA101821	1	-	-	KF22695	-	-
			2		-	KF22812	-	-
			3		KF822940	-	-	-
			4	-	DQ992221	KF22813	KF22990	KF23030
			5	-	DQ992222	KF22814	-	-
			6	-	DQ992223	KF22815	-	-
			7	-	DQ992229	KF22811	-	-
			8	-	DQ992224	KF22816	-	-
			9	-	DQ992225	KF22817	-	-
			10	-	DQ992220	KF22818	-	-
	IZ-134639	DNA100941	1	-	DQ992226	KF22798	KF22991	KF23031
			2	-	DQ992236	-	-	-
			3	-	DQ992230	-	-	-
			4	-	DQ992231	KF22799	-	-
			5	-	DQ992232	KF22803	-	-
			6	-	DQ992235	KF22819	-	-
			7	-	DQ992227	KF22800	-	-
			8	-	DQ992228	KF22801	-	-
			9	-	-	KF22820	-	-
			10	-	DQ992233	KF22797	-	-
			11	-	DQ992234	KF22802	-	-
			12	-	KF822939	KF22810	-	-
			13	-	KF822910	KF22694	KF22992	KF23032
			Longford	-	KF822911	-	-	-
	IZ-134677	DNA101845	1	-	KF822938	KF22805	KF22993	KF23033
			2	male	DQ992238	KF22806	KF22994	-
			3	male	DQ992237	KF22807	-	-
			4	male	DQ992239	KF22808	-	-
			5	male	DQ992240	KF22809	-	-
			6	-	-	KF22804	-	-
	IZ-134680	DNA106804	1	female?	KF822935	-	-	-
			2	female?	KF822936	KF22783	KF22995	KF23034
			3	male	KF822927	KF22784	KF22996	-
			4	male	KF822929	KF22786	-	-

			5	female?	KF822930	KF22728	-	-
			6	male	KF822933	KF22785	-	-
			7	male	KF822934	-	-	-
			8	male	KF822928	-	-	-
			9	female?	KF822932	KF22787	-	-
			10	female	KF822931	KF22729	-	-
	IZ-134640	DNA100948	1	male	DQ992243	KF22791	KF22997	KF23035
			2	male	DQ992244	KF22792	KF22998	-
			3	-	DQ992241	KF22724	-	-
			4	female	DQ992288	-	-	-
			5	male	DQ992289	KF22744	-	-
			6	female	DQ992246	KF22794	-	-
			7	-	DQ992242	KF22725	-	-
			8	-	KF822912	-	-	-
			9	female	DQ992290	KF22745	-	-
			10	female	DQ992245	KF22793	-	-
	IZ-134678	DNA105028	1	male	KF822937	-	KF22999	KF23036
	IZ-127671	-	1	female	KF822961	KF22795	KF23000	KF23037
			2	male	KF822962	KF22796	KF23001	-
	IZ-127675	-	1	female	KF822922	KF22788	KF23002	KF23038
	IZ-127672	-	1	male	KF822921	KF22790	KF23003	KF23039
	IZ-134659	DNA101811	1	male	DQ992194	KF22746	KF23004	-
			2	-	KF822923	KF22747	-	-
			3	male	DQ992196	KF22748	-	-
			4	female	DQ992197	KF22749	-	-
			5	female	DQ992198	KF22750	-	-
			6	female	DQ992199	KF22751	-	-
			7	male	DQ992200	KF22752	-	-
			8	female	DQ992201	KF22753	-	-
			9	female	DQ992202	KF22754	-	-
			10	-	KF822924	KF22755	-	-
			11	-	KF822925	KF22756	-	-
			12	-	DQ992195	KF22757	-	-
	IZ-134655	DNA101296	1	-	DQ992312	KF22692	KF23005	KF23040
			2	-	KF822926	KF22691	KF23006	KF23041
	IZ-134644	DNA100959	1	male	DQ992205	KJ822854	KF23007	-
			2	male	DQ992203	KJ822855	KF23008	-
			3	female	DQ992206	KJ822856	-	-
			4	juv.	DQ992204	KJ822857	-	-
	IZ-133836	DNA101837	1	male	DQ992215	KJ822858	KF23009	KF23042
			2	male	DQ992217	KJ822859	-	-
			3	female	DQ992218	KJ822860	-	-
			4	juvenile	DQ992207	KJ822861	-	-
			5	-	DQ992208	-	-	-
			6	male	DQ992209	-	-	-
			8	-	DQ992210	-	-	-
			9	-	DQ992211	-	-	-
			10	-	DQ992216	-	-	-
	IZ-134674	DNA101839	1	-	DQ992213	KJ822862	KF23010	KF23043
			2	-	DQ992214	KJ822863	KF23011	KF23044

			3	-	KF22886	KJ822864	-	-
			4	-	KF22887	KJ822865	-	-
			5	-	KF22888	KJ822866	-	-
			6	-	KF22889	KJ822867	-	-
			7	-	KF22890	KJ822868	-	-
			8	-	KF22891	KJ822869	-	-
			9	-	KF22885	KJ822870	-	-
			10	-	KF22892	KJ822871	-	-
		DNA101832	1	male	-	KF22693	-	-
	IZ-127676	-	1	male	KF22894	KJ822872	KF23012	KF23045
			2	male	KF22893	KJ822873	KF23013	-
			3	female	KF22895	KJ822874	-	-
			4	female	KF22896	KJ822875	-	-
			5	male	KF22897	KJ822876	-	-
			6	female	KF22898	KJ822877	-	-
			7	male	KF22899	KJ822878	-	-
			8	female	KF22900	KJ822879	-	-
			9	male	KF22901	KJ822880	-	-
			10	male	KF22902	KJ822881	-	-
			11	male	KF22903	KJ822882	-	-
			12	female	KF22904	KJ822883	-	-
			13	male	KF22905	KJ822884	-	-
	IZ-127673		1	female	-	KF22707	KF23014	KF23046
	-	DNA105017	1	female	KF822920	KF22789	KF23015	KF23047
<i>A. crypta</i>					DQ518120	DQ518068	DQ518156	DQ518043
<i>A. calcarobtusa westlandica</i>					DQ518121	DQ518070	EU673703	DQ518038
<i>A. longitarsa</i>					DQ992313	-	EU673695	EU673652
<i>A. granulosa</i>					-	DQ518071	-	DQ518039
<i>A. tumidata</i>					DQ992318	-	-	-
<i>A. healyi</i>					DQ992321	DQ518067	DQ518160	DQ518042
<i>Aoraki</i> sp.					DQ992320	-	-	EU673660
<i>A. inerma</i>					-	-	EU673701	EU673658