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Supplementary Material

Seventy-five years of vegetation change after fire in Tasmanian alpine heathland

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Appendix

Supplementary Appendix 1. Species list. Percentage cover is included for the 1998 and 2022 columns. The 1939 and 1975 columns show the species found in the surveys conducted by Martin (1939) and Ratkowsky and Ratkowsky (1976).

Abbreviations describing abundance as per Ratkowsky and Ratkowsky (1976):

c = common, i.e., abundant throughout zone; lc = locally common, i.e. abundant only in certain environments within the zone; f = frequent; o = occasional; l = local, i.e. only found in a few localities within the zone, but neither sufficiently abundant to be called locally common, nor sufficiently sparse to be called rare; r = rare; vr = very rare.

Martin (1939) includes the classification of vc = very common.

The species list in Martin (1939) included taxa not found in the survey but that had been recorded by other "reliable collectors"; most of these have been excluded from this list unless they were present in the 1998 and 2022 surveys, as have any species from Martin (1939) that Ratkowsky and Ratkowsky (1976) considered misidentifications.

Species	1939	1976	1998	2022
<i>Abrottenella forsteroides</i> (Hook.f.) Benth	o	lc	0.02	0.61
<i>Acaena montana</i> Hook.f.	r	o	0.85	0.5
<i>Acaena novae-zelandiae</i> Kirk	o	f	0.01	
<i>Acianthus caudatus</i> R.Br.	r			
<i>Acrothamnus montanus</i> (R.Br.) Quinn	o	o	0.08	0.05
<i>Agrostis capillaris</i> L.			0.001	
<i>Agrostis parviflora</i> R.Br	r	o		
<i>Agrostis</i> spp. L.			0.004	0.01
<i>Agrostis stolonifera</i> L.			0.1	
<i>Agrostis venusta</i> Trin.		o	0.01	
<i>Anogramma leptophylla</i> (L.) Link	r			
<i>Asperula gunnii</i> Hook.f.		f		
<i>Asplenium subglandulosum</i> (Hook & Grev.) Salvo, Prada & T.E.Diaz	vr			
<i>Astelia alpina</i> R.Br.	vc	c	0.16	1.93
<i>Baeckea gunniana</i> Schauer	vc	c	1.12	
<i>Baloskion australe</i> (R.Br.) B.G.Briggs & L.A.S.Johnson	lc	lc		
<i>Bauera rubioides</i> Andrews	f			
<i>Bellenden montana</i> R.Br.	vc	f	5.39	5.18
<i>Blechnum penna-marina</i> (Poir.) Kuhn	o	lc		
<i>Brachyschome spathulata</i> Guadich.		f	0.08	
<i>Brachyscome tenuiscapa</i> Hook.f.			0.01	
<i>Caladenia alpina</i> R.S.Rogers		r		
<i>Cardamine gunnii</i> Hewson		o		
<i>Cardamine tenuifolia</i> Hook.	f			
<i>Carex appressa</i> R.Br.		f		
<i>Carex archeri</i> Boott		vr		
<i>Carex austrocompacta</i> K.L.Wilson	f	o	0.05	0.03
<i>Carex austrottenella</i> K.L. Wilson	r			
<i>Carex</i> spp. L.			0.01	0.024
<i>Carpha alpina</i> R.Br.	vc	f	0.93	2.78
<i>Celmisia asteliifolia</i> Hook.f.	vc	c	13.58	0.43
<i>Celmisia saxifraga</i> (Benth.) W.M. Curtis	*	l	0.11	0.02

<i>Centrolepis</i> spp. Labill.			0.001	
<i>Chrysocephalum apiculatum</i> (Labill.) Steetz	c			
<i>Coprosma moorei</i> F.Muell. Ex rodway	r			
<i>Coprosma nitida</i> Hook.f.	f	o	0.13	0.09
<i>Coprosma pumila</i> Hook.f.		l		
<i>Coronidium scorpioides</i> (Labill.) Paul G.Wilson	c	c	0.53	0.058
<i>Cotula alpina</i> Hook.f.			0.001	0.001
<i>Craspedia macrocephala</i> Hook.	vc	c		
<i>Craspedia</i> spp. G.Forst			0.09	0.01
<i>Cyathodes straminea</i> R.Br.		vr		
<i>Deyeuxia monticola</i> (Roem. & Schult.) Vickery		o		
<i>Deyeuxia</i> spp. A		l	0.001	0.03
<i>Dichelanche</i> spp. Endl.			0.03	
<i>Drosera arcturi</i> Hook.	f	c	0.001	
<i>Drosera pygmaea</i> DC.		f		
<i>Empodisma minus</i> (Hook.f.) L.A.S.Johnson & D.F.Cutler	vc	c	0.85	0.73
<i>Epacris serpyllifolia</i> R.Br.	f	c	61.79	67.03
<i>Epilobium gunnianum</i> Hausskn.	o	c		
<i>Epilobium</i> spp. L.			0.19	
<i>Epilobium tasmamicum</i> Hausskn.	o			
<i>Euchiton</i> spp. Cass.		o	0.03	0.02
<i>Euchiton traversii</i> (Hook.f.) Holub		o		
<i>Euchiton umbricola</i> (J.H.Willis) Anderb.	r	vr		
<i>Euphrasia collina</i> R.Br.	vc		0.004	0.02
<i>Euphrasia collina</i> subsp. diemenica (Spreng.) W.R. Barker		f		
<i>Euphrasia gibbsiae</i> Du Rietz.		f		
<i>Euphrasia</i> spp. L.			0.55	0.01
<i>Euphrasia striata</i> R.Br.		f	0.05	
<i>Ewartia catipes</i> (DC.) Beauverd			0.004	
<i>Ewartia planchonii</i> (Hook.f.) Beauverd	r	vr		
<i>Exocarpos humifusus</i> R.Br.	c	f	0.09	0.85
<i>Gahnia grandis</i> (Labill.) S.T. Blake		r		
<i>Gentianella diemensis</i> (Griseb.) J.H.Willis	f	f	0.02	
<i>Geranium potentilloides</i> L'Hér. ex DC.	f	c	0.004	0.001
<i>Geranium sessiliflorum</i> Cav.	o			
<i>Gleichenia dicarpa</i> R.Br.	vc			
<i>Gleichenia microphylla</i> R.Br.		lc		
<i>Gonocarpus micranthus</i> Thunb.	r			
<i>Gonocarpus montanus</i> (Hook.f.) Orchard		c		0.1
<i>Gonocarpus serpyllifolius</i> Hook.f.			0.02	0.004
<i>Hierochloe fraseri</i> Hook.f.	c	o	0.06	
<i>Hierochloe redolens</i> (Vahl) R.Br. ex Roem. & Schult.	o	f	0.01	
<i>Histiopteris incisa</i> (Thunb.) J.Sm.		vr		
<i>Huperzia australiana</i> (Herter) Holub		vr		
<i>Hydrocotyle sibthorpioides</i> Lam.		lc		
<i>Hymenophyllum flabellatum</i> Labill.	vr			
<i>Hypochaeris radicata</i> L.			0.01	
<i>Isolepis aucklandica</i> Hook.f.		l		

<i>Isolepis crassiuscula</i> Hook.f.	f	lc		
<i>Isolepis inundata</i> R.Br.	o			
<i>Isolepis subtilissima</i> Boeckeler		l		
<i>Juncus sandwithii</i> Lourteig		lc		
<i>Leptecophylla juniperina</i> subsp. <i>parvifolia</i>			0.05	0.3
<i>Leptinella filicula</i> (Hook.f.) Hook.f.	r	o		
<i>Leptospermum rupestre</i> Hook.f.	vc	lc	2.05	5.14
<i>Lomatia polymorpha</i> R.Br.	vr			
<i>Luzula australasica</i> Steud	c			
<i>Luzula campestris</i> (L.) DC.	o			
<i>Luzula</i> spp. DC		c	0.46	0.01
<i>Lycopodiella lateralis</i> (R.Br.) B.Øllg.	f		0.001	
<i>Lycopodium deuterodensum</i> Herter	o			
<i>Lycopodium fastigiatum</i> R.Br.	f	o	0.12	
<i>Lycopodium scariosum</i> G.Forst.	r	o	0.08	0.001
<i>Microlaena stipitoides</i> (Labill.) R.Br.	vr			
<i>Monotoca empetrifolia</i> R.Br.	o	c	1.83	2.2
<i>Monotoca linifolia</i> (Rodway) W.M. Curtis			0.02	
<i>Montitega dealbata</i> (R.Br.) C.M. Weiller	o	o	5.16	3.08
<i>Olearia algida</i> N.A. Wakef.		o	2.21	
<i>Olearia floribunda</i> (Hook.f.) Benth.	o			
<i>Olearia ledifolia</i> (DC.) Benth.	o	f	0.84	0.02
<i>Olearia lepidophylla</i> (Pers.) Benth.	r			
<i>Olearia obcordata</i> (Hook.f.) Benth.	o	l		
<i>Olearia phlogopappa</i> (Labill.) DC		r		
<i>Olearia pinifolia</i> (Hook.f.) Benth.	o	o		
<i>Olearia tasmanica</i> W.M. Curtis	o			0.01
<i>Oreobolus acutifolius</i> S.T.Blake			0.04	
<i>Oreobolus distichus</i> F.Muell		r		0.05
<i>Oreobolus pumilio</i> R.Br.	f	o	0.001	0.05
<i>Oreomyrrhis sessiliflora</i> Hook.f.		vr		
<i>Orites acicularis</i> (R.Br.) Roem. & Schult.	vc	o	34.22	36.93
<i>Orites revolutus</i> R.Br.	c	f	8.98	16.48
<i>Ourisia integrifolia</i> R.Br.		lc		
<i>Oxalis magellanica</i> G.Forst.	r			
<i>Ozothamnus antennaria</i> (DC.) Hook.f.	o			
<i>Ozothamnus gunnii</i> Hook.f.	r			
<i>Ozothamnus hookeri</i> Sond.	f	f	4.26	0.75
<i>Ozothamnus ledifolius</i> (A.Cunn. ex DC.) Hook.f.	vc	c	3.77	4.9
<i>Ozothamnus rodwayi</i> Orchard	o	f	17.44	5.42
<i>Ozothamnus x expansifolius</i> (P.Morris & J.H. Willis) Anderb.		o	0.02	
<i>Pappochroma pappocromum</i> (Labill.) G.L.Nesom	o	o	0.001	
<i>Pentachondra involucreta</i> R.Br.	o			
<i>Pentachondra pumila</i> (J.R.Forst. & G.Forst.) R.Br.	vc	f	6.55	5.51
<i>Pimelea sericea</i> R.Br.	c	o		
<i>Planocarpa petiolaris</i> (DC.) C.M.Weiller	vc	lc	4.02	3.06
<i>Plantago tasmanica</i> Hook.f.	o	c	0.08	0.001
<i>Poa poiformis</i> (Labill.) Druce		c		

<i>Poa</i> spp. L.			40.1	17.27
<i>Podocarpus lawrencei</i> Hook.f.	lc	r		
<i>Polystichum proliferum</i> (R.Br.) C.Presl	o	r		
<i>Prasophyllum alpinum</i> R.Br.		o		
<i>Prasophyllum fuscum</i> R.Br.	o			
<i>Prunus</i> spp. L.			0.001	
<i>Pterostylis alpina</i> R.S.Rogers		o		
<i>Ranunculus collinus</i> R.Br. ex DC.		o		
<i>Richea gunnii</i> Hook.f.	c			
<i>Richea procera</i> (F.Muell.) F.Muell.	o			
<i>Richea scoparia</i> Hook.f.	c	f	2.76	9.89
<i>Richea sprengelioides</i> (R.Br.) F.Muell.	o	f	15.44	15.74
<i>Rubus gunnianus</i> Hook.	o	f	0.09	0.09
<i>Rytidosperma pauciflorum</i> (R.Br.) Connor & Edgar	r	o	0.005	0.01
<i>Rytidosperma</i> spp. Steud.			0.02	
<i>Scaevola hookeri</i> (de Vriese) F.Muell. ex Hook.f.	r	f		
<i>Schizacme archeri</i> (Hook.f.) Dunlop			0.01	
<i>Schizacme montana</i> (Hook.f. ex Benth.) Dunlop	o	f	0.37	
<i>Schoenus calypttratus</i> Kük.		o	0.02	
<i>Scleranthus biflorus</i> (J.R.Forst. & G.Forst.) Hook.f.		vr		
<i>Selaginella uliginosa</i> (Labill.) Spring	f			
<i>Senecio gunnii</i> (Hook.f.) Belcher	o	f		0.01
<i>Senecio albogilvus</i> I.Thomps	f			
<i>Senecio pectinatus</i> DC.		o		0.001
<i>Sphagnum cristatum</i> Hampe				0.07
<i>Sprengelia incarnata</i> Sm.	r	c		0.13
<i>Stylidium graminifolium</i> Sw.	r			
<i>Tasmania lanceolata</i> (Poir.) A.C.Sm.	f	o	0.06	0.22
<i>Tetracarpaea tasmannica</i> Hook.	o			
<i>Trochocarpa thymifolia</i> (R.Br.) Spreng.	vc	l	0.01	0.04
<i>Velleia montana</i> Hook.f.				0.004
<i>Veronica nivea</i> Lindl.	r			
<i>Viola hederacea</i> Labill.		c	0.002	
<i>Wahlenbergia saxicola</i> (R.Br.) A.DC.	o	l		