

**Supplementary material**

***Mychodea* and the Mychodeaceae (Gigartinales, Rhodophyta) revisited:  
molecular analyses shed light on interspecies relationships in Australia's largest  
endemic algal genus and family**

*Gerald T. Kraft*<sup>A,B</sup> and *Gary W. Saunders*<sup>C</sup>

<sup>A</sup>School of Biosciences, University of Melbourne, Parkville, Vic. 3010, Australia.

<sup>B</sup>Department of Biology, University of New Brunswick, PO Box 4400, Fredericton, NB, E3B 5A3, Canada. Email: gws@unb.ca

<sup>C</sup>Corresponding author. Present address: Tasmanian Herbarium, College Road, Sandy Bay Tas. 7005, Australia. Email: gtk@unimelb.edu.au

**Table S1. Collection data and accession numbers of specimens used in phylogenetic studies of the Mychodeaceae and related families**

BOLD, Barcode of Life Database

BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	<i>rbcL</i>	<i>rbcL</i> -3P
ABMMC4689-09	G0023	Acrotylaceae	<i>Acrotylus australis</i> J.Agardh	G.T.Kraft & G.W.Saunders	30-Nov-1991	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift		GQ406346	KC130223	
ABMMC5125-09	GWS002410	Acrotylaceae	<i>Acrotylus australis</i> J.Agardh	G.W.Saunders	11-Oct-2004	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Drift	HM916008			
ABMMC4763-09	G0308	Acrotylaceae	<i>Hemmedya crispa</i> Harvey	J.Huisman	16-Feb-1995	Australia	Western Australia	Mangles Bay	-32.268	115.716	Drift		KF026510		
OZSEA969-10	GWS024980	Acrotylaceae	<i>Hemmedya crispa</i> Harvey	G.W.Saunders & K.Dixon	10-Nov-2010	Australia	Western Australia	Cozy Corner (Knobby Point)	-	115.02777	Subtidal (6 m) on rock	KF026467		KF026488	
REDCA021-12	GWS002474	Areschougiaceae	<i>Areschougia congesta</i> (Turner) J.Agardh	G.T.Kraft	19-Oct-2004	Australia	Victoria	Breakwater at harbour, Portland	-38.329	141.636	Subtidal (10 m) on rock on breakwater		GQ406347	KC130213	
ABMMC7144-10	GWS014882	Areschougiaceae	<i>Areschougia congesta</i> (Turner) J.Agardh	G.W.Saunders & K.Dixon	18-Jan-2010	Australia	Tasmania	Windmill Point, George Town	-41.1097	146.81699	Subtidal (5 m) on rock	HM917458			
ABMMC4774-09	G0360	Areschougiaceae	<i>Austroclonium charoides</i> (Harvey) Min-Thein & Womersley	G.W.Saunders	7-Nov-1995	Australia	Western Australia	Pinnaroo Point (Leeman)	-29.9458	114.9805	Drift	HM915819	KF026501	KF026485	
ABMMC10644-10	GWS000323	Cystocloniaceae	<i>Calliblepharis jubata</i> (Goodenough & Woodward) Kÿtzing	C.A.Maggs	18-Oct-1997	Ireland	Co. Galway	Coral Strand, Carraloe (Carraroe)	53.2656	-9.5836			KF026511		
ABMMC14926-11	GWS014653	Cystocloniaceae	<i>Calliblepharis jubata</i> (Goodenough & Woodward) Kÿtzing	M.D.Guiry	12-Aug-2010	Ireland	Kerry	Smerwick Harbour			Lower shore pools	KF026474		KF026494	
ABMMC4841-09	GWS000213	Cystocloniaceae	<i>Rhodophyllis multipartita</i> Harvey	G.T.Kraft	30-Jun-1997	Australia	Victoria	Warrnambool	-	142.4754	Drift		KF026515		

BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	<i>rbcL</i>	<i>rbcL</i> -3P
ABMMC7412-10	GWS015211	Cystocloniaceae	<i>Rhodophyllis multipartita</i> Harvey	G.W.Saunders & K.Dixon	21-Jan-2010	Australia	Tasmania	Burying Ground Point	-43.44013	146.98883	Subtidal (6 m) on rock	HM917635		KF026495	
REDCA017-12	G0036	Dicranemataceae	<i>Dicranema revolutum</i> (C.Agardh) J.Agardh	G.T.Kraft & G.W.Saunders	1-Dec-1991	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift		GQ406349		
ABMMC7095-10	GWS014819	Dicranemataceae	<i>Dicranema revolutum</i> (C.Agardh) J.Agardh	G.T.Kraft & G.W.Saunders	13-Jan-2010	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Drift on seagrass	HM917423		KC130231	
ABMMC10802-10	GWS001772	Furcellariaceae	<i>Furcellaria lumbricalis</i> (Hudson) Lamouroux	Demii Rae Payer	14-Jul-2003	Canada	Nova Scotia	Broad Cove Campground, Cabot Trail, Cape Breton	46.7119	-60.3516	Drift		GQ406350		
ABMMC9102-10	GWS003509	Furcellariaceae	<i>Furcellaria lumbricalis</i> (Hudson) Lamouroux	G.W.Saunders	11-Nov-2005	Canada	Nova Scotia	Pomquet Harbour, Antigonish	45.662	-61.8328	Drift			KC130215	
ABMMC12905-10	GWS019586	Furcellariaceae	<i>Opuntia</i> sp._2 californica (Farlow) Kylin	G.W.Saunders & K.Dixon	2-Jun-2010	Canada	British Columbia	Ucluelet, Sargison Bank	48.92205	-125.42069	Subtidal (8 m) on rock	HQ544511	KF026508	KF026491	
ABMMC4926-09	GWS000960	Mychodeaceae	<i>Mychodea acanthymenia</i> Kraft	G.W.Saunders	11-Dec-2000	Australia	Victoria	Cottage By the Sea Reef, Queenscliff	-38.2719	144.6503	Subtidal (6 m) on rocky reef	HM915892	EF033614	JX969795	
ABMMC8942-10	GWS002622	Mychodeaceae	<i>Mychodea acanthymenia</i> Kraft	G.W.Saunders	23-Jan-2005	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43.275	147.1257	Subtidal (6 m) on rock	HM918486			
ABMMC7519-10	GWS015339	Mychodeaceae	<i>Mychodea acanthymenia</i> Kraft	G.W.Saunders & K.Dixon	21-Jan-2010	Australia	Tasmania	Burying Ground Point	-43.44013	146.98883	Subtidal (6 m) on rock	HM917705			
ABMMC7717-10	GWS015554	Mychodeaceae	<i>Mychodea acanthymenia</i> Kraft	G.T.Kraft & L.Kraft	22-Jan-2010	Australia	Tasmania	Nine Pin Point	-43.2865	147.1643	Subtidal (1-2 m) on rock	HM917849			
ABMMC7737-10	GWS015585	Mychodeaceae	<i>Mychodea acanthymenia</i> Kraft	G.T.Kraft & L.Kraft	22-Jan-2010	Australia	Tasmania	Nine Pin Point	-43.2865	147.1643	Subtidal (1-2 m) on rock	HM917864			
ABMMC5044-09	GWS001941	Mychodeaceae	<i>Mychodea aciculare</i> (J.Agardh) Kraft	G.W.Saunders & R.Withall	24-Jan-2004	Australia	Tasmania	Tinderbox Reserve,	-43.0592	147.3305	Subtidal (6 m) on rock	HM915953	KY260588		

BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	rbcL	rbcL-3P
ABMMC7195-10	GWS014942	Mychodeaceae	<i>Mychodea aciculare</i> (J. Agardh) Kraft	G.W.Saunders & K.Dixon	18-Jan-2010	Australia	Tasmania	South of Hobart Windmill Point, George Town	-41.1097	146.81699	Subtidal (15 m) on rock				KY250775
ABMMC7207-10	GWS014955	Mychodeaceae	<i>Mychodea aciculare</i> (J. Agardh) Kraft	G.W.Saunders & K.Dixon	18-Jan-2010	Australia	Tasmania	Windmill Point, George Town	-41.1097	146.81699	Subtidal (15 m) on rock				KY250769
ABMMC7742-10	GWS015590	Mychodeaceae	<i>Mychodea aciculare</i> (J. Agardh) Kraft	G.W.Saunders & K.Dixon	23-Jan-2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-	147.33324	Subtidal (8 m) on rock	HM917867			KY250759
ABMMC5019-09	GWS001611	Mychodeaceae	<i>Mychodea australis</i> (Zanardini) Kraft	G.W.Saunders	10-Dec-2002	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Subtidal (4 m) on jetty piling	HM915939			
ABMMC10869-10	GWS002436	Mychodeaceae	<i>Mychodea australis</i> (Zanardini) Kraft	G.T.Kraft	16-Oct-2004	Australia	Victoria	Flinders Jetty	-38.4667	145.0167	Subtidal (4 m) on tunicate on Jetty piling		KY260589		KY250758
ABMMC8401-10	GWS016664	Mychodeaceae	<i>Mychodea australis</i> (Zanardini) Kraft	G.W.Saunders, L.Kraft & K.Dixon	2-Feb-2010	Australia	Victoria	The Springs, Point Lonsdale	-	144.62029	Subtidal (4 m) on rock	HM918300			KY250742
ABMMC7069-10	GWS011977	Mychodeaceae	<i>Mychodea carnos</i> a Hooker f. & Harvey	G.T.Kraft	16-Jan-2009	Australia									KY250754
ABMMC8293-10	GWS016530	Mychodeaceae	<i>Mychodea carnos</i> a Hooker f. & Harvey	G.W.Saunders, L.Kraft & K.Dixon	29-Jan-2010	Australia	Tasmania	Stanley Breakwater	-	145.30583	Subtidal (10 m) on rock	HM918237	KY260597		KY250773
ABMMC16508-12	GWS017411	Mychodeaceae	<i>Mychodea carnos</i> a Hooker f. & Harvey	G.T.Kraft	29-Nov-2011	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Drift between town jetty and boat pier				KY250747
ABMMC16509-12	GWS017412	Mychodeaceae	<i>Mychodea carnos</i> a Hooker f. & Harvey	G.T.Kraft	29-Nov-2011	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Drift between town jetty and boat pier				KY250762
OZSEA2869-11	GWS029870	Mychodeaceae	<i>Mychodea carnos</i> a Hooker f. & Harvey	G.W.Saunders & K.Dixon	19-Nov-2011	Australia	South Australia	Cape Jaffa	-	139.67487	Drift on seagrass				KY250764
ABMMC10535-10	DV025	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.T.Kraft & K.Dixon	16-Jan-2005	Australia	South Australia	Fowlers Bay	-31.967	132.587	Drift on <i>Amphibolis</i>		KY260594		

BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	<i>rbcL</i>	<i>rbcL</i> -3P
ABMMC4694-09	G0032	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.T.Kraft	30-Nov-1991	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift				KY250757
ABMMC5000-09	GWS001544	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.W.Saunders	1-Dec-2002	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	HM915929			
OZSEA2678-11	GWS029571	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250795			
OZSEA2687-11	GWS029580	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift on seagrass	KY250779			
OZSEA2690-11	GWS029583	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250791		KY250761	
OZSEA2870-11	GWS029871	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.W.Saunders & K.Dixon	19-Nov-2011	Australia	South Australia	Cape Jaffa	-	139.67487	Drift				KY250743
OZSEA2872-11	GWS029873	Mychodeaceae	<i>Mychodea disticha</i> Harvey	G.W.Saunders & K.Dixon	19-Nov-2011	Australia	South Australia	Cape Jaffa	-	139.67487	Drift on seagrass				KY250749
OZSEA4144-13	GWS034944	Mychodeaceae	<i>Mychodea disticha</i> Harvey	K.Dixon & R.Dixon	7-Jun-2013	Australia	South Australia	Elliston, inside of Point Wellington	-	134.88283	Drift	KY250793			
ABMMC5135-09	GWS002462	Mychodeaceae	<i>Mychodea hamata</i> Harvey	G.W.Saunders	18-Oct-2004	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	HM916016	KY260596		
ABMMC8453-10	GWS017307	Mychodeaceae	<i>Mychodea hamata</i> Harvey	G.T.Kraft & G.W.Saunders	1-Feb-2010	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Drift	KY250787			
ABMMC14488-10	GWS017374	Mychodeaceae	<i>Mychodea hamata</i> Harvey	L.Kraft & G.T.Kraft	14-Apr-2010	Australia	Victoria	Point Lonsdale, east of Lawrence Road parking lot	-38.276	144.62	Drift	KY250781			
OZSEA2676-11	GWS029569	Mychodeaceae	<i>Mychodea hamata</i> Harvey	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250784			
OZSEA2677-11	GWS029570	Mychodeaceae	<i>Mychodea hamata</i> Harvey	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250798		KY250768	
OZSEA2681-11	GWS029574	Mychodeaceae	<i>Mychodea hamata</i> Harvey	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250790			
ABMMC5111-09	GWS002136	Mychodeaceae	<i>Mychodea herringtoniana</i> Kraft & G.W.Saunders	G.T.Kraft	12-Apr-2004	Australia	Victoria	Warrnambool	-	142.4754	Drift	HM915998	KY260590	KY250763	
ABMMC10517-10	DV002	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	K.Dixon & G.T.Kraft	11-Jan-2005	Australia	South Australia	Back Beach, Streaky Bay	-32.7833	134.1167	On <i>Amphibolis</i> , low littoral pool.				KY250744

BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	rbcL	rbcL-3P
ABMMC10518-10	DV003	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	K.Dixon & G.T.Kraft	11-Jan-2005	Australia	South Australia	Back Beach, Streaky Bay	-32.7833	134.1167	On				KY250748
ABMMC20666-14	DV008	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.T.Kraft & K.Dixon	12-Jan-2005	Australia	South Australia	Smooth Pools, Eyre Peninsula	-32.926	134.078	Subtidal (0.5 m) on	KY250786			
ABMMC5001-09	GWS001545	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders	1-Dec-2002	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift		KY260595		
ABMMC8900-10	GWS002135	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.T.Kraft	12-Apr-2004	Australia	Victoria	Warrnambool	-38.40315	142.4754	Drift	HM918461	KY260585		KY250750
ABMMC556-06	GWS002454	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders	17-Oct-2004	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Subtidal 92.5 m on jetty piling	KY250794			
ABMMC5130-09	GWS002455	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.T.Kraft	17-Oct-2004	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Subtidal 92.5 m on jetty piling	KY250788			
ABMMC5134-09	GWS002461	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders	18-Oct-2004	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	HM916015			
ABMMC5389-09	GWS002559	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders	20-Jan-2005	Australia	Victoria	Cottage by the Sea Reef, Queenscliff	-38.2719	144.6503	Subtidal (5 m) on rocky reef				KY250774
ABMMC7828-10	GWS015889	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders & K.Dixon	23-Jan-2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43.05851	147.33324	Subtidal (6 m) on invert	HM917928			
ABMMC7873-10	GWS015942	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.T.Kraft & L.Kraft	23-Jan-2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43.05851	147.33324	Subtidal (3-5 m) on fucoid	HM917959			
ABMMC8175-10	GWS016379	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders & K.Dixon	28-Jan-2010	Australia	Tasmania	Sanctuary Reef, Wynyard	-40.98593	145.7701	Subtidal (9-12 m) on <i>Sargassum</i> stipe	KY250801			
ABMMC8403-10	GWS016667	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders, L.Kraft & K.Dixon	2-Feb-2010	Australia	Victoria	The Springs, Point Lonsdale	-38.27605	144.62029	Subtidal (4 m) on rock	HM918302			
ABMMC8409-10	GWS016678	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders, L.Kraft & K.Dixon	2-Feb-2010	Australia	Victoria	The Springs, Point Lonsdale	-38.27605	144.62029	Subtidal (3 m)	HM918306			

BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	<i>rbcL</i>	<i>rbcL</i> -3P
ABMMC8421-10	GWS016693	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders, L.Kraft & K.Dixon	2-Feb-2010	Australia	Victoria	The Springs, Point Lonsdale	-38.27605	144.62029	Subtidal (3 m) on seagrass	HM918316			
ABMMC8454-10	GWS017308	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.T.Kraft & G.W.Saunders	1-Feb-2010	Australia	Victoria	Queenscliff Jetty, Phillip Heads	-38.2669	144.6678	Drift	KY250782		KY250746	
ABMMC14466-10	GWS017328	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.T.Kraft, R.Kraft & B.Dog jr	23-Mar-2010	Australia	Victoria	Queenscliff, North of Pilot-boat jetty	-38.2696	144.6634	Drift				KY250770
ABMMC14485-10	GWS017371	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	L.Kraft & G.T.Kraft	14-Apr-2010	Australia	Victoria	Point Lonsdale, east of Lawrence Road parking lot	-38.276	144.62	Drift on <i>Amphibolis antarctica</i>				KY250751
ABMMC14505-10	GWS017394	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	R.Kraft, G.T.Kraft & B.Dog jr	18-May-2010	Australia	Victoria	Point Lonsdale, town beach	-38.2849	144.615	Drift				KY250756
OZSEA2673-11	GWS029566	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250777			
OZSEA2689-11	GWS029582	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250800			
OZSEA4155-13	GWS034919	Mychodeaceae	<i>Mychodea marginifera</i> (Areschoug) Kraft	K.Dixon & R.Dixon	6-Jun-2013	Australia	South Australia	Venus Bay, west of pier	-33.23189	134.67099	Drift on fucoid	KY250780			
ABMMC5028-09	GWS001899	Mychodeaceae	<i>Mychodea membranacea</i> J.D.Hooker & W.H.Harvey	G.W.Saunders & R.Withall	23-Jan-2004	Australia	Tasmania	Nine Pin Point	-43.2865	147.1643	Subtidal (6-10 m) on rock	HM915945	KY260584	KY250745	
OZSEA1142-10	GWS024289	Mychodeaceae	<i>Mychodea minutissima</i> Kraft & G.W. Saunders	G.W.Saunders & K.Dixon	6-Nov-2010	Australia	Western Australia	Mutton Bird Island	-35.0475	117.69389	Subtidal (3 m) on rock wall	KY250796	KY260591	KY250765	
ABMMC10524-10	DV012	Mychodeaceae	<i>Mychodea perplexa</i> G.W.Saunders & G.T.Kraft	G.T.Kraft, R.Kraft, A.Millar & K.Dixon	13-Jan-2005	Australia	South Australia	Sceale Bay boat ramp, Eyre Peninsula	-33.017	134.19	Drift on <i>Amphibolis</i>		KY260593		
OZSEA2871-11	GWS029872	Mychodeaceae	<i>Mychodea perplexa</i> G.W.Saunders & G.T.Kraft	G.W.Saunders & K.Dixon	19-Nov-2011	Australia	South Australia	Cape Jaffa	-36.94415	139.67487	Drift		KY260587	KY250755	

BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	rbcL	rbcL-3P
ABMMC7289-10	GWS015052	Mychodeaceae	<i>Mychodea pseudoacicularis</i> Kraft & G.W. Saunders	G.W.Saunders & K.Dixon	19-Jan-2010	Australia	Tasmania	Windmill Point, George Town	-41.1097	146.81699	Subtidal (23 m) on invert			KY250760	
ABMMC558-06	DV001	Mychodeaceae	<i>Mychodea pusilla</i> (Harvey) J.Agardh	K.Dixon & G.T.Kraft	11-Jan-2005	Australia	South Australia	Back Beach, Streaky Bay	-32.7833	134.1167	On <i>Amphibolis</i> , low littoral pool. Drift	KY250792			
ABMMC19586-14	G0040	Mychodeaceae	<i>Mychodea pusilla</i> (Harvey) J.Agardh	G.T.Kraft & G.W.Saunders	30-Jan-1991	Australia	South Australia	Port MacDonnell	-38.0579	140.6936					KY250766
ABMMC557-06	GWS002437	Mychodeaceae	<i>Mychodea pusilla</i> (Harvey) J.Agardh	G.T.Kraft & G.W.Saunders	16-Oct-2004	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Drift on seagrass	KF026471	KF026507		
ABMMC8345-10	GWS016604	Mychodeaceae	<i>Mychodea pusilla</i> (Harvey) J.Agardh	G.W.Saunders, L.Kraft & K.Dixon	2-Feb-2010	Australia	Victoria	The Springs, Point Lonsdale	-38.27605	144.62029	Subtidal (5 m) on seagrass	HQ919589			
ABMMC8455-10	GWS017309	Mychodeaceae	<i>Mychodea pusilla</i> (Harvey) J.Agardh	G.T.Kraft & G.W.Saunders	1-Feb-2010	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38.2669	144.6678	Drift on seagrass	KY250778			
OZSEA1140-10	GWS024723	Mychodeaceae	<i>Mychodea pusilla</i> (Harvey) J.Agardh	G.W.Saunders & K.Dixon	9-Nov-2010	Australia	Western Australia	Cape Leeuwin Lighthouse	-34.37167	115.1363	Subtidal (2 m) on seagrass	KF026472		KF026490	
ABMMC19555-14	GWS036201	Mychodeaceae	<i>Mychodea pusilla</i> (Harvey) J.Agardh	K.Dixon	28-Dec-2013	Australia	Victoria	Jan Juc (Steps)	-38.3561	144.2978	1-2 m deep on <i>Amphibolis</i>	KY250789			
ABMMC4720-09	G0108	Mychodeaceae	<i>Mychodea ramulosa</i> J.Agardh	G.T.Kraft	17-Jul-1992	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift				KY250771
OZSEA2145-11	GWS028826	Mychodeaceae	<i>Mychodea ramulosa</i> J.Agardh	G.W.Saunders	23-Nov-2011	Australia	South Australia	Shell Bay, Yorke Peninsula	-35.1924	136.87222	Drift				KY250772
OZSEA2670-11	GWS029563	Mychodeaceae	<i>Mychodea ramulosa</i> J.Agardh	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250776			
OZSEA2675-11	GWS029568	Mychodeaceae	<i>Mychodea ramulosa</i> J.Agardh	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250802			
OZSEA2679-11	GWS029572	Mychodeaceae	<i>Mychodea ramulosa</i> J.Agardh	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250783			



BOLD	Voucher	Family	Species	Collector	Date	Country	State	Site	Latitude	Longitude	Habitat	COI-5P	LSU	<i>rbcL</i>	<i>rbcL</i> -3P
OZSEA2680-11	GWS029573	Mychodeaceae	<i>Mychodea ramulosa</i> J.Agardh	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift	KY250785	KY260586	KY250752	
OZSEA2682-11	GWS029575	Mychodeaceae	<i>Mychodea ramulosa</i> J.Agardh	G.W.Saunders & K.Dixon	16-Nov-2011	Australia	South Australia	Port MacDonnell	-38.0579	140.6936	Drift				KY250753
OZSEA1143-10	GWS024481	Mychodeaceae	<i>Mychodea</i> <i>sp._2WA</i>	G.W.Saunders & K.Dixon	7-Nov-2010	Australia	Western Australia	Little Beach	-	118.19599	Subtidal (13 m) on invert	KY250797	KY260592	KY250767	
ABMMC559-06	DV014	Mychodeaceae	<i>Mychodea terminalis</i> Harvey	G.T.Kraft, A.Millar, R.Kraft & K.Dixon	13-Jan-2005	Australia	South Australia	Sceale Bay boat ramp, Eyre Peninsula	-33.017	134.19	Drift	KY250799			
ABMMC560-06	DV023	Mychodeaceae	<i>Mychodea terminalis</i> Harvey	G.T.Kraft & R.Kraft	15-Jan-2005	Australia	South Australia	Sceale Bay boat ramp, Eyre Peninsula	-33.017	134.19	Drift on <i>Amphibolis</i>	KU986354	KU985445	KU905058	
ABMMC4794-09	G0385	Mychodeophyllaceae	<i>Mychodeophyllum papillitectum</i> Kraft	G.W.Saunders & G.T.Kraft	13-Nov-1995	Australia	Western Australia	Seven Mile Beach	-29.17	114.888	Drift	HM915826	GQ406355	KF026493	
ABMMC206-06	GWS002195	Solieriaceae	<i>Sarcodiotheca</i> <i>sp._1</i> <i>gaudichaudii</i> (Montagne) Gabrielson	C.E.Lane & G.W.Saunders	17-Jun-2004	Canada	British Columbia	Bear Cove Park, Port Hardy, Vancouver Island	50.7228	-127.4578	Subtidal (5 m) on rocks		KF026512		
ABMMC13318-10	GWS020086	Solieriaceae	<i>Sarcodiotheca</i> <i>sp._1</i> <i>gaudichaudii</i> (Montagne) Gabrielson	G.W.Saunders & K.Dixon	13-Jun-2010	Canada	British Columbia	Saw Reef, Gwaii Haanas	52.45012	-	Lower intertidal pool on rock, sheltered	KF026460		KF026481	
ABMMC5013-09	GWS001590	Solieriaceae	<i>Solieria robusta</i> (Greville) Kylin	G.W.Saunders	9-Dec-2002	Australia	Victoria	Flinders Jetty	-38.4667	145.0167	Subtidal (4 m) on cobble	HM915934	GQ406360	KC130210	