

Supplementary material

Opening the floodgates to the recovery of nektonic assemblages in a temperate coastal wetland

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Fig. S1. Sampling locations within (a) Ironbark Creek, (b) Purgatory Creek, (c) Cobbans Creek and (d) Mosquito Creek.

Table S1. Fish and decapod catch summary

Family	Scientific name	Common name	Grand total	Total	Ironbark Creek			Cobbans Creek			Mosquito Creek			Purgatory Creek		
					Below	Lower	Upper	Total	Lower	Upper	Total	Lower	Upper	Total	Below	Lower
Fish																
Ambassidae	<i>Ambassis jacksoniensis</i> ^A	Port Jackson glassfish	11 243	6499	2784	2384	1331	1896	1651	245	680	358	322	2168	2139	29
	<i>Ambassis marianus</i> ^A	Estuary perchlet	219	52	11	24	17	7	6	1	12	10	2	148	147	1
	<i>Ambassis</i> spp. ^A	Glassfish	7793	6230	3522	2399	309	1076	992	84	366	272	94	121	121	0
Anguillidae	<i>Anguilla australis</i> ^{B,C}	Short-finned eel	15	3	0	1	2	0	0	0	0	0	0	12	0	12
	<i>Anguilla reinhardtii</i> ^{B,C}	Long-finned eel	7	1	0	0	1	0	0	0	1	0	1	5	1	4
Clupeidae	<i>Herklotsichthys castelnaui</i> ^A	Southern herring	19	0	0	0	0	1	1	0	9	9	0	9	9	0
	<i>Hyperlophus vittatus</i> ^{A,C}	Sandy sprat	841	56	15	41	0	507	121	386	1	1	0	277	277	0
	<i>Potamalosa richmondia</i> ^B	Freshwater herring	3	0	0	0	0	0	0	0	0	0	0	3	3	0
Cyprinidae	<i>Carassius auratus</i> ^B	Goldfish	92	22	0	0	22	0	0	0	0	0	0	70	9	61
	<i>Cyprinus carpio</i> ^B	Common carp	28	0	0	0	0	0	0	0	0	0	0	28	1	27
Dasyatidae	<i>Dasyatis</i> spp. ^A	Stingray	2	0	0	0	0	0	0	0	0	0	0	2	2	0
Engraulidae	<i>Engraulis australis</i> ^{A,C}	Australian anchovy	3	1	1	0	0	1	0	1	0	0	0	1	1	0
Galaxiidae	<i>Galaxias maculatus</i> ^B	Common jollytail	7	1	1	0	0	0	0	0	0	0	0	6	0	6
Gerreidae	<i>Gerres subfasciatus</i> ^{A,C}	Silver biddy	447	285	188	78	19	61	25	36	14	12	2	87	52	35
Girellidae	<i>Girella tricuspidata</i> ^{A,C}	Luderick	23	0	0	0	0	1	1	0	12	6	6	10	10	0
Gobiidae	<i>Acanthogobius flavimanus</i> ^B	Yellowfin goby	128	38	26	12	0	5	4	1	56	44	12	29	29	0
	<i>Afurcagobius tamarensis</i> ^B	Tamar River goby	6496	3073	1074	1943	56	765	595	170	990	691	299	1668	1667	1
	<i>Arenigobius bifrenatus</i> ^A	Bridled goby	1853	621	315	305	1	100	92	8	902	499	403	230	230	0

Family	Scientific name	Common name	Grand total	Total	Ironbark Creek			Cobbans Creek			Mosquito Creek			Purgatory Creek			
					Below	Lower	Upper	Total	Lower	Upper	Total	Lower	Upper	Total	Below	Lower	
Gobiidae (Cont.)	<i>Arenigobius frenatus</i> ^A	Half-bridled goby	288	102	62	36	4	81	34	47	100	51	49	5	5	0	
	<i>Arenigobius</i> spp. ^A	<i>Arenigobius</i> undefined	2	2	0	2	0	0	0	0	0	0	0	0	0	0	
	<i>Cryptocentroides gobioides</i> ^A	Oyster goby	86	29	14	15	0	31	27	4	13	7	6	13	13	0	
	<i>Favonigobius exquisitus</i> ^A	Exquisite sand goby	3726	2755	1947	800	8	371	263	108	289	257	32	311	311	0	
	<i>Glossogobius biocellatus</i> ^A	Golden goby	4	4	1	2	1	0	0	0	0	0	0	0	0	0	
	<i>Gobiomorphus australis</i> ^B	Striped gudgeon	2274	1469	47	251	1171	2	2	0	4	3	1	799	111	688	
	<i>Gobiopterus semivestitus</i> ^A	Glass goby	34 327	9640	4860	1806	2974	10 173	7283	2890	9484	5611	3873	5030	5018	12	
	<i>Hypseleotris compressa</i> ^B	Empire gudgeon	7215	1339	15	243	1081	6	5	1	2	1	1	5868	54	5814	
	<i>Hypseleotris galii</i> ^B	Firetailed gudgeon	4	2	0	0	2	0	0	0	0	0	0	2	1	1	
	<i>Mugilogobius paludis</i> ^A	Mangrove goby	756	201	41	92	68	69	46	23	455	179	276	31	10	21	
	<i>Philypnodon grandiceps</i> ^B	Flathead gudgeon	6378	960	55	315	590	43	5	38	55	26	29	5320	3747	1573	
	<i>Philypnodon macrostomus</i> ^B	Dwarf flathead gudgeon	195	8	0	0	8	0	0	0	0	0	0	187	6	181	
	<i>Pseudogobius olorum</i> ^B	Swan River goby	17 620	6704	2333	3327	1044	2296	1576	720	5327	2031	3296	3293	1271	2022	
	<i>Redigobius macrostoma</i> ^A	Largemouth goby	13 249	4053	824	2429	800	1515	555	960	4506	2250	2256	3175	2832	343	
	<i>Taenioides purpurascens</i> ^A	Eel goby	13	10	9	1	0	0	0	0	3	1	2	0	0	0	
	Monodactylidae	<i>Monodactylus argenteus</i> ^A	Silver batfish	9	1	1	0	0	0	0	0	1	0	1	7	4	3
	Mugilidae	<i>Liza argentea</i> ^{A,C}	Flat-tail mullet	4408	1770	1168	508	94	1079	822	257	1060	569	491	499	494	5
	<i>Mugil cephalus</i> ^{B,C}	Sea mullet	3832	2575	1289	190	1096	13	10	3	323	205	118	921	826	95	

Family	Scientific name	Common name	Grand total	Total	Ironbark Creek			Cobbans Creek			Mosquito Creek			Purgatory Creek		
					Below	Lower	Upper	Total	Lower	Upper	Total	Lower	Upper	Total	Below	Lower
Paralichthyidae	<i>Pseudorhombus jenysii</i> ^{A,C}	Small-toothed flounder	21	8	2	6	0	8	7	1	0	0	0	5	5	0
Percichthyidae	<i>Macquaria colonorum</i> ^{A,C}	Estuary perch	1	0	0	0	0	0	0	0	0	0	0	1	0	1
	<i>Macquaria novemaculeata</i> ^{B,C}	Australian bass	21	10	0	5	5	0	0	0	7	6	1	4	4	0
Platycephalidae	<i>Platycephalus fuscus</i> ^{A,C}	Dusky flathead	22	13	7	6	0	3	2	1	3	3	0	3	3	0
Poeciliidae	<i>Gambusia holbrooki</i> ^B	Mosquitofish	5034	1741	31	314	1396	8	0	8	66	4	62	3219	189	3030
Pomatomidae	<i>Pomatomus saltatrix</i> ^{A,C}	Tailor	26	3	2	0	1	6	2	4	1	0	1	16	16	0
Pseudomugilidae	<i>Pseudomugil signifer</i> ^B	Southern blue-eye	4575	613	103	277	233	1066	669	397	2846	1135	1711	50	50	0
Scatophagidae	<i>Scatophagus argus</i> ^A	Spotted scat	2	0	0	0	0	0	0	0	1	0	1	1	1	0
Scorpaenidae	<i>Centropogon australis</i> ^A	Eastern fortescue	119	27	8	12	7	15	12	3	60	15	45	17	17	0
	<i>Notesthes robusta</i> ^B	Bullrout	1	0	0	0	0	1	0	1	0	0	0	0	0	0
Sillaginidae	<i>Sillago ciliata</i> ^{A,C}	Sand whiting	1	1	0	1	0	0	0	0	0	0	0	0	0	0
	<i>Sillago ciliata</i> ^{A,C}	Sand whiting	66	17	4	9	4	11	8	3	22	17	5	16	16	0
Sparidae	<i>Acanthopagrus australis</i> ^{A,C}	Yellowfin bream	2748	1081	516	459	106	1211	1123	88	319	171	148	137	136	1
	<i>Rhabdosargus sarba</i> ^{A,C}	Tarwhine	172	80	9	67	4	14	14	0	53	17	36	25	25	0
Terapontidae	<i>Pelates sexlineatus</i> ^{A,C}	Eastern striped grunter	1	0	0	0	0	0	0	0	0	0	0	1	0	1
Tetraodontidae	<i>Terapon jarbua</i> ^B	Grunter	5	3	2	1	0	2	1	1	0	0	0	0	0	0
	<i>Tetractenos glaber</i> ^A	Smooth toadfish	11	7	7	0	0	4	4	0	0	0	0	0	0	0
	<i>Tetractenos hamiltoni</i> ^A	Common toadfish	2	0	0	0	0	2	2	0	0	0	0	0	0	0
Total abundance of fish			136 433	52 110	21 294	18 361	12 455	22 450	15 960	6490	28 043	14 461	13 582	33 830	19 863	13 967
Total number of fish species			54	44	36	35	31	36	33	30	35	31	32	46	42	25

Family	Scientific name	Common name	Grand total	Total	Ironbark Creek			Cobbans Creek			Mosquito Creek			Purgatory Creek		
					Below	Lower	Upper	Total	Lower	Upper	Total	Lower	Upper	Total	Below	Lower
Decapod Crustacea																
Alpheidae	<i>Alpheus</i> spp. ^A	Pistol shrimp	1586	672	283	381	8	264	189	75	502	335	167	148	148	0
Grapsidae	<i>Grapsidae</i> spp. ^A	Marsh crab	102	40	22	18	0	8	5	3	26	11	15	28	20	8
	<i>Parasesarma erythrodractyia</i> ^A	Grapsid crab	46	22	13	5	4	6	5	1	11	7	4	7	7	0
Hymenossomatidae	<i>Amarinus lacustris</i> ^B	False spider crab	317	30	15	14	1	21	20	1	31	21	10	235	16	219
	<i>Ocypode</i> spp. ^A	Ghost crab	14	4	4	0	0	6	5	1	1	0	1	3	3	0
Ocyrodidae	<i>Ocypode</i> spp. ^A	Ghost crab	1	0	0	0	0	0	0	0	0	0	0	1	1	0
	Palaemonidae	<i>Macrobrachium intermedium</i> ^B	Striped shrimp	47	9	1	2	6	14	0	14	12	9	3	12	12
<i>Macrobrachium novaehollandiae</i> ^A		Long-armed prawn	1	0	0	0	0	0	0	0	1	1	0	0	0	0
Palaemonidae	<i>Palaemon debilis</i> ^A	Grass shrimp	39 796	14 100	6184	5579	2337	14 783	7817	6966	7685	4171	3514	3228	3154	74
	<i>Palaemonidae</i> spp. ^A	Shrimp	15103	7018	3756	3253	9	1430	531	899	6137	2088	4049	518	439	79
	Penaeidae	<i>Melicertus plebejus</i> ^{A,C}	Eastern king prawn	1335	566	180	349	37	382	191	191	281	118	163	106	106
<i>Metapenaeus bennettiae</i> ^{A,C}		Greasyback prawn	2038	610	146	453	11	132	93	39	939	458	481	357	317	40
<i>Metapenaeus macleayi</i> ^{A,C}		School prawn	32 082	14 709	2650	9136	2923	3130	1459	1671	8250	3862	4388	5993	5654	339
Sergestidae	<i>Acetes sibogae australis</i> ^B	Pink shrimp	142 613	56 165	39 048	8346	8771	19 660	17 254	2406	25 607	18 561	7046	41 181	41 047	134
Total abundance of decapods			235 081	93 945	52 302	27 536	14 107	39 836	27 569	12 267	49 483	29 642	19 841	51 817	50 924	893
Total number of decapod species			14	12	12	11	10	12	11	12	13	12	12	13	13	7

^AEstuarine–marine.

^BFreshwater–estuarine.

^CCommercially important.