Supplementary Material for 'The complex network of trophic interactions in a subAntarctic oceanic Marine Protected Area'

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Methodology

Food web construction

The following figure and tables summarise the data we used to build the network of trophic (predator-prey) interactions for the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Figure 1 resumes the type and number of references reviewed. Table 1 is the complete list of trophic interactions and references that confirm each of them. Table 2 is the species list with details on trophic species cases (aggregated taxa).

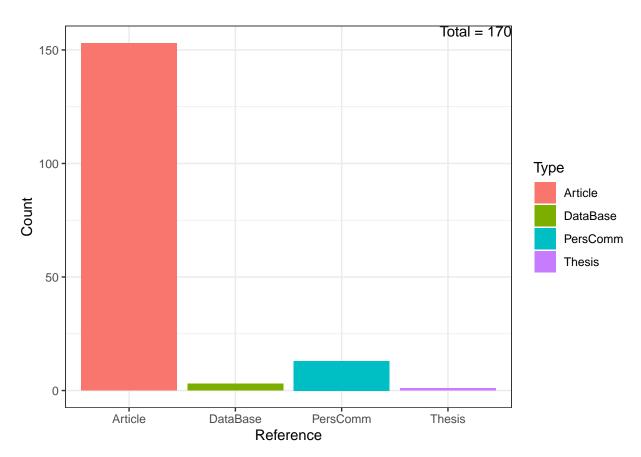


Figure 1: Summary of references used to build the network of trophic (predator-prey) interactions for the MPAN-BB ecosystem.

Table 1: List of predator-prey (trophic) interactions for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Alphabetically ordered by predator.

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Other Calcarea Leys&Eerkes- Mttps://doi.org/10.2307/4134590 Other Callochiton_puniceus Urteaga_pers.com. NA Other Campanularia_sp Encyclopedia of Life https://eol.org/pages/46551836 Other Campylaspis_spp Blazewicz- https://doi.org/10.1017/S0954102002000524 Other Campylonotus_vagans Lovrich_pers.com. NA				https://doi.org/10.1016/j.jembe.2006.06.028
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Other Campanularia_sp Encyclopedia of Life https://eol.org/pages/46551836 Other Campylaspis_spp Blazewicz- Paszkowycz&Ligowski_2002 Other Campylonotus_vagans Lovrich_pers.com. NA	Other	Callochiton punicers		NA
Other Campylaspis_spp Blazewicz- https://doi.org/10.1017/S0954102002000524 Paszkowycz&Ligowski_2002 Other Campylonotus_vagans Lovrich_pers.com. NA				
Paszkowycz&Ligowski_2002 Other Campylonotus_vagans Lovrich_pers.com. NA				
	Other	Cumpy taspis_spp		mapping (among / total) populationable
$Other & Careproctus_sp & GloBI & https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith\&resultType=json\&sourceTaxon=Careproctus$	Other	${\bf Campylonotus_vagans}$	Lovrich_pers.com.	NA NA
	Other	Careproctus_sp	GloBI	https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Careproctus

 $\begin{tabular}{ll} Table 1: List of predator-prey (trophic) interactions for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Alphabetically ordered by predator. (continued) \\ \end{tabular}$

Prey	Predator	Reference	Link
Other	Ceramaster_patagonicus	Mah_2006	https://repository.si.edu/bitstream/handle/10088/21587/iz_Circeaster_Mah.pdf
Other	Chaetopterus_antarcticus	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Cheiraster_(Luidiaster)_ger		https://eol.org/pages/4702963
Other	Cirratulidae	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Cladodactyla_crocea	Hernandez_1981	http://www.sidalc.net/cgi-bin/wxis.exe/?IsisScript=libri.xis&method=post&formato=2&cantidad=1&expresion=mfn=008249
Other	Clathria_spp	GATEWAy	https://doi.org/10.25829/iDiv.283-3-756
Other	Clausocalanus_spp		https://doi.org/10.1016/j.jembe.2006.06.028
Other	Clavularia_sp		https://eol.org/pages/46545578
Other	Cnemidocarpa_spp	Tatian_etal_2002	https://doi.org/10.1007/s003000100311
Other	Coelorinchus_fasciatus	FishBase	http://www.fishbase.us/TrophicEco/DietCompoSummary.php?dietcode=2552&genusname=Coelorinchus&speciesname=fasciatus
Other	Coelorinchus_marinii	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Colossendeis_megalonyx	Encyclopedia of Life	https://eol.org/pages/479487
Other Other	Convexella_magelhaenica Copepodite	Elias-Piera_etal_2013 Takahashi&Tiselius_2005	https://doi.org/10.3354/meps10152 https://doi.org/10.3354/meps203213
Other	Сореропте	Takanasma Tisenus_2005	nttps://doi.org/10.3594/neps305213
Other	Coperonus_comptus	Doti_pers.com.	NA NA
Other	Cosmasterias_lurida	Fraysse_pers.com.	NA .
Other	Cottoperca_trigloides		http://dx.doi.org/10.4067/S0717-7178200700020003
Other Other	Cottunculus_granulosus Cryosignum_sp	Laptikhovsky&Brickle_2011 Doti_pers.com.	https://doi.org/10.1007/s00300-011-0992-3 NA
Other	Cryosignum_sp	Dou_pers.com.	**
Other	Ctenocalanus_vanus	Schultes_etal_2006	https://doi.org/10.1016/j.jembe.2006.06.028
Other	Ctenodiscus_australis	Fraysse_pers.com.	NA NA
Other	Cumella_argentinae	Roccatagliata_pers.com.	NA (VI) - (10 0000 (NT 0NT 0NT
Other Other	Cyclochlamys_argentina Cyrtostrombidium_sp	Rosa_etal_2018	https://doi.org/10.2983/035.037.0405 908tps://www.int-res.com/articles/meps/64/m064p147.pdf
Other	Cyrtostrombiaium_sp	bernard&Rassouizadegan_1	ymutps://www.nnt-res.com/articles/meps/04/m004p141.pdi
Other	Cystodytes_antarcticus	Tatian_pers.com.	NA NA
Other	Dactylanthus_antarcticus		https://doi.org/10.1016/j.dsr2.2013.01.024
Other	Daption_capense	Bocher_etal_2001	$\rm https://doi.org/10.3354/meps223261$
Other	Desmosoma_sp		NA
Other	Diastylis_granulata	Blazewicz- Paszkowycz&Ligowski 2002	https://doi.org/10.1017/S0954102002000524
Other	Diastylis_hammoniae	Blazewicz-	${\rm https://doi.org/10.1017/S0954102002000524}$
Other	Diastylis_planifrons	Paszkowycz&Ligowski_2002 Blazewicz-	https://doi.org/10.1017/S0954102002000524
Other	Diablyiio_planiiroiis	Paszkowycz&Ligowski_2002	
Other	Didemnum_studeri	Tatian_pers.com.	NA NA
Other	Diomedea_sp		https://doi.org/10.1016/j.jnc.2019.125748
Other	Diplodontias_singularis	Fraysse_pers.com.	NA NA
Other	Diplopteraster_clarki	Botto etal 2006	https://doi.org/10.1016/j.fishres.2006.06.001
Other	Dissostichus_eleginoides	Garcia de la	https://abacwebpages3.us-east-2.amazonaws.com/502.pdf
	= -	Rosa_etal_1997	
Other	Doryteuthis_gahi	Phillips_etal_2003	https://doi.org/10.1007/s00300-003-0509-9
Other	Drepanopus_forcipatus	Antacli_etal_2014	${\rm https://doi.org/10.1590/S1679-87592014073406204}$
Other	Eatoniella_spp	Encyclopedia of Life	https://eol.org/pages/11548684
Other	Echinozone_sp	Doti_pers.com.	NA NA
Other	Ekleptostylis_heardi	Blazewicz-	https://doi.org/10.1017/S0954102002000524
		$Paszkowycz\&Ligowski_2002$	
Other	Ekleptostylis_vemae	Blazewicz-	https://doi.org/10.1017/S0954102002000524
		Paszkowycz&Ligowski_2002	
Brachiopoda	Enteroctopodidae		https://doi.org/10.1007/s12526-019-00935-1
Other	Enteroctopodidae	Ibañez&Chong_2008	https://doi.org/10.1017/S0025315408001227
Other	Eteone_spp	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Eubalaena_australis	- · · · · · · · · · · · · · · · · · · ·	NA NA
Other	Eucranta_sp	GATEWAy	https://doi.org/10.25829/iDiv.283-3-756
Other	Eudorella_sp	Blazewicz- Paszkowycz&Ligowski 2002	https://doi.org/10.1017/S0954102002000524
Other	${\bf Eudyptes_chrysocome}$		$\rm https://doi.org/10.1007/s00300-004-0668-3$
Other	Eukrohnia_hamata	Bruno_pers.com.	NA NA
Other	Eunereis_patagonica	GloBI	https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Nereididae
Other	Eunice_pennata	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Euphausia_spp	Gibbons_etal_1991	https://academic.oup.com/plankt/article-abstract/13/3/473/1530618
Other	Eurhomalea_sp	Encyclopedia of Life	https://eol.org/pages/46469959
		Vinuesa&Varisco 2007	http://dx.doi.org/10.4067/S0717-71782007000200003
Other	Eurypodius latreillii		
Other Brachiopoda	Eurypodius_latreillii Eurypodius_latreillii		nttp://ax.aoi.org/10.4067/S0/11-/118200/000200003 NA

Table 1: List of predator-prey (trophic) interactions for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Alphabetically ordered by predator. (continued)

Prey	Predator	Reference	Link
Brachiopoda	Eurypodius_sp	Lovrich_pers.com.	NA .
Brachiopoda	Falsilunatia_carcellesi	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1
Other	Falsilunatia_carcellesi	Liuzzi_etal_2019	$https://www.conicet.gov.ar/new_scp/detalle.php?keywords = \&id = 37370\&congresos = yes\&detalles = yes\&congr_id = 9632053$
Other	Flabellum_spp	Encyclopedia of Life	https://eol.org/pages/2551457
Other	Foraminifera	GloBI	https://www.global biotic interactions.org/browse/? interaction Type = interacts With & result Type = json & source Taxon = For a miniferaction for the property of the prop
Brachiopoda	Fuegotrophon_pallidus	Gordillo_etal_2019	${ m https://doi.org/10.1007/s12526-019-00935-1}$
Other	Fuegotrophon_pallidus	Liuzzi_etal_2019	${\rm https://www.conicet.gov.ar/new_scp/detalle.php?keywords} = \&id = 37370 \& congresos = yes \& detalles = yes \& congr_id = 9632053 = yes \& congr_id = yes \& congruid = yes$
Other	Fulmarus_glacialoides	Encyclopedia of Life	https://eol.org/pages/45511495
Other	Fusitriton_magellanicus	Botto_etal_2006	https://doi.org/10.1016/j.fishres.2006.06.001
Other	Genypterus_blacodes	Vinuesa&Varisco_2007;	http://dx.doi.org/10.4067/S0717-71782007000200003; http://hdl.handle.net/1834/15206
		Giberto_etal_2017	
Other	Glabraster_antarctica	Encyclopedia of Life	https://eol.org/pages/45328729
Other	Globicephala_melas	Clarke&Goodall_1994	$\rm https://doi.org/10.1017/S0954102094000234$
Other	a)	Jumars etal 2015	No. (1): (10.334)
Other	Glycera_spp	GATEWAy	https://doi.org/10.1146/annurev-marine-010814-020007 https://doi.org/10.25829/10biv.283-3-756
Other	Gorgonocephalus_chilensis	Vinuesa&Varisco 2007	nttps://doi.org/10.26s29/IDV.26s-3-700 http://dx.doi.org/10.4067/S071-71782007000200003
Other	Grimothea_gregaria Gymnodinium_sp	Encyclopedia of Life	http://dx.doi.org/10.4007/S0/17-71782007000200003 https://ed.lorg/pages/901805
Other	Gymnodinium_sp Gyrodinium_sp	GloBI	nttps://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Gyrodinium&targetTaxon
Contra	G3.5dimum_sp	0.001	AND
Other	Halicarcinus_planatus	GloBI	https://www.globalbiotic interactions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Aglaophamus
Other	Halichondrida	Koopmans_etal_2015	$\rm https://doi.org/10.1007/s10126-014-9594-8$
Other	Haplocheira_barbimana_ro		https://doi.org/10.25829/iDiv.283-3-756
Other	Haplosclerida	Marina_etal_2018	${ m https://doi.org/10.1016/j.ecss.2017.10.015}$
Other	Harmothoe_sp	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Hemilamprops chilensis	Roccatagliata pers.com.	NA NA
Other	Henricia_obesa	Anderson_1960	https://www.jstor.org/stable/1539257
Other	Henricia_studeri	Anderson_1963	https://www.jstor.org/stable/1539257
Other	Hexactinellida	Pile&Young_2006	https://doi.org/10.1016/j.dsr.2006.03.008
Other	Hiatella_sp	Petersen_etal_2003	https://doi.org/10.1007/s00300-003-0483-2
Other Other	Hippasteria_falklandica	Mah_2006 Blazewicz-	$\label{local-control} $$ $ https://repository.si.edu/bitstream/handle/10088/21587/iz_Circeaster_Mah.pdf $$ $ https://doi.org/10.1017/S0954102002000524 $$ $ \frac{https://doi.org/10.1017/S0954102002000524 $$ $ \frac{https://doi.org/10.1017/S09541020020000524 $$ $ \frac{https://doi.org/10.1017/S09541020020000524 $$ $ \frac{https://doi.org/10.1017/S095410200200000000000000000000000000000000$
Other	Holostylis_uniramosa	Blazewicz- Paszkowycz&Ligowski_2002	
Other	Hormathia_pectinata	Schejter_etal_2018	https://ri.conicet.gov.ar/handle/11336/98394
Other	Hvalinoecia artifex	Jumars etal 2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Hyperoodon_planifrons	Riccialdelli_etal_2017	https://doi.org/10.335/4/meps12296
Other	Ianiropsis_sp	Doti_pers.com.	NA NA
Other	Ianthopsis_laevis	Doti_pers.com.	NA NA
Other	Iathrippa_menziesi	Doti_pers.com.	NA .
Other	Iathrippa_multidens	Doti_pers.com.	NA NA
Other	Iathrippa_sp	Doti_pers.com.	NA NA
Other	Ideogorgia_laurae	Elias-Piera_etal_2013	https://doi.org/10.3354/meps10152
Other	Iluocoetes_fimbriatus	Mianzan_etal_1996	https://doi.org/10.1016/0165-7836(95)00459-9
Other	Jassa_alonsoae	Dauby_etal_2001	https://doi.org/10.1023/A:1017596120422
Other	Joeropsis_curvicornis	Doti_pers.com.	NA NA
Other	Joeropsis_intermedius	Doti_pers.com.	NA NA
Other	T	D-+i	NA .
Other	Joeropsis_sp Laboea strobila	Doti_pers.com. Bernard&Rassoulzadegan 1:	••••
Other	Laboea_strobila Laetmonice_producta	Jumars_etal_2015	98etps://www.int-res.com/articles/meps/64/m064p147.pdf https://doi.org/10.1146/annurev-marine-010814-020007
Other	Laetmonice_producta Lagenorhynchus_australis	Riccialdelli etal 2010	nttps://doi.org/10.1140/annurev-marine-010814-020007 https://doi.org/10.3354/mepo88826
Other	Lagenorhynchus_cruciger	Riccialdelli_etal_2010	nttps://doi.org/10.3594/meps08826
	genormy nemus_er derger	ciai_2010	
Other	Lanice_sp	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Larvae_Fish	Hunter_1990	https://books.google.com.ar/books?hl=es&lr=&id=TZbRp0z5-p0C&oi=fnd&pg=PA287&dq=larvae+fish+feeding&ots=QoUrG4fw5-&sig=-OLyyd-https://books.google.com.ar/books?hl=es&lr=&id=TZbRp0z5-p0C&oi=fnd&pg=PA287&dq=larvae+fish+feeding&ots=QoUrG4fw5-&sig=-OLyyd-https://books.google.com.ar/books?hl=es&lr=&id=TZbRp0z5-p0C&oi=fnd&pg=PA287&dq=larvae+fish+feeding&ots=QoUrG4fw5-&sig=-OLyyd-https://books.google.com.ar/books?hl=es&lr=&id=TZbRp0z5-p0C&oi=fnd&pg=PA287&dq=larvae+fish+feeding&ots=QoUrG4fw5-&sig=-OLyyd-https://books.google.com.ar/books?hl=es&lr=&id=TZbRp0z5-p0C&oi=fnd&pg=PA287&dq=larvae+fish+feeding&ots=QoUrG4fw5-&sig=-OLyyd-https://books.google.com.ar/books?hl=es&lr=&id=TZbRp0z5-p0C&oi=fnd&pg=-PA287&dq=larvae+fish+feeding&ots=QoUrG4fw5-&sig=-OLyyd-https://books.google.com.ar/books
			${\tt N0X_49LjM4shDvH5uXps\#v=onepage\&q=larvae\%20fish\%20feeding\&f=false}$
Other	Larvae_Nauplii	Saiz_etal_2014	https://doi.org/10.4319/lo.2014.59.6.2077
Other	Lepidonotothen_squamifron		http://www.fishbase.us/TrophicEco/FoodItemsList.php?vstockcode=7385&genus=Lepidonotothen&species=squamifronssections.
Other	Leptochiton_kerguelensis	Sirenko_abstract	NA NA
Other	Leptochiton_medinae	Urteaga_pers.com.	NA NA
Other	Leptychaster_sp	Gale_etal_2013	https://doi.org/10.1016/j.dsr.2013.05.016
Other	Leucon_septemdentatus	Roccatagliata_pers.com.	NA NA
Other	Leucothoe_spinicarpa	Terron-	http://dx.doi.org/10.12681/mms.1298
		Sigler_etal_2016	5 · 7 · 6 · 7 · 6 · 6 · 7 · 6 · 6 · 7 · 6 · 6
Other	Libidoclaea_granaria	Funes_etal_2022	https://doi.org/10.1038/s41598-022-14363-y
0.1			No. // No. // No. / No.
Other	Limopsis_sp	Martin_etal_1995	https://aquadocs.org/bitstream/handle/1834/26697/Bastida24.pdf?sequence=1
Otner	Liotella_crassicostata	Encyclopedia of Life	https://eol.org/pages/33077165

 $\begin{tabular}{ll} Table 1: List of predator-prey (trophic) interactions for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Alphabetically ordered by predator. (continued) \\ \end{tabular}$

Prey	Predator	Reference	Link
Brachiopoda	Lithodes_confundens	Lovrich_pers.com.	NA NA
Other	Lithodes_confundens	Lovrich_pers.com.	NA NA
Brachiopoda	Lithodes_couesi	Lovrich_pers.com.	NA NA
Other	Lithodes_couesi	Lovrich_pers.com.	NA
Other	Lithodes_turkayi	Lovrich_pers.com.	NA
Other	Lohmanniella_sp	Bernard&Rassoulzadegan_	19metps://www.int-res.com/articles/meps/64/m064p147.pdf
Other	Lumbrineridae	GloBI	https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Cirratulidae
Other	Lysasterias_sp	GATEWAy	https://doi.org/10.25829/iDiv.283-3-756
0.1			
Other	Macronectes_giganteus	Hunter_1983	https://doi.org/10.1111/j.1469-7998.1983.tb02813.x
Other	Macronectes_halli	Hunter_1983	https://doi.org/10.1111/j.1469-7998.1983.tb02813.x
Other	Macrourus_carinatus	Laptikhovsky_2005	${ m https://doi.org/10.1016/j.dsr.2005.03.003}$
Other	Macrourus_holotrachys	FishBase FishBase	http://www.fishbase.us/TrophicEco/FoodItemsList.php?vstockcode=7320&genus=Macrourus&species=holotrachys
Other	Macrourus_whitsoni	FishBase	http://www.fishbase.us/TrophicEco/FoodItemsList.php?vstockcode=7321&genus=Macrourus&species=whitsonialsocies=whitsocies=whitsonialsocies=whitsonialsocies=whitsonialsocies=whitsocies=whitsonialsocies=whitsonialsocies=whitsonialsocies=whitsonialsocies=whitsonialsocies=whitsonialsocies=whitsonialsocies=whitsocies=whitsonialsocie
Other	Macruronus_novaezelandiae	Alvarez etal 2022	https://doi.org/10.1007/s00300-022-03063-y
Other	Magelona alleni	GloBI	https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Magelona
Other	Mancopsetta maculata	FishBase	http://www.fishbase.us/TrophicEco/FoodItemsList.php?vstockcode=7565&genus=Mancopsetta&species=maculata
Other	Melanostigma gelatinosum	GloBI	https://www.globalbiotic interactions.org/browse/? interactionType=interactsWith&resultType=json&sourceTaxon=Melanostigma%20 gelatinosum
Other	Meridiosignum_menziesi	Doti_pers.com.	NA
	-		
Other	$Meridiosignum_undulatum$		NA
Other	Mesoplodon_bowdoini	Riccialdelli_etal_2017	${\rm https://doi.org/10.3354/meps12296}$
Other	Mesoplodon_grayi	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296
Other	Mesoplodon_layardii	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296
Other	Metepimeria_acanthurus	Encyclopedia of Life	https://eol.org/pages/46545578
Other	Micromesistius_australis	FishBase	http://www.fishbase.us/TrophicEco/DietCompoSummary.php?dietcode=515&genusname=Micromesistius&speciesname=australis
Other	Moruloidea_darwinii	Poore&Bruce_2012	https://dww.manaee.us/ntopinc.co/ptecomposiumiary.pnp.uetcote=313&genusname=wictomesistuoa&spectesname=austrans https://doi.org/10.1371/journal.pone.0043529
Other	Munna_gallardoi	Doti_pers.com.	NA
Other	Munna_longipoda	Doti_pers.com.	NA
Other	Munna_pallida	Doti_pers.com.	NA
Other	Munnogonium_diplonychia	Doti_pers.com.	NA
Other	Munnogonium_falklandicum	Doti_pers.com.	NA
Other	Muraenolepis_spp	Encyclopedia of Life	https://eol.org/pages/46495510
Other	Myxine_spp	FishBase	https://www.fishbase.de/summary/Myxine-glutinosa.html
Other	Natatolana_pastorei	Poore&Bruce_2012	https://doi.org/10.1371/journal.pone.0043529
0.1			
Other	Neasellus_argentinensis	Doti_pers.com.	NA
Other Other	Neasellus_bicarinatus	Doti_pers.com. Ohman 1987	NA
Other	Neocalanus_tonsus Neojaera antarctica	Onman_1987 Doti pers.com.	https://doi.org/10.4319/lo.1987.32.6.1317 NA
Other	Neoserolis_exigua	LeBourg_PhDTesis_2020	NA https://www.researchgate.net/publication/342305523 Trophic_ecology_of_Southern_Ocean_sea_stars_Influence_of_environmental_drivers_on_trophic_diversity
Other	Neoserons_exigua	Lebourg_1 iiD Tesis_2020	https://www.researchgate.net/publication/542505025_fromthecetongy_of_boutnern_ocean_sea_stats_mindente_of_environmental_utivers_of_tropinc_utversity
Other	Nephtys_sp	GloBI	https://www.globalbiotic interactions.org/browse/? interaction Type = interacts With & result Type = json & source Taxon = Nephtys
Other	Nicolea_chilensis	Encyclopedia of Life	https://eol.org/pages/46496810
Other	Nicon_maculata	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Nothria_anoculata	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Notioceramus_anomalus	Encyclopedia of Life	https://eol.org/pages/45328278
Other	Nuttallochiton_hyadesi	Sirenko_abstract	NA
Other	Nuttallochiton_martiali	Urteaga_pers.com.	NA
Other	Obelia_spp	Encyclopedia of Life	https://eol.org/pages/46551836
Other	Oceanites_sp	Croxall_etal_1988	https://doi.org/10.1111/j.1469-7998.1988.tb02417.x
Other	Odontaster_penicillatus	Koplovitz_etal_2009	https://doi.org/10.3354/ab00188
Other	Odontaster_sp	Marina_etal_2018	https://doi.org/10.1016/j.ecss.2017.10.015
Other	Odontaster_sp Odontasteridae	Fraysse pers.com.	https://doi.org/10.1016/j.ecss.2017.10.015 NA
Other	Odontocymbiola_magellanic		NA https://doi.org/10.1016/j.fishres.2006.06.001
Other	Oenonidae	GloBI	https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Oenonidae
Other	Oithona_spp	Lampitt&Gamble 1982	https://doi.org/10.1007/BF00397192
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Other	Onoba_spp	Encyclopedia of Life	https://eol.org/pages/19661450
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 $Table \ 1: \ List of predator-prey (trophic) \ interactions for the food web of the Marine Protected Area Namuncur\'a - Banco Burdwood I ecosystem. Alphabetically ordered by predator. (continued)$

Other Phalacrocorax_atriceps Re_198 https://doi.org/10.1016/j.ecss.2017.10.015 Other Phalacrocorax_atriceps GloBI https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Phalacrocorax%2017.00.007 Other Pista_spp Encyclopedia of Life https://eol.org/pages/46496859 Other Pleurosignum_chilense Other Pleurosignum_magnum Doti_pers.com. NA Other Pociloselerida Thurber_2007 https://doi.org/10.1023/A:1017596120422 Other Polycitor_glareosus Tatian_pers.com. NA Other Polycitor_glareosus Encyclopedia of Life https://doi.org/pages/460424 Other Polyodra_sp Encyclopedia of Life https://doi.org/pages/47033496 Other Polyodra_sp Encyclopedia of Life https://doi.org/pages/47033496 Other Polyona_levis Encyclopedia of Life https://eol.org/pages/47033496 Other Primnoisis_antarctica Orejas_etal_2003 https://eol.org/pages/460424 Other Primnoisis_antarctica Orejas_etal_2003 https://doi.org/10.1023/A:1017596120425 Other Primnoisis_antarctica Orejas_etal_2003 https://doi.org/10.25829/iDiv.283-3-756 Other Procellaria_aequinoctialis Procellaria_aequinoctialis_aequinoctialis_aequinoctialis	Prey	Predator	Reference	Link
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Other Puncturella_conica Encyclopedia of Life https://eol.org/pages/47017905 Other Pyura_spp Tatian_pers.com. NA Other Quetzogonium_dentatum Doti_pers.com. NA	Other	Pteraster_affinis	Encyclopedia of Life	https://eol.org/pages/4703969
Other Puncturella_conica Encyclopedia of Life https://eol.org/pages/47017905 Other Pyura_spp Tatian_pers.com. NA Other Quetzogonium_dentatum Doti_pers.com. NA	Other	Pteraster_sp	GloBI	https://www.globalbiotic interactions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Pterasters.org/browse/?interactionType=interactio
Other Pyura_spp Tatian_pers.com. NA Other Quetzogonium_dentatum Doti_pers.com. NA	Other	Puncturella_conica	Encyclopedia of Life	
Other Quetzogonium_dentatum Doti_pers.com. NA	Other	Pyura spp		
Other Rectarcturus_tuberculatus Doti_pers.com. NA	Other	Rectarcturus_tuberculatus	Doti_pers.com.	NA

 $\begin{tabular}{ll} Table 1: List of predator-prey (trophic) interactions for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Alphabetically ordered by predator. (continued) \\ \end{tabular}$

Prey	Predator	Reference	Link
Other	Rhincalanus_gigas	Schultes_etal_2006	https://doi.org/10.1016/j.jembe.2006.06.028
Other	Rhodalia_miranda	GATEWAy	https://doi.org/10.25829/iDiv.283-3-756
Other	Sabellidae	GloBI	https://www.globalbiotic interactions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Sabellidae
Other	Salilota_australis	Vinuesa&Varisco_2007	${\rm http://dx.doi.org/10.4067/S0717-71782007000200003}$
Other	Salpa_thompsoni	GATEWAy	https://doi.org/10.25829/iDiv.283-3-756
Other	Santia_compacta	Doti_pers.com.	NA
Other	Schizasteridae	GloBI	https://www.globalbiotic interactions.org/browse/? interaction Type=interacts With &result Type=json & source Taxon=Schizasteridae to the contract of the co
Other	Scissurella_clathrata	Helwerda&Wesselingh_2014	$\rm https://www.mapress.com/zootaxa/2014/f/z03838p194f.pdf$
Other	Seba_subantarctica	Kunzmann_1996	https://epic.awi.de/id/eprint/26388/1/BerPolarforsch1996210.pdf
Other	Serpula_spp	Encyclopedia of Life	https://eol.org/pages/2975605
Other	Serratosagitta_tasmanica	Bruno_pers.com.	NA
Other	Spheniscus_magellanicus	Re_1998	$https://aquadocs.org/bitstream/handle/1834/2583/Re_T2_69-98.pdf?sequence=1\&isAllowed=yhttps://aquadocs.org/bitstream/handle/1834/2583/Re_T2_69-98.pdf?sequence=1\&isAllowed=yhttps://aquadocs.org/bitstream/handle/1834/2583/Re_T2_69-98.pdf?sequence=1\&isAllowed=yhttps://aquadocs.org/bitstream/handle/1834/2583/Re_T2_69-98.pdf?sequence=1&isAllowed=yhttps://aquadocs.org/bitstream/handle/1834/2583/Re_T2_69-98.pdf?sequence=1&isAllowed=yhttps://apub.pdf?sequence=yhttps://apub.pdf?sequence=1&isAllowed=yhttps://apub.pdf?sequence=yhttps://apub.pdf?sequence=yhttps://apub.pdf?sequence=yhttps://apub.pdf?sequence=yhttps://apub.pdf?sequence=yhttps://apub.pdf?sequence=yhttps://apub.pdf?sequence=yhttps://apub.pdf.yhttps://apub.pd$
Other	Spiophanes_sp	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Sporonana_sp	Doti_pers.com.	NA NA
Other	Sprattus_fuegensis	Sabatini&Alvarez- Colombo_2001	https://doi.org/10.3989/scimar.2001.65n121
Other	Squalus_acanthias	Bellegia_etal_2019	https://doi.org/10.1007/s10750-019-04027-w
Other	Stenothoidae	Guerra-	https://doi.org/10.1016/j.seares.2013.08.006
		Garcia_etal_2014	
Other	Sterechinus_agassizii	Marina_etal_2018	https://doi.org/10.1016/j.ecss.2017.10.015
Other	Strobilidium_sp	Vandromme_etal_2010	https://archimer.ifremer.fr/doc/00070/18171/
Other	Strombidinopsis_sp	Bernard&Rassoulzadegan 1	98etps://www.int-res.com/articles/meps/64/m064p147.pdf
Other	Strombidium_spp		9htps://www.int-res.com/articles/meps/64/m064p147.pdf
Other	Sycozoa_sigillinoides	Tatian pers.com.	NA NA
Other	Syllidae	GloBI	https://www.globalbiotic interactions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Syllidae
Other	Sympagurus_dimorphus	Lovrich_pers.com.	NA NA
Other	Tasmacetus_shepherdi	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296
Brachiopoda	Tectonatica_impervia	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1
Other	Tectonatica_impervia	Gordillo_pers.com.	NA NA
Other	Tedania_sp	GATEWAy	https://doi.org/10.25829/iDiv.283-3-756
Other	Terebellides_malvinensis	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Tetractinellida	Parzanini etal 2018	https://doi.org/10.1016/j.pocean.2018.10.007
Other	Thalassarche_chrysostoma	Watts&Tarling_2012	https://doi.org/10.1016/j.dsr2.2011.05.001
Other	Thalassarche_melanophris	Arata&Xavier_2003	https://doi.org/10.1007/s00300-003-0530-z
Other	Thelepus sp	Jumars etal 2015	https://doi.org/10.1146/annurev-marine-010814-020007
Other	Themisto_gaudichaudii	Watts&Tarling_2012	https://doi.org/10.1016/j.dsr2.2011.05.001
Other	Thouarella_spp	Elias-Piera_etal_2013	https://doi.org/10.3354/meps10152
Brachiopoda	Thymops_birsteini	Lovrich_pers.com.	NA NA
Other	Tinerfe_cyanea	Schiariti_etal_2020	https://doi.org/10.1080/00288330.2020.1775660
Other	Tonicia_lebruni	Urteaga_pers.com.	NA NA
Other	Travisia_kerguelensis	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007
Brachiopoda	Trophon_ohlini	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1
Other	Trophon_ohlini	Liuzzi_etal_2019	https://www.coniect.gov.ar/new_scp/detalle.php?keywords=&id=37370&congresos=yes&detalles=yes&congr_id=9632053
Brachiopoda	Trophon_plicatus	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1
Other	Trophon_plicatus	Liuzzi etal 2019	https://www.coniect.gov.ar/new_scp/detalle.php?keywords=&id=37370&congresos=yes&detalles=yes&congr_id=9632053
Other	Tryphosella_sp	GATEWAy	https://now.org/10.2582/jDiv.283-756
Other	Tryphosites_chevreuxi	Jacob etal 2011	https://doi.org/10.1016/B978-0-12-386475-8.00005-8
Other	Tulpa_tulipifera	Encyclopedia of Life	https://doi.org/.uc.1010/.0916-0-12-3004/3-8-00003-6 https://doi.org/pages/46551836
Other	Uromunna_nana	Doti_pers.com.	nttps://eu.org/pages/40001650 NA
Other	Uromunna_sp	Doti_pers.com.	NA
Other	Uromunna_sp Ziphius_cavirostris	Riccialdelli_etal_2017	NA https://doi.org/10.3354/meps12296
Other	Zygochlamys_patagonica	Botto_etal_2006	https://doi.org/10.1016/j.fishres.2006.06.001

Table 2: List of species for the food web of the Marine Protected Areas Namuncurá - Banco Burdwood I and II ecosystem. Alphabetically ordered by species.

Abyssianira_argentenensis Abyssianira_dentifrons Abyssianira_spp Acanthoserolis_schythei	Taxonomy	Group			
Abyssianira_dentifrons S Abyssianira_spp S Acanthoserolis_schythei S			Reference	Link	Observation
Abyssianira_spp S Acanthoserolis_schythei	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Acanthoserolis_schythei S	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	Aggregated: Abyssianira_spp
	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Acodontaster_elongatus S	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
Acodontaster_sp S	Species	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Actinauge_longicornis S	Species	Cnidaria_benthic	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
	Species	Cnidaria_benthic	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Adelomelon_ancilla 5	Species	Gastropoda	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
Advenogonium_fuegiae	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Isopoda	Schejter_etal_2016; Doti_etal_2020	https://doi.org/10.1007/s00300-016-1913-2	
Aglaophamus_virginis	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Agonopsis_chiloensis	Species	Fish_BenPel	Schejter_etal_2016; Delpiani_etal_2020; Díaz de	https://doi.org/10.1007/s00300-016-1913-2	
			Astarloa_pers.com.		
Alcyonium_antarcticum S	Species	Coral	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Allorostrata_ovalis S	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Allorostrata_scutifrons	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Amblyraja_doellojuradoi S	Species	Fish_Chond	Díaz de Astarloa_pers.com.	NA	
Amblyraja_georgiana S	Species	Fish_Chond	Delpiani_TallerCientifico_2021	NA	
	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
	Species	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
	Species	Amphipoda	Lopez-Gappa_etal_2006; Chiesa_pers.com.	$\rm https://doi.org/10.11646/ZOOTAXA.1342.1.1$	
Anobothrus_sp 5	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Antarcturidae 1	Family	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Coral	Schejter_etal_2018; 2020b	https://ri.conicet.gov.ar/handle/11336/98394	
	Species	Ascidiacea	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
	Species	Zooplankton	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Arctocephalus_australis	Species	MarineMammals 2	RayaRey_pers.com.	NA	
	Species	SeaBirds	RayaRey_pers.com.	NA	
	Species	SeaBirds	RayaRey_pers.com.	NA	
	Species	Gastropoda	Pastorino_2016	https://doi.org/10.11646/zootaxa.4179.3.1	
	Species	Amphipoda	Lopez-Gappa_etal_2006; Chiesa_pers.com.	https://doi.org/10.11646/ZOOTAXA.1342.1.1	
Asbestopluma_sp S	Species	Porifera	Schejter_etal_2020a	https://doi.org/10.1002/aqc.3265	
	Species	Ascidiacea	Tatian etal 2005	https://doi.org/10.3989/scimar.2005.69s2205	
	Species	Bivalvia	Scheiter etal 2016	https://doi.org/10.1007/s00300-016-1913-2	
Astrotoma_agassizii	Species	Echinodermata	Schejter etal 2016; 2020a	https://doi.org/10.1007/s00300-016-1913-2	
	Species	Echinodermata	Schejter_etal_2016; Flores_etal_2019	https://doi.org/10.1007/s00300-016-1913-2	
Austrocidaris_spinulosida S	Species	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Austrodoris_sp S	Species	Gastropoda	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Austrofilius_furcatus S	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Austrofilius_sp 5	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Austronanus_dentatus	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Azadinium_sp S	Species	Dinoflagellates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	As Dinoflagellates_auto
	Domain	Bacteria	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
3alaenoptera_acutorostrata	Species	MarineMammals 1	RayaRey_pers.com.	NA	
	Species	MarineMammals_1	RayaRey_pers.com.	NA	
	Species	MarineMammals 1	RayaRey_pers.com.	NA	
	Species	MarineMammals_1	RayaRey_pers.com.	NA	
	Species	Cnidaria_benthic	Schejter_etal_2018; 2020b	https://ri.conicet.gov.ar/handle/11336/98394	
	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
	Species	Fish_Chond	Delpiani_etal_2020; Díaz de Astarloa_pers.com.	https://doi.org/10.1016/j.fishres.2019.105373	
Bathyraja_brachyurops	Species	Fish_Chond	Díaz de Astarloa_pers.com.	NA	
	Species	Fish Chond	Díaz de Astarloa_pers.com.	NA	
	Species	Fish Chond	Delpiani TallerCientifico 2021	NA	
	Species	Fish_Chond	Díaz de Astarloa_pers.com.	NA	
	Species	Fish_Chond	Delpiani_TallerCientifico_2021	NA	
Bathyraja_multispinis :	Species	Fish_Chond	Delpiani_TallerCientifico_2021	NA	
	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Bathyraja_scaphiops S	•	Cnidaria benthic	Schejter etal 2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Bathyraja_scaphiops S Boccardia_sp	Species		Schejter_etal_20206 Schejter_etal_2016	https://doi.org/10.11046/2004axa.4878.2.1 https://doi.org/10.1007/s00300-016-1913-2	Aggregated: Magellania_venosa, Liothyrella_uva &
Bathyraja_scaphiops S Boccardia_sp S Bolocera_kerguelensis S	Species Species	Brachiopoda			
Bathyraja_scaphiops S Boccardia_sp S Bolocera_kerguelensis S Brachiopoda_spp	Species			NΔ	Terebratella_dorsata
Bathyraja_scaphiops S Boccardia_sp S Bolocera_kerguelensis S Brachiopoda_spp S	Species Other	Bryozoa	See species	NA https://doi.org/10.1007/s00300-020-02725-z	
Bathyraja_scaphiops S Boccardia_sp S Bolocera_kerguelensis S Brachiopoda_spp S Bryozoa Caecianiropsis_ectiformis S	Species Other Species	Bryozoa Isopoda	See species Doti_etal_2020	$\rm https://doi.org/10.1007/s00300-020-02725-z$	${\bf Terebratella_dorsata} \\ {\bf NA} \\$
Bathyraja_scaphiops Boccardia_sp Bolocera_kerguelensis Brachiopoda_spp Bryozoa Caecianiropsis_ectiformis Calanus_spp	Species Other	Bryozoa	See species		Terebratella_dorsata

 $\label{thm:constraints} \begin{tabular}{ll} Table 2: List of species for the food web of the Marine Protected Areas Namuncurá - Banco Burdwood I and II ecosystem. \\ Alphabetically ordered by species. \\ \end{tabular}$

Contemporation Cont	Species	Taxonomy	Group	Reference	Link	Observation
Company	Callochiton puniceus	Species	Polyplacophora	Teso etal 2019	https://doi.org/10.1186/s12898-019-0263-7	
Composition						
Comproton						Aggregated: Campylagnic frigida & Campylagnic bacoggui
September Persistent Pers				Lovrich_etal_2005;		Tigging acceptance of the country and the coun
Contention Con	Careproctus sp	Species	Fish BenPel		NA	
Displacement		Species			https://doi.org/10.1007/s00300-018-2377-3	
Controlled Section Controlled Contro		•				
Care Care Care Care Care Care Care Care						
Schelen Species Spice			Polychaeta			
Section Special Spec	Cladodactyla crocea		Echinodermata			
Concessions					https://doi.org/10.11646/zootaxa.4312.3.11	Aggregated: Clathria species
Secretary Secr						
Section Sect						night of the control
Section Sect						
Contention Spread Pale Desire Pale						
Section Sect			_	Astarloa_pers.com.		
Colorantial_Signation Species Control Shoffer_at_200000.22005 https://doi.org/10.1009/aya-2005 streps/ide.org/10.1009/aya-2005 s				Astarloa_pers.com.		
Conception						
Composition						
Species Spec						
Controperation Species Species Spind Paragement Diata of Antison Paragement Species Pind Diata of Antison Diata of Antison Paragement Species Pind Diata of Antison Paragement Species Pind Diata of Antison Paragement Species Pind Diata of Antison Paragement Pind Diata of Antison Pind Diata of Antis		Ontogenetic stage				
Section Path						
Species Pais						
Cyrosignum_pro						
Secondame_same Seco	Cottunculus_granulosus	Species	Fish_Demersal		https://doi.org/10.1016/j.fishres.2019.105373	
Comelia_argentine	Cryosignum_sp	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Payme_ratia_2018	Ctenocalanus_vanus	Species	Copepoda	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Cumela_argentiane	Ctenodiscus_australis	Species	Echinodermata		$\rm https://doi.org/10.3354/meps12296$	
Sycies Sycies Sycies Sycies Ciliates Guinder_stal_2000 https://doi.org/10.1371/journal.pone.0233156 Sycies Ciliates Guinder_stal_2000 https://doi.org/10.1371/journal.pone.0233156 Sycies Acidiaces Caldaria_benthic Sycies Diatoms Guinder_stal_2000 https://doi.org/10.1007/90000.020-02773-8 Aggregated: Padlaria_sulcata_k Thalasionema_nitzechicles Thalasi	Cumolla argentinae	Species	Cumagaa		https://doi.org/10.1007/c00200.020.02725.g	
Species Species Species Clistee Substance State Species Ascidiacea Ascidiacea Ascidiacea Ascidiacea Ascidiacea Ascidiacea Shelpter_stal_2005 https://doi.org/10.1104/j.osotxax.4878.2.1						
Species Species Species Species Cnidaria_benthic Schejer_estal_2005 https://doi.org/10.3889/scimar_2005.0892205 https://doi.org/10.1868/socias_4878.2.1 Https://doi.org/10.1007/s00300-020-02725-x Https://doi.org/10.1007/s00300-018-2377-3						
Datylanhum_antareticus Species SeBirde Sebject_estal_2020b https://doi.org/10.1104/potaxa.4878.2 Sebject SeBirde SaysRey_pers.com. NA NA Non-living NA Non-living Niccialdelli_pers.com. NA Na Na Non-living Niccialdelli_pers.com. NA Na Na Na Na Na Na Na						
Daplino_capense						
Demosoma_sp						
Detritus						
Diatylis_granulata Species Cunacea Dott_etal_2020 https://doi.org/10.1007/n00300-020-02725-2						
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Dictyocha_speculum Species Silicoflagellates Guinder_etal_2020 https://doi.org/10.1371/journal.pone.0233156 https://www.gbif.org/species/2329803 Dinoflagellates Species Ascidiacea GBIF https://doi.org/10.1371/journal.pone.0233156 https://doi.org/10.1371/journal.pone.0233156 Aggregated: Dinophysis_acuminata, Gyrodinium_sp.						
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Dinoflagellates_heterosol Species Dinoflagellates Guinder_etal_2020 https://doi.org/10.1371/journal.pone.0233156 Aggregated: Dinophysis_acuminata, Gyrodinium_sp, Gyrodiniu	Dictyocha_speculum	Species	Silicoflagellates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
Diomedea sp Species SeaBirds RayaRey_pers.com. NA						
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Disactichus_cleginoides		Species				
Disactichus_cleginoides	Diplopteraster_clarki	Species	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Depanopus_forcipatus Species Copepoda Spinelli_etal_2020 https://doi.org/10.1016/j.jmarsys.2020.103398 Eatnoicella_spp Species Gastropoda DiLuca&Zelaya_2019 https://doi.org/10.1016/j.org/10.1007/s00300-020-02725-z Eggs_Fish Species Sopoda Dot_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Ekleptostylis_heardi Species Cumacea Dot_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Ekleptostylis_vemae Species Cumacea Dot_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Emiliania_huxleyi Species Cucacea Dot_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Enteroctopodidae Family Species Cocolitophorids Guinde_etal_2020 https://doi.org/10.1371/journal.pone.0233156 Enteroctopodidae Family Species Gastropoda Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Etbalaena_australis Species MarineMammals_1 RayaRe_pers.com NA NA Etbalaena_australis Species MarineMammals_1 RayaRe_pers.com NA Na Etbalaena_australis Species MarineMammals_1 RayaRe_pers.com Na Na Etabalaena_australis Species MarineMammals_1 RayaRe_pers.com Na Na Etabalaena_australis Species MarineMammals_1 RayaRe_pers.com Na Na Etabalaena_australis Species MarineMammals_1 RayaRe_pers.com N		Species	Fish_BenPel		NA	
Echinozone sp Species Isopoda DiLuca&Zelaya_2019 https://doi.org/10.11646/sootaxa.4544.1.2	Doryteuthis_gahi	Species	Cephalopoda			
Echinozone_sp	Drepanopus_forcipatus	Species	Copepoda		https://doi.org/10.1016/j.jmarsys.2020.103398	
Echinozone_sp Species Isopoda Doti_etal_2020 https://doi.org/10.1007/s00300-020-02725-z	Eatoniella_spp		Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Eggs_Fish Species Zooplankton GarciaAlonso_etal_2018; https://doi.org/10.1007/s00300-018-2352-z Taken from Sprattus_fueguensis; Schroedericthys_biving Vazque_etal_2017 Ekleptostylis_beardi Species Cumacea Doti_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Ekleptostylis_wenne Species Cumacea Doti_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Exleptostylis_mulseyi Species Coccolitophorids Guide_etal_2020 https://doi.org/10.1371/journal.pone.0233156 Enteroctopodidae Family Cephalopoda Bergagna_pers.com NA Aggregated: Enteroctopus_megalocyathus & Muusoctopus_longibrachus Epitonium_sp Species Gastropoda Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eteon_spp Species Polychaeta Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Etubalaena_australis Species MarineMammals_1 RayaRe_pers.com. NA	Echinozone_sp	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Ekleptostylis_heardi Species Cumacea Doti_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Ekleptostylis_vemae Species Cumacea Doti_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Emiliania_huxleyi Species Coccolithophorids Guinder_etal_2020 https://doi.org/10.1371/journal.pone.0233156 Enteroctopodidae Family Cephalopoda Bergagna_pers.com NA Aggregated: Enteroctopus_megalocyathus & Muusoctopus_longibrachus Epitonium_sp Species Gastropoda Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eteon_spp Species Polychaeta Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Etbalanea_australis Species MarineMammals_1 RayaRey_pers.com. NA		Species	Zooplankton		$\rm https://doi.org/10.1007/s00300\text{-}018\text{-}2352\text{-}z$	${\tt Taken\ from\ Sprattus_fueguensis;\ Schroedericthys_bivius}$
Ekleptostylis_vemae Species Cumacea Doti_etal_2020 https://doi.org/10.1007/s00300-020-02725-z Emiliania_huxleyi Species Coccolithophorids Guinder_etal_2020 https://doi.org/10.1371/journal.pone.0233156 Entercotopodidae Family Cephalopoda Bergana_pers.com NA Aggregated: Enteroctopus_megalocyathus & Muusoctopus_longibrachus Epitonium_sp Species Gastropoda Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eteone_spp Species Polychaeta Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eubalaena_australis Species MarineMammals_1 RayaRey_pers.com. NA	Ekleptostylis heardi	Species	Cumacea		https://doi.org/10.1007/s00300-020-02725-z	
Emiliania_huxleyi Species Coccolithophorids Guinder_etal_2020 https://doi.org/10.1371/journal.pone.0233156 Enteroctopodidae Family Cephalopoda Bergagna_pers.com NA Aggregated: Enteroctopus_megalocyathus & Aggregated: Enteroctopus_megalocyathus & Muusoctopus_longibrachus Epitonium_sp Species Gastropoda Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eteon_spp Species Polychaeta Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Etubalaena_australis Species MarineMammals_1 RayaRep_pers.com. NA						
Enteroctopodidae Family Cephalopoda Bergagna_pers.com NA Aggregated: Enteroctopus_megalocyathus & Aggregated: Enteroctopus_megalocyathus & Musoctopus_longibrachus Epitonium_sp Species Gastropoda Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eteone_spp Species Polychaeta Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Etubalaena_australis Species MarineMammals_1 RayaRey_pers.com. NA						
Epitonium_sp Species Gastropoda Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eteone_spp Species Polychaeta Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eubalaena_australis Species MarineMammals_1 RayRey_pers.com. NA						Aggregated: Enteroctopus megalocyathus &
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Eteone_spp Species Polychaeta Schejter_etal_2016 https://doi.org/10.1007/s00300-016-1913-2 Eubalaena_australis Species MarineMammals_1 RayaRey_pers.com. NA	Epitonium_sp	Species	Gastropoda			
Eubalaena_australis Species MarineMammals_1 RayaRey_pers.com. NA	Eteone_spp			Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Eucranta_sp Species Polychaeta Bremec_etal_2019 http://dx.doi.org/10.15517/rbt.v67is5.38937						
	Eucranta_sp	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	

 $\label{thm:constraints} \begin{tabular}{ll} Table 2: List of species for the food web of the Marine Protected Areas Namuncurá - Banco Burdwood I and II ecosystem. \\ Alphabetically ordered by species. \\ \end{tabular}$

Species	Taxonomy	Group	Reference	Link	Observation
Eudorella_sp	Species	Cumacea	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	SeaBirds	RayaRey_pers.com.	NA	
	Species	Zooplankton	Mazzoni_1990	https://bibliotecadigital.exactas.uba.ar/download/tesis/tesis_r	2310_Mazzoni.pdf
Eunereis_patagonica	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
	Species	Zooplankton	Spinelli etal 2020	https://doi.org/10.1016/j.jmarsys.2020.103398	Aggregated: Elucens & Evallentini
Eurhomalea sp	Species	Bivalvia	Schejter etal 2016	https://doi.org/10.1007/s00300-016-1913-2	Taken from Eurhomalea exalbida
Eurypodius latreillii	Species	Decapoda	Lovrich etal 2005;	https://doi.org/10.3989/scimar.2005.69s2183	
- J.	•	• • • • • • • • • • • • • • • • • • • •	Schejter_etal_2017a	1.7,7	
$Eurypodius_longirostris$	Species	Decapoda	Lovrich_etal_2005; Schejter_etal_2016	$\rm https://doi.org/10.3989/scimar.2005.69s2183$	
Eurypodius_sp	Species	Decapoda	Lovrich_etal_2005	https://doi.org/10.3989/scimar.2005.69s2183	
	Species	Gastropoda	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
	Species	Coral	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
	Phylum	Foraminifera			
			Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
	Species Species	Gastropoda SeaBirds	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2 NA	
			RayaRey_pers.com.		
	Species	Gastropoda	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
	Species	Fish_Demersal	Delpiani_etal_2020; Díaz de Astarloa_pers.com.	https://doi.org/10.1016/j.fishres.2019.105373	
	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
	Species	MarineMammals_3	RayaRey_pers.com.	NA	
	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
	Species	Echinodermata	Schejter_etal_2016; 2020a	https://doi.org/10.1007/s00300-016-1913-2	
Grimothea_gregaria	Species	Decapoda	Diez_etal_2016;	https://doi.org/10.1016/j.seares.2016.04.004	
			Schejter_etal_2016		
	Species	Decapoda	Lovrich_etal_2005	https://doi.org/10.3989/scimar.2005.69s2183	
Guttigadus_kongi	Species	Fish_Demersal	Delpiani_etal_2020; Díaz de Astarloa_pers.com.	https://doi.org/10.1016/j.fishres.2019.105373	
Gymnodinium_sp	Species	Dinoflagellates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	As Dinoflagellates_heterocol
	Species	Dinoflagellates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	Collapsed as Dinoflagellates_heterosol
	Species	Decapoda	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
	Order	Porifera	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Haplocheira_barbimana_rob		Amphipoda	Lopez-Gappa_etal_2006;	https://doi.org/10.11646/ZOOTAXA.1342.1.1	
	Order		Chiesa_pers.com.		
		Porifera	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
	Species	Polychaeta	Bremec_etal_2019; Spinelli_etal_2020	http://dx.doi.org/10.15517/rbt.v67is5.38937	
	Species	Cumacea	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
Henricia_studeri	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
Hermadion_magalhaensi	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Hexactinellida	Class	Porifera	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Hiatella_sp	Species	Bivalvia	Güller_etal_2020	https://doi.org/10.1371/journal.pone.0233156	Taken from Hiatella_arctica
	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
Holostylis_uniramosa	Species	Cumacea	Roccatagliata&Alberico_2015; Doti etal 2020	https://doi.org/10.1007/s12526-015-0349-1	
Hormathia pectinata	Species	Cnidaria benthic	Schejter etal 2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
	Species	MarineMammals 3	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
	Species	Isopoda	Doti etal 2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Isopoda	Doti_etal_2020 Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z https://doi.org/10.1007/s00300-020-02725-z	
	Species Species	Isopoda Isopoda	Doti_etal_2020 Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z https://doi.org/10.1007/s00300-020-02725-z	
	Species	Polychaeta	Schejter_etal_2016;	https://doi.org/10.1007/s00300-020-02723-2	
Ideogorgia_laurae	Species	Coral	Bremec_etal_2019 Pérez&Cordeiro_2020;	https://doi.org/10.1007/s00300-019-02604-2	
Iluocoetes_fimbriatus	Species	Fish_Demersal	Schejter_etal_2020b Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
			Astarloa_pers.com.		
	Species	Cnidaria_benthic	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Jassa_alonsoae	Species	Amphipoda	Lopez-Gappa_etal_2006; Chiesa pers.com.	https://doi.org/10.11646/ZOOTAXA.1342.1.1	
Joeropsis curvicornis	Species	Isopoda	Doti etal 2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Isopoda	Doti_etal_2020 Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
	Species	Isopoda	Doti_etal_2020 Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z https://doi.org/10.1007/s00300-020-02725-z	
	Species Species	Ciliates	Guinder etal 2020	https://doi.org/10.1007/s00300-020-02725-z https://doi.org/10.1371/journal.pone.0233156	
	pheries			http://dx.doi.org/10.15517/rbt.v67is5.38937	
Laboea_strobila	C:	D-leader at a			
Laboea_strobila Laetmonice_producta	Species	Polychaeta	Bremec_etal_2019		
Laboea_strobila Laetmonice_producta Lagenorhynchus_australis	Species	MarineMammals_2	RayaRey_pers.com.	NA	
Laboea_strobila Laetmonice_producta Lagenorhynchus_australis					

Table 2: List of species for the food web of the Marine Protected Areas Namuncurá - Banco Burdwood I and II ecosystem. Alphabetically ordered by species. (continued)

Species	Taxonomy	Group	Reference	Link	Observation
Larvae Fish	Species	Zooplankton	GarciaAlonso_etal_2018; 2020	https://doi.org/10.1007/s00300-018-2352-z	
Larvae Nauplii	Species	Zooplankton	Spinelli etal 2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Latrunculia sp	Species	Porifera	Schejter etal 2016	https://doi.org/10.1007/s00300-016-1913-2	
Lepidonotothen squamifron		Fish BenPel	Díaz de Astarloa pers.com.	NA	
Leptochiton_kerguelensis	Species	Polyplacophora	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
Leptochiton_medinae	Species	Polyplacophora	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
Leptychaster_sp	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
Leucon_septemdentatus	Species	Cumacea	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Leucothoe_spinicarpa	Species	Amphipoda	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Libidoclaea_granaria	Species	Decapoda	Fischer_etal_2022	https://doi.org/10.1007/s00300-022-03082-9	
Limopsis_sp	Species	Bivalvia	Schejter etal 2016	https://doi.org/10.1007/s00300-022-03002-9	Taken from Limopsis hirtella
Liotella_crassicostata	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	Taken from Emiopsis_initena
Lithodes_confundens	Species	Decapoda	Lovrich_etal_2005;	https://doi.org/10.3989/scimar.2005.69s2183	
Lithodes_confundens	Species	Decapoda	Pérez-Barros etal 2015;	https://doi.org/10.3969/scimar.2003.0982163	
			Schejter_etal_2016		
F 11 1 1	a :	Б		https://doi.org/10.1007/s00300-019-02609-x	
Lithodes_couesi	Species	Decapoda	Pérez-Barros_etal_2020		
Lithodes_turkayi	Species	Decapoda	Stevens&Lovrich_2014	https://doi.org/10.1201/b16664	
Lumbrineridae	Species	Ciliates Polychaeta	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
	Family	,	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Lysasterias_sp	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
Macrochiridothea_stebbingi		Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Macronectes_giganteus	Species	SeaBirds	RayaRey_pers.com.	NA NA	
Macronectes_halli	Species	SeaBirds	RayaRey_pers.com.	NA	
Macrourus_carinatus	Species	Fish_BenPel	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
			Astarloa_pers.com.		
Macrourus_holotrachys	Species	Fish_BenPel	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
			Astarloa_pers.com.		
Macrourus_whitsoni	Species	Fish_BenPel	Zunino&Ichazo_1979	https://aquadocs.org/handle/1834/3126	
Macruronus_novaezelandiae	Species	Fish_BenPel	CampaignReport_Angelescu2018	https://www.pampazul.gob.ar/documentos/Informe-	Synonym of Macruronus_magellanicus
				campania-VA1418-final.pdf	
Magelona_alleni	Species	Polychaeta	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Maldanidae	Family	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Mancopsetta_maculata	Species	Fish_Demersal	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
			Astarloa_pers.com.		
Margarella_spp	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
$Melanostigma_gelatinosum$	Species	Fish_Demersal	Díaz de Astarloa_pers.com.	NA	
Meridiosignum_menziesi	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Meridiosignum_undulatum	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Mesoplodon_bowdoini	Species	MarineMammals_3	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Mesoplodon_grayi	Species	MarineMammals_3	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Mesoplodon_layardii	Species	MarineMammals_3	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Metepimeria_acanthurus	Species	Amphipoda	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Micromesistius_australis	Species	Fish_Pel	Zunino&Ichazo_1979	https://aquadocs.org/handle/1834/3126	
Moruloidea_darwinii	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Munna_gallardoi	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Munna_longipoda	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Munna_pallida	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Munnogonium_diplonychia	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Munnogonium_falklandicum	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Muraenolepis_spp	Species	Fish_BenPel	Díaz de Astarloa_pers.com.	NA	
Myxine_spp	Species	Fish_Demersal	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
	-	_	Astarloa_pers.com.		
Natatolana pastorei	Species	Isopoda	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Neasellus argentinensis	Species	Isopoda	Doti etal 2020	https://doi.org/10.1007/s00300-020-02725-z	
Neasellus_bicarinatus	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Necromass	NA	Non-living	Riccialdelli_etal_2017	https://doi.org/10.3354/meps13524	
Neocalanus tonsus	Species	Copepoda	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Neojaera_antarctica	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Neoserolis_exigua	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Nephtys_sp	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Nicolea chilensis	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Nicon maculata	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Nothria anoculata	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Notioceramus_anomalus	Species	Echinodermata	Fraysse_etal_2018	https://dx.doi.org/10.1007/s00300-018-2377-3	
Notioceramus_anomaius Notophycis_marginata	Species Species	Fish_BenPel	Delpiani_etal_2020; Díaz de	https://doi.org/10.1007/s00300-018-2377-3 https://doi.org/10.1016/j.fishres.2019.105373	
Notophycis_marginata	Opecies .	r ion_penrei	Astarloa_pers.com.	neeps.//doi.org/10.1010/J.HsHres.2019.100373	
Nuttallochiton_hyadesi	Species	Polyplacophora	Astarioa_pers.com. Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
	•				
Nuttallochiton_martiali	Species	Polyplacophora	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
Obelia_spp	Species	Zooplankton	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Oceanites_sp	Species	SeaBirds	RayaRey_pers.com.	NA	Taken from Oceanites_oceanicus
Odontaster_penicillatus	Species	Echinodermata	Schejter_etal_2016;	https://doi.org/10.1007/s00300-016-1913-2	
04	Species	Echinodermata	Fraysse_etal_2018	https://d-i/10.1007/-00200.030.0077.0	
Odontaster_sp	opecies	Ecuinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	

 $\label{thm:constraints} \begin{tabular}{ll} Table 2: List of species for the food web of the Marine Protected Areas Namuncurá - Banco Burdwood I and II ecosystem. \\ Alphabetically ordered by species. \\ \end{tabular}$

Species	Taxonomy	Group	Reference	Link	Observation
Odontasteridae	Family	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Odontocymbiola_magellanic	aSpecies	Gastropoda	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
Odostomia_sp	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Oenonidae	Family	Polychaeta	Schejter_etal_2016;	https://doi.org/10.1007/s00300-016-1913-2	
			Bremec_etal_2019		
Oithona_spp	Species	Copepoda	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	Aggregated: Oithona_atlantica & Osimilis
Onoba_spp	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Onuphis_pseudoiridescens	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Ophiacantha sp	Species	Echinodermata	Schejter etal 2016; 2020a	https://doi.org/10.1007/s00300-016-1913-2	
Ophiacantha_vivipara	Species	Echinodermata	Schejter_etal_2017a; 2020a	https://ri.conicet.gov.ar/handle/11336/55435	
Ophiactis_sp	Species	Echinodermata	Schejter_etal_2016; 2020a;	NA	Aggregated: Ophiactis_asperula & Ophiactis_spp
	•		Brogger_pers.com.		
Ophiocten_amitinum	Species	Echinodermata	Brogger_pers.com.	NA	
Ophiolimna_antarctica	Species	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Ophioplinthus_confragosa	Species	Echinodermata	Brogger_pers.com.	NA	
Ophioplinthus_inornata	Species	Echinodermata	Brogger_pers.com.	NA	
Ophiura_lymani	Species	Echinodermata	Schejter_etal_2016; 2020a	https://doi.org/10.1007/s00300-016-1913-2	
Orbiniidae	Family	Polychaeta	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Ornatoscalpellum_gibberum		Benthos_Misc	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Ornatoscaipeiium_gibberum Otaria flavescens	Species	MarineMammals 2	RayaRey_pers.com.	NA	
		MarineMammals_2 SeaBirds		NA NA	Taken from Pachyntila, helcheri
Pachyptila_sp	Species		RayaRey_pers.com.		Taken from Pachyptila_belcheri
Pagurus_comptus	Species	Decapoda	Lovrich_etal_2005;	https://doi.org/10.3989/scimar.2005.69s2183	
			Schejter_etal_2016		
Pagurus_forceps	Species	Decapoda	Lovrich_etal_2005	https://doi.org/10.3989/scimar.2005.69s2183	Inferred from P. comptus
Parabuccinum_politum	Species	Gastropoda	Pastorino_2019	https://doi.org/10.1007/s12526-018-0876-7	
Paractis_laevis	Species	Cnidaria_benthic	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Paralomis_granulosa	Species	Decapoda	Schejter_etal_2016;	https://doi.org/10.1007/s00300-016-1913-2	
			Pérez-Barros_etal_2020		
Paralomis_spinosissima	Species	Decapoda	Pérez-Barros_etal_2020	https://doi.org/10.1007/s00300-019-02609-x	
Paramunna_integra	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Paraonidae	Family	Polychaeta	Schejter_etal_2016;	https://doi.org/10.1007/s00300-016-1913-2	
			Bremec_etal_2019		
Parborlasia_corrugatus	Species	Benthos_Misc	Fischer_etal_2022	https://doi.org/10.1007/s00300-022-03082-9	
Pareuthria_spp	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Patagonotothen_cornucola	Species	Fish_BenPel	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
		_	Astarloa_pers.com.		
Patagonotothen_elegans	Species	Fish_BenPel	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
	• • • • • • • • • • • • • • • • • • • •	- ' -	Astarloa_pers.com.	- ,,	
Patagonotothen_guntheri	Species	Fish_BenPel	Schejter_etal_2016; Díaz de	https://doi.org/10.1007/s00300-016-1913-2	
3 <u>Buneagii</u>			Astarloa pers.com.	//	
Patagonotothen_kreffti	Species	Fish_BenPel	Delpiani_etal_2020	https://doi.org/10.1016/j.fishres.2019.105373	
Patagonotothen_ramsayi	Species	Fish_BenPel	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
avagonotothen_ramsayr	opecies	r isii_Delii ei	Astarloa_pers.com.	Maps.// Got.org/ 10.1010/j.Hames.2018.105313	
Polagobia lon-i-i	Species	Polyaba -+-		https://doi.org/10.1016/: : 2020.102205	
Pelagobia_longicirrata	Species	Polychaeta SeaBirds	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398 NA	
Pelecanoides_sp	Species		RayaRey_pers.com.		
Pellilitorina_pellita	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Pentactella_leonina	Species	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Pentactella_perrieri	Species	Echinodermata	Martinez_etal_2020	https://doi.org/10.1007/s00300-020-02715-1	
Perknaster_fuscus	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
Perknaster_sp	Species	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Phaeocystis_antarctica	Species	Coccolithophorids	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
Phalacrocorax_atriceps	Species	SeaBirds	RayaRey_pers.com.	NA	
Phelliactis_sp	Species	Cnidaria_benthic	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Phoxocephalus_sp	Species	Amphipoda	Fischer_etal_2022	https://doi.org/10.1007/s00300-022-03082-9	
Pista_spp	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Platytyphlops_sarahae	Species	Cumacea	Roccatagliata_2020	https://doi.org/10.1016/j.jcz.2020.03.009	
Pleurosignum_chilense	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Pleurosignum_magnum	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Poecilosclerida	Order	Porifera	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Pogonolycus_elegans	Species	Fish_BenPel	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
			Astarloa_pers.com.	/ /	
Polycheria_spp	Species	Amphipoda	Lopez-Gappa_etal_2006;	https://doi.org/10.11646/ZOOTAXA.1342.1.1	Aggregated: Polycheria_antarctica & Psimilis
o., ccria_spp	opecies .	Ampinpoua	Chiesa_pers.com.	10.150.// GOLOIG/ 10.11040/ 200 1AAA.1342.1.1	
D-1i+1	Species	Ascidiacea		https://doi.org/10.3989/scimar.2005.69s2205	
Polycitor_glareosus			Tatian_etal_2005		
Polyclinidae	Family	Ascidiacea	Tatian_etal_2005	https://doi.org/10.3989/scimar.2005.69s2205	
Polydora_sp	Species	Polychaeta	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Polyeunoa_laevis	Species	Polychaeta	Schejter_etal_2016;	https://doi.org/10.1007/s00300-016-1913-2	
			Bremec_etal_2019		
Potamilla_sp	Species	Polychaeta	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Primnoella_scotiae	Species	Coral	Schejter_etal_2020a; 2020b	https://doi.org/10.1002/aqc.3265	
Primnoisis antarctica	Species	Coral	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
t IIIIIII0isis_antaictica					
Procellaria_aequinoctialis	Species	SeaBirds	RayaRey_pers.com.	NA	

 $\label{thm:constraints} \begin{tabular}{ll} Table 2: List of species for the food web of the Marine Protected Areas Namuncurá - Banco Burdwood I and II ecosystem. \\ Alphabetically ordered by species. \\ \end{tabular}$

Species	Taxonomy	Group	Reference	Link	Observation
Protoperidinium_sp	Species	Dinoflagellates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	Collapsed as Dinoflagellates_heterosol
Psammobatis_rudis	Species	Fish Chond	Díaz de Astarloa_pers.com.	NA	
seudechinus magellanicus		Echinodermata	Schejter etal 2016	https://doi.org/10.1007/s00300-016-1913-2	
seudidothea miersi	Species	Isopoda	Doti etal 2020	https://doi.org/10.1007/s00300-020-02725-z	
Pseudosagitta_gazellae	Species	Zooplankton	Spinelli_etal_2020	https://doi.org/10.1007/s00300-020-02723-2 https://doi.org/10.1016/j.jmarsys.2020.103398	
	Species	Echinodermata	Schejter_etal_2016;	https://doi.org/10.1016/j.jmarsys.2020.103398 https://doi.org/10.1007/s00300-016-1913-2	
Psolus_antarcticus	Species	Echinodermata		https://doi.org/10.1007/800300-010-1913-2	
	_		Martinez_pers.com.		
Psolus_patagonicus	Species	Echinodermata	Schejter_etal_2016;	https://doi.org/10.1007/s00300-016-1913-2	
			Martinez_pers.com.		
Psolus_segregatus	Species	Echinodermata	Schejter_etal_2016;	https://doi.org/10.1007/s00300-016-1913-2	
			Martinez_pers.com.		
Psychrolutes_marmoratus	Species	Fish_Demersal	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
			Astarloa_pers.com.		
Pteraster affinis	Species	Echinodermata	Fraysse etal 2018	https://doi.org/10.1007/s00300-018-2377-3	
Pteraster_sp	Species	Echinodermata	Fraysse_etal_2018	https://doi.org/10.1007/s00300-018-2377-3	
ouncturella_conica	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Pyura_spp	Species	Ascidiacea	Taverna_etal_2018	https://doi.org/10.1007/s00300-018-2272-y	
Quetzogonium_dentatum	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Rectarcturus_kophameli	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Rectarcturus_tuberculatus	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Rhincalanus_gigas	Species	Copepoda	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Rhizosolenia_crassa	Species	Diatoms	Bertola&Iachetti_TallerCientifico_2021	NA	Video Bertola&Iachetti
Rhodalia_miranda	Species	Cnidaria_benthic	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
Sabellidae	Family	Polychaeta	Schejter_etal_2016;	NA	NA
			Bremec_etal_2019;		
			Spinelli_etal_2020		
S-1:1-44- 1:	0	Fish Demersal		https://d-i/10.1016/i.G-l	
Salilota_australis	Species	r'ish_Demersal	Delpiani_etal_2020; Díaz de	https://doi.org/10.1016/j.fishres.2019.105373	
			Astarloa_pers.com.		
Salpa_thompsoni	Species	Zooplankton	Capitanio_pers.com.	NA	
Santia_compacta	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Schizasteridae	Family	Echinodermata	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Scissurella_clathrata	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Seba_subantarctica	Species	Amphipoda	Lopez-Gappa_etal_2006;	https://doi.org/10.11646/ZOOTAXA.1342.1.1	
			Chiesa_pers.com.		
S1	Species	Polychaeta		https://d-i/10.1007/-00300.016.1013.3	
Serpula_spp	•		Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Serratosagitta_tasmanica	Species	Zooplankton	Sotelo_etal_2018	https://doi.org/10.1080/17451000.2018.1550257	
Spheniscus_magellanicus	Species	SeaBirds	RayaRey_pers.com.	NA	
Spiophanes_sp	Species	Polychaeta	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Sporonana_sp	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Sprattus_fuegensis	Species	Fish_Pel	GarciaAlonso_etal_2018	https://doi.org/10.1007/s00300-018-2352-z	
Squalus_acanthias	Species	Fish_Chond	Cousseau&Perrotta_2000	https://www.inidep.edu.ar/wordpress/?page_id=839	
Stenothoidae	Family	Amphipoda	Lopez-Gappa_etal_2006;	https://doi.org/10.11646/ZOOTAXA.1342.1.1	Aggregated: Thaumatelson_herdmani,
			Chiesa_pers.com.	1 - 7,7	Metopoides_longicornis, Probolisca_ovata &
			omesa_pers.com.		Torometopa_crassicornis
	a .	Echinodermata	0.1.11	1 //1: /20.1007/.00000.010.1010.0	Torometopa_crassicornis
Sterechinus_agassizii	Species		Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Strobilidium_sp	Species	Ciliates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
Strombidinopsis_sp	Species	Ciliates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
strombidium_spp	Species	Ciliates	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
Sycozoa_sigillinoides	Species	Ascidiacea	GBIF	https://www.gbif.org/species/2331330	
Syllidae	Family	Polychaeta	Schejter_etal_2016;	NA	NA
	•		Bremec_etal_2019		
Sympagurus_dimorphus	Species	Decapoda	Lovrich_pers.com.	NA	
Synechococcus sp	Species	Phytoplankton_Misc	Guinder_etal_2020	https://doi.org/10.1371/journal.pone.0233156	
Tasmacetus_shepherdi	Species	MarineMammals 3	Riccialdelli etal 2017	https://doi.org/10.1371/journal.pone.0233136	
l'ectonatica_impervia	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Tedania_sp	Species	Porifera	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Terebellides_malvinensis	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
l'etractinellida	Order	Porifera	Schejter_etal_2016	https://doi.org/10.1007/s00300-016-1913-2	
Thalassarche_chrysostoma	Species	SeaBirds	RayaRey_pers.com.	NA	
Thalassarche_melanophris	Species	SeaBirds	RayaRey_pers.com.	NA	
- Γhelepus_sp	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Themisto_gaudichaudii	Species	Zooplankton	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
Thouarella_spp	Species	Coral	Schejter_etal_2020b	https://doi.org/10.11646/zootaxa.4878.2.1	
	Species Species				
Γhymops_birsteini		Decapoda	Lovrich_etal_2005	https://doi.org/10.3989/scimar.2005.69s2183	
Finerfe_cyanea	Species	Zooplankton	Spinelli_etal_2020	https://doi.org/10.1016/j.jmarsys.2020.103398	
l'onicia_lebruni	Species	Polyplacophora	Teso_etal_2019	https://doi.org/10.1186/s12898-019-0263-7	
Travisia_kerguelensis	Species	Polychaeta	Bremec_etal_2019	http://dx.doi.org/10.15517/rbt.v67is5.38937	
Trophon_ohlini	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Trophon_plicatus	Species	Gastropoda	DiLuca&Zelaya_2019;	https://doi.org/10.11646/zootaxa.4544.1.2	
		,	Teso_etal_2019	, ,	
Tryphosella sp	Ci	A b i d	Fischer etal 2022	https://doi.org/10.1007/s00300-022-03082-9	
	Species	Amphipoda			
Tryphosites_chevreuxi	Species	Amphipoda	Lopez-Gappa_etal_2006;	https://doi.org/10.11646/ZOOTAXA.1342.1.1	
			Chiesa_pers.com.		

Table 2: List of species for the food web of the Marine Protected Areas Namuncurá - Banco Burdwood I and II ecosystem. Alphabetically ordered by species. (continued)

Species	Taxonomy	Group	Reference	Link	Observation
Tulpa_tulipifera	Species	Cnidaria_benthic	Schejter_etal_2020a; 2020b	https://doi.org/10.1002/aqc.3265	
Turbonilla_strebeli	Species	Gastropoda	DiLuca&Zelaya_2019	https://doi.org/10.11646/zootaxa.4544.1.2	
Uromunna_nana	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Uromunna_sp	Species	Isopoda	Doti_etal_2020	https://doi.org/10.1007/s00300-020-02725-z	
Ziphius_cavirostris	Species	MarineMammals_3	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Zygochlamys_patagonica	Species	Bivalvia	Schejter_etal_2020a	https://doi.org/10.1002/aqc.3265	

Results

Table 3 presents an exhaustive list of the species-level properties for the food web of the MPA Namuncurá - Banco Burdwood I ecosystem.

Table 3: Species-level properties for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Ordered by degree (total number of interactions). Between: betweenness; Close: closeness; TL: trophic level; TS: trophic similarity; TR: topological role (netcon = network connector, modcon = module connector, modhub = module hub, modspe = module specialist).

Species	Group	Degree	NumPrey	NumPred	Between	Close	$_{ m TL}$	TS	TR
Detritus	Non-living	153	0	153	0.0000	0.0014	1.000	0.0142	netcon
Diatoms_benthic	Diatoms	74	0	74	0.0000	0.0012	1.000	0.0266	modhub
Diatoms_centric	Diatoms	72	0	72	0.0000	0.0012	1.000	0.0267	modhub
Diatoms_pennate	Diatoms	72	0	72	0.0000	0.0012	1.000	0.0274	modhub
Patagonotothen_ramsayi	Fish_BenPel	68	49	19	3184.3593	0.0012	3.508	0.0364	modcon
Patagonotothen_guntheri	Fish_BenPel	63	50	13	1615.6440	0.0012	3.417	0.0353	modcon
Euphausia_spp	Zooplankton	56	10	46	496.0455	0.0012	2.480	0.0518	modhub
Dissostichus_eleginoides	Fish_BenPel	54	30	24	2920.9808	0.0011	3.924	0.0410	modhub
Themisto_gaudichaudii	Zooplankton	45	9	36	405.6057	0.0012	3.072	0.0529	$_{ m modspe}$
Foraminifera	Foraminifera	44	1	43	27.4304	0.0012	2.000	0.0295	modcon
Doryteuthis_gahi	Cephalopoda	42	5	37	2255.2864	0.0010	3.470	0.0339	modhub
Sprattus_fuegensis	Fish_Pel	42	17	25	413.0964	0.0011	3.454	0.0472	$_{ m modspe}$
Micromesistius_australis	Fish_Pel	39	15	24	964.6476	0.0010	3.635	0.0374	modhub
Dinoflagellates_heterosol	Dinoflagellates	38	0	38	0.0000	0.0011	1.000	0.0323	$_{ m modspe}$
Calanus_spp	Zooplankton	36	16	20	530.0624	0.0012	2.500	0.0580	modhub
Bacteria	Bacteria	35	0	35	0.0000	0.0010	1.000	0.0177	$_{ m modspe}$
Bathyraja_brachyurops	Fish_Chond	35	33	2	528.1454	0.0011	3.990	0.0451	$_{ m modspe}$
Grimothea_gregaria	Decapoda	33	2	31	30.9344	0.0012	2.500	0.0494	$_{ m modspe}$
Necromass	Non-living	31	0	31	0.0000	0.0010	1.000	0.0156	$_{ m modspe}$
Ctenocalanus_vanus	Copepoda	29	16	13	125.2374	0.0011	2.696	0.0531	modhub
Rhincalanus_gigas	Copepoda	29	15	14	145.7058	0.0011	2.687	0.0488	modhub
Bathyraja_griseocauda	Fish_Chond	29	28	1	0.0000	0.0011	3.989	0.0474	$_{ m modspe}$
Pseudosagitta_gazellae	Zooplankton	29	13	16	700.3891	0.0012	2.836	0.0558	modcon
Enteroctopodidae	Cephalopoda	28	14	14	427.2950	0.0010	3.564	0.0283	modspe
Oithona_spp	Copepoda	28	12	16	611.7005	0.0011	2.510	0.0528	modcon
Gymnodinium_sp	Dinoflagellates	27	5	22	182.6436	0.0010	2.000	0.0412	$_{ m modspe}$
Clausocalanus_spp	Zooplankton	27	13	14	157.7813	0.0011	2.615	0.0499	$_{ m modspe}$
Amblyraja_doellojuradoi	Fish_Chond	26	25	1	16.2156	0.0010	3.473	0.0195	$_{ m modspe}$
Psychrolutes_marmoratus	Fish_Demersal	26	26	0	0.0000	0.0011	3.630	0.0202	modcon
Brachiopoda_spp	Brachiopoda	24	2	22	32.9476	0.0012	2.000	0.0461	modcon
Otaria_flavescens	MarineMammals_2	24	24	0	0.0000	0.0010	4.227	0.0438	$_{ m modspe}$
Amblyraja_georgiana	Fish_Chond	23	23	0	0.0000	0.0010	3.676	0.0295	modcon
Arctocephalus_australis	MarineMammals_2	23	23	0	0.0000	0.0010	4.216	0.0427	$_{ m modspe}$
Tinerfe_cyanea	Zooplankton	23	7	16	172.1660	0.0011	3.256	0.0468	$_{ m modspe}$
Emiliania_huxleyi	Coccolithophorids	22	0	22	0.0000	0.0010	1.000	0.0225	$_{ m modspe}$
Parborlasia_corrugatus	Benthos_Misc	22	21	1	1274.0859	0.0011	3.238	0.0305	$_{ m modspe}$
Thalassarche_melanophris	SeaBirds	22	22	0	0.0000	0.0010	3.839	0.0433	$_{ m modspe}$
Azadinium_sp	Dinoflagellates	21	0	21	0.0000	0.0010	1.000	0.0292	$_{ m modspe}$
Macruronus_novaezelandiae	Fish_BenPel	21	10	11	128.4696	0.0010	3.740	0.0470	$_{ m modspe}$
Acanthoserolis_schythei	Isopoda	20	5	15	218.5789	0.0012	3.335	0.0556	$_{ m modspe}$
Phaeocystis_antarctica	Coccolithophorids	20	0	20	0.0000	0.0009	1.000	0.0230	$_{ m modspe}$
Drepanopus_forcipatus	Copepoda	20	7	13	40.7814	0.0010	2.000	0.0491	$_{ m modspe}$
Neocalanus_tonsus	Copepoda	20	7	13	23.5990	0.0010	2.327	0.0560	modspe
Cottoperca_trigloides	Fish_BenPel	20	16	4	665.7000	0.0010	3.995	0.0475	$_{ m modspe}$
Zygochlamys_patagonica	Bivalvia	18	8	10	114.9820	0.0012	2.286	0.0737	modcon
Salilota_australis	Fish_Demersal	18	13	5	2504.3332	0.0010	4.299	0.0535	modspe
Dictyocha_speculum	Silicoflagellates	18	0	18	0.0000	0.0009	1.000	0.0264	modspe
Macrourus_carinatus	Fish_BenPel	17	13	4	50.5571	0.0010	4.135	0.0340	modspe
Genypterus_blacodes	Fish_Demersal	17	12	5	101.7980	0.0010	3.881	0.0472	modspe
Poecilosclerida	Porifera	17	12	5	37.6693	0.0011	2.083	0.0775	modspe
Eteone_spp	Polychaeta	16	11	5	218.7130	0.0012	3.166	0.0597	modspe
Lepidonotothen_squamifrons	Fish_BenPel	16	9	7	109.2089	0.0010	3.170	0.0309	modspe
Macrourus_holotrachys	Fish_BenPel	16	10	6	65.8999	0.0010	3.798	0.0364	modspe
Coelorinchus_fasciatus	Fish_Demersal	16	8	8	154.6655	0.0010	3.484	0.0375	modspe
Haplosclerida	Porifera	16	11	5	55.6446	0.0011	2.091	0.0763	modcon
Larvae_Fish	Zooplankton	16	7	9	246.9648	0.0010	2.907	0.0268	modspe
Thalassarche_chrysostoma	SeaBirds	16	16	0	0.0000	0.0010	4.049	0.0412	modspe
Pelagobia_longicirrata	Polychaeta	15	6	9	82.1075	0.0010	2.306	0.0398	modspe
Nephtys_sp	Polychaeta	15	7	8	65.8990	0.0012	2.624	0.0851	modspe
Polydora_sp	Polychaeta	15	10	5	217.2622	0.0010	2.726	0.0495	modspe
Pagurus_comptus	Decapoda	15	3	12	22.4064	0.0012	2.333	0.0571	modspe
Bryozoa	Bryozoa	15	3	12	34.6586	0.0011	2.000	0.0442	modcon
Trophon_ohlini	Gastropoda	14	11	3	200.4124	0.0010	2.571	0.0214	modspe
Trophon_plicatus	Gastropoda	14	11	3	200.4124	0.0010	2.571	0.0214	modspe
Harmothoe_sp	Polychaeta	14	7	7	130.2305	0.0012	2.684	0.0810	modcon
Strombidium_spp	Ciliates	14	1	13	21.1578	0.0009	2.000	0.0339	modspe
Lithodes_confundens	Decapoda	14	8	6	225.6983	0.0011	3.194	0.0430	modcon
Convexella_magelhaenica	Coral	14	10	4	21.8790	0.0010	2.700	0.0552	modspe
Primnoisis_antarctica	Coral	14	11	3	19.0000	0.0010	2.636	0.0709	modspe
Thouarella_spp	Coral	14	10	4	54.2286	0.0011	2.700	0.0565	modspe
Pachyptila_sp	SeaBirds	14	14	0	0.0000	0.0010	3.606	0.0406	modspe
Boccardia_sp	Polychaeta	13	7	6	17.8386	0.0011	2.314	0.0803	modspe
Aplidium_spp	Ascidiacea	13	10	3	9.0179	0.0011	2.100	0.0879	modspe
Larvae_Nauplii	Zooplankton	13	7	6	82.6564	0.0010	2.286	0.0552	modcon
Balaenoptera_acutorostrata	MarineMammals_1	13	13	0	0.0000	0.0010	3.575	0.0484	modspe
Lithodes_couesi	Decapoda	13	8	5	131.9561	0.0010	3.194	0.0368	modcon
Primnoella_scotiae	Coral	13	9	4	20.7361	0.0010	2.778	0.0521	modspe
Oceanites_sp	SeaBirds	13	13	0	0.0000	0.0009	3.553	0.0418	modspe
Orbiniidae	Polychaeta	12	5	7	13.9916	0.0010	2.200	0.0563	modspe
Eunereis_patagonica	Polychaeta	12	7	5	141.4596	0.0012	3.057	0.0739	$_{ m modspe}$
Nicon_maculata	Polychaeta	12	7	5	141.4596	0.0012	3.057	0.0739	modspe
	Polychaeta Ciliates Ciliates	12 12 12	7 1 1	5 11 11	141.4596 6.2519 6.2519	0.0012 0.0009 0.0009	3.057 2.000 2.000	0.0739 0.0332 0.0332	modspe modspe modspe

Table 3: Species-level properties for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Ordered by degree (total number of interactions). Between: betweenness; Close: closeness; TL: trophic level; TS: trophic similarity; TR: topological role (netcon = network connector, modcon = module connector, modhub = module hub, modspe = module specialist). (continued)

Species	Group	Degree	NumPrey	NumPred	Between	Close	TL	TS	TR
Lohmanniella_sp	Ciliates	12	1	11	6.2519	0.0009	2.000	0.0332	modspe
Strobilidium_sp	Ciliates	12	1	11	59.0000	0.0009	3.000	0.0301	modspe
Strombidinopsis_sp	Ciliates	12	1	11	6.2519	0.0009	2.000	0.0332	modspe
Ascidia_meridionalis	Ascidiacea	12	10	2	3.1845	0.0011	2.100	0.0931	modspe
Balaenoptera_borealis	MarineMammals_1	12	12	0	0.0000	0.0010	3.487	0.0459	modspe
Balaenoptera_physalus	MarineMammals_1	12	12	0	0.0000	0.0010	3.487	0.0459	$_{ m modspe}$
Lithodes_turkayi	Decapoda	12	7	5	129.7680	0.0010	3.222	0.0352	modcon
Cnemidocarpa_spp	Ascidiacea	12	10	2	3.1845	0.0011	2.100	0.0931	$_{ m modspe}$
Cosmasterias_lurida	Echinodermata	12	12	0	0.0000	0.0009	3.321	0.0115	$_{ m modspe}$
Didemnum_studeri	Ascidiacea	12	10	2	3.1845	0.0011	2.100	0.0931	$_{ m modspe}$
Lagenorhynchus_australis	MarineMammals_2	12	12	0	0.0000	0.0009	4.175	0.0377	$_{ m modspe}$
Salpa_thompsoni	Zooplankton	12	10	2	25.7462	0.0011	2.590	0.0748	modcon
Pyura_spp	Ascidiacea	12	10	2	3.1845	0.0011	2.100	0.0931	$_{ m modspe}$
Sycozoa_sigillinoides	Ascidiacea	12	10	2	3.1845	0.0011	2.100	0.0931	modspe
Odontaster_sp	Echinodermata	12	11	1	307.5000	0.0010	2.979	0.0457	modspe
Neoserolis_exigua	Isopoda	11	1	10	3.1497	0.0011	2.000	0.0563	modspe
Appendicularia_spp	Zooplankton	11	8	3	128.8415	0.0011	2.275	0.0600	modcon
Astrotoma_agassizii	Echinodermata	11	8	3	53.6206	0.0011	2.435	0.0839	modcon modspe
Bathyraja_albomaculata	Fish_Chond	11 11	10 3	1 8	57.1444 9.0447	0.0010 0.0011	3.875	0.0333 0.0605	
Pagurus_forceps	Decapoda	11	10	1	2.0000	0.0011	2.333 3.167	0.0605	modspe
Bathyraja_multispinis Daption_capense	Fish_Chond SeaBirds	11	11	0	0.0000	0.0009	3.554	0.0154	modspe modspe
Fuegotrophon_pallidus	Gastropoda	11	11	0	0.0000	0.0010	2.571	0.0332	modspe
Aglaophamus_virginis	Polychaeta	10	5	5	180.6845	0.0003	3.607	0.0329	modspe
Muraenolepis_spp	Fish_BenPel	10	3	7	61.5057	0.0009	3.857	0.0317	modspe
Grimothea_spinosa	Decapoda	10	0	10	0.0000	0.0008	1.000	0.0205	modspe
Balaenoptera_bonaerensis	MarineMammals_1	10	10	0	0.0000	0.0009	3.634	0.0448	modspe
Balticina_africana	Cnidaria_benthic	10	9	1	15.7361	0.0010	2.778	0.0603	modspe
Thymops_birsteini	Decapoda	10	1	9	4.4565	0.0010	3.000	0.0284	modspe
Myxine_spp	Fish_Demersal	10	4	6	18.6447	0.0011	2.667	0.0596	modspe
Iluocoetes_fimbriatus	Fish_Demersal	10	1	9	3.2857	0.0009	4.256	0.0405	modspe
Bathyraja_macloviana	Fish_Chond	10	10	0	0.0000	0.0009	3.420	0.0089	modspe
Campylaspis_spp	Cumacea	10	9	1	0.7097	0.0010	2.793	0.0676	modcon
Copepodite	Zooplankton	10	9	1	13.9562	0.0009	2.778	0.0360	modspe
Cottunculus_granulosus	Fish_Demersal	10	10	0	0.0000	0.0010	3.866	0.0323	modspe
Cystodytes_antarcticus	Ascidiacea	10	10	0	0.0000	0.0011	2.100	0.1018	modspe
Paralomis_granulosa	Decapoda	10	8	2	86.2849	0.0010	2.563	0.0289	modcon
Pelecanoides_sp	SeaBirds	10	10	0	0.0000	0.0009	3.619	0.0400	modspe
Polycitor_glareosus	Ascidiacea	10	10	0	0.0000	0.0011	2.100	0.1018	modspe
Laetmonice_producta	Polychaeta	9	6	3	141.8262	0.0011	2.798	0.0873	modcon
Glycera_spp	Polychaeta	9	4	5	158.8881	0.0010	3.320	0.0490	$_{ m modspe}$
Anthoptilum_grandiflorum	Coral	9	9	0	0.0000	0.0010	2.778	0.0646	$_{ m modspe}$
Astarte_sp	Bivalvia	9	4	5	10.3917	0.0009	2.000	0.0539	$_{ m modspe}$
Bathyraja_scaphiops	Fish_Chond	9	8	1	1.0000	0.0010	4.041	0.0350	$_{ m modspe}$
Calcarea	Porifera	9	9	0	0.0000	0.0010	2.111	0.0705	$_{ m modspe}$
Eggs_Fish	Zooplankton	9	0	9	0.0000	0.0009	1.000	0.0360	modspe
Pseudechinus_magellanicus	Echinodermata	9	4	5	100.9959	0.0009	2.500	0.0211	$_{ m modspe}$
Globicephala_melas	MarineMammals_3	9	9	0	0.0000	0.0009	4.421	0.0446	modspe
Fusitriton_magellanicus	Gastropoda	8	5	3	211.5917	0.0009	3.107	0.0071	modspe
Eurhomalea_sp	Bivalvia	8	4	4	7.4792	0.0009	2.000	0.0587	modspe
Syllidae	Polychaeta	8	6	2	8.2500	0.0011	2.167	0.1044	modspe
Spiophanes_sp	Polychaeta	8	3 6	5 2	4.3275	0.0011	2.733	0.0583	modspe
Ampharete_kerguelensis	Polychaeta				5.1053	0.0011	2.167	0.1259	modcon
Patagonotothen_cornucola	Fish_BenPel	8	1	7	1.2998	0.0009	3.000	0.0247	modspe
Coelorinchus_marinii	Fish_Demersal	8	5	3	4.9455	0.0010	3.331	0.0304	modspe
Colossendeis_megalonyx	Benthos_Misc Diatoms	8	2	6	300.5419 0.0000	0.0009	3.786	0.0130 0.0241	modcon
Rhizosolenia_crassa		8	0	8		0.0009	1.000		modspe
Sabellidae	Polychaeta	8	6 8	2	193.5113	0.0011	2.252	0.0986	modcon
Eubalaena_australis	MarineMammals_1 Porifera	8			0.0000	0.0009	3.477	0.0368	modspe
Halichondrida		8	7	1	3.3333	0.0009	2.143	0.0670	modspe
Haplocheira_barbimana_robusta	Amphipoda	8	7	1	6.4929		2.000	0.0802	modcon
Procellaria_aequinoctialis	SeaBirds	8	8	0	0.0000	0.0009	4.060	0.0565	modspe
Spheniscus_magellanicus Polyeunoa laevis	SeaBirds Polychaeta	8 7	8 2	0 5	0.0000	0.0009 0.0011	3.638	0.0379	modspe
-	Polychaeta Cnidaria_benthic	7	6	1	56.7865 6.1429	0.0011	2.500 2.833	0.0675 0.0090	modeon
Actinostola_crassicornis Libidoclaea_granaria	Decapoda	7	1	6	1.3336	0.0009	2.833	0.0090	modspe modspe
Thelepus_sp	Polychaeta	7	3	4	5.6975	0.0011	2.000	0.0721	modspe
Austrocidaris_canaliculata	Echinodermata	7	2	5	66.1250	0.0009	3.167	0.0237	modspe
Halicarcinus_planatus	Decapoda	7	2		89.8691	0.0003	3.303	0.0549	modspe
Synechococcus_sp	Phytoplankton_Misc	7	0	5 7	0.0000	0.00011	1.000	0.0349	modspe
Patagonotothen_elegans	Fish_BenPel	7	1	6	1.0600	0.0009	3.000	0.0120	modspe
Patagonotothen_kreffti	Fish_BenPel	7	1	6	1.1569	0.0009	3.000	0.0222	modspe
Careproctus sp					0.0000	0.0009			
Careproctus_sp Ophiacantha_vivipara	Fish_BenPel Echinodermata	7 7	6	1	26.9905	0.0011	2.901 3.441	0.0655 0.0253	modspe
Cyclochlamys_argentina	Echinodermata Bivalvia	7	4	3	3.3917	0.0009	2.000	0.0253	modspe modspe
Eukrohnia_hamata	Zooplankton	7	4 1	6	9.8855	0.0009	3.907	0.0634	modspe modspe
Eukrohnia_hamata Hiatella_sp	Zoopiankton Bivalvia	7	4	3	9.8855 3.3917	0.0010	2.000	0.0415	modspe
Jassa_alonsoae	Amphipoda	7	3	4	1.8349	0.0009	2.000	0.0634	modspe modcon
Jassa_alonsoae Limopsis_sp	Amphipoda Bivalvia	7	4	3	6.7333	0.0010	2.000	0.0761	modcon modspe
	SeaBirds	7	7	0	0.0000	0.0010	3.923	0.0527	modspe
Macronectes gigantone		7	7	0	0.0000	0.0009	2.943	0.0527	modspe modspe
Macronectes_giganteus			,	J	0.0000	0.0000		0.0100	
Odontaster_penicillatus	Echinodermata		7	0	0.0000	0.0009	3.954	0.0258	modene
Odontaster_penicillatus Phalacrocorax_atriceps	Echinodermata SeaBirds	7	7	0	0.0000	0.0009	3.954 2.143	0.0258	modspe
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae	Echinodermata SeaBirds Ascidiacea	7 7	7	0	0.0000	0.0010	2.143	0.0722	$_{ m modspe}$
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp	Echinodermata SeaBirds Ascidiacea Amphipoda	7 7 6	7 4	0 2	0.0000 3.9083	0.0010 0.0010	2.143 2.000	0.0722 0.1076	modspe modspe
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp Tryphosella_sp	Echinodermata SeaBirds Ascidiacea Amphipoda Amphipoda	7 7 6 6	7 4 3	0 2 3	0.0000 3.9083 51.0762	0.0010 0.0010 0.0010	2.143 2.000 2.691	0.0722 0.1076 0.0294	modspe modspe modspe
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp Tryphosella_sp Eurypodius_latreillii	Echinodermata SeaBirds Ascidiacea Amphipoda Amphipoda Decapoda	7 7 6 6 6	7 4 3 2	0 2 3 4	0.0000 3.9083 51.0762 0.6429	0.0010 0.0010 0.0010 0.0010	2.143 2.000 2.691 3.250	0.0722 0.1076 0.0294 0.0404	modspe modspe modspe modspe
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp Tryphosella_sp Eurypodius_latreillii Pista_spp	Echinodermata SeaBirds Ascidiacea Amphipoda Amphipoda Decapoda Polychaeta	7 7 6 6 6 6	7 4 3 2	0 2 3 4 5	0.0000 3.9083 51.0762 0.6429 0.5592	0.0010 0.0010 0.0010 0.0010 0.0011	2.143 2.000 2.691 3.250 2.000	0.0722 0.1076 0.0294 0.0404 0.0800	modspe modspe modspe modspe modcon
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp Tryphosella_sp Eurypodius_latreillii Pista_spp Anasterias_sp	Echinodermata SeaBirds Ascidiacea Amphipoda Amphipoda Decapoda Polychaeta Echinodermata	7 7 6 6 6 6 6	7 4 3 2 1 6	0 2 3 4 5	0.0000 3.9083 51.0762 0.6429 0.5592 0.0000	0.0010 0.0010 0.0010 0.0010 0.0011 0.0009	2.143 2.000 2.691 3.250 2.000 3.137	0.0722 0.1076 0.0294 0.0404 0.0800 0.0069	modspe modspe modspe modcon modspe
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp Tryphosella_sp Eurypodius_latreillii Pista_spp Anasterias_sp Macrourus_whitsoni	Echinodermata SeaBirds Ascidiacea Amphipoda Amphipoda Decapoda Polychaeta Echinodermata Fish_BenPel	7 7 6 6 6 6 6 6	7 4 3 2 1 6 2	0 2 3 4 5 0 4	0.0000 3.9083 51.0762 0.6429 0.5592 0.0000 0.4180	0.0010 0.0010 0.0010 0.0010 0.0011 0.0009 0.0009	2.143 2.000 2.691 3.250 2.000 3.137 3.975	0.0722 0.1076 0.0294 0.0404 0.0800 0.0069 0.0308	modspe modspe modspe modcon modspe modspe
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp Tryphosella_sp Eurypodius_latreillii Pista_spp Anasterias_sp Macrourus_whitsoni Notophycis_marginata	Echinodermata SeaBirds Ascidiacea Amphipoda Amphipoda Decapoda Polychaeta Echinodermata Fish_BenPel Fish_BenPel	7 7 6 6 6 6 6 6 6	7 4 3 2 1 6 2	0 2 3 4 5 0 4 6	0.0000 3.9083 51.0762 0.6429 0.5592 0.0000 0.4180 0.0000	0.0010 0.0010 0.0010 0.0010 0.0011 0.0009 0.0009 0.0008	2.143 2.000 2.691 3.250 2.000 3.137 3.975 1.000	0.0722 0.1076 0.0294 0.0404 0.0800 0.0069 0.0308 0.0281	modspe modspe modspe modcon modspe modspe modspe
Odontaster_penicillatus Phalacrocorax_atriceps Polyclinidae Polycheria_spp Tryphosella_sp Eurypodius_latreillii Pista_spp Anasterias_sp Macrourus_whitsoni	Echinodermata SeaBirds Ascidiacea Amphipoda Amphipoda Decapoda Polychaeta Echinodermata Fish_BenPel	7 7 6 6 6 6 6 6	7 4 3 2 1 6 2	0 2 3 4 5 0 4	0.0000 3.9083 51.0762 0.6429 0.5592 0.0000 0.4180	0.0010 0.0010 0.0010 0.0010 0.0011 0.0009 0.0009	2.143 2.000 2.691 3.250 2.000 3.137 3.975	0.0722 0.1076 0.0294 0.0404 0.0800 0.0069 0.0308	modspe modspe modspe modcon modspe modspe

Table 3: Species-level properties for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Ordered by degree (total number of interactions). Between: betweenness; Close: closeness; TL: trophic level; TS: trophic similarity; TR: topological role (netcon = network connector, modcon = module connector, modhub = module hub, modspe = module specialist). (continued)

Species	Group	Degree	NumPrey	NumPred	Between	Close	TL	TS	TR
Clavularia_sp	Coral	6	4	2	6.2833	0.0010	2.250	0.0701	modspe
Sterechinus_agassizii	Echinodermata	6	2	4	57.4538	0.0010	3.188	0.0158	modspe
Tetractinellida	Porifera	6	6	0	0.0000	0.0009	2.167	0.0325	modspe
Diomedea_sp	SeaBirds	6	6	0	0.0000	0.0009	3.957	0.0456	modspe
$Melanostigma_gelatinosum$	Fish_Demersal	6	3	3	1.4000	0.0009	3.929	0.0406	$_{ m modspe}$
Eudorella_sp	Cumacea	6	4	2	1.0212	0.0011	2.000	0.1322	modcon
Eudyptes_chrysocome	SeaBirds	6	6	0	0.0000	0.0009	4.188	0.0383	modspe
Fulmarus_glacialoides	SeaBirds	6	6	0	0.0000	0.0009	3.900	0.0515	modspe
Lysasterias_sp Macronectes_halli	Echinodermata SeaBirds	6 6	5 6	1 0	38.1845 0.0000	0.0010 0.0009	3.406 3.994	0.0577 0.0524	modspe modspe
Serratosagitta_tasmanica	Zooplankton	6	1	5	3.3855	0.0009	3.994	0.0324	modspe
Notioceramus_anomalus	Echinodermata	6	5	1	208.0000	0.0010	3.223	0.0625	modspe
Paraonidae	Polychaeta	6	6	0	0.0000	0.0011	2.167	0.1259	modspe
Odostomia_sp	Gastropoda	5	0	5	0.0000	0.0008	1.000	0.0176	$_{ m modspe}$
Adelomelon_ancilla	Gastropoda	5	3	2	103.5586	0.0009	3.464	0.0143	$_{ m modspe}$
Lumbrineridae	Polychaeta	5	1	4	9.6667	0.0009	3.500	0.0183	$_{ m modspe}$
Alcyonium_antarcticum	Coral	5	3	2	3.0000	0.0009	2.000	0.0610	modspe
Campylonotus_vagans Natatolana_pastorei	Decapoda Isopoda	5	1	4	1.3318	0.0011	2.000	0.0813	modspe modspe
Terebellides_malvinensis	Polychaeta	5 5	1	4	3.4584 0.5592	0.0009 0.0010	2.000 2.000	0.0447 0.0838	modspe
Nicolea_chilensis	Polychaeta	5	1	4	0.5592	0.0010	2.000	0.0838	modcon
Austrocidaris_spinulosida	Echinodermata	5	0	5	0.0000	0.0008	1.000	0.0172	modspe
Austrodoris_sp	Gastropoda	5	1	4	27.9547	0.0010	3.091	0.0279	modspe
Bathybiaster_loripes	Echinodermata	5	4	1	28.2500	0.0010	3.155	0.0662	modspe
Odontocymbiola_magellanica	Gastropoda	5	2	3	97.8347	0.0009	3.697	0.0174	$_{ m modspe}$
Psammobatis_rudis	Fish_Chond	5	4	1	0.0000	0.0009	3.773	0.0163	$_{ m modspe}$
Cirratulidae	Polychaeta	5	2	3	2.5387	0.0011	2.500	0.0837	modspe
Schizasteridae	Echinodermata	5	1	4	1.3095	0.0010	2.000	0.0667	modspe
Diastylis_granulata	Cumacea	5	4	1	0.4102	0.0011	2.000	0.1345	modspe
Diastylis_hammoniae Diastylis_planifrons	Cumacea Cumacea	5 5	4	1	0.4102 0.4102	0.0011 0.0011	2.000 2.000	0.1345 0.1345	modspe modspe
Mancopsetta_maculata	Fish Demersal	5	3	2	5.9120	0.0011	2.931	0.1343	modspe
Henricia_obesa	Echinodermata	5	5	0	0.0000	0.0009	2.200	0.0173	modspe
Henricia_studeri	Echinodermata	5	5	0	0.0000	0.0010	2.200	0.0817	modspe
Hexactinellida	Porifera	5	4	1	5.0000	0.0009	2.250	0.0278	modspe
Sympagurus_dimorphus	Decapoda	4	1	3	0.7149	0.0011	2.000	0.0955	modspe
Eucranta_sp	Polychaeta	4	1	3	0.2865	0.0011	2.000	0.0948	$_{ m modspe}$
Tonicia_lebruni	Polyplacophora	4	2	2	1.8690	0.0010	2.500	0.0777	$_{ m modspe}$
Puncturella_conica	Gastropoda	4	3	1	9.5000	0.0010	2.333	0.0792	$_{ m modspe}$
Travisia_kerguelensis	Polychaeta	4	2	2	1.5244	0.0010	2.500	0.0825	modspe
Bathyraja_cousseauae	Fish_Chond Echinodermata	4	4	0	0.0000	0.0009 0.0008	3.500	0.0096 0.0121	modspe modspe
Ceramaster_patagonicus Cheiraster_(Luidiaster)_gerlachei	Echinodermata	4	4	0	0.0000	0.0008	3.529 3.469	0.0121	modspe modspe
Ophiacantha_sp	Echinodermata	4	1	3	2.0000	0.0010	3.000	0.0050	modspe
Agonopsis_chiloensis	Fish_BenPel	4	0	4	0.0000	0.0008	1.000	0.0162	modspe
Dactylanthus_antarcticus	Cnidaria_benthic	4	3	1	5.4940	0.0009	3.726	0.0174	modspe
Diplopteraster_clarki	Echinodermata	4	4	0	0.0000	0.0008	4.067	0.0063	$_{ m modspe}$
Calliostoma_spp	Gastropoda	4	0	4	0.0000	0.0008	1.000	0.0174	$_{ m modspe}$
Glabraster_antarctica	Echinodermata	4	4	0	0.0000	0.0010	2.000	0.1379	$_{ m modspe}$
Gorgonocephalus_chilensis	Echinodermata	4	2	2	23.0000	0.0010	3.594	0.0273	modspe
Hippasteria_falklandica	Echinodermata	4	4	0	0.0000	0.0008	3.529	0.0121	modspe
Hyperoodon_planifrons Magelona_alleni	MarineMammals_3 Polychaeta	4	4	0	0.0000	0.0008 0.0010	4.692 2.000	0.0371 0.1379	modspe modspe
Mesoplodon_layardii	MarineMammals_3	4	4	0	0.0000	0.0008	4.692	0.0371	modspe
Ophiolimna_antarctica	Echinodermata	4	4	0	0.0000	0.0009	2.250	0.0809	modspe
Pentactella_leonina	Echinodermata	4	4	0	0.0000	0.0010	2.000	0.1379	modspe
Pentactella_perrieri	Echinodermata	4	4	0	0.0000	0.0010	2.000	0.1379	modspe
Protoperidinium_sp	Dinoflagellates	4	4	0	0.0000	0.0008	2.250	0.0720	$_{ m modspe}$
Ziphius_cavirostris	MarineMammals_3	4	4	0	0.0000	0.0008	4.692	0.0371	$_{ m modspe}$
Abyssianira_argentenensis	Isopoda	3	3	0	0.0000	0.0008	2.000	0.0784	$_{ m modspe}$
Abyssianira_dentifrons	Isopoda	3	3	0	0.0000	0.0008	2.000	0.0784	modspe
Abyssianira_spp	Isopoda	3	3	0	0.0000	0.0008	2.000	0.0784	modspe
Maldanidae Anobothrus sp	Polychaeta Polychaeta	3	0 1	3 2	0.0000 0.2946	0.0008 0.0011	1.000 2.000	0.0203 0.1199	modspe modcon
Coelorinchus_kayomaru	Fish_Demersal	3	0	3	0.2946	0.00011	1.000	0.1199	modspe
Guttigadus_kongi	Fish_Demersal	3	0	3	0.0000	0.0008	1.000	0.0159	modspe
Asbestopluma_sp	Porifera	3	3	0	0.0000	0.0008	3.861	0.0098	modcon
Callochiton_puniceus	Polyplacophora	3	2	1	0.6190	0.0010	2.500	0.0940	modspe
Cladodactyla_crocea	Echinodermata	3	3	0	0.0000	0.0008	2.000	0.0784	modspe
Leptochiton_kerguelensis	Polyplacophora	3	2	1	0.6190	0.0010	2.500	0.0940	$_{ m modspe}$
Leptochiton_medinae	Polyplacophora	3	2	1	0.6190	0.0010	2.500	0.0940	modspe
Nuttallochiton_hyadesi	Polyplacophora	3	2	1	0.6190	0.0010	2.500	0.0940	modspe
Nuttallochiton_martiali	Polyplacophora	3	2	1	0.6190	0.0010	2.500	0.0940	modspe
Tulpa_tulipifera	Cnidaria_benthic	3	1	2 2	0.6667	0.0010 0.0010	2.000	0.0862	modcon
Obelia_spp Pogonolycus_elegans	Zooplankton Fish_BenPel	3	0	3	0.6667 0.0000	0.0010	2.000 1.000	0.0862 0.0270	modcon modspe
Eurypodius_longirostris	Decapoda	3	1	2	0.1429	0.0009	3.000	0.0252	modspe
Eunice_pennata	Polychaeta	3	2	1	0.2887	0.0011	2.500	0.1162	modspe
Colpospirella_algida	Gastropoda	3	0	3	0.0000	0.0007	1.000	0.0184	modspe
Epitonium_sp	Gastropoda	3	0	3	0.0000	0.0007	1.000	0.0184	modspe
Pellilitorina_pellita	Gastropoda	3	0	3	0.0000	0.0007	1.000	0.0184	$_{ m modspe}$
Psolus_antarcticus	Echinodermata	3	2	1	0.5250	0.0010	2.000	0.1082	modcon
Psolus_patagonicus	Echinodermata	3	2	1	0.5250	0.0010	2.000	0.1082	modcon
Psolus_segregatus	Echinodermata	3	2	1	0.5250	0.0010	2.000	0.1082	modcon
Gyrodinium_sp Mesoplodon grayi	Dinoflagellates MarineMammals_3	3	3	0	0.0000	0.0008 0.0008	2.000 4.676	0.0784 0.0376	modspe modspe
Pteraster_affinis	Echinodermata	3	1	2	1.0000	0.0008	3.000	0.0376	modspe modspe
Ophiactis_sp	Echinodermata	3	2	1	0.0000	0.0009	1.500	0.1089	modspe
Ophiocten_amitinum	Echinodermata	3	3	0	0.0000	0.0008	2.000	0.0784	modspe
Ornatoscalpellum_gibberum	Benthos_Misc	3	3	0	0.0000	0.0008	2.000	0.0784	modspe
Perknaster_fuscus	Echinodermata	3	3	0	0.0000	0.0010	2.725	0.0864	$_{ m modspe}$
Perknaster_fuscus Rhodalia_miranda Pteraster_sp	Echinodermata Cnidaria_benthic Echinodermata	3 3 3	3 2 3	0 1 0	0.0000 0.0000 0.0000	0.0010 0.0009 0.0008	2.725 3.403 3.176	0.0864 0.0126 0.0069	modspe modspe modspe

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Species	Group	Degree	NumPrey	NumPred	Between	Close	$_{ m TL}$	TS	TR
Squalus_acanthias	Fish_Chond	3	3	0	0.0000	0.0009	4.443	0.0278	modspe
Tasmacetus_shepherdi	MarineMammals_3	3	3	0	0.0000	0.0008	4.676	0.0376	modspe
Acodontaster_sp	Echinodermata	2	1	1	0.5000	0.0008	2.000	0.0268	modspe
Actinauge_longicornis	Cnidaria_benthic	2	1	1	0.2000	0.0009	3.000	0.0292	modspe
Eatoniella_spp	Gastropoda	2	1	1	0.2500	0.0009	2.000	0.1144	$_{ m modspe}$
Liotella_crassicostata	Gastropoda	2	1	1	0.2500	0.0009	2.000	0.1144	$_{ m modspe}$
Onoba_spp	Gastropoda	2	1	1	0.2500	0.0009	2.000	0.1144	$_{ m modspe}$
Scissurella_clathrata	Gastropoda	2	1	1	1.1429	0.0007	2.000	0.0161	$_{ m modspe}$
Onuphis_pseudoiridescens	Polychaeta	2	1	1	0.0882	0.0010	2.000	0.1194	$_{ m modspe}$
Serpula_spp	Polychaeta	2	1	1	0.5769	0.0008	2.000	0.0218	$_{ m modspe}$
Metepimeria_acanthurus	Amphipoda	2	1	1	1.0000	0.0008	3.250	0.0084	modspe
Hermadion_magalhaensi	Polychaeta	2	0	2	0.0000	0.0009	1.000	0.0275	modspe
Anasterias_antarctica	Echinodermata	2	2	0	0.0000	0.0007	3.571	0.0139	modspe
Pareuthria_spp	Gastropoda	2	0	2	0.0000	0.0008	1.000	0.0230	modspe
Turbonilla_strebeli	Gastropoda Cnidaria_benthic	2 2	0	2 1	0.0000	0.0007	1.000	0.0064	modspe
Campanularia_sp		2	1		0.3333	0.0010	2.000	0.1121	modspe
Clathria_spp	Porifera	2	2	1	0.0000	0.0010 0.0010	2.000	0.1211	modspe
Coperonus_comptus Ctenodiscus_australis	Isopoda Echinodermata	2	1	0	0.0000 1.0000	0.0010	2.500 2.000	0.1271 0.1101	modspe modspe
Cumella_argentinae	Cumacea	2	1	1	1.4730	0.0009	2.000	0.0309	modspe
		2	2	0	0.0000	0.0009	2.500	0.0309	
Echinozone_sp Ekleptostylis_heardi	Isopoda Cumacea	2	1	1	0.1331	0.0010	2.000	0.1271	modspe modspe
Ekleptostylis_vemae	Cumacea	2	1	1	0.1331	0.0010	2.000	0.1348	modspe
	Decapoda	2	1	1	0.0000	0.0010	3.000	0.0168	
Paralomis_spinosissima		2							modspe
Eurypodius_sp Falsilunatia_carcellesi	Decapoda Gastropoda	2	1 2	1 0	0.1429 0.0000	0.0009 0.0008	3.000 3.000	0.0220 0.0123	modspe modspe
Flabellum_spp	Coral	2	1	1	0.3577	0.0008	2.000	0.0123	modspe modspe
	Cumacea	2	1	1	0.1331	0.0010	2.000	0.1111	
Hemilamprops_chilensis Holostylis_uniramosa	Cumacea Cumacea	2	1	1	0.1331	0.0010	2.000	0.1348	modspe modspe
Hormathia_pectinata	Cumacea Cnidaria_benthic	2	1	1	1.7361	0.0010	3.778	0.1348	
		2	1	1					modspe modspe
Ianthopsis_laevis	Isopoda MarinoMammale 2		2		0.1331	0.0010	2.000	0.1348	
Lagenorhynchus_cruciger Aega_semicarinata	MarineMammals_2 Isopoda	2 2	0	0 2	0.0000	0.0008	4.462 1.000	0.0206 0.0097	modspe
=	Cumacea	2	1	1		0.0008			modspe
Leucon_septemdentatus			1		0.1331 0.1615		2.000	0.1348	modspe
Leucothoe_spinicarpa	Amphipoda MarineMammals 3	2 2	2	1		0.0010	2.000	0.1305	modspe
Mesoplodon_bowdoini			2	0	0.0000	0.0008	4.780	0.0284	modspe
Nothria_anoculata	Polychaeta	2 2		0 2	0.0000	0.0010 0.0008	2.500	0.1271	modspe
Margarella_spp	Gastropoda		0		0.0000		1.000	0.0088	modspe modspe
Isosicyonis_alba	Cnidaria_benthic	2 2	0	2	0.0000	0.0008	1.000	0.0245	
Perknaster_sp	Echinodermata Porifera	2	-	1 2	0.0000	0.0008	3.083	0.0163	modspe
Latrunculia_sp		2	0		0.0000	0.0008	1.000	0.0132	modspe
Tedania_sp	Porifera			1	0.0000	0.0010	2.000	0.1211	modspe
Platytyphlops_sarahae	Cumacea	2 2	1	1	0.1331	0.0010	2.000	0.1348	modspe
Phoxocephalus_sp Tectonatica_impervia	Amphipoda Gastropoda	2	1 2	1 0	0.1615 0.0000	0.0010 0.0008	2.000 3.000	0.1305 0.0123	modspe modspe
Acodontaster_elongatus	Echinodermata	1	1	0	0.0000	0.0008	2.000	0.0123	
		1	1	0		0.0007			modspe
Advenogonium_fuegiae	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Allorostrata_ovalis	Isopoda	1	1	0	0.0000	0.0009	2.000 2.000	0.1800 0.1800	modspe modspe
Allorostrata_scutifrons	Isopoda								
Macrochiridothea_stebbingi	Isopoda	1	0	1	0.0000	0.0007	1.000	0.0136	modspe
Andaniotes_linearis	Amphipoda	1	1	0	0.0000	0.0007	2.000	0.0240	modspe
Aristias_antarcticus	Amphipoda	1	1	0	0.0000	0.0008	3.083	0.0064	modspe
Austrofilius_furcatus	Isopoda	1	1		0.0000	0.0009	2.000	0.1800	modspe
Austrofilius_sp	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Austronanus_dentatus	Isopoda			0	0.0000	0.0009 0.0008	2.000	0.1800	modspe
Argeneuthria_varicosa	Gastropoda Isopoda	1	0	1	0.0000		1.000	0.0098	modspe
Caecianiropsis_ectiformis		1	1 1	0	0.0000	0.0009	2.000 2.000	0.1800	modspe
Chaetopterus_antarcticus	Polychaeta Isopoda	1	1	0	0.0000	0.0009		0.1800	modspe
Cryosignum_sp	Isopoda Isopoda	1	1	0	0.0000	0.0009	2.000 2.000	0.1800 0.1800	modspe
Desmosoma_sp		1							modspe
Diplodontias_singularis Idanthyrsus_macropaleus	Echinodermata	1	1	0	0.0000	0.0007 0.0008	2.000	0.0240	modspe
Hyalinoecia_artifex	Polychaeta Polychaeta	1	0	1 0	0.0000	0.0008	1.000 3.000	0.0182 0.0204	modspe modspe
Ianiropsis sp		1	1	0	0.0000	0.0008			
Ianiropsis_sp Iathrippa_menziesi	Isopoda Isopoda	1	1	0	0.0000	0.0009	2.000 2.000	0.1800 0.1800	modspe
Iathrippa_menziesi Iathrippa_multidens	Isopoda Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe modspe
Iathrippa_muitidens Iathrippa_sp	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe modspe
Joeropsis_curvicornis	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Joeropsis_intermedius	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Joeropsis_ntermedius Joeropsis_sp	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
	Polychaeta	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Lanice_sp		1	1						
Leptychaster_sp	Echinodermata		-	0	0.0000	0.0009	2.000	0.1800	modspe
Meridiosignum_menziesi	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Meridiosignum_undulatum	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Moruloidea_darwinii	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Munna_gallardoi	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Munna_longipoda	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Munna_pallida	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Munnogonium_diplonychia	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Munnogonium_falklandicum	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Neasellus_argentinensis	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Neasellus_bicarinatus	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Neojaera_antarctica	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Odontasteridae	Echinodermata	1	1	0	0.0000	0.0007	2.000	0.0240	modspe
Oenonidae	Polychaeta	1	1	0	0.0000	0.0008	3.510	0.0077	modspe
Ophioplinthus_confragosa	Echinodermata	1	1	0	0.0000	0.0007	2.000	0.0081	modspe
Ophioplinthus_inornata	Echinodermata	1	1	0	0.0000	0.0007	2.000	0.0081	$_{ m modspe}$
Parabuccinum_politum	Gastropoda	1	1	0	0.0000	0.0007	2.000	0.0240	$_{ m modspe}$
Paramunna_integra	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	$_{ m modspe}$
Diplasterias_brucei	Echinodermata	1	0	1	0.0000	0.0008	1.000	0.0158	$_{ m modspe}$
Ophiura_lymani	Echinodermata	1	0	1	0.0000	0.0008	1.000	0.0257	$_{ m modspe}$
	Echinodermata Isopoda Isopoda	1 1 1	0 0 1	1 1 0	0.0000 0.0000 0.0000	0.0008 0.0008 0.0009	1.000 1.000 2.000	0.0257 0.0257 0.1800	modspe modspe modspe

Table 3: Species-level properties for the food web of the Marine Protected Area Namuncurá - Banco Burdwood I ecosystem. Ordered by degree (total number of interactions). Between: betweenness; Close: closeness; TL: trophic level; TS: trophic similarity; TR: topological role (netcon = network connector, modcon = module connector, modhub = module hub, modspe = module specialist). (continued)

Species	Group	Degree	NumPrey	NumPred	Between	Close	TL	TS	TR
Pleurosignum_magnum	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Potamilla_sp	Polychaeta	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Prosipho_crassicostatus	Gastropoda	1	1	0	0.0000	0.0007	2.000	0.0240	modspe
Pseudidothea_miersi	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Bolocera_kerguelensis	Cnidaria_benthic	1	0	1	0.0000	0.0008	1.000	0.0191	modspe
Paractis_laevis	Cnidaria_benthic	1	0	1	0.0000	0.0008	1.000	0.0191	modspe
Phelliactis_sp	Cnidaria_benthic	1	0	1	0.0000	0.0008	1.000	0.0191	modspe
Quetzogonium_dentatum	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Rectarcturus_kophameli	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Rectarcturus_tuberculatus	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Santia_compacta	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Seba_subantarctica	Amphipoda	1	1	0	0.0000	0.0007	3.250	0.0032	modspe
Sporonana_sp	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Stenothoidae	Amphipoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Tryphosites_chevreuxi	Amphipoda	1	1	0	0.0000	0.0008	4.072	0.0111	modspe
Uromunna_nana	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe
Uromunna_sp	Isopoda	1	1	0	0.0000	0.0009	2.000	0.1800	modspe

Figure 2 shows the species' topological roles in the food web graph. Species, represented by circles, are coloured by role: network connector (dark purple), module connector (light pink), module hub (light green), and module specialist (dark green). Network connector = 1 species; module connector = 41 species; module hub = 10 species; and module specialist = 328 species.

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Figure 2: Graph of the food web showing species coloured by topological role: network connector (dark purple), module connector (light pink), module hub (light green), and module specialist (dark green). Circle diameter is relative to the number of interactions.