

Supplementary Material for ‘Food web structure and species’ role in an oceanic Marine Protected Area in the subantarctic’

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 Yaganes ecosystem. 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).

Table 1: List of predator-prey (trophic) interactions used to build the network for the Marine Protected Area Yaganes ecosystem (MPAY).

Prey	Predator	Reference	Link	Observations
Euphausiidae	Alluruteuthis_antarcticus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Pleuragramma_antarcticum	Alluruteuthis_antarcticus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Batoteuthis_skolops	Alluruteuthis_antarcticus	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Copepoda_others	Amphipoda	Dauby_etal_2001	https://doi.org/10.1023/A:1017596120422	Inferred from Jassa sp
Detritus	Anuropus_antarcticus		NA	
Detritus	Anuropus_australis	Schulutz, G. A._1975	https://doi.org/10.1029/AR023p0069	
Themisto_gaudichaudii	Ardenna_gravis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Ardenna_gravis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Ardenna_gravis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Balaenoptera_acutorostrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Balaenoptera_acutorostrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Balaenoptera_acutorostrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Balaenoptera_acutorostrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Balaenoptera_acutorostrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Balaenoptera_acutorostrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Balaenoptera_acutorostrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Euphausiidae	Balaenoptera_bonaerensis	Alvarez, F. et al_2022	https://doi.org/10.1007/s00300-022-03080-x	
Themisto_gaudichaudii	Balaenoptera_bonaerensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Balaenoptera_bonaerensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Balaenoptera_bonaerensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Balaenoptera_bonaerensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Balaenoptera_bonaerensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Euphausiidae	Balaenoptera_borealis	Basso_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Gymnoscopelus_spp	Balaenoptera_borealis	Basso_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	

Prey	Predator	Reference	Link	Observations
Kreftichthys_andersoni	Balaenoptera_borealis	Bassoietal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Themisto_gaudichaudii	Balaenoptera_borealis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Balaenoptera_borealis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Balaenoptera_borealis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Balaenoptera_borealis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Balaenoptera_borealis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Balaenoptera_borealis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Balaenoptera_borealis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Electrona_spp	Balaenoptera_physalus	Bassoietal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Gymnoscopelus_spp	Balaenoptera_physalus	Bassoietal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Kreftichthys_andersoni	Balaenoptera_physalus	Bassoietal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Euphausiidae	Balaenoptera_physalus	Bassoietal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Grimothea_gregaria	Balaenoptera_physalus	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Balaenoptera_physalus	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Balaenoptera_physalus	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Balaenoptera_physalus	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Balaenoptera_physalus	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Balaenoptera_physalus	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Balaenoptera_physalus	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Champocephalus_gunnari	Balaenoptera_physalus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Alluruteuthis_antarcticus	Balaenoptera_physalus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Martialia_hyadesi	Balaenoptera_physalus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Balaenoptera_physalus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Kondakovia_longimana	Balaenoptera_physalus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Mesonychoteuthis_hamiltonii	Balaenoptera_physalus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Galiteuthis_glacialis	Balaenoptera_physalus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem

Prey	Predator	Reference	Link	Observations
Tinerfe_cyanea	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Enteroctopus_megalocyathus	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Cottoperca_trigloides	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dissostichus_eleginoides	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_guntheri	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Bathyraja_brachyurops	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Ophidiidae	Bathyraja_brachyurops	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Myxine_spp	Bathyraja_brachyurops	Brickle_etal_2003; Bellegia_etal_2019	https://doi.org/10.1017/S0025315403008373h ; https://doi.org/10.1017/S0025315403008373h	
Tinerfe_cyanea	Bathyraja_macloviana	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Batoteuthis_skolops	Bathyteuthis_abyssicola	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Alluroteuthis_antarcticus	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Bathyteuthis_abyssicola	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Electrona_spp	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Euphausiidae	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Galiteuthis_glacialis	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Gymnoscopelus_spp	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Histioteuthis_eltaninae	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Pleuragramma_antarcticum	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Themisto_gaudichaudii	Batoteuthis_skolops	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem

Prey	Predator	Reference	Link	Observations
Phytoplankton	Calanoida			
Detritus	Campylonotus_vagans	Lovrich_pers.com.	NA	
Polychaeta	Campylonotus_vagans	Lovrich_pers.com.	NA	
Copepoda_others	Caperea_marginata	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	
Euphausiidae	Champsocephalus_gunnari	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Calanoida	Champsocephalus_gunnari	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Copepoda_others	Champsocephalus_gunnari	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Notothenia_coriiceps	Champsocephalus_gunnari	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Electrona_spp	Champsocephalus_gunnari	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Detritus	Cirratulidae	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007	
Foraminifera	Cirratulidae	GloBI	https://www.globalbioticinteractions.org/browse/?interactionType=interactsWith&resultType=json&sourceTaxon=Foraminifera	
Doryteuthis_gahi	Coelorinchus_fasciatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pagurus_comptus	Coelorinchus_fasciatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Coelorinchus_fasciatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Coelorinchus_fasciatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	Copepoda_others	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Pseudechinus_magellanicus	Cosmasterias_lurida	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Tinerfe_cyanea	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dissostichus_eleginoides	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Bathyraja_brachyurops	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Ilucoetes_fimbriatus	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Salilota_australis	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Cottoperca_trigloides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Enteroctopus_megalocyathus	Cottunculus_granulosus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Cottunculus_granulosus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	Cottunculus_granulosus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Coelorinchus_fasciatus	Cottunculus_granulosus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	CtenoCalanoida_vanus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	CtenoCalanoida_vanus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Daption_capense	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Polychaeta	Daption_capense	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Daption_capense	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Daption_capense	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Daption_capense	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Daption_capense	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Liothyrella_uva	Decapoda_others	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Magallania_venosa	Decapoda_others	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Terebratella_dorsata	Decapoda_others	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Dissostichus_eleginoides	Diomedea_exulans	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Diomedea_exulans	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Necromass	Diomedea_exulans	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Diomedea_exulans	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_holotrachys	Diomedea_exulans	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Euphausiidae	Diomedea_exulans	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Odonthestes_spp	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Sprattus_fuegensis	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Harpagiferidae_sp	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Lamna_nasus	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Merluccius_australis	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Salilota_australis	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Moridae
Electrona_spp	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Myctophidae

Prey	Predator	Reference	Link	Observations
Gymnoscopelus_spp	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Myctophidae
Krefttichthys_andersoni	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Myctophidae
Myxine_spp	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Ophidiidae	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Bathyraja_brachyurops	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Rajidae
Bathyraja_macloviana	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Rajidae
Squaliformes	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Squalidae
Ilucoetes_fimbriatus	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	Inferred from Zoarcidae
Patagonotothen_guntheri	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_holotrachys	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Coelorinchus_fasciatus	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dissostichus_eleginoides	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Tinerfe_cyanea	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Enteroctopus_megalocyathus	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pagurus_comptus	Dissostichus_eleginoides	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Merluccius_hubbsi	Dissostichus_eleginoides	pers.com._Claudia_Boy	NA	
Batoteuthis_skolops	Dissostichus_eleginoides	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Grimothea_gregaria	Doryteuthis_gahi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Doryteuthis_gahi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Euphausiidae	Doryteuthis_gahi	Brunetti_etal_1999	http://hdl.handle.net/1834/2336	
Zooplankton	Doryteuthis_gahi	Brunetti_etal_1999	http://hdl.handle.net/1834/2336	
Phytoplankton	Drepanopus_forcipatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Themisto_gaudichaudii	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antarctica and Electrona carlsbergi
Calanoida	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antarctica and Electrona carlsbergi
Copepoda_others	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antarctica and Electrona carlsbergi
Euphausiidae	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antarctica and Electrona carlsbergi
Salpidae_spp	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antarctica and Electrona carlsbergi
Enteractopus_megalocyathus	Enteractopus_megalocyathus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Enteractopus_megalocyathus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pagurus_comptus	Enteractopus_megalocyathus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Paralomis_granulosa	Enteractopus_megalocyathus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Eubalaena_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Eubalaena_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Eubalaena_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Eubalaena_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Eudiptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Eudiptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Eudiptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Enteractopus_megalocyathus	Eudiptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Amphipoda	Eudiptes_chrysocome_chrysocome	Rossiano_etal_2016	https://doi.org/10.3354/meps11689	
Ichthyoplankton	Eudiptes_chrysocome_chrysocome	Rossiano_etal_2016	https://doi.org/10.3354/meps11689	
Euphausiidae	Eudiptes_chrysocome_chrysocome	Rossiano_etal_2016	https://doi.org/10.3354/meps11689	
Ichthyoplankton	Eukrohnia_hamata	Bruno_pers.com.	NA	
Phytoplankton	Euphausiidae	Hellessey_etal_2018	https://doi.org/10.1093/jcbiol/ruy053	
Copepoda_others	Euphausiidae	Hellessey_etal_2018	https://doi.org/10.1093/jcbiol/ruy053	
Allroteuthis_antarcticus	Filippovia_knipovitchi	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Bathyteuthis_abyssicola	Filippovia_knipovitchi	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem

Prey	Predator	Reference	Link	Observations
Batoteuthis_skolops	Filippovia_knipovitchi	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Doryteuthis_gahi	Fulmarus_glacialis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Fulmarus_glacialis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Fulmarus_glacialis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Euphausiidae	Galiteuthis_glacialis	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Batoteuthis_skolops	Galiteuthis_glacialis	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Detritus	Gastropoda_others	Encyclopedia of Life	https://eol.org/pages/19661450 ; https://eol.org/pages/51274446 ; https://eol.org/pages/4870678	
Polychaeta	Gastropoda_others	Encyclopedia of Life	https://eol.org/pages/51509488	
Doryteuthis_gahi	Globicephala_melaena	Clarke_etal_1994	10.1017/S0954102094000234	Inferred from Octopoda
Enteroctopus_megalocyathus	Globicephala_melaena	Clarke_etal_1994	10.1017/S0954102094000234	
Moroteuthis_ingens	Globicephala_melas	Mansilla_etal_2012	10.1007/s00300-012-1222-3	
Calanoida	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Doryteuthis_gahi	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Illex_argentinus	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Enteroctopus_megalocyathus	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Merluccius_hubbsi	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Merluccius_australis	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Macruronus_magellanicus	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Salilota_australis	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Micromesistius_australis	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Dissostichus_eleginoides	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Cottoperca_trigloides	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Ilucoetes_fimbriatus	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Lepidonotothen	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Pleuragramma_antarcticum	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Nototheniops_larseni	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Pseudochaenichthys_georgianus	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Patagonotothen_ramsayi	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Patagonotothen_guntheri	Globicephala_melas_edwardii	Becker_etal_2021	https://doi.org/10.1007/s00300-021-02908-2	
Euphausiidae	Gonatus_antarcticus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Electrona_spp	Gonatus_antarcticus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Pleuragramma_antarcticum	Gonatus_antarcticus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem

Prey	Predator	Reference	Link	Observations
Gymnoscopelus_spp	Gonatus_antarcticus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Champocephalus_gunnari	Gonatus_antarcticus	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Batoteuthis_skolops	Gonatus_antarcticus	Lopez-Lopez_et al_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
RhinCalanoida_gigas	Gorgonocephalus_chilensis	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Detritus	Grimothea_gregaria	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	Grimothea_gregaria	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Polychaeta	Grimothea_gregaria	Marina_et al_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Gymnoscopelus_spp	Shreeve_et al_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Calanoida	Gymnoscopelus_spp	Shreeve_et al_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Copepoda_others	Gymnoscopelus_spp	Shreeve_et al_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Decapoda_others	Gymnoscopelus_spp	Shreeve_et al_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Euphausiidae	Gymnoscopelus_spp	Shreeve_et al_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Ostracoda	Gymnoscopelus_spp	Shreeve_et al_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Salpidae_spp	Gymnoscopelus_spp	Shreeve_et al_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Euphausiidae	Harpagiferidae_sp	Moreira_et al_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Harpagifer_antarcticus
Ostracoda	Harpagiferidae_sp	Moreira_et al_2014	https://doi.org/10.1007/s00300-014-1545-3	
Polyplacophora	Harpagiferidae_sp	Moreira_et al_2014	https://doi.org/10.1007/s00300-014-1545-3	
Amphipoda	Harpagiferidae_sp	Moreira_et al_2014	https://doi.org/10.1007/s00300-014-1545-3	
Gastropoda_others	Harpagiferidae_sp	Moreira_et al_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Onoba sp
Isopoda_others	Harpagiferidae_sp	Moreira_et al_2014	https://doi.org/10.1007/s00300-014-1545-3	
Batoteuthis_skolops	Histioteuthis_eltaninae	Lopez-Lopez_et al_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Alluroteuthis_antarcticus	Histioteuthis_eltaninae	Lopez-Lopez_et al_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem

Prey	Predator	Reference	Link	Observations
Bathyeuthis_abyssicola	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Electrona_spp	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Filippovia_knipovitchi	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Galiteuthis_glacialis	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Gonatus_antarcticus	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Gymnoscopelus_spp	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Kondakovia_longimana	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Mastigoteuthis_spp	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Phytoplankton	Ichthyoplankton			
Zooplankton	Ichthyoplankton			
Themisto_gaudichaudii	Illex_argentinus	Ivanovic_etal_1994	https://doi.org/10.1017/S0954102094000295	
Euphausiidae	Illex_argentinus	Ivanovic_etal_1994	https://doi.org/10.1017/S0954102094000295	Inferred from Euphausia lucens
Doryteuthis_gahi	Illex_argentinus	Ivanovic_etal_1994	https://doi.org/10.1017/S0954102094000295	
Gymnoscopelus_spp	Illex_argentinus	Ivanovic_etal_1994	https://doi.org/10.1017/S0954102094000295	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Calanoida	Illex_argentinus	Ivanovic_etal_1994	https://doi.org/10.1017/S0954102094000295	
Ostracoda	Illex_argentinus	Ivanovic_etal_1994	https://doi.org/10.1017/S0954102094000295	
Gastropoda_others	Illex_argentinus	Mouat_etal_2001	https://doi.org/10.1016/S0165-7836(01)00229-6	
Tinerfe_cyanea	Ilucoetes_fimbriatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Detritus	Isopoda_others	Doti_pers.com.		
Euphausiidae	Kondakovia_longimana	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Batoteuthis_skolops	Kondakovia_longimana	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Themisto_gaudichaudii	Krefflichthys_andersoni	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	
Calanoida	Krefflichthys_andersoni	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	
Copepoda_others	Krefflichthys_andersoni	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Metridia sp
Euphausiidae	Krefflichthys_andersoni	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	
Patagonotothen_ramsayi	Lagenorhynchus_australis	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	Inferred from Patagonotothen_spp
Patagonotothen_guntheri	Lagenorhynchus_australis	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	Inferred from Patagonotothen_spp
Nototheniops_larseni	Lagenorhynchus_australis	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Pleuragramma_antarcticum	Lagenorhynchus_australis	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	

Prey	Predator	Reference	Link	Observations
<i>Iluocoetes_fimbriatus</i>	<i>Lagenorhynchus_australis</i>	Ricciadelli_etal_2010	https://doi.org/10.3354/meps08826	Inferred from Zoarcidae
<i>Odonthestes_spp</i>	<i>Lagenorhynchus_australis</i>	Ricciadelli_etal_2010	https://doi.org/10.3354/meps08826	
<i>Myxine_spp</i>	<i>Lagenorhynchus_australis</i>	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
<i>Salilota_australis</i>	<i>Lagenorhynchus_australis</i>	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
<i>Enteroctopus_megalocyathus</i>	<i>Lagenorhynchus_australis</i>	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
<i>Doryteuthis_gahi</i>	<i>Lagenorhynchus_australis</i>	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
<i>Grimothea_gregaria</i>	<i>Lagenorhynchus_australis</i>	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
<i>Sprattus_fuegensis</i>	<i>Lagenorhynchus_australis</i>	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
<i>Merluccius_hubbsi</i>	<i>Lagenorhynchus_australis</i>	Schiavini_etal_1997	https://oceanrep.geomar.de/id/eprint/53025	
<i>Decapoda_others</i>	<i>Lagenorhynchus_australis</i>	Schiavini_etal_1997	https://oceanrep.geomar.de/id/eprint/53025	
<i>Ophidiidae</i>	<i>Lagenorhynchus_australis</i>	Schiavini_etal_1997	https://oceanrep.geomar.de/id/eprint/53025	
<i>Merluccius_australis</i>	<i>Lagenorhynchus_australis</i>	Schiavini_etal_1997	https://oceanrep.geomar.de/id/eprint/53025	
<i>Illex_argentinus</i>	<i>Lagenorhynchus_australis</i>	Schiavini_etal_1997	https://oceanrep.geomar.de/id/eprint/53025	
<i>Mactridae_spp</i>	<i>Lagenorhynchus_australis</i>	Schiavini_etal_1997	https://oceanrep.geomar.de/id/eprint/53025	
<i>Salpidae_spp</i>	<i>Lagenorhynchus_australis</i>	Schiavini_etal_1997	https://oceanrep.geomar.de/id/eprint/53025	
<i>Electrona_spp</i>	<i>Lagenorhynchus_cruciger</i>	Waerebeek_etal_2010	https://doi.org/10.47536/jcrm.v11i3.611	
<i>Gymnoscopelus_spp</i>	<i>Lagenorhynchus_cruciger</i>	Waerebeek_etal_2010	https://doi.org/10.47536/jcrm.v11i3.611	
<i>Kreftichthys_andersoni</i>	<i>Lagenorhynchus_cruciger</i>	Waerebeek_etal_2010	https://doi.org/10.47536/jcrm.v11i3.611	
<i>Euphausiidae</i>	<i>Lagenorhynchus_cruciger</i>	Basso_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	
<i>Doryteuthis_gahi</i>	<i>Lagenorhynchus_cruciger</i>	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
<i>Sprattus_fuegensis</i>	<i>Lagenorhynchus_cruciger</i>	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
<i>Champocephalus_gunnari</i>	<i>Lagenorhynchus_cruciger</i>	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
<i>Allurroteuthis_antarcticus</i>	<i>Lagenorhynchus_cruciger</i>	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
<i>Martialia_hyadesi</i>	<i>Lagenorhynchus_cruciger</i>	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
<i>Gonatus_antarcticus</i>	<i>Lagenorhynchus_cruciger</i>	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
<i>Kondakovia_longimana</i>	<i>Lagenorhynchus_cruciger</i>	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
<i>Mesonychoteuthis_hamiltonii</i>	<i>Lagenorhynchus_cruciger</i>	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
<i>Galiteuthis_glacialis</i>	<i>Lagenorhynchus_cruciger</i>	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
<i>Merluccius_hubbsi</i>	<i>Lamna_nasus</i>	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14865	
<i>Salilota_australis</i>	<i>Lamna_nasus</i>	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	Inferred from Moridae
<i>Macrourus_holotrachys</i>	<i>Lamna_nasus</i>	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
<i>Coelorinchus_fasciatus</i>	<i>Lamna_nasus</i>	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	

Prey	Predator	Reference	Link	Observations
Dissostichus_eleginoides	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Patagonotothen_ramsayi	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Merluccius_australis	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Ophidiidae	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	Inferred from Genypterus_blacodes
Bathyraja_brachyurops	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	Inferred from Bathyraja_brachyurops
Bathyraja_macloviana	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Micromesistius_australis	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Sprattus_fuegensis	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Illex_argentinus	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Enteroctopus_megalocyathus	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Decapoda_others	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Euphausiidae	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Grimothea_gregaria	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Grimothea_gregaria	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Munidae
Euphausiidae	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Ostracoda	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Polyplacophora	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Amphipoda	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Gondogeneia_antarctica
Gastropoda_others	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Onoba sp
Isopoda_others	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Gnathia sp
Detritus	Liothyrella_uva	Steele-Petrovic_1976	https://www.palass.org/publications/palaeontology-jo	
Micromesistius_australis	Lissodelphis_peronii	Riccaldelli_etal_2010	https://doi.org/10.3354/meps08826	
Coelorinchus_fasciatus	Lissodelphis_peronii	Riccaldelli_etal_2010	https://doi.org/10.3354/meps08826	
Ilucoetes_fimbriatus	Lissodelphis_peronii	Riccaldelli_etal_2010	https://doi.org/10.3354/meps08826	
Doryteuthis_gahi	Lissodelphis_peronii	Riccaldelli_etal_2010	https://doi.org/10.3354/meps08826	
Illex_argentinus	Lissodelphis_peronii	Riccaldelli_etal_2010	https://doi.org/10.3354/meps08826	
Doryteuthis_gahi	Lissodelphis_peroniia	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	
Electrona_spp	Lissodelphis_peroniia	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	Inferred from Myctophidae
Gymnoscopelus_spp	Lissodelphis_peroniia	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	Inferred from Myctophidae
Kreftichthys_andersoni	Lissodelphis_peroniia	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	Inferred from Myctophidae
Micromesistius_australis	Macronectes_giganteus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Macronectes_giganteus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Macronectes_giganteus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Doryteuthis_gahi	Macronectes_giganteus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Macronectes_halli	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Macronectes_halli	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Macronectes_halli	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Polychaeta	Macrouridae	GloBI	https://www.globalbioticinteractions.org/browse/?intera	
Campylonotus_vagans	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Coelorinchus_fasciatus	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Ilucoetes_fimbriatus	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Eukrohnia_hamata	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Tinerfe_cyanea	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pagurus_comptus	Macrourus_carinatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Amphipoda	Macrourus_carinatus	Laptikhovsky_2005	https://doi.org/10.1016/j.dsr.2005.03.003	
Isopoda_others	Macrourus_carinatus	Laptikhovsky_2005	https://doi.org/10.1016/j.dsr.2005.03.003	
Euphausiidae	Macrourus_carinatus	Laptikhovsky_2005	https://doi.org/10.1016/j.dsr.2005.03.003	
Polychaeta	Macrourus_carinatus	Laptikhovsky_2005	https://doi.org/10.1016/j.dsr.2005.03.003	
Doryteuthis_gahi	Macrourus_holotrachys	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Campylonotus_vagans	Macrourus_holotrachys	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Tinerfe_cyanea	Macrourus_holotrachys	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Alluroteuthis_antarcticus	Macrourus_holotrachys	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Trematomus_scotti	Macrourus_holotrachys	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Euphausiidae	Macruronus_magellanicus	Alvarez_etal_2022	https://doi.org/10.1007/s00300-022-03063-y	
Grimothea_gregaria	Macruronus_magellanicus	Alvarez_etal_2022	https://doi.org/10.1007/s00300-022-03063-y	
Sprattus_fuegensis	Macruronus_magellanicus	Alvarez_etal_2022	https://doi.org/10.1007/s00300-022-03063-y	
Phytoplankton	Mactridae_spp			
Detritus	Magellania_venosa	Steele-Petrovic_1976	https://www.palass.org/publications/palaeontology-jo	

Prey	Predator	Reference	Link	Observations
Euphausiidae	Martialia_hyadesi	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Martialia_hyadesi	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Pleuragramma_antarcticum	Martialia_hyadesi	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Electrona_spp	Martialia_hyadesi	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gymnoscopelus_spp	Martialia_hyadesi	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Champsocephalus_gunnari	Martialia_hyadesi	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Alluroteuthis_antarcticus	Mastigoteuthis_spp	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Bathyteuthis_abyssicola	Mastigoteuthis_spp	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Batoteuthis_skolops	Mastigoteuthis_spp	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Calanoida	Mastigoteuthis_spp	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Dissostichus_eleginoides	Mastigoteuthis_spp	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Euphausiidae	Mastigoteuthis_spp	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Euphausiidae	Megaptera_novaeangliae	Bassoi_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Sprattus_fuegensis	Megaptera_novaeangliae	Haro_etal_2016	https://repositorio.uchile.cl/handle/2250/141272	
Grimothea_gregaria	Megaptera_novaeangliae	Haro_etal_2016	https://repositorio.uchile.cl/handle/2250/141272	
Decapoda_others	Merluccius_australis	Dunn_etal_2010	https://doi.org/10.1371/journal.pone.0013647	
Doryteuthis_gahi	Merluccius_hubbsi	Brunetti_etal_1999	http://hdl.handle.net/1834/2336	
Alluroteuthis_antarcticus	Mesonychoteuthis_hamiltonii	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Martialia_hyadesi	Mesonychoteuthis_hamiltonii	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Moroteuthis_ingens	Mesonychoteuthis_hamiltonii	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Kondakovia_longimana	Mesonychoteuthis_hamiltonii	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Mesonychoteuthis_hamiltonii	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Eukrohnia_hamata	Mesonychoteuthis_hamiltonii	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Doryteuthis_gahi	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Salilota_australis	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Patagonotothen_ramsayi	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Iluocoetes_fimbriatus	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Eukrohnia_hamata	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Myxine_spp	Micromesistius_australis	Brickle_etal_2009	https://doi.org/10.1016/j.ecss.2009.06.007	
Macrouridae	Micromesistius_australis	FishBase	http://www.fishbase.us/TrophicEco/DietCompoSumma	
Doryteuthis_gahi	Mirounga_leonina	Bassoi_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Electrona_spp	Mirounga_leonina	Daneri_etal_2002	https://link.springer.com/article/10.1007/s00300-002-0408-5	Inferred from Electrona antarctica and Electrona carlsbergi
Gymnoscopelus_spp	Mirounga_leonina	Daneri_etal_2002	https://link.springer.com/article/10.1007/s00300-002-0408-5	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Kreftlichthys_andersoni	Mirounga_leonina	Daneri_etal_2002	https://link.springer.com/article/10.1007/s00300-002-0408-5	Inferred from Myctophidae
Lepidonotothen	Mirounga_leonina	Daneri_etal_2002	https://link.springer.com/article/10.1007/s00300-002-0408-5	
Pagetopsis_sp	Mirounga_leonina	Daneri_etal_2002	https://link.springer.com/article/10.1007/s00300-002-0408-5	
Champscephalus_gunnari	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Alluroteuthis_antarcticus	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Martialia_hyadesi	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Kondakovia_longimana	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Mesonychoteuthis_hamiltonii	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Galiteuthis_glacialis	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Trematomus_scotti	Mirounga_leonina	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Euphausiidae	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Calanoida	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Copepoda_others	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem

Prey	Predator	Reference	Link	Observations
Alluroteuthis_antarcticus	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Kondakovia_longimana	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Mesonychoteuthis_hamiltonii	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Martialia_hyadesi	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Pleurogramma_antarcticum	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Electrona_spp	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gymnoscopelus_spp	Moroteuthis_ingens	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Necromass	Myxine_spp	FishBase	https://www.fishbase.de/summary/Myxine-glutinosa.ht	
Detritus	Myxine_spp	GloBI	https://www.globalbioticinteractions.org/browse/?intera	
Pagurus_comptus	Myxine_spp	GloBI	https://www.globalbioticinteractions.org/browse/?intera	
Phytoplankton	Neocalanoida_tonsus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Gastropoda_others	Notothenia_coriiceps	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Littorinidae
Amphipoda	Notothenia_coriiceps	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Gammaridea
Euphausiidae	Notothenia_coriiceps	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Ostracoda	Notothenia_coriiceps	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Polyplacophora	Notothenia_coriiceps	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Isopoda_others	Notothenia_coriiceps	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Trematomus_scotti	Notothenia_coriiceps	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Euphausiidae	Notothenia_rossi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Ostracoda	Notothenia_rossi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Polyplacophora	Notothenia_rossi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Amphipoda	Notothenia_rossi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Gastropoda_others	Notothenia_rossi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Onoba sp
Isopoda_others	Notothenia_rossi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Euphausiidae	Nototheniops_larseni	Kock_1985		Inferred from Nototheniops larseni
Polychaeta	Odonthestes_spp	Garcia_1994	https://hal.sorbonne-universite.fr/hal-03047971	Inferred from Odonthestes smitti
Isopoda_others	Odonthestes_spp	Garcia_1994	https://hal.sorbonne-universite.fr/hal-03047971	Inferred from Odonthestes smitti
Decapoda_others	Odonthestes_spp	Garcia_1994	https://hal.sorbonne-universite.fr/hal-03047971	Inferred from Odonthestes smitti

Prey	Predator	Reference	Link	Observations
Amphipoda	Odonthestes_spp	Lattuca_etal_2015	https://doi.org/10.1016/j.ecss.2015.03.019	Inferred from Odontesthes nigricans
Euphausiidae	Odonthestes_spp	Lattuca_etal_2016	https://doi.org/10.1016/j.ecss.2015.03.019	Inferred from Odontesthes nigricans
Calanoida	Ophiacantha_vivipara		NA	
CtenoCalanoida_vanus	Ophiacantha_vivipara	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Ophiacantha_vivipara	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Ophiacantha_vivipara	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Ophidiidae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Coelorinchus_fasciatus	Ophidiidae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Salilota_australis	Ophidiidae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Ophidiidae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Ophidiidae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Enteroctopus_megalocyathus	Ophidiidae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Mirounga_leonina	Orcinus_orca	Waerebeek_etal_2010	https://doi.org/10.47536/jcrm.v11i3.611	
Lagenorhynchus_australis	Orcinus_orca	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
Otaria_byronia	Orcinus_orca	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	Inferred from Otariidae
Spheniscus_magellanicus	Orcinus_orca	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	
Champocephalus_gunnari	Orcinus_orca	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Alluroteuthis_antarcticus	Orcinus_orca	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Martialia_hyadesi	Orcinus_orca	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Orcinus_orca	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Kondakovia_longimana	Orcinus_orca	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Mesonychoteuthis_hamiltonii	Orcinus_orca	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Galiteuthis_glacialis	Orcinus_orca	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Detritus	Ostracoda			
Phytoplankton	Ostracoda			
Doryteuthis_gahi	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Ophidiidae	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Enteroctopus_megalocyathus	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dissostichus_eleginoides	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_carinatus	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_holotrachys	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Salilota_australis	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_guntheri	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Coelorinchus_fasciatus	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Otaria_byronia	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Euphausiidae	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Electrona_spp	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gymnoscopelus_spp	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Pleuragramma_antarcticum	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Notothenia_coriiceps	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Macrourus_holotrachys	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Harpagiferidae_sp	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Trematomus_scotti	Pagetopsis_sp	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Detritus	Pagurus_comptus	Kamsay_etal_1996	https://doi.org/10.3354/meps144063	
Necromass	Pagurus_comptus	Kamsay_etal_1996	https://doi.org/10.3354/meps144063	
Polychaeta	Pagurus_comptus	Kamsay_etal_1996	https://doi.org/10.3354/meps144063	
Cumacea	Pagurus_comptus	Encyclopedia of Life	https://eol.org/pages/46505264	
Liothyrella_uva	Pagurus_comptus	Lovrich_pers.com.	NA	
Magellania_venosa	Pagurus_comptus	Lovrich_pers.com.	NA	
Terebratella_dorsata	Pagurus_comptus	Lovrich_pers.com.	NA	
Pseudechinus_magellanicus	Paralomis_granulosa	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Gastropoda_others	Paralomis_granulosa	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	Paralomis_granulosa	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Eukrohnia_hamata	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Cirratulidae	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Tinerfe_cyanea	Patagonotothen_guntheri	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Liothyrella_uva	Patagonotothen_guntheri	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Magellania_venosa	Patagonotothen_guntheri	Gordillo_etal_2019; CovattiAle_etal_2022	https://doi.org/10.1007/s12526-019-00935-1 ; https://doi.org/10.1007/s12526-022-00935-1	
Terebratella_dorsata	Patagonotothen_guntheri	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Grimothea_gregaria	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Campylonotus_vagans	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Iluocoetes_fimbriatus	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Eukrohnia_hamata	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Pagurus_comptus	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Gorgonocephalus_chilensis	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Tinerfe_cyanea	Patagonotothen_ramsayi	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Liothyrella_uva	Patagonotothen_ramsayi	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Magallania_venosa	Patagonotothen_ramsayi	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Terebratella_dorsata	Patagonotothen_ramsayi	Gordillo_etal_2019	https://doi.org/10.1007/s12526-019-00935-1	
Polychaeta	Pelagobia_longicirrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Pelagobia_longicirrata	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Calanoida	Pleuragramma_antarcticum	Kellermann_1987	https://doi.org/10.1007/BF00443949	
Euphausiidae	Pleuragramma_antarcticum	Kellermann_1987	https://doi.org/10.1007/BF00443949	
Phytoplankton	Polychaeta			
Zooplankton	Polychaeta			
Phytoplankton	Polyplacophora	Encyclopedia of Life	https://eol.org/pages/4941339	
Detritus	Polyplacophora	Sirenko_abstract	NA	
Amphipoda	Pseudechinus_magellanicus	Penchaszadeh_etal_2004	https://doi.org/10.1080/00785326.2004.10410216	
Foraminifera	Pseudechinus_magellanicus	Penchaszadeh_etal_2004	https://doi.org/10.1080/00785326.2004.10410216	
Gastropoda_others	Pseudechinus_magellanicus	Penchaszadeh_etal_2004	https://doi.org/10.1080/00785326.2004.10410216	Inferred from Odostomia sp
Polychaeta	Pseudechinus_magellanicus	Penchaszadeh_etal_2004	https://doi.org/10.1080/00785326.2004.10410216	
Themisto_gaudichaudii	Pseudochaenichthys_georgianus	Clarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Decapoda_others	Pseudochaenichthys_georgianus	Clarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Euphausiidae	Pseudochaenichthys_georgianus	Clarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Electrona_spp	Pseudochaenichthys_georgianus	Clarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Gymnoscopelus_spp	Pseudochaenichthys_georgianus	Clarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Kreftichthys_andersoni	Pseudochaenichthys_georgianus	Clarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Merluccius_hubbisi	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Merluccius_australis	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Salilota_australis	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Macruronus_magellanicus	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Cottoperca_trigloides	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Coelorinchus_fasciatus	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Iluocoetes_fimbriatus	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Cottunculus_granulosus	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Dissostichus_eleginoides	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	

Prey	Predator	Reference	Link	Observations
Ophidiidae	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Nototheniops_larseni	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Pleuragramma_antarcticum	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Micromesistius_australis	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Patagonotothen_ramsayi	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Electrona_spp	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Gymnoscopelus_spp	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Kreftichthys_andersoni	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Bathyraja_macloviana	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Patagonotothen_guntheri	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	Inferred from Patagonotothen_spp
Sprattus_fuegensis	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Doryteuthis_gahi	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Illex_argentinus	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Enteroctopus_megalocyathus	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Phytoplankton	Pseudosagitta_gazellae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pelagobia_longicirrata	Pseudosagitta_gazellae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Pseudosagitta_gazellae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Puffinus_griseus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Puffinus_griseus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Puffinus_griseus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	RhinCalanoida_gigas	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pelagobia_longicirrata	RhinCalanoida_gigas	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Cottopeca_trigloides	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dissostichus_eleginoides	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Ilucoetes_fimbriatus	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Sprattus_fuegensis	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Tinerfe_cyanea	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Salilota_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	Salpidae_spp			
Detritus	Serolidae	White_1972	https://nora.nerc.ac.uk/id/eprint/526227/1/bulletin27_11.pdf	
Copepoda_others	Serolidae	White_1972	https://nora.nerc.ac.uk/id/eprint/526227/1/bulletin27_11.pdf	
Amphipoda	Serolidae	White_1972	https://nora.nerc.ac.uk/id/eprint/526227/1/bulletin27_11.pdf	
Isopoda_others	Serolidae	White_1972	https://nora.nerc.ac.uk/id/eprint/526227/1/bulletin27_11.pdf	
Zooplankton	Spheniscus_magellanicus	Rosciano_etal_2016	https://doi.org/10.3354/meps11689	
Amphipoda	Spheniscus_magellanicus	Rosciano_etal_2016	https://doi.org/10.3354/meps11689	
Euphausiidae	Spheniscus_magellanicus	Rosciano_etal_2016	https://doi.org/10.3354/meps11689	
Sprattus_fuegensis	Spheniscus_magellanicus	Rosciano_etal_2016	https://doi.org/10.3354/meps11689	
Grimothea_gregaria	Spheniscus_magellanicus	Rosciano_etal_2016	https://doi.org/10.3354/meps11689	
Doryteuthis_gahi	Spheniscus_magellanicus	Rosciano_etal_2016	https://doi.org/10.3354/meps11689	
Enteroctopus_megalocyathus	Spheniscus_magellanicus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Spheniscus_magellanicus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Sprattus_fuegensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Eukrohnia_hamata	Sprattus_fuegensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Sprattus_fuegensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Ctenocalanoida_vanus	Sprattus_fuegensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Sprattus_fuegensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Sprattus_fuegensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Lagenorhynchus_australis	Squaliformes	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
Enteroctopus_megalocyathus	Squalus_acanthias	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Detritus	Terebratella_dorsata	Steele-Petrovic_1976	https://www.palass.org/publications/palaeontology-jo	
Electrona_spp	Thalassarche_chrysostoma	Arata, J. et al_2004	https://doi.org/10.1017/S095410200400207X	Inferred from Electrona_antartica and Electrona_carlsbergi
Gymnoscopelus_spp	Thalassarche_chrysostoma	Arata, J. et al_2004	https://doi.org/10.1017/S095410200400207X	Inferred from Gymnoscopelus_nicholsi and Gymnoscopelus_hintonoides
Kreftichthys_andersoni	Thalassarche_chrysostoma	Arata, J. et al_2004	https://doi.org/10.1017/S095410200400207X	

Prey	Predator	Reference	Link	Observations
Amphipoda	Thalassarche_chrysostoma	Arata, J. et al_2004	https://doi.org/10.1017/S095410200400207X	Inferred from Gammaridea
Anuopus_antarcticus	Thalassarche_chrysostoma	Arata, J. et al_2004	https://doi.org/10.1017/S095410200400207X	
Decapoda_others	Thalassarche_chrysostoma	Arata, J. et al_2004	https://doi.org/10.1017/S095410200400207X	
Themisto_gaudichaudii	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_carinatus	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_holotrachys	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Coelorinchus_fasciatus	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dissostichus_eleginoides	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pagurus_comptus	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_guntheri	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Necromass	Thalassarche_chrysostoma	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dissostichus_eleginoides	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_carinatus	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Micromesistius_australis	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_guntheri	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Macrourus_holotrachys	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Thalassarche_melanophris	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Electrona_spp	Thalassarche_melanophris	Arata_etal_2004	https://doi.org/10.1017/S095410200400207X	Inferred from Electrona antarctica and Electrona carlsbergi
Polychaeta	Themisto_gaudichaudii	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	Themisto_gaudichaudii	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Tinerfe_cyanea	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem

Prey	Predator	Reference	Link	Observations
Pseudosagitta_gazellae	Tinerfe_cyanea	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Calanoida	Trematomus_newnesi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Euphausiidae	Trematomus_newnesi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Ostracoda	Trematomus_newnesi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Polyplacophora	Trematomus_newnesi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Amphipoda	Trematomus_newnesi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Gastropoda_others	Trematomus_newnesi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Onoba sp
Isopoda_others	Trematomus_newnesi	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Isopoda_others	Trematomus_scotti	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Themisto_gaudichaudii	Trematomus_scotti	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Calanoida	Trematomus_scotti	GATEWAY	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Doryteuthis_gahi	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Illex_argentinus	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Merluccius_hubbisi	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Merluccius_australis	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Gonatus_antarcticus	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Dissostichus_eleginoides	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Micromesistius_australis	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Macruronus_magellanicus	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Lepidonotothen	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Pseudochaenichthys_georgianus	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Nototheniops_larseni	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Pleuragramma_antarcticum	Ziphiidae	Riccialdelli_etal_2017	https://doi.org/10.3354/meps12296	
Mesonychoteuthis_hamiltonii	Ziphiidae	Clarke_etal_1994	10.1017/S0954102094000234	
Decapoda_others	Ziphiidae	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	
Phytoplankton	Zooplankton			

Table 2: List of species for the food web of the Marine Protected Area Yaganes. TotDegree: total degree; TL: Trophic Level; KSI: Keystone Species Index. TaxLevel: Taxonomic Level. Ordered by the KSI.

Species	InDegree	OutDegree	TotDegree	Closeness	Betweenness	TL	KSI	TaxLevel
Dissostichus_eleginoides	29	13	42	0.00431	1568	5.29	1	Species
Patagonotothen_ramsayi	17	12	29	0.00383	232.2	4.22	6.67	Species
Micromesistius_australis	11	18	29	0.00377	446.3	4.88	7	Species
Themisto_gaudichaudii	2	29	31	0.00412	125.8	4	7	Species
Gymnoscopelus_spp	7	16	23	0.00395	183.3	3.5	7.33	Genus
Sprattus_fuegensis	6	25	31	0.00385	123.6	4.04	8.33	Species
Doryteuthis_gahi	4	30	34	0.00407	108.9	3.75	8.67	Species
Lagenorhynchus_australis	19	2	21	0.00383	175.7	4.74	8.67	Species
Batoteuthis_skolops	9	9	18	0.00355	1086	5.28	10.33	Species
Salilota_australis	10	9	19	0.00358	425.2	5.48	10.67	Species
Euphausiidae	2	35	37	0.00413	65.08	2.5	10.67	Family
Patagonotothen_guntheri	13	8	21	0.00366	162.5	3.85	11.33	Species
Grimothea_gregaria	3	24	27	0.00407	75.42	2.5	11.67	Species
Electrona_spp	5	16	21	0.0038	58.32	3.5	16	Genus
Enteroctopus_megalocyathus	4	14	18	0.00344	143.5	3.83	16	Species
Gonatus_antarcticus	6	9	15	0.0033	236	4.62	18	Species
Lamna_nasus	17	1	18	0.00377	36.92	5.33	18.33	Species
Pagurus_comptus	7	7	14	0.00347	110.1	2.64	18.33	Species
Macrourus_holotrachys	5	7	12	0.0034	113.2	4.92	19.67	Species
Mastigoteuthis_spp	6	1	7	0.00329	743.3	5.34	20	Genus
Pseudosagitta_gazellae	3	11	14	0.00346	76.49	3.5	20.67	Species
Polychaeta	2	11	13	0.00357	63.87	2.5	20.67	Class
Macrourus_carinatus	13	3	16	0.00382	19.46	4.49	21	Species
Illex_argentinus	7	6	13	0.00368	28.14	3.93	22	Species
Alluroteuthis_antarcticus	3	11	14	0.00319	200.2	4.68	22	Species
Otaria_byronia	13	1	14	0.00365	23.04	5.35	23	Species
Bathyraja_brachyurops	14	4	18	0.00355	18.7	5.19	24.33	Species
Harpagiferidae_sp	6	2	8	0.00339	70.75	3.38	24.67	Family
Decapoda_others	3	8	11	0.00328	82.03	3	25.33	Order
Champscephalus_gunnari	5	6	11	0.00324	97.41	3.71	25.67	Species
Moroteuthis_ingens	11	2	13	0.00319	88.76	4.72	26.33	Species
Odontheistes_spp	5	2	7	0.00348	30.37	3.6	26.67	Genus
Krefflichthys_andersoni	4	9	13	0.00361	13.81	3.62	27.67	Species

Species	InDegree	OutDegree	TotDegree	Closeness	Betweenness	TL	KSI	TaxLevel
Coelorinchus_fasciatus	4	9	13	0.00347	17.56	4.22	28	Species
Histioteuthis_eltaninae	10	1	11	0.00283	907	5.94	28.33	Species
Eukrohnia_hamata	1	6	7	0.00328	56.83	3.5	29.67	Species
Kondakovia_longimana	2	7	9	0.00308	82.32	4.89	30.67	Species
Myxine_spp	3	4	7	0.00327	33.15	2.55	31	Genus
Spheniscus_magellanicus	8	1	9	0.00361	6.8	4.31	31.33	Species
Lepidonotothen	7	3	10	0.0034	16.47	3.39	31.67	Genus
Tinerfe_cyanea	2	10	12	0.00337	17.02	4.75	31.67	Species
Notothenia_coriiceps	7	2	9	0.00311	63.4	3.56	32.33	Species
Ostracoda	2	7	9	0.00325	19.64	2	33.33	Class
Pseudorca_crassidens	23	0	23	0.00379	0	5.37	33.33	Species
Cottoperca_trigloides	9	4	13	0.00337	7.852	5.68	33.67	Species
Calanoida	1	12	13	0.00339	6.924	2	33.67	Order
Mirounga_leonina	14	1	15	0.0033	7.061	5.2	34.67	Species
Squaliformes	1	1	2	0.00288	111	5.74	35	Order
CtenoCalanoida_vanus	2	9	11	0.00332	9.289	3.25	35	Species
Martialia_hyadesi	6	6	12	0.00321	17.27	4.51	35	Species
Globicephala_melas_edwardii	18	0	18	0.00372	0	5.22	35	Species
Amphipoda	1	12	13	0.00327	10.35	3	35.33	Order
Thalassarche_chrysostoma	15	0	15	0.00379	0	4.52	35.33	Species
Mesonychoteuthis_hamiltonii	6	6	12	0.00309	19.72	5.49	35.67	Species
Balaenoptera_physalus	18	0	18	0.00366	0	4.73	35.67	Species
Phytoplankton	0	17	17	0.00366	0	1	36	NA
Pleuragramma_antarcticum	2	10	12	0.00332	6.619	3.25	36.33	Species
Ophidiidae	6	6	12	0.00338	5.131	5.11	36.33	Family
RhinCalanoida_gigas	2	7	9	0.00319	17.18	3.5	36.67	Species
Paralomis_granulosa	3	1	4	0.00294	69	3.35	37	Species
Galiteuthis_glacialis	2	6	8	0.00302	32.55	4.89	37	Species
Copepoda_others	1	9	10	0.00333	5.632	2	37.33	Class
Gastropoda_others	2	8	10	0.0031	17.92	2.75	37.33	Class
Pseudochaenichthys_georgianus	6	2	8	0.00337	4.817	4.35	38.33	Species
Trematomus_scotti	3	4	7	0.00323	11.13	3.67	38.33	Species
Ilucoetes_fimbriatus	1	10	11	0.00334	3.91	5.75	38.67	Species
Ziphiidae	14	0	14	0.00351	0	5.16	39	Family
Thalassarche_melanophris	10	0	10	0.00361	0	5.12	39	Species
Balaenoptera_borealis	10	0	10	0.0035	0	4.09	40.67	Species
Macruronus_magellanicus	3	3	6	0.00337	2.598	4.01	41	Species

Species	InDegree	OutDegree	TotDegree	Closeness	Betweenness	TL	KSI	TaxLevel
Lagenorhynchus_cruciger	13	0	13	0.00344	0	5.13	41	Species
Drepanopus_forcipatus	1	9	10	0.0033	2.456	2	41.33	Species
Neocalanoida_tonsus	1	9	10	0.0033	2.456	2	41.33	Species
Pagetopsis_sp	8	1	9	0.00316	5.368	4.53	42.33	Genus
Cirratulidae	2	1	3	0.00273	38.94	2	43	Family
Pseudechinus_magellanicus	4	2	6	0.00275	26.67	3.31	43.67	Species
Diomedea_exulans	6	0	6	0.00341	0	4.58	43.67	Species
Detritus	0	15	15	0.00324	0	1	45.33	NA
Isopoda_others	1	9	10	0.00304	4.399	2	46	Order
Merluccius_australis	1	6	7	0.00307	4.7	4	46.33	Species
Campylonotus_vagans	2	3	5	0.00313	3.689	2.75	46.33	Species
Zooplankton	1	4	5	0.00316	2.281	2	47	NA
Daption_capense	6	0	6	0.00326	0	4.55	47.67	Species
Nototheniops_larseni	1	4	5	0.00315	1.266	3.5	48.33	Species
Balaenoptera_bonaerensis	6	0	6	0.00324	0	3.96	48.33	Species
Merluccius_hubbsi	1	6	7	0.00318	0.2111	4.75	48.67	Species
Salpidae_spp	1	3	4	0.00311	1.618	2	48.67	Family
Orcinus_orca	11	0	11	0.00315	0	5.76	48.67	Species
Pelagobia_longicirrata	2	2	4	0.00268	14	4	49	Species
Megaptera_novaeangliae	3	0	3	0.00324	0	4.01	49.33	Species
Balaenoptera_acutorostrata	7	0	7	0.00315	0	4.24	50	Species
Polyplacophora	2	5	7	0.00292	3.435	2	50.67	Class
Liothyrella_uva	1	4	5	0.00303	1.48	2	50.67	Species
Magellania_venosa	1	4	5	0.00303	1.48	2	50.67	Species
Terebratella_dorsata	1	4	5	0.00303	1.48	2	50.67	Species
Cottunculus_granulosus	4	1	5	0.00311	0.1695	4.69	51	Species
Ichthyoplankton	2	2	4	0.00277	6.325	2.5	51.33	NA
Eudytes_chrysocome	4	0	4	0.00311	0	5.11	51.67	Species
Macroneustes_giganteus	4	0	4	0.00311	0	4.79	51.67	Species
Trematomus_newnesi	7	0	7	0.00307	0	3.32	52	Species
Fulmarus_glacialoides	3	0	3	0.00307	0	4.93	53.33	Species
Ardenna_gravis	3	0	3	0.00307	0	4.93	53.33	Species
Puffinus_griseus	3	0	3	0.00307	0	4.93	53.33	Species
Notothenia_rossi	6	0	6	0.00301	0	3.38	53.67	Species
Lissodelphis_peronii	5	0	5	0.00299	0	5.5	54.33	Species
Bathyraja_macloviana	1	3	4	0.00294	0.3095	5.75	54.67	Species
Lissodelphis_peroniia	4	0	4	0.00297	0	4.59	55	Species

Species	InDegree	OutDegree	TotDegree	Closeness	Betweenness	TL	KSI	TaxLevel
Macronectes_halli	3	0	3	0.00295	0	5.22	55.67	Species
Mactridae_spp	1	1	2	0.00286	0.7333	2	56	Family
Macrouridae	1	1	2	0.00278	0.7364	3.5	57	Family
Eudytes_chrysocome_chrysocome	3	0	3	0.00287	0	3.67	57	Species
Necromass	0	4	4	0.00282	0	1	57.67	NA
Serolidae	4	0	4	0.0028	0	3	58	Family
Globicephala_melaena	2	0	2	0.00282	0	4.79	58.33	Species
Anuropsus_antarcticus	1	1	2	0.00273	0.5	2	58.67	Species
Gorgonocephalus_chilensis	1	1	2	0.00275	0	4.5	59.67	Species
Ophiacantha_vivipara	4	0	4	0.00266	0	3.31	60	Species
Bathyteuthis_abyssicola	1	4	5	0.00249	0	6.28	60.33	Species
Filippovia_knipovitchi	3	1	4	0.00257	0	6.41	60.33	Species
Eubalaena_australis	4	0	4	0.00241	0	3.69	61.33	Species
Cumacea	0	1	1	0.00242	0	1	62	Order
Squalus_acanthias	1	0	1	0.0024	0	4.83	62.67	Species
Caperea_marginata	1	0	1	0.00235	0	3	63	Species
Anuropsus_australis	1	0	1	0.0023	0	2	63.33	Species
Foraminifera	0	2	2	0.00222	0	1	63.67	Phylum
Globicephala_melas	1	0	1	0.00228	0	5.72	63.67	Species
Cosmasterias_lurida	1	0	1	0.00204	0	4.31	64.33	Species

Table 3: Results of the degree distribution fit. Exponential and power law model families were tested, and AIC (Akaike Information Criterion) and BIC (Bayesian Information Criterion) were used to select the best fit (i.e., lower AIC and BIC). The exponential model is the best fit.

AIC	BIC	Model	Model family
-159	-153.8	Exp	Exponential
-41.82	-36.83	Power	PowerLaw
-31.17	-26.18	LogExp	Exponential
80.55	85.54	LogPower	PowerLaw