- Supplementary Material for 'Food web structure and species' role
- 2 in an oceanic Marine Protected Area in the subantarctic'
- 3 Methodology
- 4 Food web construction
- 5 The following figure and tables summarise the data we used to build the network of trophic (predator-prey)
- 6 interactions for the Marine Protected Area Yaganes ecosystem. Details of some results are also included.
- ⁷ Table 1 is the complete list of trophic interactions and references that confirm each of them. Table 2 is the
- s species list with details on trophic species cases (aggregated taxa) and its species-level properties (in-degree,
- out-degree, total degree, closeness, betweenness, trophic level and keystone species index). Table 3 shows
- 10 the results of the degree distribution fit of the food web.

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	Alluroteuthis_antarcticus	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Pleuragramma_antarcticum	Alluroteuthis_antarcticus	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Batoteuthis_skolops	Alluroteuthis_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. A1975	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	$Balaen optera_acutorostrata$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	$Balaen optera_acutorostrata$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	$Balaen optera_acutorostrata$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	$Balaen optera_acutorostrata$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	$Balaen optera_acutorostrata$	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
${ m Neocalanoida_tonsus}$	Balaenoptera_bonaerensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Euphausiidae	Balaenoptera_borealis	Bassoi_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	·
Gymnoscopelus_spp	Balaenoptera_borealis	Bassoi_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	

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Prey	Predator	Reference	Link	Observations
Krefftichthys_andersoni	Balaenoptera_borealis	Bassoi_etal_2020	https://doi.org/10.1007/s00300-019-02607-z	
Themisto_gaudichaudii	Balaenoptera_borealis	${\it Marina_etal_inrev}.$	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Balaenoptera_borealis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Balaenoptera_borealis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
CtenoCalanoida_vanus	Balaenoptera_borealis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Balaenoptera_borealis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Neocalanoida_tonsus	Balaenoptera_borealis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Balaenoptera_borealis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Electrona_spp	Balaenoptera_physalus	Bassoi_etal_2020	$\rm https://doi.org/10.1007/s00300\text{-}019\text{-}02607\text{-}z$	
Gymnoscopelus_spp	Balaenoptera_physalus	Bassoi_etal_2020	$\rm https://doi.org/10.1007/s00300\text{-}019\text{-}02607\text{-}z$	
Krefftichthys_andersoni	Balaenoptera_physalus	Bassoi_etal_2020	$\rm https://doi.org/10.1007/s00300\text{-}019\text{-}02607\text{-}z$	
Euphausiidae	Balaenoptera_physalus	Bassoi_etal_2020	$\rm https://doi.org/10.1007/s00300\text{-}019\text{-}02607\text{-}z$	
Grimothea_gregaria	Balaenoptera_physalus	${\bf Marina_etal_inrev}.$	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Balaenoptera_physalus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
$Neo calano ida_tons us$	Balaenoptera_physalus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Balaenoptera_physalus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
$Cteno Calano ida_vanus$	Balaenoptera_physalus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	Balaenoptera_physalus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
RhinCalanoida_gigas	Balaenoptera_physalus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Champsocephalus_gunnari	Balaenoptera_physalus	GATEWAy	${\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756}$	Inferred from Weddell Sea ecosystem
Alluroteuthis_antarcticus	Balaenoptera_physalus	GATEWAy	${\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756}$	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	$Balaen optera_physalus$	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_hamilton	ii Balaenoptera_physalus	GATEWAy	${\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756}$	Inferred from Weddell Sea ecosystem
Galiteuthis_glacialis	Balaenoptera_physalus	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea

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_megalocyathu	us 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	$https://doi.org/10.1017/S0025315403008373h; \ https://doi.org/10.1017/S0025315403008373h; \ https://doi.org/10.1017/S0025315403008374500083100008374000831000000000000000000000000000000000$	
Tinerfe_cyanea	Bathyraja_macloviana	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Batoteuthis_skolops	$Bathy teuth is _a byssicola$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Alluroteuthis_antarcticus	$Batoteuth is _skolops$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
$Bathyteuth is _a byssicola$	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	$Batoteuth is _skolops$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Galiteuthis_glacialis	$Batoteuth is _skolops$	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
$Histioteuth is _eltaninae$	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	$\rm https://doi.org/10.1007/s10021\text{-}021\text{-}00665\text{-}1$	Inferred from Scotia Sea ecosystem

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Calanoida Champoocephalus_gunnari GATEWAy https://doi.org/10.28829/IDIV.283-3-756 Inferred from W. Copepoda_others Champoocephalus_gunnari GATEWAy https://doi.org/10.28829/IDIV.283-3-756 Inferred from W. Notothenia_corlicopa Champoocephalus_gunnari GATEWAy https://doi.org/10.28829/IDIV.283-3-756 Inferred from W. Electrona_spp Champoocephalus_gunnari GATEWAy https://doi.org/10.28829/IDIV.283-3-756 Inferred from W. Electrona_spp Champoocephalus_gunnari GATEWAy https://doi.org/10.28829/IDIV.283-3-756 Inferred from W. Detritus Ciratulidae Jumars_ctal_2015 https://doi.org/10.18929/IDIV.283-3-756 Inferred from W. Detritus Ciratulidae Jumars_ctal_2015 https://doi.org/10.18929/IDIV.283-3-756 Inferred from W. Detritus Ciratulidae Jumars_ctal_2015 https://doi.org/10.1892-39-006-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10-2016-7-10-2016-10	Prey	Predator	Reference	Link	Observations
Pulychaeta Campytunutue_vagans Levrith_pure_com. NA Coppoda_cothere Caperea_marginata Goodall_etal_1985 10.1007/978-3-042-82275-0_77	Phytoplankton	Calanoida			
Copepoda_others Caperes_marginats Goodal_etal_1985 10.1007/978-3-612-82275-977 Caperoda_others Champocephalus_gunnari CATEWAy https://doi.org/10.23829/IDIV_283-3-756 inferred from W. Calancida Champocephalus_gunnari CATEWAy https://doi.org/10.23829/IDIV_283-3-756 inferred from W. Copepoda_others Circatulidae Jumas_etal_2015 https://doi.org/10.23829/IDIV_283-3-756 inferred from W. Copepoda_others Circatulidae Jumas_etal_2015 https://doi.org/10.23829/IDIV_283-3-756 inferred from W. Copepoda_others Colorinchus_fasciatus Asrina_etal_inrev. NA inferred from W. Copepoda_others Colorinchus_fasciatus Asrina_etal_inrev. NA inferred from M. Copepoda_others Colorinchus_fasciatus Marina_etal_inrev. NA inferred from M. Copepoda_others Copepoda_others Copes_ctal_2022 https://doi.org/10.1007/s10021-021-00665-1 inferred from M. Copepoda_others Copes_ctal_2022 https://doi.org/10.1007/s10021-021-00665-1 inferred from M. Copepoda_others Copes_ctal_2022 https://doi.org/10.1007/s10021-021-00665-1 inferred from M. Copepoda_others Cottoperc_trigloide Marina_etal_inrev. NA inferred from M. Cott	Detritus	$Campylonotus_vagans$	Lovrich_pers.com.	NA	
Euphaneilida Champsocephalus_gumari GATEWAy https://doi.org/10.25829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Calanoida Champsocephalus_gumari GATEWAy https://doi.org/10.25829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Copepoda_others Champsocephalus_gumari GATEWAy https://doi.org/10.25829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Electrona_spp Champsocephalus_gumari GATEWAy https://doi.org/10.25829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Electrona_spp Champsocephalus_gumari GATEWAy https://doi.org/10.25829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Petritus Ciratulidae Jumars_etal_2015 https://doi.org/10.126829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Portitus Ciratulidae Jumars_etal_2015 https://doi.org/10.126829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Portitus Ciratulidae Jumars_etal_2012 https://doi.org/10.126829/IDIV.285-3-756 Inferred from No. 10.25829/IDIV.285-3-756 Portitus Colorinchus_facciatus Marina_etal_inrev. NA Inferred from No. 10.25829/IDIV.285-3-3-756	Polychaeta	$Campylonotus_vagans$	Lovrich_pers.com.	NA	
Calanoida Champeocephalus_gumnari GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Inferred from Work Copepoda_others Champsocephalus_gumnari GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Inferred from Work Copepoda_others Champsocephalus_gumnari GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Inferred from Work Company Champsocephalus_gumnari GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Inferred from Work Champsocephalus_gumnari GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Inferred from	$Copepoda_others$	Caperea_marginata	Goodall_etal_1985	$10.1007/978$ -3- 642 - 82275 -9_77	
Copepoda_others Champsocephalus_gunnari GATEWAy https://doi.org/10.23829/IDIV.283-3-756 Inferred from W. Notothenia_coriiceps Champsocephalus_gunnari GATEWAy https://doi.org/10.23829/IDIV.283-3-756 Inferred from W. Electrona_spp Champsocephalus_gunnari GATEWAy https://doi.org/10.23829/IDIV.283-3-756 Inferred from W. Detritus Cirratulidae Jumara_ctal_2015 https://doi.org/10.13829/IDIV.283-3-756 Inferred from W. Detritus Cirratulidae Jumara_ctal_2015 https://doi.org/10.13829/IDIV.283-3-756 Inferred from W. Detritus Cirratulidae Jumara_ctal_2015 https://www.globalbioticinteractions.org/Prowse/TinteractionType=interactsWith&resultType=jon&sourceTaxon=Peraninifera Doryteuthis_gshi Coelorinchus_fasciatus Marina_ctal_inrev. NA Inferred from Bank. Themisto_gaudichaudii Coelorinchus_fasciatus Marina_ctal_inrev. NA Inferred from Bank. Themisto_gaudichaudii Coelorinchus_fasciatus Marina_ctal_inrev. NA Inferred from Bank. Phytoplankton Copepoda_othera Lopes_tal_2022 https://doi.org/10.1007/s10021-021-00665-1 Inferred from Bank. Grimothea_gregaria Computa Compoda_othera Lopes_tal_2022 https://doi.org/10.1007/s10021-021-00665-1 Inferred from Bank. Tinerfo_cyanea Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank. Dissostichus_cleginoides Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank. Dissostichus_	Euphausiidae	Champsocephalus_gunnari	GATEWAy	$\rm https://doi.org/10.25829/IDIV.283-3-756$	Inferred from Weddell Sea ecosystem
Notothenia_coriiceps Champsocephalus_gunnari GATEWAy https://doi.org/10.25829/IDIV.283-3-756 inferred from Williams and Carter of the Control	Calanoida	Champsocephalus_gunnari	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Electrona_spp Champsocephalus_gunari GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Inferred from Working Cirratulidae Jumars_etal_2015 https://doi.org/10.1146/annurev-marine-010814-020007 Foraminifera Cirratulidae GloBI https://www.globalbioticinteractions.org/phowse/%interactionType=interactionTyp	Copepoda_others	Champsocephalus_gunnari	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Petritus 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 Bank Pagurus_comptus Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Themisto_gaudichaudii Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Phytoplankton Copenda_others Lopes_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 inferred from Bank Grimothea_gregaria Cottopera_trigloides Marina_etal_inrev. NA Grimothea_gregaria Cottopera_trigloides Marina_etal_inrev. NA Tinerfe_cyanea Cottopera_trigloides Marina_etal_inrev. NA Dissostichus_eleginoides Cottopera_trigloides Marina_etal_inrev. NA Dissostichus_eleginoides Cottopera_trigloides Marina_etal_inrev. NA Bank Bank Dissostichus_eleginoides Cottopera_trigloides Marina_etal_inrev. NA Dissostichus_eleginoides Cottopera_trigloides Marina_etal_inrev. NA Bank Dissostichus_eleginoides Cottopera_trigloides Marina_etal_inrev. NA Dissostichus_eleginoides	Notothenia_coriiceps	Champsocephalus_gunnari	GATEWAy	${\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756}$	Inferred from Weddell Sea ecosystem
Foraminifera Cirratulidae Cioratulidae Colorinchus_fasciatus Marina_etal_inrev. NA	Electrona_spp	Champsocephalus_gunnari	GATEWAy	${\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756}$	Inferred from Weddell Sea ecosystem
Doryteuthis_gahi Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Pagurus_comptus Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Themisto_gaudichaudii Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Grimothea_gregaria Coelorinchus_fasciatus Marina_etal_inrev. NA Coelorinchus_fasciatus Ma	Detritus	Cirratulidae	Jumars_etal_2015	https://doi.org/10.1146/annurev-marine-010814-020007	
Pagurus_comptus Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Themisto_gaudichaudii Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Grimothea_gregaria Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Phytoplankton Copepoda_others Lopez_Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 Inferred from Bank Grimothea_gregaria Costoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Tinerfe_cyanea Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Bank Dissostichus_eleginoides Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Bank Bathyraja_brachyurops Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Bathyraja_brachyurops Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Bank Bathyraja_brachyurops Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Bank Bathyraja_brachyurops Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Bank Bank Bathyraja_brachyurops Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Bank Bank Bank Bank Bank Bank Bank	Foraminifera	Cirratulidae	GloBI		
Themisto_gaudichaudii Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Bank Crimothea_gregaria Coelorinchus_fasciatus Marina_etal_inrev. NA Inferred from Sank Crimothea_gregaria Coepoda_others Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 inferred from Sank Crimothea_gregaria Cosmasterias_lurida Marina_etal_inrev. NA inferred from Bank Crimothea_gregaria Cottoperca_trigloides Mari	Doryteuthis_gahi	${\bf Coelorinchus_fasciatus}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria Coelorinchus_fasciatus Marina_etal_inrev. NA Phytoplankton Copepoda_others Lopez_Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 Inferred from Shank Comments and Shank Comm	Pagurus_comptus	Coelorinchus_fasciatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton Copepoda_others Lopez_topez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 Inferred from Spank Communication of Communicat	Themisto_gaudichaudii	Coelorinchus_fasciatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudechinus_magellanicus Cosmasterias_lurida Marina_etal_inrev. NA Inferred from Bank Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Cottop	Grimothea_gregaria	Coelorinchus_fasciatus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Cottoperca_trigloides Marina_etal_inrev. NA	Phytoplankton	Copepoda_others	Lopez-Lopez_etal_2022	$\rm https://doi.org/10.1007/s10021\text{-}021\text{-}00665\text{-}1$	Inferred from Scotia Sea ecosystem
Tinerfe_cyanea Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Cottoperca_trigloides Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank Cottoperca_trigloides Marina_etal_inrev. NA	Pseudechinus_magellanicus	Cosmasterias_lurida	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Bank de Dissostichus_eleginoides Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank de Dissostichus_eleginoides Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank de Dissostichus_eleginoides de Dissostichus_ele	Grimothea_gregaria	$Cottoperca_trigloides$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank of Bank	Tinerfe_cyanea	${\bf Cottoperca_trigloides}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Bathyraja_brachyurops Cottoperca_trigloides Marina_etal_inrev. NA Inferred from Bank of Bank o	Dissostichus_eleginoides	${\bf Cottoperca_trigloides}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Bank of the state	Patagonotothen_ramsayi	${\bf Cottoperca_trigloides}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
	Bathyraja_brachyurops	${\bf Cottoperca_trigloides}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Dalik	Iluocoetes_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

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Prey	Predator	Reference	Link	Observations
Enteroctopus_megalocyath	us Cottunculus_granulosus	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	${\bf Cottunculus_granulosus}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Patagonotothen_ramsayi	${\bf Cottunculus_granulosus}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Coelorinchus_fasciatus	${\bf Cottunculus_granulosus}$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	$Cteno Calano ida_vanus$	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pseudosagitta_gazellae	$Cteno Calano ida_vanus$	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	$\rm https://doi.org/10.1007/s12526\text{-}019\text{-}00935\text{-}1$	
Magellania_venosa	Decapoda_others	Gordillo_etal_2019	$\rm https://doi.org/10.1007/s12526\text{-}019\text{-}00935\text{-}1$	
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.comClaudia_Boy	NA	
Sprattus_fuegensis	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	
Harpagiferidae_sp	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	
Lamna_nasus	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	
Merluccius_australis	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	
Salilota_australis	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	Inferred from Moridae
Electrona_spp	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	Inferred from Myctophidae

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Prey	Predator	Reference	Link	Observations
Gymnoscopelus_spp	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	Inferred from Myctophidae
Krefftichthys_andersoni	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	Inferred from Myctophidae
Myxine_spp	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	
Ophidiidae	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	
Bathyraja_brachyurops	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	Inferred from Rajidae
Bathyraja_macloviana	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	Inferred from Rajidae
Squaliformes	Dissostichus_eleginoides	pers.comClaudia_Boy	NA	Inferred from Squalidae
Iluocoetes_fimbriatus	Dissostichus_eleginoides	pers.comClaudia_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_megalocyath	us 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.comClaudia_Boy	NA	
Batoteuthis_skolops	Dissostichus_eleginoides	Lopez-Lopez_etal_2022	$\rm https://doi.org/10.1007/s10021\text{-}021\text{-}00665\text{-}1$	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	$\rm http://hdl.handle.net/1834/2336$	
Phytoplankton	Drepanopus_forcipatus	${\tt Marina_etal_inrev}.$	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 antartica and Electrona carlsbergi
Calanoida	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antartica and Electrona carlsbergi
Copepoda_others	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antartica and Electrona carlsbergi
Euphausiidae	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antartica and Electrona carlsbergi
Salpidae_spp	Electrona_spp	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Electrona antartica and Electrona carlsbergi
Enteroctopus_megalocyathu	ıs Enteroctopus_megalocyathus	s Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Grimothea_gregaria	Enteroctopus_megalocyathus	s Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Pagurus_comptus	Enteroctopus_megalocyathus	s Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Paralomis_granulosa	Enteroctopus_megalocyathus	s 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	Eudyptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	Eudyptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Doryteuthis_gahi	Eudyptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Enteroctopus_megalocyathu	as Eudyptes_chrysocome	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Amphipoda	Eudyptes_chrysocome_chrys	oRomaniano_etal_2016	https://doi.org/10.3354/meps11689	
Ichthyoplankton	Eudyptes_chrysocome_chrys	oRomaniano_etal_2016	https://doi.org/10.3354/meps11689	
Euphausiidae	Eudyptes_chrysocome_chrys	oRomanoiano_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	
Alluroteuthis_antarcticus	Filippovia_knipovitchi	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
$Bathy teuth is _a byssicola$	Filippovia_knipovitchi	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem

Batoteuthis_skolops Galiteuthis_glacialis Lopez-Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 Detritus Gastropoda_others Encyclopedia of Life 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 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_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Illex_argentinus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	Inferred from Scotia Sea
Themisto_gaudichaudii Fulmarus_glacialoides Marina_etal_inrev. NA Sprattus_fuegensis Fulmarus_glacialoides Marina_etal_inrev. NA Euphausiidae Galiteuthis_glacialis GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Batoteuthis_skolops Galiteuthis_glacialis Lopez_Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 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 Enteroctopus_megalocyathus Globicephala_melaen Amasilla_etal_2012 10.1007/s00300-012-1222-3 Calanoida Globicephala_melas Mansilla_etal_2012 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	ecosystem
Sprattus_fuegensis Fulmarus_glacialoides Marina_etal_inrev. NA Euphausiidae Galiteuthis_glacialis GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Batoteuthis_skolops Galiteuthis_glacialis Lopez-Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 Detritus Gastropoda_others Encyclopedia of Life https://eol.org/pages/18661450; https://eol.org/pages/51509488 Polychaeta Gastropoda_others Encyclopedia of Life https://eol.org/pages/1509488 Doryteuthis_gahi Globicephala_melaena Clarke_etal_1994 10.1017/s09541020940000234 Enteroctopus_megalocyathus_Globicephala_melaena Clarke_etal_1994 10.1017/s09541020940000234 Moroteuthis_ingens Globicephala_melas Mansilla_etal_2012 10.1007/s00300-012-1222-3 Calanoida Globicephala_melas_edwartiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwartiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus_Globicephala_melas_edwartiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_hubbsi Globicephala_melas_edwartiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908	Inferred from Burdwood Bank ecosystem
Euphausiidae Galiteuthis_glacialis GATEWAy https://doi.org/10.25829/IDIV.283-3-756 Batoteuthis_skolops Galiteuthis_glacialis Lopez-Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 Deritus 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_melaen Clarke_etal_1994 10.1017/S0954102094000234 Enteroctopus_megalocyathus Globicephala_melaen Clarke_etal_1994 10.1017/S0954102094000234 Moroteuthis_ingens Globicephala_melas Mansilla_etal_2012 10.1007/s00300-012-1222-3 Calanoida Globicephala_melas_edwardiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Illex_argentinus Globicephala_melas_edwardiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas	Inferred from Burdwood Bank ecosystem
Batoteuthis_skolops Galiteuthis_glacialis Lopez_Lopez_etal_2022 https://doi.org/10.1007/s10021-021-00665-1 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 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_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	Inferred from Burdwood Bank 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/S9954102094000234 Enteroctopus_megalocyathus Globicephala_melaena Clarke_etal_1994 10.1017/S9954102094000234 Moroteuthis_ingens Globicephala_melas Mansilla_etal_2012 10.1007/s00300-012-1222-3 Calanoida Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	Inferred from Weddell Sea ecosystem
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 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_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Illex_argentinus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	Inferred from Scotia Sea ecosystem
Doryteuthis_gahi Globicephala_melaena Clarke_etal_1994 10.1017/S0954102094000234 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_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Illex_argentinus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
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Moroteuthis_ingens Globicephala_melas Mansilla_etal_2012 10.1007/s00300-012-1222-3 Calanoida Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Illex_argentinus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
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Doryteuthis_gahi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Illex_argentinus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
Illex_argentinus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
Enteroctopus_megalocyathus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
Merluccius_hubbsi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2 Merluccius_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
$Merluccius_australis \qquad Globicephala_melas_edwardiiBecker_etal_2021 \qquad \qquad https://doi.org/10.1007/s00300-021-02908-200000000000000000000000000000000$	
Macruronus_magellanicus Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
Salilota_australis Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
$\label{linear_model} \begin{tabular}{ll} Micromesistius_australis & Globicephala_melas_edwardiiBecker_etal_2021 & https://doi.org/10.1007/s00300-021-02908-2 & https://doi.org/10.1007/s0030-021-02908-2 & https://doi.org/10.1007/s0030-02-02-02-02-02-02-02-02-02-02-02-02-02$	
Dissostichus_eleginoides Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
Cottoperca_trigloides Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
$Iluocoetes_fimbriatus \qquad Globicephala_melas_edwardiiBecker_etal_2021 \qquad \qquad https://doi.org/10.1007/s00300-021-02908-200000000000000000000000000000000$	
$Lepidonoto then \qquad \qquad Globice phala_melas_edward ii Becker_etal_2021 \qquad \qquad https://doi.org/10.1007/s00300-021-02908-200000000000000000000000000000000$	
$Pleuragramma_antarcticum Globicephala_melas_edwardiiBecker_etal_2021 \\ \qquad \qquad https://doi.org/10.1007/s00300-021-02908-200000000000000000000000000000000$	
Nototheniops_larseni Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
$Pseudochaenichthys_georgian \textbf{G}lobicephala_melas_edwardiiBecker_etal_2021 \\ https://doi.org/10.1007/s00300-021-02908-200000000000000000000000000000000$	
Patagonotothen_ramsayi Globicephala_melas_edwardiiBecker_etal_2021 https://doi.org/10.1007/s00300-021-02908-2	
$Patagonotothen_guntheri \qquad Globicephala_melas_edwardiiBecker_etal_2021 \qquad \qquad https://doi.org/10.1007/s00300-021-02908-200000000000000000000000000000000$	
$Euphausiidae \qquad Gonatus_antarcticus \qquad GATEWAy \qquad \qquad https://doi.org/10.25829/IDIV.283-3-756$	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
$Champsocephalus_gunnari$	Gonatus_antarcticus	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Batoteuthis_skolops	Gonatus_antarcticus	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
RhinCalanoida_gigas	Gorgonocephalus_chilensis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Detritus	Grimothea_gregaria	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Phytoplankton	Grimothea_gregaria	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Polychaeta	Grimothea_gregaria	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	${\bf Gymnoscopelus_spp}$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Calanoida	${\bf Gymnoscopelus_spp}$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Copepoda_others	${\bf Gymnoscopelus_spp}$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Decapoda_others	${\bf Gymnoscopelus_spp}$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Euphausiidae	${\bf Gymnoscopelus_spp}$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Ostracoda	${\bf Gymnoscopelus_spp}$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Salpidae_spp	${\bf Gymnoscopelus_spp}$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
Euphausiidae	Harpagiferidae_sp	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	Inferred from Harpagifer_antarcticus
Ostracoda	Harpagiferidae_sp	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	
Polyplacophora	Harpagiferidae_sp	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Amphipoda	Harpagiferidae_sp	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Gastropoda_others	Harpagiferidae_sp	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	Inferred from Onoba sp
Isopoda_others	Harpagiferidae_sp	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Batoteuthis_skolops	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Alluroteuthis_antarcticus	Histioteuthis_eltaninae	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem

Prey	Predator	Reference	Link	Observations
Bathyteuthis_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	$Histioteuth is _eltaninae$	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
${\bf Gymnoscopelus_spp}$	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	$\rm https://doi.org/10.1017/S0954102094000295$	
Euphausiidae	Illex_argentinus	Ivanovic_etal_1994	$\rm https://doi.org/10.1017/S0954102094000295$	Inferred from Euphausia lucens
Doryteuthis_gahi	Illex_argentinus	Ivanovic_etal_1994	https://doi.org/10.1017/S0954102094000295	
${\bf Gymnoscopelus_spp}$	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	Iluocoetes_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	$Krefftichthys_andersoni$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	
Calanoida	Krefftichthys_andersoni	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	
Copepoda_others	$Krefftichthys_andersoni$	Shreeve_etal_2009	https://www.int-res.com/articles/meps2009/386/m386p221.pdf	Inferred from Metridia sp
Euphausiidae	$Krefftichthys_andersoni$	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	n Lagenorhynchus_australis	Riccialdelli_etal_2010	$\rm https://doi.org/10.3354/meps08826$	

Prey	Predator	Reference	Link	Observations
Iluocoetes_fimbriatus	Lagenorhynchus_australis	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	Inferred from Zoarcidae
Odonthestes_spp	Lagenorhynchus_australis	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	
Myxine_spp	Lagenorhynchus_australis	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
Salilota_australis	Lagenorhynchus_australis	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
Enteroctopus_megalocyath	us Lagenorhynchus_australis	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
Doryteuthis_gahi	Lagenorhynchus_australis	Goodall_2009	https://doi.org/10.1016/B978-0-12-373553-9.00196-6	
Grimothea_gregaria	Lagenorhynchus_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	$Lagenor hynchus_austral is$	${\tt Marina_etal_inrev}.$	NA	Inferred from Burdwood Bank ecosystem
Merluccius_hubbsi	$Lagenor hynchus_australis$	Schiavini_etal_1997	$\rm https://oceanrep.geomar.de/id/eprint/53025$	
Decapoda_others	$Lagenor hynchus_australis$	Schiavini_etal_1997	$\rm https://oceanrep.geomar.de/id/eprint/53025$	
Ophidiidae	Lagenorhynchus_australis	Schiavini_etal_1997	$\rm https://ocean rep.geomar.de/id/eprint/53025$	
Merluccius_australis	Lagenorhynchus_australis	Schiavini_etal_1997	$\rm https://ocean rep.geomar.de/id/eprint/53025$	
Illex_argentinus	Lagenorhynchus_australis	Schiavini_etal_1997	$\rm https://ocean rep.geomar.de/id/eprint/53025$	
Mactridae_spp	Lagenorhynchus_australis	Schiavini_etal_1997	$\rm https://ocean rep.geomar.de/id/eprint/53025$	
Salpidae_spp	Lagenorhynchus_australis	Schiavini_etal_1997	$\rm https://ocean rep.geomar.de/id/eprint/53025$	
Electrona_spp	Lagenorhynchus_cruciger	Waerebeek_etal_2010	https://doi.org/10.47536/jcrm.v11i3.611	
Gymnoscopelus_spp	Lagenorhynchus_cruciger	Waerebeek_etal_2010	https://doi.org/10.47536/jcrm.v11i3.611	
Krefftichthys_andersoni	Lagenorhynchus_cruciger	Waerebeek_etal_2010	https://doi.org/10.47536/jcrm.v11i3.611	
Euphausiidae	Lagenorhynchus_cruciger	Bassoi_etal_2020	$\rm https://doi.org/10.1007/s00300\text{-}019\text{-}02607\text{-}z$	
Doryteuthis_gahi	Lagenorhynchus_cruciger	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Sprattus_fuegensis	Lagenorhynchus_cruciger	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Champsocephalus_gunnari	Lagenorhynchus_cruciger	GATEWAy	$\rm https://doi.org/10.25829/IDIV.2833756$	Inferred from Weddell Sea ecosystem
$Alluroteuth is _antarcticus$	Lagenorhynchus_cruciger	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Martialia_hyadesi	Lagenorhynchus_cruciger	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Lagenorhynchus_cruciger	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Kondakovia_longimana	Lagenorhynchus_cruciger	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Mesonychoteuthis_hamilton	nii Lagenorhynchus_cruciger	GATEWAy	$\rm https://doi.org/10.25829/IDIV.2833756$	Inferred from Weddell Sea ecosystem
Galiteuthis_glacialis	Lagenorhynchus_cruciger	GATEWAy	$\rm https://doi.org/10.25829/IDIV.2833756$	Inferred from Weddell Sea ecosystem
Merluccius_hubbsi	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14865	
Salilota_australis	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	Infrered from Moridae
Macrourus_holotrachys	Lamna_nasus	Belleggia, M. et al_2021	https://onlinelibrary.wiley.com/doi/abs/10.1111/jfb.14866	
Coelorinchus_fasciatus	Lamna_nasus	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://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Merluccius_australis	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Ophidiidae	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	$\begin{array}{c} \text{Inferred from} \\ \text{Genypterus_blacodes} \end{array}$
Bathyraja_brachyurops	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	Inferred from Bathyraja_brachyurops
Bathyraja_macloviana	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Micromesistius_australis	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Sprattus_fuegensis	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Illex_argentinus	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Enteroctopus_megalocyathu	is Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Decapoda_others	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Euphausiidae	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Grimothea_gregaria	Lamna_nasus	Belleggia, M. et al_2021	https://online library.wiley.com/doi/abs/10.1111/jfb.14866	
Grimothea_gregaria	Lepidonotothen	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	Inferred from Munidae
Euphausiidae	Lepidonotothen	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Ostracoda	Lepidonotothen	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Polyplacophora	Lepidonotothen	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Amphipoda	Lepidonotothen	Moreira_etal_2014	https://doi.org/10.1007/s00300-014-1545-3	$\begin{array}{c} \text{Inferred from} \\ \text{Gondogeneia_antarctica} \end{array}$
${\it Gastropoda_others}$	Lepidonotothen	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	Inferred from Onoba sp
Isopoda_others	Lepidonotothen	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	Inferred from Gnathia sp
Detritus	Liothyrella_uva	Steele-Petrovic_1976	https://www.palass.org/publications/palaeontology-jo	
${\bf Micromesistius_australis}$	Lissodelphis_peronii	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
Coelorinchus_fasciatus	Lissodelphis_peronii	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
$Iluocoetes_fimbriatus$	Lissodelphis_peronii	Riccialdelli_etal_2010	$\rm https://doi.org/10.3354/meps08826$	
Doryteuthis_gahi	Lissodelphis_peronii	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
Illex_argentinus	Lissodelphis_peronii	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
Doryteuthis_gahi	Lissodelphis_peroniia	Goodall_etal_1985	$10.1007/978\hbox{-}3\hbox{-}642\hbox{-}82275\hbox{-}9_77$	
Electrona_spp	Lissodelphis_peroniia	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	Inferred from Myctophidae
${\bf Gymnoscopelus_spp}$	Lissodelphis_peroniia	Goodall_etal_1985	10.1007/978-3-642-82275-9_77	$\begin{array}{c} \text{Inferred from} \\ \text{Myctophidae} \end{array}$
$Kreff tichthys_andersoni$	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
Iluocoetes_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	${\tt Marina_etal_inrev}.$	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
${\bf Gymnoscopelus_spp}$	Martialia_hyadesi	GATEWAy	${\rm https:}//{\rm doi.org}/10.25829/{\rm IDIV.2833756}$	Inferred from Weddell Sea ecosystem
$Champsocephalus_gunnari$	Martialia_hyadesi	GATEWAy	${\rm https:}//{\rm doi.org}/10.25829/{\rm IDIV.2833756}$	Inferred from Weddell Sea ecosystem
$Alluro teuth is _antarcticus$	${\bf Mastigoteuthis_spp}$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
$Bathyteuth is _abyssicola$	${\bf Mastigoteuthis_spp}$	Lopez-Lopez_etal_2022	$\rm https://doi.org/10.1007/s10021\text{-}021\text{-}00665\text{-}1$	Inferred from Scotia Sea ecosystem
$Batoteuth is _skolops$	${\bf Mastigoteuthis_spp}$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Calanoida	${\bf Mastigoteuthis_spp}$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Dissostichus_eleginoides	${\bf Mastigoteuthis_spp}$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Euphausiidae	${\bf Mastigoteuthis_spp}$	Lopez-Lopez_etal_2022	https://doi.org/10.1007/s10021-021-00665-1	Inferred from Scotia Sea ecosystem
Euphausiidae	Megaptera_novaeangliae	Bassoi_etal_2020	$\rm https://doi.org/10.1007/s00300\text{-}019\text{-}02607\text{-}z$	
Sprattus_fuegensis	Megaptera_novaeangliae	Haro_etal_2016	https://repositorio.uchile.cl/handle/2250/141272	
Grimothea_gregaria	Megaptera_novaeangliae	Haro_etal_2016	${\rm https://repositorio.uchile.cl/handle/2250/141272}$	
Decapoda_others	Merluccius_australis	Dunn_etal_2010	https://doi.org/10.1371/journal.pone.0013647	
Doryteuthis_gahi	Merluccius_hubbsi	Brunetti_etal_1999	$\rm http://hdl.handle.net/1834/2336$	
$Alluro teuth is _antarcticus$	Mesonychoteuthis_hamilton	nii GATEWAy	${\rm https:}//{\rm doi.org}/10.25829/{\rm IDIV.2833756}$	Inferred from Weddell Sea ecosystem
Martialia_hyadesi	Mesonychoteuthis_hamilton	nii GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
$Moroteuth is_ingens$	Mesonychoteuthis_hamilton	nii GATEWAy	$\rm https://doi.org/10.25829/IDIV.283-3-756$	Inferred from Weddell Sea ecosystem
Kondakovia_longimana	Mesonychoteuthis_hamilton	nii GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Gonatus_antarcticus	Mesonychoteuthis_hamilton	nii GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Eukrohnia_hamata	Mesonychoteuthis_hamilton	nii 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
${\it Micromesistius_australis}$	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
${\bf Pseudosagitta_gazellae}$	Micromesistius_australis	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Eukrohnia_hamata	${\bf Micromesistius_australis}$	${\bf Marina_etal_inrev}.$	NA	Inferred from Burdwood Bank ecosystem
Themisto_gaudichaudii	${\bf Micromesistius_australis}$	${\bf Marina_etal_inrev}.$	NA	Inferred from Burdwood Bank ecosystem
Myxine_spp	${\bf Micromesistius_australis}$	Brickle_etal_2009	$\rm https://doi.org/10.1016/j.ecss.2009.06.007$	
Macrouridae	${\bf Micromesistius_australis}$	FishBase	http://www.fishbase.us/TrophicEco/DietCompoSumma	
Doryteuthis_gahi	Mirounga_leonina	Bassoi_etal_2020	$\rm https://doi.org/10.1007/s00300-019-02607-z$	
Electrona_spp	Mirounga_leonina	Daneri_etal_2002	https://link.springer.com/article/10.1007/s00300-002-0408-5	Inferred from Electrona antartica and Electrona carlsbergi
${\bf Gymnoscopelus_spp}$	Mirounga_leonina	Daneri_etal_2002	https://link.springer.com/article/10.1007/s00300-002-0408-5	Inferred from Gymnoscopelus nicholsi and Gymnoscopelus hintonoides
$Kreff tichthys_andersoni$	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	
$Champsocephalus_gunnari$	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_hamilton	ii 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
${\bf Trematomus_scotti}$	Mirounga_leonina	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Euphausiidae	$Moroteuth is_ingens$	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Calanoida	$Moroteuth is_ingens$	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
$Copepoda_others$	$Moroteuth is _ingens$	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	$Moroteuth is_ingens$	GATEWAy	$\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756$	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_hamilton	ii 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
Pleuragramma_antarcticum	$Moroteuth is_ingens$	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
Electrona_spp	$Moroteuth is_ingens$	GATEWAy	$\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756$	Inferred from Weddell Sea ecosystem
${\bf Gymnoscopelus_spp}$	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.global biotic interactions.org/browse/? interactions.org	
Pagurus_comptus	Myxine_spp	GloBI	https://www.globalbiotic interactions.org/browse/? interactions.org/	
Phytoplankton	Neocalanoida_tonsus	${\bf Marina_etal_inrev}.$	NA	Inferred from Burdwood Bank ecosystem
Gastropoda_others	Notothenia_coriiceps	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	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	$\rm https://doi.org/10.1007/s00300-014-1545-3$	
Ostracoda	Notothenia_coriiceps	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300-014-1545-3$	
Polyplacophora	Notothenia_coriiceps	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Isopoda_others	$Noto then ia_corii ceps$	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
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	$\rm https://doi.org/10.1007/s00300-014-1545-3$	
Ostracoda	Notothenia_rossi	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300-014-1545-3$	
Polyplacophora	Notothenia_rossi	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300-014-1545-3$	
Amphipoda	Notothenia_rossi	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300-014-1545-3$	
Gastropoda_others	Notothenia_rossi	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300-014-1545-3$	Inferred from Onoba sp
Isopoda_others	Notothenia_rossi	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300-014-1545-3$	
Euphausiidae	$Noto theniops_larseni$	Kock_1985		Inferred from Nototheniops larseni
Polychaeta	Odonthestes_spp	Garcia_1994	${\rm https://hal.sorbonne\text{-}universite.fr/hal-03047971}$	Inferred from Odontesthes smitti
Isopoda_others	Odonthestes_spp	Garcia_1994	${\rm https://hal.sorbonne\text{-}universite.fr/hal-03047971}$	Inferred from Odontesthes smitti
${\bf Decapoda_others}$	Odonthestes_spp	Garcia_1994	${\rm https://hal.sorbonne\text{-}universite.fr/hal-03047971}$	Inferred from Odontesthes 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	$\begin{array}{c} \text{Inferred from} \\ \text{Odontesthes nigricans} \end{array}$
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_megalocyathu	us Ophidiidae	Marina_etal_inrev.	NA	Inferred from Burdwood Bank ecosystem
Mirounga_leonina	Orcinus_orca	Waerebeek_etal_2010	$\rm https://doi.org/10.47536/jcrm.v11i3.611$	
$Lagenor hynchus_australis$	Orcinus_orca	Goodall_2009	$\rm https://doi.org/10.1016/B978\text{-}0\text{-}12\text{-}373553\text{-}9.00196\text{-}6$	
Otaria_byronia	Orcinus_orca	Goodall_etal_1985	$10.1007/978\hbox{-}3\hbox{-}642\hbox{-}82275\hbox{-}9_77$	Inferred from Otariidae
Spheniscus_magellanicus	Orcinus_orca	Goodall_etal_1985	$10.1007/978\hbox{-}3\hbox{-}642\hbox{-}82275\hbox{-}9_77$	
$Champsocephalus_gunnari$	Orcinus_orca	GATEWAy	$\rm https://doi.org/10.25829/IDIV.2833756$	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_hamilton	nii Orcinus_orca	GATEWAy	$\rm https://doi.org/10.25829/IDIV.283-3-756$	$\begin{array}{c} \text{Inferred from Weddell Sea} \\ \text{ecosystem} \end{array}$
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_megalocyathu	s 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	${\rm https://doi.org/10.25829/IDIV.283\text{-}3\text{-}756}$	Inferred from Weddell Sea ecosystem
Electrona_spp	Pagetopsis_sp	GATEWAy	https://doi.org/10.25829/IDIV.283-3-756	Inferred from Weddell Sea ecosystem
${\tt Gymnoscopelus_spp}$	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
${\bf Trematomus_scotti}$	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	${ m Marina_etal_inrev}.$	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	$Patagonotothen_guntheri$	${\tt Marina_etal_inrev}.$	NA	Inferred from Burdwood Bank ecosystem
Drepanopus_forcipatus	${\bf Patagonotothen_guntheri}$	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	$https://doi.org/10.1007/s12526-019-00935-1; \ https://d$	
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	$Patagonotothen_ramsayi$	${\tt Marina_etal_inrev}.$	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	$\rm https://doi.org/10.1007/s12526\text{-}019\text{-}00935\text{-}1$	
Magellania_venosa	$Patagonotothen_ramsayi$	${\bf Gordillo_etal_2019}$	https://doi.org/10.1007/s12526-019-00935-1	
$Terebratella_dorsata$	$Patagonotothen_ramsayi$	${\bf Gordillo_etal_2019}$	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	$\rm https://doi.org/10.1007/BF00443949$	
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	$\rm https://doi.org/10.1080/00785326.2004.10410216$	
Foraminifera	Pseudechinus_magellanicus	Penchaszadeh_etal_2004	$\rm https://doi.org/10.1080/00785326.2004.10410216$	
Gastropoda_others	Pseudechinus_magellanicus	${\tt Penchaszadeh_etal_2004}$	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_georgia	n Glarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Decapoda_others	Pseudochaenichthys_georgia	n Cslarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Euphausiidae	Pseudochaenichthys_georgia	n Cslarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Electrona_spp	Pseudochaenichthys_georgia	n Glarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Gymnoscopelus_spp	Pseudochaenichthys_georgia	n Glarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Krefftichthys_andersoni	Pseudochaenichthys_georgia	n Glarke_etal_2007	https://doi.org/10.1017/S0954102008000990	
Merluccius_hubbsi	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	$\rm https://doi.org/10.3354/meps08826$	
Cottunculus_granulosus	Pseudorca_crassidens	Riccialdelli_etal_2010	$\rm https://doi.org/10.3354/meps08826$	
Dissostichus_eleginoides	Pseudorca_crassidens	Riccialdelli_etal_2010	https://doi.org/10.3354/meps08826	

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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	$\rm https://doi.org/10.3354/meps08826$	
Electrona_spp	Pseudorca_crassidens	Riccialdelli_etal_2010	$\rm https://doi.org/10.3354/meps08826$	
${\tt Gymnoscopelus_spp}$	Pseudorca_crassidens	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
$Krefftichthys_andersoni$	Pseudorca_crassidens	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
Bathyraja_macloviana	Pseudorca_crassidens	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
$Patagonotothen_guntheri$	Pseudorca_crassidens	Riccialdelli_etal_2010	$\rm https://doi.org/10.3354/meps08826$	$\begin{array}{c} \text{Inferred from} \\ \text{Patagonotothen_spp} \end{array}$
Sprattus_fuegensis	Pseudorca_crassidens	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
Doryteuthis_gahi	Pseudorca_crassidens	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
Illex_argentinus	Pseudorca_crassidens	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
Enteroctopus_megalocyathu	s Pseudorca_crassidens	$Riccialdelli_etal_2010$	$\rm https://doi.org/10.3354/meps08826$	
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	${\bf Pseudosagitta_gazellae}$	${\tt Marina_etal_inrev}.$	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
Cottoperca_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
Iluocoetes_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_megalocyathu	us 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_megalocyathu	us 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 Gymno- scopelus_hintonoides
Krefftichthys_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
Anuropus_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 antartica 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	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Euphausiidae	Trematomus_newnesi	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Ostracoda	$Trematomus_newnesi$	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Polyplacophora	$Trematomus_newnesi$	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Amphipoda	$Trematomus_newnesi$	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
$Gastropoda_others$	$Trematomus_newnesi$	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	Inferred from Onoba sp
Isopoda_others	Trematomus_newnesi	Moreira_etal_2014	$\rm https://doi.org/10.1007/s00300\text{-}014\text{-}1545\text{-}3$	
Isopoda_others	Trematomus_scotti	GATEWAy	$\rm https://doi.org/10.25829/IDIV.283-3-756$	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	$\rm https://doi.org/10.3354/meps12296$	
Merluccius_hubbsi	Ziphiidae	Riccialdelli_etal_2017	$\rm https://doi.org/10.3354/meps12296$	
Merluccius_australis	Ziphiidae	Riccialdelli_etal_2017	$\rm https://doi.org/10.3354/meps12296$	
Gonatus_antarcticus	Ziphiidae	Riccialdelli_etal_2017	$\rm https://doi.org/10.3354/meps12296$	
Dissostichus_eleginoides	Ziphiidae	Riccialdelli_etal_2017	$\rm https://doi.org/10.3354/meps12296$	
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_georgia	an Z iphiidae	Riccialdelli_etal_2017	$\rm https://doi.org/10.3354/meps12296$	
Nototheniops_larseni	Ziphiidae	Riccialdelli_etal_2017	$\rm https://doi.org/10.3354/meps12296$	
Pleuragramma_antarcticum	Ziphiidae	Riccialdelli_etal_2017	$\rm https://doi.org/10.3354/meps12296$	
Mesonychoteuthis_hamilton	ii Ziphiidae	Clarke_etal_1994	10.1017/S0954102094000234	
Decapoda_others	Ziphiidae	Goodall_etal_1985	$10.1007/978\hbox{-}3\hbox{-}642\hbox{-}82275\hbox{-}9_77$	
Phytoplankton	Zooplankton			

Table 2: List of species, including species-level properties, 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	Betweeness	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
Champsocephalus_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
Odonthestes_spp	5	2	7	0.00348	30.37	3.6	26.67	Genus

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Species	InDegree	OutDegree	TotDegree	Closeness	Betweeness	TL	KSI	TaxLevel
Krefftichthys_andersoni	4	9	13	0.00361	13.81	3.62	27.67	Species
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
Iluocoetes_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

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Species	InDegree	OutDegree	TotDegree	Closeness	Betweeness	TL	KSI	TaxLevel
Macruronus_magellanicus	3	3	6	0.00337	2.598	4.01	41	Species
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
Eudyptes_chrysocome	4	0	4	0.00311	0	5.11	51.67	Species
Macronectes_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

Species	InDegree	OutDegree	TotDegree	Closeness	Betweeness	TL	KSI	TaxLevel
Lissodelphis_peroniia	4	0	4	0.00297	0	4.59	55	Species
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
Eudyptes_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
Anuropus_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
Anuropus_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 family	Model
-159	-153.8	Exponential	Exp
-41.82	-36.83	PowerLaw	Power
-31.17	-26.18	Exponential	LogExp
80.55	85.54	PowerLaw	LogPower