

Appendix 2. Mean megafaunal density along the MARS cable route and control sites, with phylum (or subphylum) and group designations. The density (# 100 m⁻²) of each taxon at regional video transects (n= 104) in all years and at all depths were averaged to produce an overall average density. SD = standard deviation. Percent indicates the percentage of the total average faunal density (158 megafaunal individuals 100 m⁻²).

Phylum	Group	Taxa	Mean Density SD		%
Cnidaria	Actiniaria	Actiniidae sp. 1	1.01	2.61	0.64
Cnidaria	Actiniaria	Actiniaria – unident.	0.64	2.20	0.41
Cnidaria	Actiniaria	Actinostolidae sp. 3	3.54	6.05	2.24
Osteichthyes	Agonidae	Agonidae – unident.	0.10	0.45	0.06
Osteichthyes	Alepocephalidae	<i>Alepocephalus tenebrosus</i>	0.01	0.10	0.01
Echinodermata	Echinoidea	<i>Strongylocentrotus fragilis</i>	11.50	33.75	7.27
Osteichthyes	Anoplopomatidae	<i>Anoplopoma fimbria</i>	0.04	0.24	0.02
Cnidaria	Alcyonacea	<i>Anthomastus ritteri</i>	0.09	0.45	0.06
Cnidaria	Pennatulacea	<i>Anthoptilum grandiflorum</i>	0.05	0.26	0.03
Cnidaria	Anthozoa	Anthozoa – unident.	0.03	0.17	0.02
Osteichthyes	Moridae	<i>Antimora microlepis</i>	0.08	0.36	0.05
Porifera	Porifera	<i>Asbestopluma</i> sp.	0.00	0.00	0.00
Echinodermata	Asteroidea	Asteroidea – unident.	0.50	1.53	0.32
Echinodermata	Ophiuroidea	<i>Asteronyx</i> sp.	0.16	0.62	0.10
Chondrichthyes	Rajiformes	<i>Bathyraja kincaidii</i>	0.03	0.17	0.02
Echinodermata	Asteroidea	<i>Benthopecten</i> sp.	0.01	0.10	0.01
Osteichthyes	Ophidiidae	<i>Bothrocara brunneum</i>	0.02	0.20	0.01
Arthropoda	Decapoda	Brachyura – unident.	0.01	0.10	0.01
Echinodermata	Echinoidea	<i>Brisaster</i> sp.	0.11	0.39	0.07
Mollusca	Gastropoda	<i>Calliostoma platinum</i>	0.39	1.60	0.25
Arthropoda	Decapoda	<i>Cancer</i> sp.	0.03	0.22	0.02
Osteichthyes	Liparidae	<i>Careproctus melanurus</i>	0.04	0.19	0.02
Arthropoda	Caridea	Caridea – unident.	0.05	0.40	0.03
Arthropoda	Caridea	Caridea sp.1	0.09	0.40	0.05
Cnidaria	Ceriantharia	Ceriantharia sp. 1	0.00	0.00	0.00
Cnidaria	Ceriantharia	Ceriantharia sp. 2	0.58	2.22	0.37
Cnidaria	Ceriantharia	Ceriantharia sp. 3	0.13	0.58	0.09
Cnidaria	Ceriantharia	Ceriantharia – unident.	1.21	2.17	0.76
Arthropoda	Decapoda	<i>Chionoecetes tanneri</i>	1.92	6.66	1.22
Arthropoda	Decapoda	<i>Chorilia longipes</i>	0.09	0.35	0.06
Cnidaria	Corallimorphidae	<i>Corallimorphus pilatus</i>	0.13	0.52	0.08
Osteichthyes	Macrouridae	<i>Coryphaenoides acrolepis</i>	0.19	0.90	0.12
Arthropoda	Decapoda	Decapoda – unident.	0.02	0.14	0.01
Arthropoda	Anomura	Diogenidae spp.	0.50	1.74	0.32
Mollusca	Cephalopoda	<i>Doryteuthis opalescens</i>	0.22	1.45	0.14
Mollusca	Cephalopoda	<i>Dosidicu sgigas</i>	0.08	0.41	0.05
Cnidaria	Rhodaliidae	<i>Dromalia alexandri</i>	0.04	0.28	0.02
Echiura	Echiura	Echiura- – unident.	0.05	0.26	0.03

Phylum	Group	Taxa	Mean Density SD		%
Osteichthyes	Pleuronectiformes	<i>Embassichthys bathybius</i>	0.18	0.54	0.12
Vertebrata	Myxinidae	<i>Eptatretu sstoutii</i>	0.15	0.55	0.10
Echinodermata	Crinoidea	<i>Florametia serratissima</i>	0.21	1.33	0.13
Cnidaria	Pennatulacea	<i>Funiculina</i> sp.	31.99	79.74	20.22
Mollusca	Gastropoda	Gastropoda – unident.	10.09	29.35	6.38
Mollusca	Gastropoda	Gastropoda sp. 3	0.11	0.70	0.07
Mollusca	Gastropoda	Gastropoda sp. 4	0.01	0.10	0.01
Osteichthyes	Pleuronectiformes	<i>Glyptocephalu szachirus</i>	0.84	1.97	0.53
Cnidaria	Gorgonacea	Gorgonacea – unident.	0.01	0.10	0.01
Echinodermata	Asteroidea	? <i>Henricia</i> sp. 1	0.07	0.38	0.04
Echinodermata	Asteroidea	<i>Myxoderma</i> sp.	0.02	0.14	0.01
Osteichthyes	Hexagrammidae	Hexagrammidae – unident.	0.14	0.58	0.09
Echinodermata	Asteroidea	<i>Hippasteria</i> spp.	0.17	0.63	0.11
Echinodermata	Holothuroidea	Holothuroidea – unident.	0.05	0.32	0.03
Chondrichthyes	Chimaeridae	<i>Hydrolagus colliei</i>	0.01	0.10	0.01
	Detritus	Laminariales	0.48	0.93	0.30
Brachipoda	Brachipoda	<i>Laqueu scalifornianus</i>	0.06	0.59	0.04
Osteichthyes	Liparidae	Liparidae – unident.	0.01	0.10	0.01
Cnidaria	Actiniaria	<i>Liponema brevicornis</i>	0.06	0.27	0.04
Cnidaria	Hydrozoa	Little Red Jellies Complex	0.07	0.25	0.04
Echinodermata	Asteroidea	<i>Luidia foliolata</i>	0.31	0.86	0.19
Osteichthyes	Stichaeidae	<i>Lumpenu ssagitta</i>	0.42	2.11	0.27
Osteichthyes	Zoarcidae	<i>Lycenchelys</i> spp.	1.23	3.07	0.78
Osteichthyes	Zoarcidae	<i>Lycodapus</i> sp.	0.14	0.74	0.09
Osteichthyes	Zoarcidae	<i>Lycodes cortezianus</i>	0.23	0.70	0.15
Osteichthyes	Zoarcidae	<i>Lycodes diapterus</i>	0.05	0.24	0.03
Osteichthyes	Zoarcidae	<i>Lyconem abarbatum</i>	0.01	0.10	0.01
Osteichthyes	Pleuronectiformes	<i>Lyopsetta exilis</i>	0.01	0.10	0.01
Echinodermata	Asteroidea	<i>Mediaster</i> spp.	4.07	10.57	2.57
Urochordata	Urochordata	<i>Megalodicopia hians</i>	0.10	0.80	0.07
Osteichthyes	Merlucciidae	<i>Merluccius productus</i>	0.37	1.53	0.24
Cnidaria	Actiniaria	<i>Isosicyonis</i> sp.	11.50	24.48	7.27
Cnidaria	Actiniaria	<i>Metridium farcimen</i>	0.36	1.05	0.22
Osteichthyes	Pleuronectiformes	<i>Microstomus pacificus</i>	0.79	1.84	0.50
Arthropoda	Malacostraca	Mysida – unident.	0.07	0.33	0.04
Mollusca	Gastropoda	<i>Neptunea aminata</i>	1.24	2.80	0.78
Mollusca	Gastropoda	Nudibranchia – unident.	0.02	0.20	0.01
Mollusca	Cephalopoda	<i>Octopus rubescens</i>	0.17	0.67	0.11
Osteichthyes	Ophidiidae	<i>Ophidion scrippsae</i>	0.02	0.15	0.01
Osteichthyes	Hexagrammidae	<i>Ophiodo nelongatus</i>	0.00	0.00	0.00
Echinodermata	Ophiuroidea	Ophiuroidea spp.	6.97	32.16	4.41
Osteichthyes	Osmeridae	Osmeridae – unident.	0.15	0.76	0.10
Osteichthyes	Osteichthyes	Osteichthyes – unident.	0.29	1.08	0.18

Phylum	Group	Taxa	Mean Density SD		%
Arthropoda	Caridea	<i>Pandalus platyceros</i>	0.03	0.29	0.02
Echinodermata	Holothuroidea	<i>Pannychia moseleyi</i>	1.18	11.37	0.75
Arthropoda	Anomura	<i>Paralithodes</i> sp.	0.05	0.35	0.03
Echinodermata	Holothuroidea	<i>Parastichopus</i> spp.	0.89	2.29	0.57
Chondrichthyes	Scyliorhinidae	<i>Parmaturus xaniurus</i>	0.05	0.32	0.03
Cnidaria	Pennatulacea	<i>Pennatula</i> spp.	0.71	2.08	0.45
Cnidaria	Pennatulacea	Pennatulacea – unident.	11.43	20.45	7.22
	Detritus	<i>Phyllospadix</i>	10.41	17.05	6.58
Mollusca	Gastropoda	<i>Pleurobranchaea californica</i>	0.13	0.46	0.08
Osteichthyes	Pleuronectiformes	Pleuronectiformes – unident.	2.69	6.10	1.70
Porifera	Porifera	Porifera	1.58	5.12	1.00
Echinodermata	Holothuroidea	<i>Psolus squamatus</i>	8.93	51.41	5.64
Cnidaria	Pennatulacea	<i>Ptilosarcu surneyi</i>	0.11	0.48	0.07
Echinodermata	Asteroidea	<i>Pycnopodia elianthoides</i>	0.00	0.00	0.00
Chondrichthyes	Rajiformes	<i>Raja binoculata</i>	0.01	0.10	0.01
Chondrichthyes	Rajiformes	<i>Raja rhina</i>	0.16	0.52	0.10
Echinodermata	Asteroidea	<i>Rathbunaster californicus</i>	9.65	26.90	6.10
Annelida	Polychaeta	Sabellidae sp.	0.05	0.26	0.03
Osteichthyes	Scorpaenidae	<i>Sebastes</i> sp.	0.12	0.63	0.07
Osteichthyes	Scorpaenidae	<i>Sebastes aurora</i>	0.11	0.58	0.07
Osteichthyes	Scorpaenidae	<i>Sebastes diploproa</i>	2.10	7.51	1.33
Osteichthyes	Scorpaenidae	<i>Sebastes jordani</i>	0.01	0.10	0.01
Osteichthyes	Scorpaenidae	<i>Sebastes paucispinis</i>	0.00	0.00	0.00
Osteichthyes	Scorpaenidae	<i>Sebastes rosenblatti</i>	0.00	0.00	0.00
Osteichthyes	Scorpaenidae	<i>Sebastes rubrivinctus</i>	0.00	0.00	0.00
Osteichthyes	Scorpaenidae	<i>Sebastes saxicola</i>	0.07	0.69	0.04
Osteichthyes	Scorpaenidae	<i>Sebastolobus</i> spp.	3.17	5.27	2.00
Osteichthyes	Scorpaenidae	Sebastomus complex	0.01	0.10	0.01
Echinodermata	Asteroidea	<i>Solaster borealis</i>	0.45	1.16	0.29
Chondrichthyes	Squalidae	<i>Squalus suckleyi</i>	0.03	0.29	0.02
Echinodermata	Asteroidea	<i>Stylasterias forreri</i>	0.34	1.02	0.22
Cnidaria	Gorgonacea	<i>Swiftia simplex</i>	0.23	1.23	0.15
Osteichthyes	Torpedinidae	<i>Torpedo californica</i>	0.02	0.14	0.01
Mollusca	Gastropoda	<i>Tritonia diomedea</i>	0.03	0.22	0.02
Cnidaria	Pennatulacea	<i>Umbellula lindahli</i>	6.02	18.78	3.80
Osteichthyes	Agonidae	<i>Xeneretmus</i> sp.	0.35	1.24	0.22
Osteichthyes	Embiotocidae	<i>Zalembiu srosaceus</i>	0.04	0.31	0.02
Osteichthyes	Zaniolepididae	<i>Zaniolepis latipinnis</i>	0.12	0.47	0.07
Osteichthyes	Zoarcidae	Zoarcidae - unident.	0.03	0.17	0.02
Total, all taxa			158.22		100.00