

# Exploring the Structure of Aquatic Food Webs: A Network-based Analysis Supplementary Materials

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March 16, 2024

## 1 Data

Table 1 includes the entire dataset used in the analysis. In all, it consists of 173 graphs taken from 5 sources: the R package `igraphdata` [33], the Cohen et al. book [29], the Ecopath with Ecosim database [31], and two datasets taken directly from the papers [59, 74]

Table 1: Dataset of food webs.  $S$  is the number of compartments,  $L$  is the number of links,  $C$  is the connectance ( $C = L/S^2$ ), and  $NL$  is the ratio of non-living compartments to total compartments.

Food web name	Ref	$S$	$L$	$C$	$NL$
Lower Chesapeake Bay	[33, 49]	29	115	$2.19 \times 10^{-3}$	10.34%
Middle Chesapeake Bay	[33, 49]	32	149	$1.44 \times 10^{-3}$	9.38%
Upper Chesapeake Bay	[33, 49]	33	158	$1.32 \times 10^{-3}$	9.09%
Chesapeake Bay Mesohaline	[33, 12]	36	122	$2.42 \times 10^{-3}$	8.33%
Crystal River Creek - Control	[33, 108]	21	81	$3.20 \times 10^{-3}$	4.76%
Crystal River Creek - Delta Temp	[33, 108]	21	60	$5.83 \times 10^{-3}$	4.76%
Charca de Maspalomas	[33, 5]	21	55	$6.94 \times 10^{-3}$	14.29%
Lake Michigan	[33, 63]	34	172	$1.15 \times 10^{-3}$	2.94%
Mondego Estuary - Zostrea site	[33, 89]	43	348	$3.55 \times 10^{-4}$	2.33%
Narragansett Bay Model	[33, 75]	32	158	$1.28 \times 10^{-3}$	3.12%
St. Marks River (Florida)	[33, 11]	51	270	$7.00 \times 10^{-4}$	5.88%
Aegean Sea (2007)	[31, 62]	44	354	$3.51 \times 10^{-4}$	4.55%
Albatross Bay (1986)	[31, 83]	99	1382	$5.18 \times 10^{-5}$	7.07%
Aleutian Islands (1963)	[31, 46]	40	391	$2.62 \times 10^{-4}$	2.50%
Alto Golfo de California	[31, 76]	29	277	$3.78 \times 10^{-4}$	3.45%
Antarctic (1970)	[31, 56]	59	749	$1.05 \times 10^{-4}$	1.69%
Apalachicola Bay (2000)	[31, 4]	54	622	$1.40 \times 10^{-4}$	1.85%
Arctic seas	[31]	22	57	$6.77 \times 10^{-3}$	4.55%
Australia North West Shelf (1986)	[31, 21]	37	370	$2.70 \times 10^{-4}$	2.70%
Azores (1997)	[31, 77]	45	450	$2.22 \times 10^{-4}$	2.22%
Azores archipelago (1997)	[31, 45]	44	381	$3.03 \times 10^{-4}$	2.27%
Baie de Seine (2000)	[31, 50]	42	374	$3.00 \times 10^{-4}$	2.38%
Bamboung (2003)	[31, 30]	31	333	$2.80 \times 10^{-4}$	3.23%
Bamboung (2006)	[31, 30]	31	333	$2.80 \times 10^{-4}$	3.23%

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Table 1 – continued from previous page

Food web name	Ref	$S$	$L$	$C$	$NL$
Barnegat Bay (1981)	[31, 112]	27	135	$1.48 \times 10^{-3}$	3.70%
Barra Del Chuy (1992)	[31, 68]	20	77	$3.37 \times 10^{-3}$	5.00%
Bay of Biscay (1970)	[31, 1]	37	499	$1.49 \times 10^{-4}$	2.70%
Bay of Biscay (1980)	[31, 79]	43	382	$2.95 \times 10^{-4}$	4.65%
Bay of Biscay (1994)	[31, 64]	32	223	$6.43 \times 10^{-4}$	6.25%
Bay of Biscay (1998)	[31, 1]	37	492	$1.53 \times 10^{-4}$	2.70%
Bay of Biscay (2013)	[31, 79]	43	383	$2.93 \times 10^{-4}$	4.65%
Florida Bay - dry season	[33, 109]	125	1969	$3.22 \times 10^{-5}$	2.40%
Florida Bay - wet season	[33, 109]	125	1938	$3.33 \times 10^{-5}$	2.40%
Bolinao Coral Reef (1980)	[31, 3]	26	133	$1.47 \times 10^{-3}$	3.85%
British Columbia coast (1950)	[31, 94]	53	513	$2.01 \times 10^{-4}$	1.89%
Calvi Bay (1998)	[31, 92]	27	195	$7.10 \times 10^{-4}$	3.70%
Cap de Creus MPA - whole (2008)	[31, 32]	67	768	$1.14 \times 10^{-4}$	2.99%
Cape Verde (1981)	[31, 102]	31	250	$4.96 \times 10^{-4}$	3.23%
Celtic Sea-Biscay (1980)	[31, 15]	38	487	$1.60 \times 10^{-4}$	2.63%
Celtic Sea-Biscay (2012)	[31, 15]	38	490	$1.58 \times 10^{-4}$	2.63%
Celtic Sea (1980)	[31, 79]	48	522	$1.76 \times 10^{-4}$	4.17%
Celtic Sea (1985)	[31, 53]	54	760	$9.35 \times 10^{-5}$	3.70%
Celtic Sea (2013)	[31, 79]	48	531	$1.70 \times 10^{-4}$	4.17%
Central Atlantic (1950)	[31]	38	270	$5.21 \times 10^{-4}$	2.63%
Central Atlantic (1990)	[31]	38	271	$5.17 \times 10^{-4}$	2.63%
Central Baltic Sea (1974)	[31, 107]	22	114	$1.69 \times 10^{-3}$	4.55%
Central Chile (1998)	[31, 80]	21	80	$3.28 \times 10^{-3}$	4.76%
Central Gulf of California (1978)	[31, 10]	27	180	$8.33 \times 10^{-4}$	7.41%
Cerbère-Banyuls MPA (2013)	[31, 32]	64	728	$1.21 \times 10^{-4}$	3.12%
Chesapeake (1950)	[31, 28]	45	259	$6.71 \times 10^{-4}$	2.22%
Contemporary Alosine (2000)	[31, 35]	59	991	$6.01 \times 10^{-5}$	1.69%
Cypress Dry Season	[33, 109]	68	554	$2.22 \times 10^{-4}$	4.41%
Cypress Wet Season	[33, 109]	68	545	$2.29 \times 10^{-4}$	4.41%
Deep Western Mediterranean sea (2009)	[31, 106]	21	144	$1.01 \times 10^{-3}$	9.52%
Denmark, Faroe Islands (1997)	[31, 120]	20	146	$9.38 \times 10^{-4}$	5.00%
East Bass Strait (1994)	[31, 19]	59	628	$1.50 \times 10^{-4}$	3.39%
Eastern Corsican Coast (2012)	[31, 111]	39	413	$2.29 \times 10^{-4}$	2.56%
Falkland Islands (1990)	[31, 25]	44	373	$3.16 \times 10^{-4}$	2.27%
Lake Paajarvi, littoral zone, Finland	[29]	27	122	$1.81 \times 10^{-3}$	7.41%
Lake Pyhajarvi, littoral zone, Finland	[29]	25	115	$1.89 \times 10^{-3}$	8.00%
Florida Bay (2006)	[31, 101]	47	318	$4.65 \times 10^{-4}$	4.26%
Galapagos (2006)	[31, 95]	33	183	$9.85 \times 10^{-4}$	3.03%
Galapagos, Floreana rocky reef (2000)	[31, 84]	43	327	$4.02 \times 10^{-4}$	2.33%
Everglades Graminoids	[33, 109]	66	793	$1.05 \times 10^{-4}$	4.55%
Greenland, West Coast (1997)	[31, 90]	22	151	$9.65 \times 10^{-4}$	4.55%
Guinea (1985)	[31, 42]	35	434	$1.86 \times 10^{-4}$	2.86%
Guinea (1998)	[31, 88]	44	507	$1.71 \times 10^{-4}$	2.27%
Guinea (2004)	[31, 42]	35	433	$1.87 \times 10^{-4}$	2.86%
Gulf of California (1990)	[31, 67]	34	371	$2.47 \times 10^{-4}$	2.94%
Gulf of Carpentaria (1990)	[31, 85]	83	1138	$6.41 \times 10^{-5}$	4.82%
Gulf of Gabes (2000)	[31, 52]	41	453	$2.00 \times 10^{-4}$	4.88%

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Food web name	Ref	$S$	$L$	$C$	$NL$
Gulf of Mexico (1950)	[31, 118]	48	337	$4.23 \times 10^{-4}$	2.08%
Gulf of Thailand (1963)	[31, 26]	29	163	$1.09 \times 10^{-3}$	3.45%
Hudson Bay (1970)	[31, 57]	40	449	$1.98 \times 10^{-4}$	5.00%
Huizache-Caimanero (1984)	[31, 122]	26	215	$5.62 \times 10^{-4}$	3.85%
Humboldt Current (1995)	[31, 103]	33	204	$7.93 \times 10^{-4}$	3.03%
Iceland (1950)	[31, 18]	24	194	$6.38 \times 10^{-4}$	4.17%
Icelandic shelf (1997)	[31, 98]	21	140	$1.07 \times 10^{-3}$	4.76%
Independence Bay (1996)	[31, 104]	20	97	$2.13 \times 10^{-3}$	5.00%
Irish Sea (1973)	[31, 65]	53	690	$1.11 \times 10^{-4}$	5.66%
Jalisco and Colima Coast (1995)	[31, 40]	38	396	$2.42 \times 10^{-4}$	5.26%
Jurien Bay (2007)	[31, 70]	80	749	$1.43 \times 10^{-4}$	8.75%
Kaloko Honokohau (2005)	[31, 116]	26	141	$1.31 \times 10^{-3}$	3.85%
Lesser Antilles (2001)	[31, 71]	31	287	$3.76 \times 10^{-4}$	3.23%
Little Rock Lake, Wisconsin	[74]	182	2612	$2.67 \times 10^{-5}$	0.55%
Looe Key National Marine Sanctuary (1980)	[31, 113]	20	144	$9.65 \times 10^{-4}$	5.00%
Malangen Fjord (2017)	[31, 115]	36	240	$6.25 \times 10^{-4}$	11.11%
Tasek Bera swamp, Malaysia	[29]	27	97	$2.87 \times 10^{-3}$	7.41%
Mangrove Estuary - Dry Season	[33, 109]	94	1339	$5.24 \times 10^{-5}$	3.19%
Mangrove Estuary - Wet Season	[33, 109]	94	1340	$5.24 \times 10^{-5}$	3.19%
Mauritania (1987)	[31, 100]	38	374	$2.72 \times 10^{-4}$	2.63%
Mauritania (1998)	[31, 100]	38	372	$2.75 \times 10^{-4}$	2.63%
Mauritanie (1991)	[31, 47]	51	635	$1.26 \times 10^{-4}$	1.96%
Medes Island MPA (2000)	[31, 32]	67	767	$1.14 \times 10^{-4}$	2.99%
Morocco (1985)	[31, 45]	38	378	$2.66 \times 10^{-4}$	2.63%
Mount St Michel Bay (2003)	[31, 66]	24	89	$3.03 \times 10^{-3}$	4.17%
Ningaloo (2007)	[31, 61]	53	628	$1.34 \times 10^{-4}$	5.66%
North Atlantic (1950)	[31, 88]	38	269	$5.25 \times 10^{-4}$	2.63%
North Atlantic (1997)	[31, 88]	38	269	$5.25 \times 10^{-4}$	2.63%
North Benguela	[31, 119]	26	208	$6.01 \times 10^{-4}$	3.85%
North Benguela (1967)	[31, 119]	26	208	$6.01 \times 10^{-4}$	3.85%
North Benguela (1990)	[31, 119]	26	208	$6.01 \times 10^{-4}$	3.85%
North East Pacific (1950)	[31, 119]	56	559	$1.79 \times 10^{-4}$	1.79%
North Sea (1974)	[31, 14]	32	241	$5.51 \times 10^{-4}$	3.12%
North Sea (1981)	[31, 27]	29	152	$1.26 \times 10^{-3}$	3.45%
North South of China Sea (1970)	[31, 24]	38	471	$1.71 \times 10^{-4}$	2.63%
Northern Benguela (1956)	[31, 55]	32	234	$5.84 \times 10^{-4}$	3.12%
Northern British Columbia (1950)	[31, 2]	53	483	$2.27 \times 10^{-4}$	3.77%
Northern British Columbia (2000)	[31, 2]	53	487	$2.23 \times 10^{-4}$	3.77%
Northern Californian Current (1960)	[31, 117]	36	152	$1.56 \times 10^{-3}$	2.78%
Northern Californian Current (1990)	[31, 38]	63	775	$1.05 \times 10^{-4}$	4.76%
Northern Gulf of Mexico (2005)	[31, 96]	75	2244	$1.49 \times 10^{-5}$	1.33%
Northern Gulf of St Lawrence (1990)	[31, 99]	32	343	$2.72 \times 10^{-4}$	3.12%
Northern Gulf St Lawrence (1985)	[31, 78]	32	308	$3.37 \times 10^{-4}$	3.12%
Northern Humboldt Current (1997)	[31, 103]	33	210	$7.48 \times 10^{-4}$	3.03%
Paraná River Floodplain (1992)	[31, 6]	40	224	$7.97 \times 10^{-4}$	2.50%
Peru (1953)	[31, 60]	20	108	$1.71 \times 10^{-3}$	5.00%
Peru (1960)	[31, 60]	20	109	$1.68 \times 10^{-3}$	5.00%

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Table 1 – continued from previous page

Food web name	Ref	<i>S</i>	<i>L</i>	<i>C</i>	<i>NL</i>
Peru (1973)	[31, 60]	20	113	$1.57 \times 10^{-3}$	5.00%
Port Cros (1998)	[31, 110]	41	356	$3.24 \times 10^{-4}$	2.44%
Port Phillip Bay (1994)	[31, 39]	34	331	$3.10 \times 10^{-4}$	2.94%
Prince William Sound (1994)	[31, 86]	48	404	$2.94 \times 10^{-4}$	6.25%
Raja Ampat (1990)	[31, 93]	98	2614	$1.43 \times 10^{-5}$	2.04%
Raja Ampat (2005)	[31, 93]	98	2612	$1.44 \times 10^{-5}$	2.04%
Restored Alosine Biomass (2000)	[31]	59	991	$6.01 \times 10^{-5}$	1.69%
Ria-Lake Tapajos (2013)	[31, 22]	35	341	$3.01 \times 10^{-4}$	2.86%
River Rheido, Wales	[29]	18	92	$2.13 \times 10^{-3}$	5.56%
Rocky shore, Monterey Bay, California	[29]	35	167	$1.25 \times 10^{-3}$	2.86%
Salt meadow, New Zealand	[29]	45	89	$5.68 \times 10^{-3}$	2.22%
Sand beach, South Africa	[29]	21	76	$3.64 \times 10^{-3}$	9.52%
Santa Pola Bay (2001)	[31, 13]	41	331	$3.74 \times 10^{-4}$	4.88%
Sechura Bay (1996)	[31, 105]	21	101	$2.06 \times 10^{-3}$	4.76%
Shallow sublittoral, Cape Ann, Massachusetts	[29]	25	92	$2.95 \times 10^{-3}$	8.00%
Sierra Leone (1964)	[31, 54]	44	449	$2.18 \times 10^{-4}$	2.27%
Sierra Leone (1978)	[31, 54]	44	458	$2.10 \times 10^{-4}$	2.27%
Sierra Leone (1990)	[31, 54]	44	459	$2.09 \times 10^{-4}$	2.27%
Sinaloa sur Mexico (1994)	[31, 97]	37	347	$3.07 \times 10^{-4}$	2.70%
Sirinhaem River (2013)	[31, 69]	25	178	$7.89 \times 10^{-4}$	4.00%
Sítios Novos reservoir (2011)	[31, 16]	31	206	$7.31 \times 10^{-4}$	3.23%
Sonda Campeche Act (1988)	[31, 121]	25	187	$7.15 \times 10^{-4}$	4.00%
South Benguela	[31, 119]	32	263	$4.63 \times 10^{-4}$	3.12%
South Benguela (1900)	[31, 119]	32	263	$4.63 \times 10^{-4}$	3.12%
South Benguela (1978)	[31, 119]	32	263	$4.63 \times 10^{-4}$	3.12%
South East Alaska (1963)	[31, 44]	40	514	$1.51 \times 10^{-4}$	2.50%
South of Benguela (1960)	[31, 119]	32	263	$4.63 \times 10^{-4}$	3.12%
South Shetlands (1990)	[31, 17]	30	238	$5.30 \times 10^{-4}$	3.33%
South western Gulf of Mexico (1970)	[31, 9]	24	152	$1.04 \times 10^{-3}$	4.17%
Sri Lanka (2000)	[31, 51]	39	375	$2.77 \times 10^{-4}$	2.56%
Strait of Georgia (1950)	[31, 94, 73]	55	523	$2.01 \times 10^{-4}$	1.82%
Swamp, south Florida	[29]	27	74	$4.93 \times 10^{-3}$	3.70%
Sørfjord (1993)	[31, 37]	25	159	$9.89 \times 10^{-4}$	4.00%
Tampa Bay (1950)	[31, 118]	52	442	$2.66 \times 10^{-4}$	1.92%
Tagus estuary, Portugal	[29]	29	136	$1.57 \times 10^{-3}$	6.90%
Tasmanian Seamounts Marine Reserve (1992)	[31, 20]	25	138	$1.31 \times 10^{-3}$	4.00%
Terminos Lagoon (1980)	[31, 72]	20	163	$7.53 \times 10^{-4}$	5.00%
Thermaikos Gulf (1998)	[31, 36]	33	357	$2.59 \times 10^{-4}$	6.06%
Tropical plankton community, Pacific	[29]	23	155	$9.57 \times 10^{-4}$	4.35%
USA, Mid Atlantic Bight (1995)	[31, 81]	55	650	$1.30 \times 10^{-4}$	1.82%
USA, South Atlantic Continental Shelf (1995)	[31, 82]	42	514	$1.59 \times 10^{-4}$	2.38%
Virgin Islands (1960)	[31, 87]	21	161	$8.10 \times 10^{-4}$	4.76%
West Baffin Bay, Coastal and Shelf (2016)	[31, 91]	30	222	$6.09 \times 10^{-4}$	3.33%

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Food web name	Ref	$S$	$L$	$C$	$NL$
West coast of Sabah (1972)	[31, 41]	29	243	$4.91 \times 10^{-4}$	3.45%
West Florida Shelf (1985)	[31, 114]	83	1045	$7.60 \times 10^{-5}$	2.41%
West Florida Shelf Historic Model (1950)	[31, 23]	70	1232	$4.61 \times 10^{-5}$	4.29%
West Scotland (2000)	[31, 48]	37	407	$2.23 \times 10^{-4}$	2.70%
West scotland DeepSea (1974)	[31, 58]	34	322	$3.28 \times 10^{-4}$	2.94%
Western Antarctic Peninsula (1996)	[31, 34]	35	198	$8.93 \times 10^{-4}$	2.86%
Western Channel (1973)	[31, 7]	52	475	$2.30 \times 10^{-4}$	3.85%
Western Channel (1993)	[31, 7]	52	475	$2.30 \times 10^{-4}$	3.85%
Western Tropical Pacific Ocean (1990)	[31, 43]	20	150	$8.89 \times 10^{-4}$	5.00%
Ythan estuary, Aberdeenshire, Scotland	[59]	134	721	$2.58 \times 10^{-4}$	0.75%
Yucatan (1987)	[31, 8]	21	131	$1.22 \times 10^{-3}$	4.76%

## 2 Core Periphery

Food web name	Core periphery composition
Lower Chesapeake Bay	79.3% 13.8% 3.4% 3.4%
Middle Chesapeake Bay	87.5% 12.5%
Upper Chesapeake Bay	72.7% 24.2% 3.0%
Chesapeake Bay Mesohaline	44.4% 55.6%
Crystal River Creek - Control	90.5% 9.5%
Crystal River Creek - Delta Temp	85.7% 14.3%
Charca de Maspalomas	33.3% 66.7%
Lake Michigan	88.2% 11.8%
Mondego Estuary - Zostrea site	81.4% 18.6%
Narragansett Bay Model	93.8% 6.2%
St. Marks River (Florida)	64.7% 23.5% 11.8%
Aegean Sea (2003)	95.5% 4.5%
Albatross Bay (1986)	87.9% 12.1%
Aleutian Islands (1963)	90.0% 10.0%
Alto Golfo de California	86.2% 13.8%
Antarctic (1970)	89.8% 10.2%
Apalachicola Bay (2000)	96.3% 3.7%

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Table 2 – continued from previous page

Food web name	Core periphery composition	
Arctic seas	100.0%	
Australia North West Shelf (1986)	91.9%	8.1%
Azores (1997)	95.6%	4.4%
Azores archipelago (1997)	90.9%	4.5% 4.5%
Baie de Seine (2000)	92.9%	7.1%
Bamboung (2003)	93.5%	6.5%
Bamboung (2006)	93.5%	6.5%
Barnegat Bay (1981)	77.8%	22.2%
Barra Del Chuy (1992)	95.0%	5.0%
Bay of Biscay (1970)	86.5%	13.5%
Bay of Biscay (1980)	90.7%	9.3%
Bay of Biscay (1994)	90.6%	9.4%
Bay of Biscay (1998)	86.5%	13.5%
Bay of Biscay (2013)	90.7%	9.3%
Florida Bay - dry season	82.4%	17.6%
Florida Bay - wet season	82.4%	17.6%
Bolinao Coral Reef (1980)	80.8%	19.2%
British Columbia coast (1950)	83.0%	17.0%
Calvi Bay (1998)	92.6%	7.4%
Cap de Creus MPA - whole (2008)	89.6%	10.4%
Cape Verde (1981)	93.5%	6.5%
Celtic Sea-Biscay (1980)	94.7%	5.3%
Celtic Sea-Biscay (2012)	94.7%	5.3%
Celtic Sea (1980)	91.7%	8.3%
Celtic Sea (1985)	94.4%	5.6%
Celtic Sea (2013)	91.7%	8.3%
Central Atlantic (1950)	97.4%	2.6%
Central Atlantic (1990)	97.4%	2.6%
Central Baltic Sea (1974)	86.4%	13.6%
Central Chile (1998)	52.4%	47.6%

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Food web name	Core periphery composition
Central Gulf of California (1978)	92.6% 7.4%
Cerbère-Banyuls MPA (2013)	92.2% 7.8%
Chesapeake (1950)	73.3% 24.4% 2.2%
Contemporary Alosine (2000)	98.3% 1.7%
Cypress Dry Season	77.9% 22.1%
Cypress Wet Season	77.9% 22.1%
Deep Western Mediterranean sea (2009)	95.2% 4.8%
Denmark, Faroe Islands (1997)	70.0% 30.0%
East Bass Strait (1994)	86.4% 13.6%
Eastern Corsican Coast (2012)	84.6% 15.4%
Falkland Islands (1990)	75.0% 25.0%
Lake Pääjärvi, littoral zone, Finland	88.9% 11.1%
Lake Pyhäjärvi, littoral zone, Finland	84.0% 16.0%
Florida Bay (2006)	80.9% 19.1%
Galapagos (2006)	90.9% 9.1%
Galapagos, Floreana rocky reef (2000)	90.7% 9.3%
Everglades Graminoids	90.9% 9.1%
Greenland, West Coast (1997)	95.5% 4.5%
Guinea (1985)	97.1% 2.9%
Guinea (1998)	97.7% 2.3%
Guinea (2004)	97.1% 2.9%
Gulf of California (1990)	94.1% 5.9%
Gulf of Carpentaria (1990)	90.4% 9.6%
Gulf of Gabes (2000)	90.2% 9.8%
Gulf of Mexico (1950)	85.4% 12.5% 2.1%
Gulf of Thailand (1963)	96.6% 3.4%
Hudson Bay (1970)	95.0% 5.0%

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Table 2 – continued from previous page

Food web name	Core periphery composition	
Huizache-Caimanero (1984)	92.3%	7.7%
Humboldt Current (1995)	93.9%	6.1%
Iceland (1950)	79.2%	20.8%
Icelandic shelf (1997)	76.2%	23.8%
Independence Bay (1996)	90.0%	10.0%
Irish Sea (1973)	94.3%	5.7%
Jalisco and Colima Coast (1995)	89.5%	10.5%
Jurien Bay (2007)	85.0%	15.0%
Kaloko Honokohau (2005)	80.8%	19.2%
Lesser Antilles (2001)	77.4%	3.2% 19.4%
Little Rock Lake, Wisconsin	52.7%	47.3%
Looe Key National Marine Sanctuary (1980)	90.0%	10.0%
Malangen Fjord (2017)	91.7%	8.3%
Tasek Bera swamp, Malaysia	40.7%	51.9% 3.7% 3.7%
Mangrove Estuary - Dry Season	91.5%	8.5%
Mangrove Estuary - Wet Season	91.5%	8.5%
Mauritania (1987)	94.7%	2.6% 1.6%
Mauritania (1998)	94.7%	2.6% 1.6%
Mauritanie (1991)	94.1%	5.9%
Medes Island MPA (2000)	89.6%	10.4%
Morocco (1985)	94.7%	5.3%
Mount St Michel Bay (2003)	75.0%	25.0%
Ningaloo (2007)	83.0%	17.0%
North Atlantic (1950)	97.4%	2.6%
North Atlantic (1997)	97.4%	2.6%
North Benguela	96.2%	3.8%
North Benguela (1900)	96.2%	3.8%
North Benguela (1967)	96.2%	3.8%
North Benguela (1990)	96.2%	3.8%
North East Pacific (1950)	83.9%	16.1%

Continued on next page



Table 2 – continued from previous page

Food web name	Core periphery composition
North Sea (1974)	96.9% 3.1%
North Sea (1981)	89.7% 10.3%
North South of China Sea (1970)	94.7% 5.3%
Northern Benguela (1956)	81.2% 18.8%
Northern British Columbia (1950)	83.0% 17.0%
Northern British Columbia (2000)	83.0% 17.0%
Northern Californian Current (1960)	94.4% 5.6%
Northern Californian Current (1990)	87.3% 12.7%
Northern Gulf of Mexico (2005)	96.0% 4.0%
Northern Gulf of St Lawrence (1990)	96.9% 3.1%
Northern Gulf St Lawrence (1985)	96.9% 3.1%
Northern Humboldt Current (1997)	93.9% 6.1%
Paraná River Floodplain (1992)	87.5% 12.5%
Peru (1953)	90.0% 10.0%
Peru (1960)	90.0% 10.0%
Peru (1973)	90.0% 10.0%
Port Cros (1998)	85.4% 14.6%
Port Phillip Bay (1994)	82.4% 17.6%
Prince William Sound (1994)	79.2% 20.8%
Raja Ampat (1990)	90.8% 9.2%
Raja Ampat (2005)	90.8% 9.2%
Restored Alosine Biomass (2000)	98.3% 1.7%
Ria-Lake Tapajos (2013)	91.4% 8.6%
Rocky shore, Monterey Bay, California	57.1% 42.9%

Continued on next page

Table 2 – continued from previous page

Food web name	Core periphery composition
Salt meadow, New Zealand	44.4% 48.9% 4.4% 2.3%
Sand beach, South Africa	100.0%
Santa Pola Bay (2001)	80.5% 19.5%
Sechura Bay (1996)	90.5% 9.5%
Shallow sublittoral, Cape Ann, Massachusetts	40.0% 56.0% 4.0%
Sierra Leone (1964)	97.7% 2.3%
Sierra Leone 1978 (1978)	97.7% 2.3%
Sierra Leone (1990)	97.7% 2.3%
Sinaloa sur MEXICO (1994)	94.6% 5.4%
Sirinhaém River (2013)	88.0% 12.0%
Sítios Novos reservoir (2011)	96.8% 3.2%
Sonda Campeche Act (1988)	92.0% 8.0%
South Benguela	93.8% 6.2%
South Benguela (1900)	93.8% 6.2%
South Benguela (1978)	93.8% 6.2%
South East Alaska (1963)	87.5% 12.5%
South of Benguela (1960)	93.8% 6.2%
South Shetlands (1990)	96.7% 3.3%
South western Gulf of Mexico (1970)	91.7% 8.3%
Sri Lanka (2000)	94.9% 5.1%
Strait of Georgia (1950)	85.5% 14.5%
Swamp, south Florida	51.9% 48.1%
Sørfjord (1993)	96.0% 4.0%
Tampa Bay (1950)	88.5% 11.5%
Tagus estuary, Portugal	75.9% 20.7% 3.4%
Tasmanian Seamounts Marine Reserve (1992)	96.0% 4.0%
Terminos Lagoon (1980)	90.0% 10.0%
Thermaikos Gulf (1998)	93.9% 6.1%
Tropical plankton community, Pacific	87.0% 13.0%

Continued on next page

Table 2 – continued from previous page

Food web name	Core periphery composition	
USA, Mid Atlantic Bight (1995)	89.1%	10.9%
USA, South Atlantic Continental Shelf (1995)	88.1%	11.9%
Virgin Islands (1960)	90.5%	9.5%
West Baffin Bay, Coastal and Shelf (2016)	93.3%	6.7%
West coast of Sabah (1972)	93.1%	6.9%
West Florida Shelf (1985)	94.0%	6.0%
West Florida Shelf Historic Model (1950)	94.3%	5.7%
West Scotland (2000)	97.3%	2.7%
West scotland DeepSea (1974)	94.1%	5.9%
Western Antarctic Peninsula (1996)	91.4%	8.6%
Western Channel (1973)	94.2%	5.8%
Western Channel (1993)	94.2%	5.8%
Western Tropical Pacific Ocean (1990)	85.0%	15.0%
Ythan estuary, Aberdeenshire, Scotland	73.9%	26.1%
Yucatan (1987)	85.7%	14.3%

### 3 Node sequence of most critical nodes

Table 3: Sequence of most critical nodes. On top the name of the graph and its robustness followed by the sequence of most critical living compartment according to the method described in the section 2.3 of the article. The graphs have been sorted according to the robustness.

<b>Sand beach, South Africa, <math>\rho = 0.351</math></b>
Gastrosaccus, Callianassa, Donax, bacteria, Cumacea, Turbellaria, Nemertea, Bathyporeia, Bullia, Ovalipes, Talorchestia, sedentary polychaeta, errant polychaete, isopods, Larus nematode worms, protozoa, nematode, Curlew sandpiper, Sanderling, elasmobranch fishes, predatory fishes
<b>Sítios Novos reservoir (2011), <math>\rho = 0.325</math></b>
Continued on next page

**Table 3 – continued from previous page**

Camarão, Cladocera, Copepoda, M. tuberculata, Ostracoda, Outros Invertebrados, Rotifera, Insecta, P.brevis, O.niloticus juvenil, O.niloticus adulto, L.piau, Other Birds, Caracara plan-cus, Poecilia, A. gigas 1, A.brasiliensis juvenil, Cichla sp. juvenil, A.bimaculatus, Pescada, A.brasiliensis adulto, Cichla sp. adulto, Phytoplankton, A. gigas 3, A. gigas 4, A.gigas 2, Ardea alba, Egretta thula, Phalacrocorax brasilianus, Butorides Striata
<b>Terminos Lagoon (1980), <math>\rho = 0.305</math></b>
Meiofauna, Polychaetes, Zooplankton, Microcrustaceans, Molluscs, Sparidae, Other macroinvertebrates, Penaeids, Brachyurans, Tetraodontidae, Engraulidae, Ariidae, Gerreidae, Haemulidae, Other fish, Scianidae, Benthic autotrophs, Phytoplankton, Lutjanidae
<b>Northern Gulf of Mexico (2005), <math>\rho = 0.300</math></b>
SEP, INF, ZOO, MEP, MUL, MEN, SHP, CPH, ReO, CoO, BUT, ASK, GTR, DCIF, SHS, BCIF, ReIF, BeP, SRF, CRB, ST, CoP, BGR3, YEG3, OSN, VSN, RAY, MSN, TLF, RD, BGR0, ReP, TUR, YEG1, RSN6, GGR0, RGR0, RGR1, RGR3, SBD, OcP, SWG, GOL, RSN0, GGR3, SCS, ASN, PCP, AMB, DWG, SNB, SM3, BFT, DOL, COB, KM3, BIL, TUN, SWO, LCS, YFT, BKT, DUS, LOS, BGR1, OPL, YEG0, SGR, GGR1, PHY, ALG, LOP, SM0, KM0
<b>Huizache-Caimanero (1984), <math>\rho = 0.294</math></b>
Gastropods, Polychaets, Microcrustaceans, Chanids, Zooplankton, Bivalvs, Penaeids, Palaemonids, Mugilids, Gobioides, Clupeidae, Gerreids, Callinectes, Pleuronectoidei, Haemulids, Ariids, Centropomids, Carangids, Lutjanids, Elopids, Sciaenids, Macrophytes, Poeciliids, Phytoplankton, Belonoidei
<b>Gulf of California (1990), <math>\rho = 0.291</math></b>
Zooplankton, Farfantepenaeus californiensis (ADULTS), Benthic inv., Litopenaeus stylirostris (ADULTS), Stomatopoda, Polychaeta, Callinectes sp., Mojarras, Myctophidos, Flat fishes, Cephalopoda, Farfantepenaeus californiensis (JUVENILES), Litopenaeus stylirostris (JUVENILES), Sicyonia penicillata, Other fishes, Sciaenidae, Haemulidae, Elasmobranchi (SHARKS), Totoaba macdonaldi (ADULTS), Elasmobranchi (RAYS), Serranidae, Rhinobatidae, Small pelagics, Odontoceti, Merluccidae, Totoaba macdonaldi (JUVENILES), Macrophytes, Phytoplankton, Coastal birds, Mysticeti, Phocoena sinus, Marine birds, Zalophus californianus
<b>West coast of Sabah (1972), <math>\rho = 0.289</math></b>
Zooplankton, Meiobenthos, Macrobenthos, Small crustaceans, Octopus sepia, Shrimps, Crabs Lobsters, Squids, Engraulids Clupeids, Mullids, Small pelagics, Lactarids, Leiognathids, Balistids, Demersal zoobenthos feeders, Nemipterids, Reef associated fish, Large zoobenthos feeders, Sciaenids, Flatfishes Soles, Intermediate predators, Carangids, Macrobenthic flora, Phytoplankton, Lutjanids, Serranids, Tuna, Large predators
<b>Malangen Fjord (2017), <math>\rho = 0.282</math></b>
Bacteria, Microzooplankton, Detritivore polychaetes, Sea cucumbers, Small krill, Benthic detritivore echinoderms, Hagfish, Other benthic detritivore invertebrates, Meiofauna, Suprabenthos, Macro mesozooplankton, Large krill, Heterotrophic nanopl., Benthopelagic shrimps, Witch flounder, Predatory invertebrates, Redfishes, Pelagic shrimps, Mesopelagic fishes, Rabbit fish, Other commercial demersal fishes, Benthopelagic cephalopods, Marine mammals, Jellyfish and ctenophores, Pouts, Greater argentine, Large phytoplankton, Blue whiting, Rays and skates, Seabirds, Velvet belly, Large fish feeders
<b>Tropical plankton community, Pacific, <math>\rho = 0.281</math></b>
bacteria, Appendicularia large, Radiolaria, Acartia large, Infusoria, copepodites, nauplii, Appendicularia small, Oithona-Oncaea large, Calanus small, Acartia small, Amphipoda, Euchaeta, Euphausia, Calanus large, Centropages, Medusae, Oithona-Oncaea small, small-size phytoplankton, medium-size phytoplankton, large-size phytoplankton, Chaetognatha
<b>Bamboung (2003), <math>\rho = 0.281</math></b>
Continued on next page

**Table 3 – continued from previous page**

Macrobenthos, Tilapias, Zooplankton, Meiobenthos, Petits benthoph, Crevettes, Ethmalose, Mulets, Crabes, Sardinelle +, Gerres, Mâchoirons mari, Pomadasys, Diagramme +, Raies, Pompaneau +, Carangues, Requins, Grand capitaine, Barracudas +, Oiseaux, Dauphins, Otolithes +, Breton africain, Microphytobenth, Phytoplankton, Sole-langue +, Vivaneaux +, Tétrodon +, Elops
<b>Bamboung (2006), <math>\rho = 0.281</math></b>
Macrobenthos, Tilapias, Zooplankton, Meiobenthos, Petits benthoph, Crevettes, Ethmalose, Mulets, Crabes, Sardinelle +, Gerres, Mâchoirons mari, Diagramme +, Pomadasys, Raies, Pompaneau +, Carangues, Requins, Grand capitaine, Barracudas +, Oiseaux, Dauphins, Otolithes +, Breton africain, Microphytobenth, Phytoplankton, Sole-langue +, Vivaneaux +, Tétrodon +, Elops
<b>Sørfjord (1993), <math>\rho = 0.281</math></b>
small zooplankton, detrivore echinoderms, detrivore polychaetes, large bivalves, other benthic invert, other large zooplantkon, euphausiids, small molluscs, small benthic crustaceans, shrimps, predatory benthos, large decapoda, schypomedusae, small king crab, large cod, large other fish, small cod, small other fish, mammals, phytoplankton, Large King crab, chaetognaths, herring, Cormorants
<b>Barra Del Chuy (1992), <math>\rho = 0.277</math></b>
Birds, Atlantorchestoidea brasiliensis, Carabide, Donax hanleyanus, Emerita brasiliensis, Euzonus furciferus, Excirolana armata, Mesodesma mactroides, Scolelepis gaucha, Excirolana braziliensis, Fishes, Hemipodus olivieri, Macrochiridiotea giambiagiae, Phoxocephalopsis sp., Zooplankton, Buccinanops duartei, Olivella formicacorsii, Phytoplankton, Olivancillaria vesica auricularia
<b>Jalisco and Colima Coast (1995), <math>\rho = 0.277</math></b>
Otros peces, Braquiuiros, Infauna, Equinodermos, Otros macroinve, Moluscos, Estomatópodos, Peneidos, Otros crustáceo, Otros lutjánido, Pulpo, Pleuronéctidos, Rayas, Ophidiidos, Gerreidos, Tetraodóntidos, Haemúlidos, Sciánidos, Serranidos, Carángidos, Escómbridos, Anguilas y more, Adultos Lutjanu, Dorado, Juveniles Lutja, Tiburones, Zooplankton, Sardinas, Mamíferos marin, Aves marinas, Synodontidos, Tortugas marina, Sierra, Gasterosteidos, Fitoplancton, Picudos
<b>Contemporary Alosine (2000), <math>\rho = 0.277</math></b>
Bacteria, Small Copepods, Megabenthos filters, Microzooplankton, Large Copepods, Macrobenthos mollusks, Macrobenthos polychaete, Macrobenthos others, Small Atlantic menhaden, Macrobenthos crustaceans, Medium Atlantic menhaden, Micronekton, Large Atlantic menhaden, Shrimp, Gelatinous Zooplankton, Megabenthos others, Small pelagics, Atlantic herring, Mesopelagic, Alosines, Baleen whales, Butterfish, Anchovies, Squid, Demersal piscivores - other, Demersal omnivores - other, Hake, Sharks - pelagic, Small dogfish, Large dogfish, Demersal benthivores - other, Small weakfish , Large cod, Large summer flounder, Medium bluefish, Skate, Sharks - coastal, Mackerel, Croaker, Medium cod, Small bluefish, Haddock, Small cod, Small summer flounder, Small yellowtail flounder, Small striped bass, Medium weakfish, Medium striped bass, Odontocetes, Phytoplankton, Large yellowtail flounder, Large striped bass, Seabird, Large pelagics (HMS), Large weakfish, Pinnipeds, Medium pelagic - other, Large bluefish
<b>Central Gulf of California (1978), <math>\rho = 0.274</math></b>
Zooplankton, Shrimp, Meiobenthos, Stomatopods, Polychaeta, Crabs, Red crab, Paralichthyidae, Myctophidae, Other macrocrus, Other fish, Lutjanidae, Haemulidae, Serranidae, Sciaenidae, Scombridae, Carangidae, Clupaeidae, Sharks / Rays, Squid, Sea birds, Phytoplankton, Other molluscs, Scorp/Triglidae, Sea mammals
<b>Sirinhaém River (2013), <math>\rho = 0.274</math></b>
Continued on next page

**Table 3 – continued from previous page**

Zooplankton, Bivalves, Gastropods, Fiddler crabs, Mullet , Polychaetas, Croaker, Shrimp , Blue crab , Mojarra(Diapterus spp), Puffer, Pemecou sea catfish, Others Catfish, Mojarra(Eucinostomus spp), Flatfish, Drum , Snapper, Snook, Grunt, jack, Phythoplankton, Epiphyton, Microphytobenthos , Sardines
<b>Deep Western Mediterranean sea (2009), <math>\rho = 0.271</math></b>
Mesopelagic crustacea, Meiobenthos, Benthic invertebrates, other, Benthic invertebrates, crustacea, Aristeus antennatus, Macrourids, Other demersal, small, Lepidion lepidion, Mora moro, Benthopelagic fish, Phycis blennoides, Alepocephalus rostratus, Monkfish, Cephalopods, Zooplankton, BBL, Surface production, Demersal sharks, Zooplankton, gelatinous, Bluntnose sixgill shark
<b>Restored Alosine Biomass (2000), <math>\rho = 0.270</math></b>
Bacteria, Copepods S, Megabenthos filters, Microzooplankton, Copepods L, Macrobenthos mollusks, Macrobenthos polychaete, Macrobenthos others, Atlantic menhaden S, Macrobenthos crustaceans, Micronekton, Atlantic menhaden M, Atlantic menhaden L, Shrimp, Megabenthos others, Small pelagics, Gelatinous Zooplankton, Atlantic herring, Anchovies, Squid, Butterfish, Mesopelagic, Demersal piscivores, Demersal omnivores, Hake, Baleen whales, Sharks pelagic, Dogfish S, Dogfish L, Demersal benthivores, Weakfish S , Cod L, Anadromous alosines, Summer flounder L, Bluefish M, Skate, Sharks coastal, Mackerel, Croaker, Cod M, Bluefish S, Haddock, Cod S, Summer flounder S, Yellowtail flounder S, Striped bass S, Weakfish M, Striped bass M, Odontocetes, Phytoplankton, Yellowtail flounder L, Weakfish L, Striped bass L, Large pelagics HMS, Seabird, Pinnipeds, Medium pelagic, Bluefish L
<b>North South of China Sea (1970), <math>\rho = 0.269</math></b>
Zooplanktons, Polychaetes, Non-ceph molluscs, Benthic crustaceans, Shrimps, Echinoderms, Crabs, Sessile/other invertebrates, Pelagic fish (less than 30cm), Benthopelagic fish, Juvenile large pelagic fish, Seaturtles, Demersal fish (less than 30 cm), Juv demersal fish (30+cm), Cephalopods, Lizard fish (Synodontids), Pelagic fish (30+cm), Melon seed, Adult demersal fish (30+cm), Threadfin bream (Nemipterids), Seabirds, Croakers (30+cm), Pelagic sharks and rays, Croakers (less than 30cm), Other mammals, Juv large croakers, Demersal sharks and rays, Jellyfish, Adult groupers, Juv Hairtail (Trichiurids), Phytoplanktons, Bigeyes (Priacanthids), Adult hairtail (Trichiurids), Benthic producers, Pomfret (Stromateids), Snappers, Pinnipeds
<b>Central Atlantic (1990), <math>\rho = 0.265</math></b>
Sm. Zoop. shlw, Het. bacteria, Sm. Zoop. deep, Megabenthos, Meiobenthos, Macrobenthos, Lg. Bathyd. abs, Lg. Zoop. deep, Lg. Bathyp. fish, Sm. Bathyp. fish, Sm. Epi. fish, Sm. Meso fish, Md. Bathyp.fish, Md. Epi. fish, Sm. Bathyd. slp, Sm. Bathyd. abs, Lg. Bathyd. slp, Seabirds, Pelagic sharks, Sm Squids, Lg. Epi. fish, Lg. Zoop. shlw, Toothed whales, Benth. ceph., Skipjack, Lg Squids, Phytoplankton, Lg. Meso fish, Baleen whales, Lg. Plank. fish, Bluefin, Bigeye, Yellowfin, Albacore, Swordfish, Beaked whales, Billfishes
<b>Central Atlantic (1950), <math>\rho = 0.265</math></b>
Sm. Zoop. shlw, Het. bacteria, Sm. Zoop. deep, Megabenthos, Meiobenthos, Macrobenthos, Lg. Bathyd. abs, Lg. Zoop. deep, Lg. Bathyp. fish, Sm. Bathyp. fish, Sm. Epi. fish, Sm. Meso fish, Md. Bathyp.fish, Md. Epi. fish, Sm. Bathyd. slp, Sm. Bathyd. abs, Lg. Bathyd. slp, Seabirds, Pelagic sharks, Sm Squids, Lg. Epi. fish, Lg. Zoop. shlw, Toothed whales, Benth. ceph., Skipjack, Lg Squids, Phytoplankton, Lg. Meso fish, Baleen whales, Lg. Plank. fish, Bluefin, Bigeye, Yellowfin, Albacore, Swordfish, Beaked whales, Billfishes
<b>North Atlantic (1997), <math>\rho = 0.265</math></b>
Continued on next page

**Table 3 – continued from previous page**

Sm. Zoop. shlw, Het. bacteria, Sm. Zoop. deep, Megabenthos, Meiobenthos, Macrobenthos, Lg. Bathyd. abs, Lg. Zoop. deep, Lg. Bathyp. fish, Sm. Bathyp. fish, Sm. Epi. fish, Sm. Meso fish, Md. Bathyp.fish, Md. Epi. fish, Sm. Bathyd. slp, Sm. Bathyd. abs, Lg. Bathyd. slp, Seabirds, Pelagic sharks, Sm Squids, Lg. Zoop. shlw, Lg. Epi. fish, Toothed whales, Benth. ceph., Skipjack, Lg Squids, Phytoplankton, Lg. Meso fish, Baleen whales, Lg. Plank. fish, Bluefin, Bigeye, Yellowfin, Albacore, Swordfish, Beaked whales, Billfishes
<b>North Atlantic (1950), <math>\rho = 0.265</math></b>
Sm. Zoop. shlw, Het. bacteria, Sm. Zoop. deep, Megabenthos, Meiobenthos, Macrobenthos, Lg. Bathyd. abs, Lg. Zoop. deep, Lg. Bathyp. fish, Sm. Bathyp. fish, Sm. Epi. fish, Sm. Meso fish, Md. Bathyp.fish, Md. Epi. fish, Sm. Bathyd. slp, Sm. Bathyd. abs, Lg. Bathyd. slp, Seabirds, Pelagic sharks, Sm Squids, Lg. Zoop. shlw, Lg. Epi. fish, Toothed whales, Benth. ceph., Lg Squids, Skipjack, Phytoplankton, Lg. Meso fish, Baleen whales, Lg. Plank. fish, Bluefin, Bigeye, Yellowfin, Albacore, Beaked whales, Swordfish, Billfishes
<b>Guinea (2004), <math>\rho = 0.260</math></b>
Large zooplankton, Small zooplankton, Benthos, Crustacea, Cephalopods, Mullet+, Sardinella+, Horse mackerels+, ML demersal invert.eaters, S. demersal invert.eaters, Seabream+, SM demersal pred.eaters, Bobo croaker, Grunts+, Sea catfish, Sharks+, Sea birds, Barracudas+, Carangids, L. demersal pred.eaters, Large pelagics, Other croakers, Ethmalosa, Rays+, Dolphins, Bathy-dem pred.eaters, Primary producers, Giant Afr. threadfin, Bathy-dem invert.eaters, Turtles, Soles+, Lesser Afr. threadfin, Royal threadfin, Whales
<b>Alto Golfo de California (0), <math>\rho = 0.259</math></b>
Infauna, Mojaras, Haemulidos, Poliquetos, Myctophidos, Cefalópodos, C. azul, C. cafe, Otros peces, C. de roca, Stomatópodos, Peces planos, Mantarayas, Serranidos, Rhinobatidos, Sciaenidos, Zooplankton, Pelágicos, Ballenas dentadas, Tiburón, Totoaba, Jaibas, Merlucciidos, Fitoplancton, Macrofitas, Ballenas barbadas, Lobo marino, Vaquita
<b>Lake Pyhajarvi, littoral zone, Finland, <math>\rho = 0.259</math></b>
Cyclopoida, Keratella, Kellicottia, Codonella, Vorticella, Lymnaea, chironomids, Pisidium, Stylodrilus, Ephemera, Nematoda, Asellus, Erpobdella, Ablabesmyia, Polycentropus, Coregonus albula, Coregonus lavaretus, Sida, Eurycerus, Daphnia, Bosmina, young fish, phytoplankton, aquatic plants, Rutilus rutilus, Gymnocephalus cemus, Perea fluviatilis
<b>Port Cros (1998), <math>\rho = 0.259</math></b>
Foraminifera, Brittle stars +, Sea cucumbers, Small zooplankton, Bivalves, Small crustaceans, Sea urchins, Gorgonians, Amphipods, Gastropods, Mullet, Suspensivores, Sea worms, Crabs, Decapods, Cephalopods, Stripped red mullet +, Sea stars, Large zooplankton, Horse mackerels and sand smelts +, Wrasses, Blennies +, Gobies, Pipefishes +, Scorpionfishes and combers +, Large-scaled scorpionfish +, Amberjack and dentex +, Posidonia, Shallow seaweeds, Salema - adults, Salema - juveniles, Diplodus +, Pagellus, Deep seaweeds, Phytoplankton, Dusky grouper - small, Seabirds, Dusky grouper - medium, Dusky grouper - large, Rays
<b>Thermaikos Gulf (1998), <math>\rho = 0.255</math></b>
Zooplankton, Benthic small crustaceans, Benthic invertebrates, Polychaetes, Shrimps, Crabs, Seabirds, Red mullets, Loggerhead turtle, Other small pelagics, Octopuses and cuttlefish, Horse mackerels, Mackerels, Other gadiforms, Flatfishes, Squids, Hake, Rays and skates, Demersal fishes 2, Sardine, Sharks, Demersal fishes 3, Picarels and bogue, Anchovy, Demersal fishes 4, Demersal fishes 1, Anglerfish, Medium pelagics, Phytoplankton, Large pelagics, Dolphins
<b>Mauritanie (1991), <math>\rho = 0.254</math></b>
Continued on next page

**Table 3 – continued from previous page**

mesozooplankton, BA mesozooplankton, BA meiobenthos, shelf meiobenthos, shelf molluscs, shelf worms, BA worms, BA molluscs, Mulletts, BA crustaceans, shelf crustaceans, shelf other inverts, BA other inverts, Cephalopods, macrozooplankton, BA macrozooplankton, BA L crustaceans, shelf L crustaceans, Horse mackerels, Coastal M, Shelf M, Mackerel, Croakers ad, Sardinelles, Sparids ad, Coastal birds, Catfish ad, Groupers ad, Shelf L, Seabreams ad, Coastal selacians, Shelf S, Coastal S, Sparids juv, Seabreams juv., Sardine, Shelf soles, Shelf selacians, Croakers juv, Catfish juv, Pelagic L, algae and eelgrass, BA phytoplankton, phytoplankton, Octopus vulgaris, Scianids, Grouper juv, Meagre juv, Meagre ad, Marine mammals
<b>Bay of Biscay (1970), <math>\rho = 0.253</math></b>
Small Deepwater, Worms, Zooplankton Large, Molluscs, Sponges/Epibenthic, Shrimps/Prawns, Echinoderms, Crabs, Benthic Infauna, Cephalopods, Medium (Big end) Demersal High Troph, Small Demersal, Medium Pelagic, Really Small Demersal High Troph, Extra Large Demersal Low Troph, Medium (Small end) Demersal, Large Pelagic, Large Demersal, Rays/Skates, Small Sharks, Extra Large Demersal High Troph, Large Deepwater, Large Sharks, Zooplankton Small, Small Pelagic Low Troph, Anchovy, Really Small Demersal Low Troph, Sardine, Small Pelagic High Troph, Toothed Cetaceans, Primary Producers, Medium Deepwater, Baleen Whales, Birds, Extra Large Pelagic, Tuna-like fish
<b>Guinea (1985), <math>\rho = 0.253</math></b>
Large zooplankton, Small zooplankton, Benthos, Crustacea, Cephalopods, Mulletts+, Sardinella+, Horse mackerels+, ML demersal invert.eaters, S. demersal invert.eaters, Seabream+, SM demersal pred.eaters, L. demersal pred.eaters, Bobo croaker, Sea birds, Barracudas+, Carangids, Other croakers, Sharks+, Large pelagics, Primary producers, Rays+, Sea catfish, Dolphins, Ethmalosa, Bathy-dem pred.eaters, Grunts+, Giant Afr. threadfin, Bathy-dem invert.eaters, Turtles, Soles+, Lesser Afr. threadfin, Royal threadfin, Whales
<b>Sinaloa sur MEXICO (1994), <math>\rho = 0.252</math></b>
Gastropoda, Macrocrustáceos, Polychaeta, Zooplankton, Penaeidae, Celenterata, Porifera, Bivalvia, Stomatopoda, Otros peces, Portunidae, Pleuronectiform, Carangidae, Echinodermata, Serranidae, Lutjanidae, Coryphaenidae, Mugilidae, Gerreidae, Clupeidae, Ariidae, Rajiformes, Macrofitas, Sciaenidae, Cephalopoda, Cheloniidae, Haemulidae, Poly./Mullidae, Scorp./Triglida, Scombridae, Fitoplancton, Palinura, Tetraodontidae, Centropomidae, Aves, Synodontidae
<b>Virgin Islands (1960), <math>\rho = 0.251</math></b>
I7 Decom/Microf, F9 ReefherbBG, F8 ReefherbSM, I5 Sess.Animals, I3 Crustacea, I4 Worm/-Mollusc, I2 Echinoderms, F6 ReefomniSM, F1 Sharks/Rays, F4 ReefcarnBG, F3 Schoolfish1, F2 Scombr/Jacks, F5 Schoolfish2, I6 Zoopankton, Benthic prod., I1 Cephalopods, Phytoplankton, R1 Sea turtles, F7 Biggroupers, B1 Sea birds
<b>West Florida Shelf Historic Model (1950), <math>\rho = 0.251</math></b>
Continued on next page



**Table 3 – continued from previous page**

Microbial Heterotrophs, Mulletts, Bivalves, Small Copepods, Sessile epibenthos, Meiofauna, Small infauna, Other Mesozooplankton, Small mobile epifauna, Echinoderms Large gastropods, Ichthyoplankton, CarnivZooplank, Anchovies and silversides, Adult Shrimps, coastal omnivores, Sardine Herring Scad complex, Stomatopods, Squid, Large Crabs, small coastal carnivores, reef carnivores, large coastal carnivores, oceanic small pelagics, black grouper 0, jacks wahoo dolphinfish tunnies, black grouper 1, other snapper, Rays skates, Red snapper juv, reef omnivores, Billfish Tuna, CarnivJellyfish, tilefish, Large coastal sharks, Black sea bass, king mackerel adult, Small coastal sharks, Octopods, Lobsters, other shallow water grouper, red grouper 1, amberjacks/rudderfish, coastal piscivores, red grouper 0, Vermilion snapper, gag 0, Spanish mackerel juv, gag 1, yellowedge grouper 0, king Mackerel juv, red snapper adult, Spanish mackerel adult, Phytoplankton, triggerfish, Yellowedge grouper 1, Cobia, red grouper 3, other deep water grouper, black grouper 3, goliath grouper, yellowedge grouper 3, gag 3, Dolphins, Seabirds, Macroalgae, Sea grasses, Microphytobenthos
<b>Looe Key National Marine Sanctuary (1980), <math>\rho = 0.250</math></b>
Decomp/Microf, LgReefHerbivore, SmReefHerbivore, Sessile Animals, Crustaceans, Worms/-Molluscs, Echinoderms, SmReefCarnivore, Sharks/Rays, LgReefCarnivore, Large Planktiv., Sm.Planktivores, Zooplankton, Cephalopods, Benthic prod., Midwater Pisc., Phytoplankton, Sea Turtles, Lg.Groupers
<b>Bolinao Coral Reef (1980), <math>\rho = 0.250</math></b>
Molluscs, Sea cucumber, Sea Urchins, Siganus fusc., Zooplankton, Ot.invertebr., Siganus spinus, Damselfishes, Coral.cons., Crustaceans, Ot.herbiv.f., Ot.omniv.f., Ot.planktiv.f., Ot.pisciv.f., Gobies, Moray, Cardinalfishes, Parrotfish, Squid, Coral.prod., Phytoplankton, Seagrass, Seaweeds, Wrasse (c.a.), Groupers (e.m.)
<b>Hudson Bay (1970), <math>\rho = 0.249</math></b>
MicroZooplankton, Copepods, Other Benthos, Bivalves, Marine Worms, Other MesoZooplankton, Crustaceans, Euphausiids, MacroZooplankton, Other Marine Fish, Sandlance, Capelin, Brackish Fish, Seabirds, Echinoderms, Cephalopods, Atlantic Salmon, Arctic Char, Gadiformes, Sculpins/Zoarcids, Killer Whale, SH Polar Bear, Polar Bear WHB, Polar Bear Foxe, Sharks/Rays, Walrus S, Ice Algae, Primary Production, Walrus N, Bowhead, Beluga E, Bearded Seal, Beluga James, Beluga W, Harbour Seal, Narwhal, Ringed Seal, Harp seal
<b>Celtic Sea (1985), <math>\rho = 0.248</math></b>
Bacteria, Commercial bivalves, Suspension/Surface detritus feeder benth. inv., Mesozooplankton - Small, Benthic meiofauna, Microzooplankton, Mesozooplankton - Large, Macrozooplankton, Suprabenthos, Subsurface deposit feeder benth. inv., Carnivorous/Necrophagous benth. inv., Shrimps, Horse mackerel, Benthic cephalopods, Commercial crustaceans, Mackerel, Nephrops, Squids, Epibenthivorous demer. fish, Pouts, Pelagic sharks, Benthivorous demer. elasmobranchs, Hake large, Pilchard, Cod small, Hake small, Cod large, Anglerfish large, Anglerfish small, Pelagic fish - Medium, Small benthivorous demer. fish, Sea bass, Toothed cetaceans / Seals, Megrim, Carnivorous demer. elasmobranchs, Piscivorous demer. fish, Whiting, Pelagic fish - Large, Herring, Suprabenthivorous demer. fish, Sprat, Endobenthivorous demer. fish, Blue whiting, Seabirds - Surface feeders, Seabirds - Divers, Phytoplankton - Large, Phytoplankton - Small, Boarfish, Sole, Plaice, Haddock, Baleen whales
<b>West Scotland (2000), <math>\rho = 0.247</math></b>
Epifauna, Infauna, Small zooplankton, Polychaetes, Large zooplankton, Euphausiids, Prawns/shrimps, Halibut/turbot/brill, Other benthic inverts, Echinoderms, Other demersals, Gurnards, Other pelagics, Cod, Saithe, Herring, Sharks, Seals, Cetaceans, Haddock, Seabirds, Cephalopods, Rays/Skates, Whiting, Mackerel, Crabs/lobsters, Salmo, Trachurus, Phytoplankton, Sprat, Sandeel, Norway pout, Nephrops, Sole, Plaice, Inshore fish
Continued on next page

**Table 3 – continued from previous page**

<b>South western Gulf of Mexico (1970), <math>\rho = 0.245</math></b>
Annelids, Zooplankton, Microcrustacean, Molluscs, Crabs, Shrimps, Other fishes, Herrings, Jacks, Flounder, Catfish, Red grouper, Sharks, Benthic prod., Anchovies, Red snapper, Mojarra, Phytoplankton, Seatrout, Grunts, Lizard fish, Span. mackerel, King mackerel
<b>Galapagos, Floreana rocky reef (2000), <math>\rho = 0.245</math></b>
Herbivorous zooplankton, Small benthic invertebrate eaters, Filter + suspension feeders, Lytechinus urchin, Other sea cucumbers, Small crustaceans, Shrimps and small crabs, Tripneustes urchin, Parrotfishes, Other urchins, Pepino sea cucumber, Small gastropods, Detritivorous fish, Chitons, Stony corals, Worms and ophioroids, Anemones, Eucidaris urchin, Other herbivorous fish, Asteroids, Omnivorous reef fishes, Large benthic invertebrate eaters, Non-commercial reef predators, Octopods, Slipper lobster, Spiny lobsters, Hexaplex gastropod, Sharks, Carnivorous zooplankton, Planktivorous reef fish, Pelagic planktivores, Sea lions, Birds, Toothed cetaceans, Benthic algae, Microphytobenthos, Phytoplankton, Marine iguana, Sea turtles, Other commercial reef predators, Pelagic predators, Bacalao
<b>USA, South Atlantic Continental Shelf (1995), <math>\rho = 0.245</math></b>
Zooplankton, Bivalves, Benthic macrofauna (and meiofauna), Sessile epibenthos, Echinoderms and gastropods, Demersal omnivores, Shrimp, Crabs, Other fishes, Jellies, Forage fishes, Stomatopods, Demersal invertebrate-eaters, Lobsters, Benthic piscivores, Benthic rays/skates, Flounder, Drum and croaker, Marine birds, Demersal piscivores, Snappers, Mackerel, Groupers, Pelagic planktivores, Toothed cetaceans, Sharks (and alligators), Tuna, Macroalgae, Squid, Jacks, Benthic invertebrate-eaters, Pelagic piscivores, Microphytobenthos, Sea grasses, Billfishes, Phytoplankton, Manatees, Sea turtles, Demersal planktivores, Baleen whales, Octopods
<b>Mondego Estuary - Zostrea site, <math>\rho = 0.243</math></b>
Hydrobia ulvae, Melita palmata, Ampithoe ferox, Gibulla, Littorina, Cyathura carinata, Scrobicularia plana, Cerastoderma edule, Modiolus, Amage adspersa, Capitella capitata, Heteromastus filifor, Oligochaeta, Other detrivors, Sphaeroma hookeri, Idotea chelipes, Lumbrineris impatien, Microalgae and detri, Diopatra neapolitana, Nereis diversicolor, Carcinus maenas, Crangon crangon, Macrofauna predators, Nephtys, Other predatory inve, Endofauna consumers, Larus fuscus, Zooplankton, Trigla lucerna, Larus ridibundus, Phytoplankton, Enteromorpha sp, Ulva lactuca, Zostera, Epiphytes, Gracilaria, Kentish Plover, Zooplankton consumer, Pomatoschistus minut, Grey Plover, Dunlin, Ringed Plover
<b>Raja Ampat (2005), <math>\rho = 0.240</math></b>
Continued on next page

**Table 3 – continued from previous page**

<p>Infaunal invertebrates, Jellyfish and hydroids, Shrimps and prawns, Penaeid shrimps, Hermatypic scleractinian corals, Non reef building scleractinian corals, Azooxanthellate corals, Soft corals, Sea cucumbers, Epifaunal detritivorous invertebrates, Epifaunal carnivorous invertebrates, Bivalves, Sessile filter feeders, Adult scraping grazers, Juvenile macro algal browsing, Detritivore fish, Juvenile scraping grazers, Juvenile medium reef associated, Adult macro algal browsing, Small crabs, Large crabs, Juvenile small planktivore, Juvenile small reef asociated, Juvenile small pelagic, Adult small reef associated, Juvenile butterflyfish, Juvenile small demersal, Juvenile large reef associated, Adult large reef associated, Adult medium reef associated, Octopus, Adult small demersal, Adult butterflyfish, Adult large demersal, Anemonies, Adult small planktivore, Juvenile deepwater fish, Adult small pelagic, Cleaner wrasse, Adult large planktivore, Squid, Juvenile medium pelagic, Adult medium pelagic, Juvenile Napoleon wrasse, Adult large sharks, Juvenile small sharks, Adult rays, Juvenile large planktivore, Juvenile large demersal, Subadult Napoleon wrasse, Skipjack tuna, Adult snappers, Juvenile large pelagic, Adult large pelagic, Adult deepwater fish, Subadult snappers, Birds, Adult Napoleon wrasse, Juvenile large sharks, Mackerel, Other tuna, Lobsters, Adult eroding grazers, Giant triton, Carnivorous zooplankton, Large herbivorous zooplankton, Small herbivorous zooplankton, Phytoplankton, Adult anchovy, Herbivorous echinoids, Juvenile anchovy, Subadult groupers, Adult groupers, Green turtles, Juvenile eroding grazers, Crown of thorns, Billfish, Crocodiles, Juvenile groupers, Juvenile snappers, Sea grass, Reef associated turtles, Juvenile rays, Oceanic turtles, Manta ray, Whale shark, Juvenile coral trout, Adult coral trout, Adult small sharks, Macro algae, Calcareous algae, Mangroves, Dugongs, Mysticetae, Deepdiving odontocetae, Piscivorous odontocetae</p>
<p><b>Raja Ampat (1990), <math>\rho = 0.240</math></b></p>
<p>Infaunal invertebrates, Jellyfish and hydroids, Shrimps and prawns, Penaeid shrimps, Hermatypic scleractinian corals, Non reef building scleractinian corals, Azooxanthellate corals, Soft corals, Sea cucumbers, Epifaunal detritivorous invertebrates, Epifaunal carnivorous invertebrates, Bivalves, Sessile filter feeders, Adult scraping grazers, Juvenile macro algal browsing, Detritivore fish, Juvenile scraping grazers, Juvenile medium reef associated, Adult macro algal browsing, Small crabs, Large crabs, Juvenile small planktivore, Juvenile small reef asociated, Juvenile small pelagic, Adult small reef associated, Juvenile butterflyfish, Juvenile small demersal, Adult large reef associated, Adult medium reef associated, Adult butterflyfish, Adult large demersal, Juvenile large reef associated, Octopus, Adult small demersal, Anemonies, Juvenile deepwater fish, Adult small planktivore, Cleaner wrasse, Adult small pelagic, Adult large planktivore, Juvenile Napoleon wrasse, Birds, Adult large sharks, Squid, Juvenile medium pelagic, Adult medium pelagic, Juvenile small sharks, Adult rays, Juvenile large planktivore, Juvenile large pelagic, Juvenile large demersal, Adult large pelagic, Skipjack tuna, Adult deepwater fish, Juvenile large sharks, Mackerel, Adult snappers, Subadult snappers, Herbivorous echinoids, Other tuna, Adult eroding grazers, Giant triton, Carnivorous zooplankton, Large herbivorous zooplankton, Subadult Napoleon wrasse, Adult Napoleon wrasse, Small herbivorous zooplankton, Phytoplankton, Subadult groupers, Adult groupers, Adult anchovy, Juvenile anchovy, Green turtles, Juvenile eroding grazers, Lobsters, Crown of thorns, Crocodiles, Billfish, Juvenile groupers, Juvenile snappers, Sea grass, Reef associated turtles, Juvenile rays, Oceanic turtles, Manta ray, Whale shark, Juvenile coral trout, Adult coral trout, Adult small sharks, Macro algae, Calcareous algae, Mangroves, Dugongs, Mysticetae, Deepdiving odontocetae, Piscivorous odontocetae</p>
<p><b>Northern Gulf of St Lawrence (1990), <math>\rho = 0.238</math></b></p>
<p>Echinoderms, Molluscs, Other bent. invert., Small zooplankton, Large zooplankton, Shrimp, Polychaetes, Large crustacea, Flounders, Sand lance, S. demersals, Skates, American plaice, Capelin, Redfish, Small cod, S. Greenland halibut, Arctic cod, Planktivorous small pelagics, Piscivorous small pelagics, Large pelagics, Large cod, L. demersals, L. Greenland halibut, Phytoplankton, Cetacea, Seabirds, Harp seals, Harbour seals, Grey seals, Hooded seals</p>
<p>Continued on next page</p>

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<b>Mangrove Estuary - Dry Season, <math>\rho = 0.237</math></b>
INSCT, MICR. H2O, EPIFN, BACT.SED., VULT, TCRAB, BVLVS, AMPHI, SCRUST, PEN- NAID, DCRAB, CARID, MANA, LARV, POEC, BEAR, FWINV, OSHMP, MERO, ZOOPL., AGAST, OPSU, TGASt, OCRAB, PCrAB, DUCK1, FLA. SED., CIL. SED., KILLI, MULL, POLY, MEIOF., MBENTH, DUCK2, GOBY, TURT, JLOBST, PIN, RACO, HERR, ANCH, FWFSH, BENTH, MOJA, RAYS, SNKS, SLVR, COCO, OFISH, MRAPT, FOX, CATS, HRSE, OTH. PP, K & H, OWLS, SPIDR, SCIAE, EFISH, SNAP, NEED, AMPH, SNOOK, LZRD, TARP, LEAF, CUDA, PASSOMN, WOODP, C & C, PASSPERD, SSBIRDS, G & T, GUIF, SE & E, IBIS, BH & E, SHRK, L & G, DUCK3, CORM, PELC, DOLP, PHY, WOOD, ROOT, RABT, SQIUR, DERS, M & R, M & O
<b>Mangrove Estuary - Wet Season, <math>\rho = 0.237</math></b>
INSCT, MICR. H2O, EPIFN, BACT.SED., VULT, TCRAB, BVLVS, AMPHI, SCRUST, PE- NAID, CARID, DCRAB, MANA, LARV, POEC, FWINV, BEAR, OSHMP, OCRAB, PCrAB, MERO, ZOOPL., AGAST, DUCK1, TGASt, OPSU, FLA. SED., KILLI, CIL. SED., POLY, MEIOF., MBENTH, MULL, DUCK2, GOBY, TURT, RACO, JLOBST, HERR, ANCH, PIN, FWFSH, BENTH, MOJA, RAYS, SNKS, COCO, SLVR, OFISH, MRAPT, HRSE, OTH. PP, CATS, FOX, K & H, OWLS, SPIDR, SCIAE, EFISH, SNAP, NEED, AMPH, SNOOK, LZRD, TARP, LEAF, CUDA, PASSOMN, WOODP, C & C, PASSPERD, SSBIRDS, G & T, GUIF, SE & E, IBIS, BH & E, SHRK, L & G, DUCK3, PELC, CORM, DOLP, PHY, WOOD, ROOT, RABT, SQIUR, DERS, M & R, M & O
<b>Morocco (1985), <math>\rho = 0.235</math></b>
Lg. zooplankton, Other benthos, Worms, Sm. deep water bottom, Detrital feeders, Shrimp, Crabs, Predatory echinoderms, Sm. demersal, Cephalopods, Med. demersal comm., Sardines, Med. demersal, Tunas, Lg. demersal comm., V. lg. demersal comm., Lg. demersal sharks/rays, Sm. zooplankton, Sm. bathypelagic, Med. pelagic comm., Pelagic sharks, Mesopelagic prey, Lg. bathypelagic, Toothed whales/dolphins, Lg. demersal, Med. pelagic, Sm. demersal sharks/rays, Lg. pelagic, Primary producers, Turtles, Lobsters, Lg. deep water bottom, Med. bathypelagic, V. lg. demersal, Seabirds, Lg. deep water comm., Baleen whales
<b>Sonda Campeche Act (1988), <math>\rho = 0.234</math></b>
Infauna, Zooplankton, Epifauna, Camarón, Pulpo, Mojarras, Bagres, Lenguados, Roncos, Meros, Sierras, Tiburones, Otros peces, Pargos, Sardinias, Corvinas, Jureles, Macrofitas bent., Sargos, Fitoplancton, Tortugas marinas, Calamar, Aves marinas, Delfines
<b>Tagus estuary, Portugal , <math>\rho = 0.233</math></b>
Crassostrea angulata, Scrobicularia plana, Cerastodenlla, Mytilus, bacteria, Gammaridae, Coro- pllium, Cirratulidae, Capitellidae, Maldanidae, meiofauna, Carcillus maellas, Crangon, Nereis diversicolor, Nereis succinea, Chelon labrosus, Liza ramada, L. aurata, Ulva, Iteromoplla, Conter conger, phytoplankton, birds, Mysidacea, Copepoda, Ciliata mustela, Dicentrarcellus labrax, Pomatoscellistus minutus, Ellgraulis encrasicolus, Sardina pilcellardus, Clupeidae, Solea vulgaris, Trigla lucerna
<b>Crystal River Creek - Control, <math>\rho = 0.232</math></b>
benthic invertebrates, mullet, zooplankton, sheepshead killifish, goldspotted killifish, striped anchovy, bay anchovy, silver jenny, moharra, silverside, pinfish, longnosed killifish, microphytes, gulf killifish, macrophytes, sheepshead, blacktip shark, needlefish, stingray, gulf flounder
<b>Mauritania (1987), <math>\rho = 0.232</math></b>
Continued on next page

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micro zooplankton, meso zooplankton, mugilides, macrobenthos, crustaces non-comm, crustaces comm, dem S inv, dem L pred, cephalopodes comm, macrozooplankton, clupeides, maquereau, chinchards, cephalopodes non-comm, mesopel pred, dem M inv, bathydem S pred, Selaciens L pred, sabres, dauphins, merlu, Selaciens L inv, pel L pred, mesopel inv, pel M planc, dem S pred, dem M pred, sparides comm, thon hauturier, producteurs primaires, bathydem S inv, dem L inv, pel L inv, thon cotier, raie M, oiseaux, orque
<b>Calvi Bay (1998), <math>\rho = 0.232</math></b>
Protozoa, Ot. Crustacea, Pel. Bacteria, Herb. Fish, Echinoderms, Amphipods, Gastropods, Polychaetes, Susp. Feeders, Decapods, Inv. Feeders 4, Zooplankton, Sea Birds, Macroalgae, Piscivores, M-carnivores, Inv. Feeders 1, Macro-Plankton, Phytoplankton, Inv. Feeders 3, Plankt. Fish, Mugil spp., Blennies, D. puntazzo, Inv. Feeders 2, Cephalopods
<b>Mauritania (1998), <math>\rho = 0.232</math></b>
micro zooplankton, meso zooplankton, mugilides, macrobenthos, crustaces non-comm, crustaces comm, dem S inv, dem L pred, cephalopodes comm, macrozooplankton, clupeides, maquereau, chinchards, cephalopodes non-comm, mesopel pred, dem M inv, bathydem S pred, sabres, Selaciens L pred, dauphins, merlu, Selaciens L inv, pel L pred, mesopel inv, pel M planc, dem S pred, dem M pred, sparides comm, thon hauturier, producteurs primaires, bathydem S inv, dem L inv, pel L inv, thon cotier, raie M, oiseaux, orque
<b>Bay of Biscay (1998), <math>\rho = 0.231</math></b>
Zooplankton Large, Small Deepwater, Crabs, Worms, Molluscs, Sponges/Epibenthic, Shrimps/Prawns, Echinoderms, Cephalopods, Medium Pelagic, Medium (Big end) Demersal High Troph, Extra Large Demersal Low Troph, Medium (Small end) Demersal, Large Pelagic, Large Demersal, Rays/Skates, Small Sharks, Extra Large Demersal High Troph, Large Deepwater, Really Small Demersal High Troph, Large Sharks, Zooplankton Small, Small Pelagic Low Troph, Small Demersal, Small Pelagic High Troph, Really Small Demersal Low Troph, Anchovy, Sardine, Benthic Infauna, Toothed Cetaceans, Primary Producers, Baleen Whales, Medium Deepwater, Birds, Extra Large Pelagic, Tuna-like fish
<b>Independence Bay (1996), <math>\rho = 0.231</math></b>
zooplankton, littoral fish , benthic detritivores, herbivorous gastropods, scallops, polychaetes, sea urchins, misc. filter feeders, predatory gastropods, small carnivores, sea stars, predatory crabs, small pelagic fish, pelagic predatory fish , octopus , macroalgae, Phytoplankton, sea birds, marine mammals
<b>Cape Verde (1981), <math>\rho = 0.230</math></b>
Zooplankton, Microfauna, Herbivores, Heterotrophic b, Molluscs/Worms, Echinoderms, Crustaceans, Small pelagics, O Demersal fish, Demersal sharks, Flatfish, Rays, Pelagic sharks, Benthic autotro, Sparids, Reef feeders, Large Tuna, Demersal predat, Pelagic predato, Small tuna, Demersal fish, Flyingfish, Jacks, Bathydemersal, Phytoplankton, Turtles, Sea birds, Moray eels, Billfish, Mammals
<b>Antarctic (1970), <math>\rho = 0.229</math></b>
Continued on next page

**Table 3 – continued from previous page**

Copepods, Hemichordata, Holothuroidea, Micro-Zooplankton, Macro-Zooplankton, Porifera, Bryozoa, Mollusca, Urochordata, Krill Sub-adult, Brachiopoda, Asteroidea, Arthropod Crustacea, Crinoidea, Worms, Krill Adult, Arthropod Other, Cnidaria, Small Nototheniidae, Salps, Pleuragramma antarcticum, Other Pelagics, Cephalopods, Other Icefish, Large Nototheniidae, Toothfish, Ophiuroidea, Echinoidea, Killer Whales, Leopard Seal, Notothenia gibberifrons, Deep demersals Small, Deep demersals Large, Myctophids, Champsocephalus gunnari, Cryptophytes, Other Phytoplankton, Diatoms, Ice algae, Shallow Demersals, Flying birds, Krill Juvenile, Krill Larvae, Minke whales, Fin Whales, Humpback whales, Blue Whales, Crabeater Seal, Adelie Penguins, Macaroni Penguin, Antarctic Fur Seals, Emperor penguins, Chinstrap Penguins, Gentoo Penguins, Weddell Seal, Ross Seal, Sperm whales, Southern Elephant Seals
<b>Irish Sea (1973), <math>\rho = 0.229</math></b>
Infauna (Polychaete), Herbivorous Zooplankton, Meiofauna, Infaunal Mesobenthos, Prawns and Shrimp, Sessile Epifauna, Lobster and Large Crabs, Omnivorous Zooplankton, Carnivorous Zooplankton, Epifaunal Macrobenthos, Gelatinous Zooplankton, Cephalopods, Infaunal Macrobenthos, Sandeels, Nephrops, Mackerel, Other Small Gadoids, Whiting, Skates and Rays, Epifaunal Mesobenthos, Adult Cod 2+, Seabirds, Baleen Whales, Toothed Whales, Medium Flatfish, Small Pelagic Planktivorous Fish, Adult Haddock 2+, Other Small Demersal, Dragonets, Phytoplankton, Other Large Gadoids, Monkfish, Juvenile Haddock Age 1, Juvenile Cod Age 1, Gurnards, Juvenile Plaice Age 1, Small Flatfish, Sole, Adult Plaice 2+, Other Large Demersals, Mullet, Seatrout, Small Sharks, Large Flatfish, Large Sharks, Bass, Microflora, Seaweed, Basking Sharks, Seals
<b>Galapagos (2006), <math>\rho = 0.228</math></b>
Predatory zooplankton, Herbivorous zooplankton, Mulletts, Herbivorous benthic fishes, Sea cucumbers, Small herbivorous gastropods, Sponges and polychaetes, Stony corals, Sea stars and sea urchins, Benthic omnivorous fishes, Small benthic predatory fishes, Benthic predatory fishes, Shrimps and small crabs, Anemones and zoanthids, Small predators gastropods, Parrotfishes, Lobsters, Sharks, Predatory macroinvertebrates, Rays, Planktivorous reef fishes, Small planktivorous reef fishes, Macroalgae, Predatory marine mammals, Phytoplankton, Zooxanthella, Sea turtles, Groupers, Pelagic predatory fish, Dolphins, Hammerhead sharks, Seabirds
<b>Albatross Bay (1986), <math>\rho = 0.227</math></b>
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Benthic herbivores, Estuarine microbial heterotrophs, Estuarine zooplankton, Estuary detritivores, Insects, Marine microbial heterotrophs, Marine zooplankton, All other non-commercial prawns, Small benthopelagic invert feeders, Small benthic invert feeders, Small pelagic piscivores, Turtles, Small benthic piscivores, Echinoids, Estuary pelagic herbivores, Estuarine bivalves, Banana prawn adult, Marine bivalves, Ophioroids, Holothurians, Marine worms, Estuarine worms, Marine small crustaceans, Marine small gastropods, Other large crabs, Marine meiofauna, Estuarine meiofauna, Sessile epibenthos, estuarine small crustaceans, Estuarine small gastropods, Spatangoids, Estuary small benthic invert feeders, Squid and cuttlefishes, Estuarine ichthyoplankton, Small jellies, Asteriods, Marine ichthyoplankton, Large jellies, Crayfish, The mud crab, Red mud crab, Sand crab, Thallasinid prawns ( <i>Callinassa</i> ), All other commercial prawns, Estuary large benthic pisc/prawn feeders, Stomatopods, Octopus, Dolphins, Estuary planktivores, Small pelagic planktivores, Estuary lg teleost benthopelagic pisc/prawn feeder, Medium pelagic piscivores, Estuary lg elasmobranch benthopelagic pisc/prawn feeders, Estuary benthic herbivores, Crocodiles, Marine forams, Mangroves, Seagrass, Estuary insectivores, Large elasmobranch benthopelagic piscivores, Large benthopelagic invert feeders, Large teleost benthopelagic piscivores, Estuarine macroalgae, Banana prawn juvenile, Tiger prawn subadults, Tiger prawn juvenile, Dugongs, Tiger prawn adult, Polychaete feeders, Estuarine phytoplankton, Large gastropods, Estuary polychaete feeders, Banana prawn subadults, Estuary large benthic invert feeders (Rays), Estuary large benthopelagic invert feeders, Scavengers, Large teleost benthic piscivores, Microphytobenthos, Marine phytoplankton, Marine macroalgae, Large pelagic planktivores, Large elasmobranch benthic invert feeders, Small benthopelagic piscivores, Large teleost benthic invert feeders, Common terns, Large pelagic piscivores, Brown boobies, Sawfishes, Crested terns, Lesser frigates, Sea snakes, Estuarine forams
<b>Sierra Leone (1990), <math>\rho = 0.222</math></b>
Carnivorous zooplankton, Herbivorous zooplankton, Benthos, Mulletts and other herbivores, Sardinellas, Scads and mackerels, Crustaceans, Cephalopods, Small pelagic invert feeders, Small demersal predators, Small demersal invert feeders, Medium demersal invert feeders, Sickie-and-spadefish, L Coastal Sharks and Rays, Large pelagic predators, Croakers, Large demersal predators, Large demersal invert feeders, Jacks, Small Tuna, L Deep Sharks and Rays, Bongo shad, Large Tuna, M Coastal Sharks and Rays, Mesopelagics, M Deep Sharks and Rays, Catfish, Toothed whales and dolphins, Baleen whales, Royal Threadfin, Lesser African Threadfin, Large Bathypelagic predators, Large Bathydem predators, Primary producers, Small pelagic predators, Turtles, M Bathypelagic invert feeders, SM Bathydem invert feeders, Seabirds, Medium demersal predators, Small Bathypelagic predators, Gaint African Threadfin, Groupers
<b>Sierra Leone 1978 (1978), <math>\rho = 0.222</math></b>
Carnivorous zooplankton, Herbivorous zooplankton, Benthos, Mulletts and other herbivores, Sardinellas, Scads and mackerels, Crustaceans, Cephalopods, Small pelagic invert feeders, Small demersal predators, Small demersal invert feeders, Medium demersal invert feeders, Sickie-and-spadefish, L Coastal Sharks and Rays, Large pelagic predators, Croakers, Large demersal predators, Large demersal invert feeders, Jacks, Small Tuna, L Deep Sharks and Rays, Bongo shad, Large Tuna, Mesopelagics, M Coastal Sharks and Rays, M Deep Sharks and Rays, Catfish, Toothed whales and dolphins, Baleen whales, Royal Threadfin, Lesser African Threadfin, Large Bathypelagic predators, Large Bathydem predators, Primary producers, Small pelagic predators, Turtles, M Bathypelagic invert feeders, SM Bathydem invert feeders, Seabirds, Medium demersal predators, Gaint African Threadfin, Small Bathypelagic predators, Groupers
<b>Peru (1973), <math>\rho = 0.221</math></b>
Zooplankton, Meiobenthos, Makrobenthos, Anchoveta, Sardine, Other pelagics, Hake, Other demersals, Horse mackerel, Mackerel, Benthic prod., Phytoplankton, Cormorant, Booby, Pelican, Bonito, Fur seal, Other mammals, Sea lion
<b>Middle Chesapeake Bay, <math>\rho = 0.220</math></b>
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**Table 3 – continued from previous page**

Free Bacteria, Particle Attached Bacteria, Benthic Bacteria, Suspension Feeding Benthos, Deposit Feeding Benthos, Menhaden, Meiofauna, Meroplankton, Mesozooplankton, Bay anchovy, Spot, Blue Crab, Croaker, Hogchoker, Catfish, White Perch, Rotifers, Ciliates, Ctenophores, Net Phytoplankton, Picoplankton, Heteroflagellates, American eel, Striped Bass, Weakfish, Bluefish, Chrysaora, Microphytobenthos, SAV
<b>Narragansett Bay Model, <math>\rho = 0.220</math></b>
Mesozooplankton, Microzooplankto, Shrimp(Pal,Crg), Menhaden, Bay Anchovy, Pelag Bacteria, SusPoc Bacteria, SedPOC Bacteria, Hard Clam, Ben Meiofauna, Ben Macrofauna, Cancer Crabs, Mummichog, Hetero Microflag, Striped Bass, Dogfish, Phytoplankton, Butterfish, Am. Lobster, Longfin Squid, Bluefish, Fish Larvae, Benthic Alage, Softshell Clam, Atl Silversides, Windowpane, Ctenophores, Scup, Skates, Winter Flounder, Tautog
<b>Guinea (1998), <math>\rho = 0.219</math></b>
Benthos, Zool S, Zool L, Crustacés, Céphalopodes, Côtier pel S inv, Côtier S inv, Mulets, Dem L inv, Pel S inv, Côtier pel L pred, Pel L pred, Dem M inv, Dem S pred, Disques, Côtier M pred, Bars, Sélaciens L côtiers, Thons mineurs, Sélaciens L prof, Côtier L pred, Dem L pred, Producteurs primaires, Sélaciens M côtiers, Sélaciens M prof, Dem S inv, Mésopélagiques, Ethmalose, Côtier M inv, Bathy SM inv, Mâchoiron, Bathy S pred, Dauphins, Bathy L pred, Oiseaux, Capitaine royal, Dem M pred, Tortues, Côtier S pred, Petit capitaine, Baleines, Gros capitaine, Thons majeurs
<b>West Baffin Bay, Coastal and Shelf (2016), <math>\rho = 0.218</math></b>
Bacteria, Microzooplankton, Calanus, Omnivorous zooplankton, Other benthos, Bivalves, Polychaetes, Echinoderms, Large crustaceans, Greenland shark, Sculpins/Eelpouts, Carnivorous zooplankton, Greenland halibut, Cephalopods, Killer whale, Polar bear, Arctic/Polar cod, Small demersal fish, Small pelagic fish, Arctic char, Large demersal fish, Ice algae, Phytoplankton, Walrus, Bowhead whale, Seabirds, Ringed seal, Other seals, Narwhal
<b>Gulf of Carpentaria (1990), <math>\rho = 0.218</math></b>
Small crustaceans, Microbial heterotrophs, Zooplankton, Echinoids, Bivalves, Ophioroids, Holothurians, Worms, Meiofauna, Sessile epibenthos, Small gastropods, All other non-commercial prawns, Small jellies, Ichthyoplankton, Asteriods, Large jellies, Turtles, Spatangoids, Other large crabs, Sand crab, Stomatopods, Sardines and pilchards, Whittings, goatfishes and flounders, Ponyfishes, pinkies and trumpeters, Small tunas and bonitos, Lizardfishes, Octopus, Pelagic scads, The mud crab, All other commercial prawns, Thallasinid prawns (Callianassa), Catfish and flatheads, Dolphins, Large trevallies and barracudas, Sweetlips and grunters, Silver biddies and small catfishes, Large mackerels and tunas, Slipper lobsters, Cobia, groupers and jacks, Red snappers, Black-tip sharks, Jewfishes, Rock lobster, Forams, Squid and cuttlefishes, Banana prawn adult, Garfishes, rabbitfishes and batfishes, Small rays, Seagrass, Tiger prawn adult, Mulletts, Large gastropods, Banana prawn subadults, Mangroves, Microphytobenthos, Medium coastal sharks, Phytoplankton, Macroalgae, Dugongs, Insects, Tiger prawn subadults, Benthic shark / rays, Common terns, Crested terns, Brown boobies, Lesser frigates, Sea snakes, Manta rays, Tiger prawn juvenile, Banana prawn juvenile, Large rays, Eagle rays, Small sharks, Sawfishes, Billfishes, Weasel sharks, Large sharks, Reef sharks, Crocodiles
<b>Sechura Bay (1996), <math>\rho = 0.218</math></b>
Zooplankton, littoral fish, Benthic detritivores, Herbivorous gastropods, Scallops, Polychates, Sea urchins, Misc. filter feeders, Small carnivores, Pedratory gastropods, Predatory crabs, sea stars, small pelagic fish, pelagic predatory fish, octopus, Macroalgae, Phytoplankton, cephalopods, sea birds , marine mammals
<b>Peru (1960), <math>\rho = 0.217</math></b>
Continued on next page



**Table 3 – continued from previous page**

Meiobenthos, Makrobenthos, Zooplankton, Anchoveta, Sardine, Other pelagics, Other demersals, Horse Mackerel, Mackerel, Hake, Benthic prod., Phytoplankton, Bonito, Sea lion, Other mammals, Fur seal, Booby, Cormorant, Pelican
<b>South East Alaska (1963), <math>\rho = 0.217</math></b>
Benthic inverts, L zoo, Epibenthic carnivorous, Shrimps, Sablefish, Deep S, Dem S, Pollock juv, Arrowtooth, Flatfish, Pollock adult, Baleen whales, Rockfish slope, Rockfish shelf, Halibut, Shark and skate, Birds, Dem L, S zoo, Shark mammal eater, Cephalopods, Deep L, Transient orca, Pel S, Salmon, Pacific cod, Pel L, Herring, POP, Sandlance, Marine plants, Phyto, Sea lions embryo, Sea lions pup, Sea otters, Small mammals, Sea lions adults, Sea lions juv, Toothed whales
<b>Western Tropical Pacific Ocean (1990), <math>\rho = 0.217</math></b>
mesozooplankton, crustacea, epipelagic fish, mesopelagic fish, piscivorous fish, small sharks, other sharks, small scombrids, Other billfish, cephalopods, small billfish, skipjack tuna, yellowfin tuna, small phytoplankton, bigeye tuna, large phytoplankton, microzooplankton, Blue shark, Swordfish
<b>Peru (1953), <math>\rho = 0.216</math></b>
Meiobenthos, Makrobenthos, Zooplankton, Anchoveta, Sardine, Other pelagics, Other demersals, Horse Mackerel, Mackerel, Hake, Benthic prod., Phytoplankton, Cormorant, Booby, Pelican, Sea lion, Fur seal, Other mammals, Bonito
<b>North Benguela (1600), <math>\rho = 0.216</math></b>
Microzooplankto, Meiobenthos, Pelagic Goby, Macroenthos, Gelatinous zoop, Other small pel, Large M. capens, Large M. parado, cephalopods, Chondrichtians, Benthic-feeding, Phytoplankton, Mesozooplankton, Macrozooplankto, Pelagic-feeding, Cetaceans, Seabirds, Seals, Large pelagics, Mesopelagics, Sardine, Anchovy, Small Horse mac, Large horse mac, Small M. capens
<b>North Benguela (1990), <math>\rho = 0.216</math></b>
Microzooplankto, Meiobenthos, Pelagic Goby, Macroenthos, Gelatinous zoop, Other small pel, Large M. capens, Large M. parado, cephalopods, Chondrichthyans, Benthic-feeding, Phytoplankton, Mesozooplankton, Macrozooplankto, Pelagic-feeding, Cetaceans, Seabirds, Seals, Large pelagics, Mesopelagics, Sardine, Anchovy, Juvenile horse, Adult horse mac, Small M. capens
<b>North Benguela (1967), <math>\rho = 0.216</math></b>
Microzooplankto, Meiobenthos, Pelagic Goby, Macroenthos, Gelatinous zoop, Other small pel, Large M. capens, Large M. parado, cephalopods, Chondrichthyans, Benthic-feeding, Phytoplankton, Mesozooplankton, Macrozooplankto, Pelagic-feeding, Cetaceans, Seabirds, Seals, Large pelagics, Mesopelagics, Sardine, Anchovy, Juvenile horse, Adult horse mac, Small M. capens
<b>North Benguela (1900), <math>\rho = 0.216</math></b>
Microzooplankto, Meiobenthos, Pelagic Goby, Macroenthos, Gelatinous zoop, Other small pel, Large M. capens, Large M. parado, cephalopods, Chondrichthyans, Benthic-feeding, Phytoplankton, Mesozooplankton, Macrozooplankto, Pelagic-feeding, Cetaceans, Seabirds, Seals, Large pelagics, Mesopelagics, Sardine, Anchovy, Juvenile horse, Adult horse mac, Small M. capens
<b>Northern Gulf St Lawrence (1985), <math>\rho = 0.216</math></b>
Echinoderms, Molluscs, Other ben. inver., Small zooplankton, Large zooplankton, Shrimp, Polychaetes, Sand lance, Small demersals, Redfish, American plaice, Skates, Small Green. halibut, Large crustacea, Capelin, Small cod, Flounders, Plank. small pelagics, Pesci. small pelagics, Large pelagics, Large cod, Large demersals, Arctic cod, Large Green. halibut, Phytoplankton, Cetacea, Seabirds, Harbour seals, Harp seals, Grey seals, Hooded seals
<b>Sri Lanka (2000), <math>\rho = 0.215</math></b>
Continued on next page

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zooplankton, zoobenthos, molluscs, crabs, annelids, shrimps, mugilids, bigeye scad, milk fish , thrissa spp, other clupeids, drums, ponyfishes, other carangids, ribbonfish, sea cat fish, Large tunas, false trevallie, needlefish, medium tunas, yellowstripe, phytoplankton, small barracudas, dolphinfishes, pomfrets, torps, large barracudas, wolf herrings, small tunas, phytobenthos, cephalopods, halfbeaks, flying fishes, herrings, sardines, anchovies, terapontids, indian mackerel, soles
<b>Paraná River Floodplain (1992), <math>\rho = 0.214</math></b>
Insects, Zooplankton, Astyanax altiparanae, Other benthos feeders, Benthos, Hypostomus spp, Cyphocharax modesta, Steindacchinerina insculpta, Prochilodus lineatus, Acestrorhyncus lacustris, Other detritus feeders, Loricariichthys platymetopon, Pterodoras granulosus, Leporinus obtusidens, Other omnivores, Plagioscion squamisissimus, Pseudoplatystoma corruscans, P maculatus, Trachydoras paraguayensis, Leporinus friderici, Hoplosternum littorale, Iheringichthys labrosus, Aquatic macrophytes, Phytoplankton, Other insectivores, Other piscivores, Serrasalmus marginatus, Rhamphodon vulpinis, Salminus brasiliensis, Serrasalmus spiloptera, Brycon orbignyanus, Hoplias malabaricus, Periphyton, Schizodon altoparanae, Schizodon borelii, Parauchenipterus galeatus, Hypophthalmus edentatus, Auchenipterus nuchalis, Hemisorubin platyrhynchus
<b>Barnegat Bay (1981), <math>\rho = 0.214</math></b>
Benthic infauna/epifauna, Bay anchovy, Amphipods, Hard clams, Oyster, Non-piscivorous seabirds, Atlantic Menhaden, Mummichog, Blue crabs, Winter flounder, Atlantic silversides, Spot, River herring, Copepods, Bluefish, Summer flounder, Microzooplankton, Atlantic Croaker, Weakfish, Ctenophores, Striped bass, Benthic algae, Phytoplankton, SAV, Sea nettles, Piscivorous seabirds
<b>Sierra Leone (1964), <math>\rho = 0.214</math></b>
Carnivorous zooplankton, Herbivorous zooplankton, Benthos, Mulletts and other herbivores, Sardinellas, Scads and mackerels, Crustaceans, Small pelagic invert feeders, Small demersal predators, Small demersal invert feeders, Medium demersal invert feeders, Large demersal predators, Sickie-and spadefish, Jacks, Croackers, Cephalopods, Large pelagic predators, Large demersal invert feeders, Bongo shad, L Coastal Sharks and Rays, L Deep Sharks and Rays, Large Tuna, M Coastal Sharks and Rays, Mesopelagics, M Deep Sharks and Rays, Catfish, Small Bathypelagic predators, SM Bathydem invert feeders, Royal Threadfin, M Bathypelagic invert feeders, Small pelagic predators, Lesser African Threadfin, Primary producers, Turtles, Seabirds, Medium demersal predators, Baleen whales, Large Bathypelagic predators, Gaint African Threadfin, Groupers, Small Tuna, Large Bathydem predators, Toothed whales and dolphins
<b>Ningaloo (2007), <math>\rho = 0.213</math></b>
Adult Turtles, Dugongs, Urchins, Benthos, Herbivores, Zooplankton, Small reef fish, Squid, Manta Rays, Sm Coral, Lobster, Shells, Lg Coral, Kingprawn, Crabs, Octopus, Bananaprawn, Demersal sharks, Shallow demersal fish, Hatchlings, Foxes, Saurids, Lethrinids juv, Whales, Dolphins, Pelagic sharks, Ospreys, Queenfish, Serranids, Small lutjanids, Reef Associated Pelagics, Small pelagics, Mackerels, Tuskfish, Trevallies, Coastal seabird, Nemipterids, Buffell grass, Native grass, Phytoplankton, Lethrinids adults, Coral Spawn, Macrophytes, Goats and sheep, Marsupial grazers, Whale sharks, Turtle eggs, L nebulosus juv, Tuna and billfish, L nebulosus adult
<b>Greenland, West Coast (1997), <math>\rho = 0.212</math></b>
Small Zooplankton, Large Zooplankton, Benthos, Other bot fish, Northern shrimp, Long rough Dab, Thorny ray, Grl. halibut juv, Other pel fish, Squids, Redfish juv less 15cm, Polar cod, Redfish larger than 14cm, Cod juv, Toothed whales, Phytoplankton, Baleen whales, Seabirds, Cod 4+, Grl. halibut 5+, Seals
<b>Azores (1997), <math>\rho = 0.211</math></b>
Continued on next page

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Small Zooplankton, Benthic filter feeders, Other benthos, Benthic worms, Crabs, Large Zooplankton, Shrimp, Demersal S, Cephalopods, Mesopelagics, Pelagic M, Shallow water S, Shallow water M, DW sharks, Pelagic S, Pelagic sharks, Rays and other sharks, H. dactylopterus, Bahtydemersal L, Beryx decadactylus, Toothed whales, Conger conger, Pelagic L, Bathydemersal S, Shallow water L, Demersal M, Algae, Bathydemersal M, Bathypelagic, Pagellus bogaraveo, Demersal L, Lepidopus caudatus, Phytoplankton, Pagrus pagrus, Baleen whales, Turtles, Beryx splendens, Pontinus kuhlii, Phycis phycis, Tunas, Seabirds, Raja clavata, Mora moro, Dolphins
<b>Bay of Biscay (1980), <math>\rho = 0.210</math></b>
Bacteria, Surface suspension and deposit feeders, Subsurface deposit feeders invertebrates, Shrimps, Benthic meiofauna, Suprabenthic invertebrates, Microzooplankton, Mesozooplankton, Demersal S, Carnivorous and necrophagous benthic invertebrates, Lobsters/Crabs, Demersal M, Demersal L, Whitting, Norway lobster, Sharks/rays, Macrozooplankton, Sharks L, Sardine, Cephalopods, Hake adulte, Toothed whales, Anchovy, Pouts, Pelagic M, Horse mackerel, Mackerel, Anglerfish, Blue whitting, Pelagic L, Sole, Surface feeders seabirds, Plunge and pursuit divers seabirds, Benthic producers , Phytoplankton L, Phytoplankton S, Plaice, Baleen whales, Hake juvenile, Megrim, Sea bass
<b>Bay of Biscay (2013), <math>\rho = 0.210</math></b>
Bacteria, Surface suspension and deposit feeders, Subsurface deposit feeders invertebrates, Shrimps, Benthic meiofauna, Suprabenthic invertebrates, Microzooplankton, Mesozooplankton, Demersal S, Carnivorous and necrophagous benthic invertebrates, Lobsters/Crabs, Demersal M, Demersal L, Whitting, Norway lobster, Sharks/rays, Macrozooplankton, Sharks L, Sardine, Cephalopods, Hake adulte, Toothed whales, Anchovy, Pouts, Pelagic M, Horse mackerel, Mackerel, Blue whitting, Sole, Hake juv, Pelagic L, Surface feeders seabirds, Plunge and pursuit divers seabirds, Benthic producers , Phytoplankton L, Phytoplankton S, Plaice, Baleen whales, Megrim, Sea bass, Anglerfish
<b>Australia North West Shelf (1986), <math>\rho = 0.209</math></b>
LgZooplankton, SmZooplankton, Megabenthos, Macrofauna, SmallPelagics, SessEpibenthos, DpPonyfish, ComPrawns, ShTriggerFish, JuvCarangids, ShLutjanids, ShSmFish, ShMedFish, ShLizard, DpSmFish, ShNemipteririds, ShLgFish, Squid, DpLizard, ShSerranids, ShMullidae, ShLethrinids, DpMedFish, DpLgFish, DpNemipterids, Coastal sharks, BenPhytoplankton, Microphytobenthos, PelPhytoplankton, Rays, RedEmperor, ShSweetlip, DpMullidae, SmTunas, AdCarangids, FryPBream
<b>River Rheido, Wales, <math>\rho = 0.208</math></b>
Rhithrogena, Baetis, Chironomidae, Leuctra, Protonemura, Amphinemura, Oligochaeta, CopercwIa, Cladocera, Hydropsyche, Chloroperla, Simulium, Isoperla, Dystiscidae (Deronectes, Oreonectes), Polycentropus, green algae, agmented leaf, stem tissue, moss, diatoms, Batrachospermum, Lemanea, Perlodes
<b>Mount St Michel Bay (2003), <math>\rho = 0.208</math></b>
juvenile cephal, juvéniles poiss, Moules, macrobenthos, Mulets, huîtres2, huîtres, petites espèces, Macrobenthos2, poissons adulte, gros crustacés, zooplancton her, Meiobenthos, Crepidule, Macrophytes, phoques, Phytobenthos1, mouton, phytobenthos 2, Phytoplankton, anatidés, oiseaux limicol, céphalopodes
<b>Icelandic shelf (1997), <math>\rho = 0.205</math></b>
Benthos, Nothern shrimp, Other flatfish, Nephros, Molluscs, Grrenland halibut, Other dem fish, Saithe, Nekton, Seabirds, Redfish, Cod, Phytoplankton, Zooplankton, Marine mammals, Capelin, Other pelagics, Herring, Juvenile cod, Haddock
<b>Eastern Corsican Coast (2012), <math>\rho = 0.203</math></b>
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Worms, Benthic crustaceans, Echinoderms, Cnidaria, Zooplankton, Shrimps, Bivalvia, Gelatinous, European lobster, Spiny lobster, Piscivorous fish, Benthic cephalopods, Suprabenthic cephalopods, Seriola, Planktivorous fish, BIF, Gasteropods, Sparidae, E. marginatus, Labridae, SIF, Purple sea urchin, European Shag, Rays, Sea grass, Chromis chromis, Macroalgae, Mullus surmuletus, Phytobenthos, Phytoplankton, Sarpa salpa, Sciaena umbra, Serranidae, Benthic sharks, Scorpaena scrofa, Bottlenose dolphin, Dentex dentex, Sphyrnidae
<b>Port Phillip Bay (1994), <math>\rho = 0.203</math></b>
Large zooplankton, Deposit Feeders, Filter Feeders, Epi. Predators, Other Grazers, Mullet and Garfish, Scavengers, Scallops and mussels, Juvenile Mullet, Rays, Snapper, Clupeoids, Juvenile Snapper, Abalone, Birds, Other demersals, Southern calamari, Flatfish, Juvenile Flatfish, Inf. Predators, Sharks, Other cephalopods, Piscivores, Juvenile Piscivores, Small zooplankton, Marine mammals, Macroalgae, Microphytobenthos, Phytoplankton, Seagrass, KG Whiting, Juvenile KG Whiting, Sth Rock Lobster
<b>USA, Mid Atlantic Bight (1995), <math>\rho = 0.202</math></b>
Bivalves, Small crustaceans, Polychaetes, Euphausiids, Sessile epibenthos, Jellies, Echinoderms, Shrimp, Spot, Forage fish, Crabs, Lobsters, Demersal invertebrate eaters, Demersal piscivores, Benthic piscivores, Stomatopods, Snapper / grouper, Flounders, Mysids, Rays and skates, Ocean pout, Drum / croaker, Spiny dogfish, Macrozooplankton, Microzooplankton, Cods and hakes, Squid, Coastal sharks, Goosefish, Tunas, Atlantic menhaden, Med. pel. pisc (Mackerel), Striped bass, Billfishes, Seals, Butterfishes, Benthic invertebrate eaters, Demersal planktivores, Atlantic salmon, Large pelagic planktivores, Bluefish, Macrophytes, Microphytobenthos, Phytoplankton, Scup, Tilefish, Redfish, Octopods, Black seabass, Jacks, Baleen whales, Weakfish, Marine birds, Dolphins and porpoise
<b>Lake Pääjärvi, littoral zone, Finland, <math>\rho = 0.201</math></b>
bacterioplankton, Copepoda, Mollusca, Anodonta, Nematoda, Asellus, Ephemeroptera, Chironomidae - Microtendipes, Sida, Perea, Asplanchna, Polyphemus, Acanthocyclops, Chironomidae - Procladius, Rutilus rutilus, terrestrial adult insects, phytoplankton, Potamogeton, Lobelia, Isoetes, Sparganiwn, Hirudinea, Mermithidae, Trichoptera, Turbellaria, salakka, Gymnocephalus cemus, Perca fluviatilis, Coregonus lavaretus
<b>Tasmanian Seamounts Marine Reserve (1992), <math>\rho = 0.201</math></b>
Zooplankton, Gelatinous zooplankton, Benthopelagic fish, Megabenthos, Epibenthos, Infauna, Corals, Pelagic crustaceans, Small squid, Scavengers, Demersal sharks, Pelagic sharks, Shallow migratory small fish, Deep migratory small fish, Non-migratory small fish, Lge squid, Lge pelagic fishes, Phytoplankton, Benthic fish, Alepocephalids, Other oreos, Roughy, Warty oreo, Tunas billfishes
<b>Celtic Sea-Biscay (2012), <math>\rho = 0.201</math></b>
Zooplankton S, Benthos, Zooplankton L, Shrimps/crabs, Lobsters/crabs, Cephalopods, Demersal M, Demersal L, Whiting, Cod, Pouts, sharks/rays, Demersal S, Sharks L, Herring, Mackerel, Hake, Hake juv, Monkfish, Bathy M, Sprat, Pelagic L, Bathy S, Toothed whales, Horse mackerel, Bathy L, Anchovy, Pelagic M, Blue whiting, Benthic producers, Phytoplankton, Sardine, Plaice, Sole, Baleen whales, Cod juv, Megrim
<b>Celtic Sea-Biscay (1980), <math>\rho = 0.201</math></b>
Zooplankton S, Benthos, Zooplankton L, Shrimps/crabs, Lobsters/crabs, Cephalopods, Demersal M, Demersal L, Whiting, Cod, Pouts, sharks/rays, Demersal S, Sharks L, Herring, Mackerel, Hake, Hake juv, Monkfish, Bathy M, Sprat, Pelagic L, Bathy S, Toothed whales, Horse mackerel, Bathy L, Anchovy, Pelagic M, Blue whiting, Benthic producers, Phytoplankton, Sardine, Plaice, Sole, Baleen whales, Cod juv, Megrim
<b>Jurien Bay (2007), <math>\rho = 0.200</math></b>
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Small Zooplankton, Small mobil epifauna, Chaetognaths, Large Herb. Gastropods, Inshore reef ass. herbivore, Microbial heterotrophs, Large mobile herb. invert., NDR sand ass. omnivore, Photo. corals/sponges, Sessile bivalves, Roe abalone, Small Gastropods, Infaunal bivalves, Infauna, Lobster-post puerulus, Deposit feed. invert., Inshore seagrass ass. zoob. feed., Small mobile herbivores, Large Crabs, Sessile epibenthos, NDR reef ass. omnivore, Lobster- Juvenile, Lobster - Adolescent, Octopus, NDR reef ass. zoobenthos feed., Inshore reef ass. zoobenthos feed., NDR pelagic zooplankton Feed., Inshore seagrass ass. omnivore, Inshore reef ass. omnivore, NDR sand ass. zoobenthos feed., Large mobile carn. invert., NDR seagrass ass. omnivore, Rays, Pink snapper, Inshore ass. carnivore, Lobster Adult, Dhufish, Large coastal sharks, Large Zooplankton, Cuttlefish, NDR reef ass. herbivore, Squid, Inshore sand ass. omnivore, Small coastal sharks, Baldchin grouper, Sea turtles, King wrasse, Inshore pelagic zooplankton feed, Large Carn. Gastropods, NDR reef aa. zooplankton feed, Small Phytoplankton, Ecklonia, Sargassum, Large Phytoplankton, Western foxfish, Perennial seagrasses, Corraline algae, Microphytobenthos, Ephemeral seagrasses, Turfs, Low algae, Seagrass epiphytes, Carnivorous Jellyfish, Intertidal birds, NDR seagrass ass. carnivore, Inshore benthopelagic carnivore, Breaksea cod, NDR reef ass. carnivore, NDR sand ass. carnivore, Surface diving birds, NDR benthopelagic carnivore, Sea lions, Dolphins
<b>Celtic Sea (2013), <math>\rho = 0.199</math></b>
Bacteria, Surface suspension and deposit feeders, Sub-surface deposit feeders invertebrates, Shrimps, Benthic meiofauna, Suprabenthic invertebrates, Microzooplankton, Mesozooplankton, Carnivorous and necrophagous invertebrates, Lobsters/Crabs, Demersal L, Whitting, Cod ad, Haddock, Norway lobster, Sharks/rays, Sharks L, Cephalopods, Macrozooplankton, Demersal S, Hake juvenile, Toothed whales, Hake adulte, Anglerfish, Mackerel, Pelagic L, Herring, Sprat, Demersal M, Sardine, Pouts, Pelagic M, Boarfish, Horse Mackerel, Sole, Surface feeders seabirds, Plunge and pursuit divers seabirds, Blue whitting, Benthic producers, Phytoplankton L, Phytoplankton S, Plaice, Baleen whales, Cod juvenile, Megrim, Sea bass
<b>Cerbère-Banyuls MPA (2013), <math>\rho = 0.199</math></b>
Meso and microzooplankton, Macrozooplankton, Other macro-benthos, Suprabenthos, Other sea urchin, Purple sea urchin, Sea cucumbers, Bivalves, Gastropods, Benthopelagic cephalopods, Non-commercial decapods, No commercial small demersal fish, Labridae and Serranidae, Other commercial decapods, Coastal benthic cephalopods, Other medium pelagic fishes, Flatfishes, Mugilidae, Other corals and gorgonians, Red coral, Sparidae, Common two-banded seabream, White seabream, Other commercial medium demersal fish, Brown meagre, No commercial medium demersal fish, European hake, European conger, Anglerfish, Horse mackerels, Mackerels, European sardine, Other benthic cephalopods, Salema, Common pandora, Other large pelagic fishes, European anchovy, Other small pelagic fish, Jellyfish, Salps and other gelatinous zooplankton, Scorpaenidae, Red mullet, European lobster, Surmulet, Poor cod, Red scorpionfish, Rays and skates, Terns, Endangered and pelagic seabirds, Gulls and cormorants, Striped dolphins, Bottlenose dolphins, Large phytoplankton, Mediterranean seagrass, Seaweeds, Small phytoplankton, Loggerhead turtles, Small-spotted catshark, Non-commercial large pelagic fishes, Common dentex, Groupers, Torpedos
<b>Bay of Biscay (1994), <math>\rho = 0.198</math></b>
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Mesozooplankton, Microzooplankton, Bacteria, Benthic meiofauna, Necrophagous benthic invertebrates, Surface suspension and deposit feeders inv, Sub-surface deposit feeders invertebrates, Carnivorous benthic invertebrates, Benthivorous demersal fish, Piscivorous and benthivorous demersal fish, Suprabenthivorous demersal fish, Pelagic cephalopods, Horse mackerel, Mackerel, Benthic cephalopods, Sardine, Piscivorous demersal fish, Anchovy, Macrozooplankton, Sprat, Large phytoplankton, Surface feeders seabirds, Pursuit divers seabirds, Small phytoplankton, Suprabenthic invertebrates, Common dolphins, Long-finned pilot whales, Harbour porpoises, Striped dolphins, Bottlenose dolphins
<b>Celtic Sea (1980), <math>\rho = 0.197</math></b>
Bacteria, Surface suspension and deposit feeders, Sub-surface deposit feeders invertebrates, Shrimps, Benthic meiofauna, Suprabenthic invertebrates, Microzooplankton, Mesozooplankton, Carnivorous and necrophagous invertebrates, Lobsters/Crabs, Demersal L, Whitting, Haddock, Cod ad, Norway lobster, Sharks/rays, Sharks L, Macrozooplankton, Demersal S, Cephalopods, Hake adulte, Anglerfish, Hake juvenile, Pelagic L, Mackerel, Toothed whales, Pouts, Horse Mackerel, Pelagic M, Herring, Demersal M, Sardine, Sprat, Sole, Blue whitting, Cod juvenile, Surface feeders seabirds, Plunge and pursuit divers seabirds, Benthic producers, Phytoplankton L, Phytoplankton S, Plaice, Boarfish, Baleen whales, Megrim, Sea bass
<b>Azores archipelago (1997), <math>\rho = 0.196</math></b>
large zoopl, small zoopl, other benthos, sea stars, coastal M herb, shrimps crabs, Loligo, lobsters, demersal M pred, pelagic M pred, demersal M inv, demersal L pred, cephalop s, coastal L pred, Dolphins, coastal S inv, coastal S pred, coastal M inv, pelagic S pred, coastal M pred, pelagic S inv, deepwater S, mesopelagics, demersal S inv, sharks L, deepwater M, Phycis phycis, cephalop L, macrophytes, phytoplankton, rays, pelagic L pred, coastal S herb, Octopus, Helicolenus, tunas, sharks M, baleen whales, Pagellus bogaraveo, birds, deepwater L, killer whales, turtles
<b>Baie de Seine (2000), <math>\rho = 0.194</math></b>
Mesozooplankton and Macrozooplankton, Suprabenthos, Bacteria, Benthic inv. deposit feeders (Subsurface), King scallop, Meiofauna, Benthic inv. bivalves filter feeders, Benthic inv. deposit feeders (Surface), Benthic inv. predators, Benthic inv. filter feeders, Fish piscivorous, Benthopelagic cephalopods, Fish benthos feeders, Microzooplankton, Fish planctivorous, Fish atlantic horse mackerel, Fish sharks, Benthic cephalopods, Fish atlantic cod, Fish european pilchard, Fish european sprat, Fish whiting, Harbour porpoises, Bottlenose dolphins, Phocidae, Fish mackerel, Discards, Fish rays, Phytoplankton, Fish sole, Fish limande, Fish sea bream, Fish european plaice, Benthic feeders seabirds, Fish flounder, Fish gurnard, Fish poor cod, Fish pouting, Fish european seabass, Plunge and pursuit divers seabirds, Surface feeders seabirds
<b>Iceland (1950), <math>\rho = 0.192</math></b>
Benthos, Northern Shrimp, Nephrops, Molluscs, Baleen whales, Other Dem. Fish, Saithe, Seabirds, Other Fish, Redfish, Adult Cod, Pinnipeds, Toothed whales, Phytoplankton, Zooplankton, Greenland Halibut, Other Flatfish, Other Pelagics, Capelin, Benthic producers, Herring, Juvenile Cod, Haddock
<b>North Sea (1974), <math>\rho = 0.192</math></b>
Polychaetes, Echinoderms, Copepods, O.crustaceans, O.invertebrates, Whiting, Dab, O.macrobenthos, Herring, Gurnards, Juv. cod, Juv. whiting, Euphausiids, Sandeel, Norway pout, Juv. haddock, Sprat, Seals, Haddock, Cod, Phytoplankton, Sole, Plaice, Juv. saithe, Horsemackerel, Mackerel, Raja, O. predators, Birds, West mackerel, Saithe
<b>Ria-Lake Tapajos (2013), <math>\rho = 0.191</math></b>
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Zooplankton, Aquatic invertebrates, Others algivores/detritivores, Semaprochilodus spp. , Schizodon spp., Laemolyta spp., Loricariichthys spp., Mesonauta festivus, Geophagus spp., Acarichthys heckelii, Satanoperca acuticeps, Hemiodus spp., Others piscivores, Igapo Forest, Acaronia nassa, Plagioscion squamosissimus, Pellona castelnaeana, River dolphins, Terrestrial invertebrates, Cichla spp., Otters, Arapaima gigas, Brachyplatystoma rousseauxii, Brachyplatystoma filamentosum, Periphyton, Phytoplankton, Others frugivores, Pacu, Colossoma macropomum, Turtles, Bryconops spp., Leporinus spp., Hypophthalmus marginatus, Others invertivores
<b>Apalachicola Bay (2000), <math>\rho = 0.189</math></b>
Macrozooplankton, Microzooplankton, Zoobenthos, Blue crab, Oysters, Atlantic bumper, Mullet, Arrow shrimp, Adult white shrimp, Pink shrimp, Brown shrimp, Roughback shrimp, Brief squid, Adult spot, Juvenile pigfish, Juvenile spot, Juvenile silver perch, Hogchoker, Juvenile Atlantic croaker, Red drum, Adult sand seatrout, Adult pigfish, Adult Atlantic croaker, Large coastal sharks, Snapper, Dolphins, Southern kingfish, Small coastal sharks, Adult silver perch, Seabirds, Adult hardhead catfish, Inshore lizardfish, Seagrass, Juvenile white shrimp, Adult bay anchovy, Phytoplankton, Adult pinfish, Menhaden, Mojarra, Juvenile bay anchovy, Juvenile striped anchovy, Sardines, Menidia silversides, Adult striped anchovy, Gulf butterfish, Juvenile pinfish, Fringed flounder, Gulf flounder, Black drum, Juvenile sand seatrout, Juvenile hardhead catfish, Atlantic stingray, Mantis shrimp
<b>Gulf of Gabes (2000), <math>\rho = 0.189</math></b>
Micro and mesozooplankton, Amphipoda and Isopoda, Polychaetes, Benthic molluscs, Foraminifera, Echinoderms, Invertebrate suspension feeders , Crabs, Mulletts, Benthic cephalopods, Mantis shrimp, Benthopelagic cephalopods, Macro-carnivorous Fish (1), Sharks, Macrozooplankton, Medium pelagic fish, Macro-carnivorous Fish (2), Small tuna , Sea birds, Rays (2) , Rays (1), Piscivorous Fish, Atlantic bluefin tuna, Sparidae, Dolphins, Benthic invertebrate feeders (2), Macro-algae, Alien shrimps , Benthic invertebrate feeders (1), Horse mackerel, Phytoplankton, Picarel, Deep shrimps , Caramote prawn, Posidonia oceanica, European anchovy, European pilchard, Round sardinella, Bogue
<b>Lake Michigan, <math>\rho = 0.185</math></b>
Rotifers, Cladocerans, Cyclopoids, Sphae/Gast, Benthic microin, Diporeia, Mysis, Other fish, Oligoch/Chiron, Calanoids, Leptodora, Alewife, Rainbow smelt, Bloater, Slimy sculpin, Deepwater sculp, Sea lamprey, Juv. Lake Trout, Flagellates, Blue-greenGree, Diatoms, Lake Whitefish, Yellow perch, Burbot, Coho, Juv. Brown trou, Juv. Chinook, Juv. Steelhead, Brown trout, Steelhead, Lake trout, Chinook, Juv. Coho
<b>Denmark, Faroe Islands (1997), <math>\rho = 0.182</math></b>
Benthos, Other demersal fish, Other deep water, Greenland Halibut, Saithe, Seabirds, Sm. Zooplankton, Lrg. Zooplankton, Nekton, Toothed mammals, Other pelagics, Herring, Blue Whiting, Haddock, Mackerel, Redfish, Phytoplankton, Baleen whales, Cod
<b>Florida Bay - wet season, <math>\rho = 0.181</math></b>
Continued on next page

**Table 3 – continued from previous page**

Benthic Flagellates, Herbivorous Amphipods, Detritivorous Gastropods, Water Flagellates, Half-beaks, Sponges, Bivalves, Suspension Feeding Polych, Manatee, Mullet, Meiofauna, Detritivorous Polychaetes, Detritivorous Crabs, Omnivorous Crabs, Pink Shrimp, Herbivorous Ducks, Echinoderma, Benthic Ciliates, Macrobenthos, Detritivorous Amphipods, Benthic Crustaceans, Predatory Gastropods, Predatory Shrimp, Predatory Polychaetes, Coral, Other Cnidaridae, Callinectes sapidus, Predatory Crabs, Catfish, Other Copepoda, Acartia tonsa, Oithona nana, Paracalanus, Other Zooplankton, Meroplankton, Eels, Isopods, Other Demersal Fishes, Pinfish, Herbivorous Shrimp, Sailfin Molly, Rainwater killifish, Other Killifish, Water Ciliates, Parrotfish, Epiphytes, Thor floridanus, Epiphytic Gastropods, Raptors, Crocodiles, Goldspotted killifish, Other Pelagic Fishes, Code Goby, Clown Goby, Blennies, Bay Anchovy, Free Bacteria, Mojarra, Sardines, Lobster, Barracuda, Flatfish, Gulf Pipefish, Silverside, Dwarf Seahorse, Other Horsefish, Toadfish, Anchovy, Puffer, Dolphin, Grunt, Filefishes, Needlefish, Scianids, Other Snapper, Lizardfish, Stone Crab, Brotalus, Thalassia, Halodule, Syringodium, Spotted Seatrout, Drift Algae, Porgy, Green Turtle, Omnivorous Ducks, Hawksbill Turtle, Bonefish, Pompano, Rays, Loggerhead Turtle, Red Drum, Spadefish, Small Shorebirds, Gruiformes, Gray Snapper, Gulls & Terns, Snook, Grouper, Tarpon, Jacks, Ibis, Small Herons & Egrets, Roseate Spoonbill, Big Herons & Egrets, Kingfisher, Grebe, Predatory Ducks, Loon, Comorant, Pelican, Sharks, Mackerel, 2um Spherical Phytoplankton, Synedococcus, Oscillatoria, Small Diatoms (<20um), Big Diatoms (>20um), Dinoflagellates, Other Phytoplankton, Benthic Phytoplankton, Roots
<b>Gulf of Thailand (1963), <math>\rho = 0.180</math></b>
Zooplankton, Scad, Benthos, O.fish, Shrimps, Sm.dem.benth., Med.dem.benth., Flatfish, Crab, lobster, Rays, Tuna, Cephalopods, Phytoplankton, Sharks, M. mammals, Mackerel, Sm. pelagics, Med.dem.pisc., Ponyfishes, Sm.dem.pisc., Molluscs, Jellyfish, Juv.Lg.Pisciv., Juv. sharks, Juv. groupers, Lg. piscivores, Grouper/snapper, Scomberomorus
<b>North Sea (1981), <math>\rho = 0.180</math></b>
PT pico, Polychaeta, Echinodermata, O.macrobenthos, O.invertebrates, O.crustaceans, Copepoda, O.prey fish, Cod, Whiting, Haddock, Juvenile fish, Mackerel, Saithe, PT nano, Euphausiacea, PS nano, Sandeel, PS micro, PS pico, PT micro, Sole, Plaice, Sprat, Ray, Norway pout, O.pred.fish, Herring
<b>Everglades Graminoids, <math>\rho = 0.180</math></b>
Mesoinverts, Terrestrial Inverts, Fishing spider, Passerines, Mink, Living Sediments, Living POC, Other Macroinverts, Crayfish, Tadpoles, Turtles, Flagfish, Opossum, Gruiformes, Poeciliids, Ducks, Mosquitofishes, Other Small Fishes, Chubsuckers, Bluefin killifish, Killifishes, Shiners & Minnows, Other Centrarchids, Catfish, Large Aquatic Insects, Alligators, Freshwater Prawn, Apple snail, Raccoons, Rats & Mice, Otter, Snakes, Grebes, Gar, Macrophytes, Topminnows, Floating Veg., Bitterns, Periphyton, Bobcat, Panthers, Pigmy Sunfish, Bluespotted Sunfish, Utricularia, Small frogs, Medium frogs, Salamanders, Muskrats, Rabbits, W-T Deer, CSSsparrow, Salamander larvae, Nighthawks, Dollar Sunfish, Snailkites, Redear Sunfish, Spotted sunfish, Warmouth, Cichlids, Largemouth Bass, Other Large Fishes, Large frogs, Lizards
<b>Gulf of Mexico (1950), <math>\rho = 0.179</math></b>
18+ Mullet, Benthic Invertebrates, Macro Zooplankton, Shrimp, Caridan Shrimp, Catfish, Lobster, Stone Crab, juv Menhaden, Menhaden, Pin Fish, Small fish, Bay Anchovy, 0-6 Mullet, 6-18 Mullet, Blue Crab, 0-3 Red Drum, 3-8 Red Drum, Micro Zoolplankton, Silver Perch, Pigfish, Scaled Sardine, Jacks, Infauna, Atlantic croaker, 3-18 Sea Trout, Rays, 18+ Sea Trout, Attached Microalgae, Phytoplankton, Sea Grass, red snapper 0-6, Grouper 0, 0-3 Sea Trout, Pompano, red snapper 6-24, Mackrel 0-3, Ladyfish 0-10, Ladyfish 10+, Grouper 1-3, 8-18 Red Drum, 36+ Red Drum, 18-36 Red Drum, red snapper older, Grouper 3+, Mackrel 3+, LCsharks
<b>Florida Bay (2006), <math>\rho = 0.179</math></b>
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**Table 3 – continued from previous page**

Caridean shrimp, Small crustaceans, Bivalves, Annelids, Mud crabs, Gastropods, Sessile epibenthos, Mullet, Portunid crab, Echinoderm, Pink shrimp, Lobster, Gulf toadfish, Pinfish, Sheepshead minnow, Rainwater killifish, Mojarra, Clown goby, Mesozooplankton, Spider crabs, Hardhead catfish, Lemon shark, Clupeids, Goldspotted killifish, Hardhead silverside, Bay anchovy, Bonnethead shark, Phytoplankton, Red drum, Spotted seatrout, Macroalgae, Seagrass, Sheepshead, Grunts, Redfin needlefish, Octopods, Epiphytes, Hardhead halfbeak, Microzooplankton, Common snook, Crevalle jack, Gray snapper, Atlantic tarpon, Great barracuda, Seabirds
<b>Tampa Bay (1950), <math>\rho = 0.178</math></b>
Benthic Invertebrates, Macro Zooplankton, Caridan Shrimp, Catfish, Bay Anchovy, 18+ Mullet, Stone Crab, Shrimp, Pin Fish, Blue Crab, Spot, Menidia (silverside), 0-6 Mullet, 0-3 Red Drum, Micro Zoolplankton, Manhaden, 6-18 Mullet, 3-12 Snook, Bumper, 3-8 Red Drum, 0-12 Snook, Silver Perch, Pigfish, Jacks, 3-18 Sea Trout, Mojarra, Cyprinodontids, Poecilids, Threadfin Herring, Scaled Sardine, 3-12 Sand Trout, Gobies, Infauna, 90+ Snook, Ladyfish 0-10, 18+ Sea Trout, Attached Microalgae, Phytoplankton, Sea Grass, Rays, 0-3 Sand Trout, 0-3 Sea Trout, Mackrel 0-3, Ladyfish 10+, 12-48 Snook, 36+ Red Drum, 18-36 Red Drum, 8-18 Red Drum, 12+ Sand Trout, 48-90 Snook, Mackrel 3+
<b>Lower Chesapeake Bay, <math>\rho = 0.177</math></b>
Free Bacteria, Ctenophores, Particle Attached Bacteria, Benthic Bacteria, Suspension Feeding Benthos, Menhaden, Meiofauna, Deposit Feeding Benthos, Bay anchovy, Blue Crab, Meroplankton, Mesozooplankton, Ciliates, Spot, Net Phytoplankton, Croaker, Picoplankton, Heteroflagellates, Hogchoker, Striped Bass, Weakfish, Bluefish, Microphytobenthos, SAV, Rotifers, Chrysaora
<b>Florida Bay - dry season, <math>\rho = 0.177</math></b>
Benthic Flagellates, Herbivorous Amphipods, Detritivorous Gastropods, Detritivorous Crabs, Water Flagellates, Halfbeaks, Sponges, Manatee, Suspension Feeding Polych, Bivalves, Mullet, Detritivorous Polychaetes, Meiofauna, Omnivorous Crabs, Echinoderma, Pink Shrimp, Herbivorous Ducks, Benthic Ciliates, Macrobenthos, Other Copepoda, Other Zooplankton, Acartia Tonsa, Oithona nana, Paracalanus, Predatory Polychaetes, Benthic Crustaceans, Detritivorous Amphipods, Predatory Shrimp, Meroplankton, Predatory Gastropods, Callinectes sapidus, Predatory Crabs, Catfish, Eels, Other Cnidaridae, Isopods, Other Demersal Fishes, Pinfish, Herbivorous Shrimp, Sailfin Molly, Water Cilites, Other Pelagic Fishes, Rainwater killifish, Other Killifish, Epiphytes, Raptors, Crocodiles, Thor Floridanus, Epiphytic Gastropods, Coral, Dolphin, Goldspotted killifish, Code Goby, Barracuda, Clown Goby, Blennies, Bay Anchovy, Mojarra, Free Bacteria, Parrotfish, Sardines, Lobster, Flatfish, Gulf Pipefish, Silverside, Other Horsefish, Dwarf Seahorse, Toadfish, Anchovy, Puffer, Grunt, Filefishes, Needlefish, Other Snapper, Scianids, Lizardfish, Porgy, Brotalus, Stone Crab, Thalassia, Halodule, Syringodium, Spotted Seatrout, Drift Algae, Gray Snapper, Green Turtle, Omnivorous Ducks, Hawksbill Turtle, Bonefish, Pompano, Rays, Loggerhead Turtle, Spadefish, Red Drum, Small Shorebirds, Grouper, Gruiformes, Gulls & Terns, Snook, Jacks, Tarpon, Sharks, Ibis, Big Herons & Egrets, Small Herons & Egrets, Roseate Spoonbill, Kingfisher, Grebe, Predatory Ducks, Loon, Pelican, Comorant, Mackerel, 2um Spherical Phytoplankt, Synedococcus, Oscillatoria, Small Diatoms (<20um), Big Diatoms (>20um), Dinoflagellates, Other Phytoplankton, Benthic Phytoplankton, Roots
<b>Cap de Creus MPA - whole (2008), <math>\rho = 0.174</math></b>
Continued on next page

**Table 3 – continued from previous page**

Meso and microzooplankton, Macrozooplankton, Other macro-benthos, Suprabenthos, Other sea urchin, Purple sea urchin, Sea cucumbers, Bivalves, Gastropods, Non-commercial decapods, Benthopelagic cephalopods, No commercial small demersal fish, Labridae and serranidae, Sparidae, Other commercial decapods, Other medium pelagic fishes, Flatfishes, Mugilidae, Brown meagre, Other corals and gorgonians, Red coral, Coastal benthic cephalopods, Other commercial medium demersal fish, No commercial medium demersal fish, European hake, European conger, Anglerfish, Horse mackerels, Other large pelagic fishes, Mackerels, European sardine, Other benthic cephalopods, Rays and skates, Common dentex, Gulls and cormorants, Groupers, Torpedos, Common pandora, European anchovy, Jellyfish, Salps and other gelatinous zooplankton, Salema, Other small pelagic fish, Round sardinella, White seabream, Common two-banded seabream, Poor cod, Seaweeds, Terns, Endangered and pelagic seabirds, Bottlenose dolphins, Striped dolphins, Erected algae, Large phytoplankton, Mediterranean seagrass, Other seagrasses, Small phytoplankton, Red mullet, European lobster, Surmulet, Loggerhead turtles, Red scorpionfish, Scorpaenidae, Small-spotted catshark, Non-commercial large pelagic fishes
<b>Medes Island MPA (2000), <math>\rho = 0.174</math></b>
Meso and microzooplankton, Macrozooplankton, Other macro-benthos, Suprabenthos, Other sea urchin, Purple sea urchin, Sea cucumbers, Bivalves, Gastropods, Non-commercial decapods, Benthopelagic cephalopods, No commercial small demersal fish, Labridae and serranidae, Sparidae, Other commercial decapods, Other medium pelagic fishes, Flatfishes, Mugilidae, Brown meagre, Other corals and gorgonians, Red coral, Coastal benthic cephalopods, Common dentex, Rays and skates, European conger, European hake, Anglerfish, Other commercial medium demersal fish, No commercial medium demersal fish, Horse mackerels, Mackerels, European sardine, Gulls and cormorants, Groupers, Other benthic cephalopods, Torpedos, Common pandora, European anchovy, Jellyfish, Salps and other gelatinous zooplankton, Other small pelagic fish, Round sardinella, Salema, White seabream, Common two-banded seabream, Poor cod, Seaweeds, Terns, Endangered and pelagic seabirds, Striped dolphins, Bottlenose dolphins, Erected algae, Large phytoplankton, Mediterranean seagrass, Other seagrasses, Small phytoplankton, Red mullet, European lobster, Surmulet, Loggerhead turtles, Scorpaenidae, Red scorpionfish, Small-spotted catshark, Non-commercial large pelagic fishes, Other large pelagic fishes
<b>Lesser Antilles (2001), <math>\rho = 0.173</math></b>
Small zooplankton, Large zooplankton, Small offshore pelagics, Small coastal pelagics, Coastal predators, Other offshore predators, Mackerels, Billfishes, Pelagic sharks, Dolphinfin, Bigeye, Albacore, Large mesopelagics, Small squids, Large squids, Skipjack, Deep-diving whales, Small mesopelagics, Flyingfish, Swordfish, Shallow-diving cetaceans, Wahoo, Blackfin tuna, Phytoplankton, Baleen whales, Yellowfin, Other turtles, Leatherback turtle, Seabirds, Killer whales
<b>Aegean Sea (2003), <math>\rho = 0.172</math></b>
Micro/Mesozooplankton, Macrozooplankton, Benthic invertebrates, Squids, Benthic small crustaceans, Polychaetes, Shrimps, Shelf crabs, Lobsters, Flatfishes, Slope crabs, Seabirds, Norway lobster, Dolphins, European hake, Monk seal, Phytoplankton, Jellyfish, Small demersals 2, European pilchard, European anchovy, Other small pelagics, Medium pelagics, Small demersals 1, Octopus and cuttlefish, Other gadiforms, Picarels and bogue, Mackerels, Sea turtles, Planktivorous deep sea fish, Red mullets, Horse mackerels, Small demersals 3, Gurnards, Piscivorous deep sea fish, Medium-large demersals 2, Rockfish, Rays and skates, Medium-large demersals 1, Anglerfish, Sharks, Large pelagics
<b>South Shetlands (1990), <math>\rho = 0.172</math></b>
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**Table 3 – continued from previous page**

Other zooplankton, Salps, Krill, Small invertebrates, Large invertebrates, Other birds, Small demersals, Myctophids, Large demersals, Killer whales, Small pelagics, Small squid, Mackerel icefish, Marbled rockcod, Leopard seals, Large squid, Toothfish, penguins, Phytoplankton, Minke whales, Crabeater seals, Baleen whales, Antarctic fur seals, Albatrosses, King penguins, Weddell and Ross seals, Small cetaceans, Elephant seals, Sperm whales
<b>Northern British Columbia (2000), <math>\rho = 0.171</math></b>
Carnivorous jellyfish, Epifaunal invertebrates, Forage fish, Infaunal carnivorous invertebrates, Infaunal invertebrate detritivores, Commercial shrimp, Juvenile lingcod, Corals and sponges, Large crabs, Shallowwater benthic fish, Juvenile Pacific cod, Small squid, Squid, Juvenile turbot, Adult picivorous rockfish, Dogfish, Adult sablefish, Adult turbot, Skates, Seals, sea lions, Adult halibut, Juvenile halibut, Adult Pacific cod, Adult lingcod, Phytoplankton, Copepods, Euphausiids, Odontocetae, Eulachon, Small crabs, Adult herring, Juvenile herring, Juvenile pollock, Juvenile sablefish, Seabirds, Macrophytes, Juvenile POP, Mysticetae, Juvenile planktivorous rockfish, Transient salmon, Juvenile flatfish, Adult POP, Juvenile picivorous rockfish, Adult flatfish, Ratfish, Adult planktivorous rockfish, Pollock, Sea Otters, Chinook salmon, Inshore rockfish, Coho salmon
<b>West Florida Shelf (1985), <math>\rho = 0.171</math></b>
anthozoans, microbes, mullet, sessile epibenthos, herbivorous zooplankton, meiobenthos, omnivorous zooplankton, small infauna, mobile epifauna, gastropods, ichthyoplankton, carnivorous zooplankton, echinoderms, large crabs, squid, stomatopods, offshore demersal carnivores, jellyfish, reef invertivores, demersal omnivores, bivalves, shrimp, reef planktivores, nearshore demersal carnivores, medium reef omnivores, nearshore small pelagics, sardine herring scad, small reef omnivores, vermilion snapper, reef crustacean eaters, reef carnivores, pelagic piscivores, offshore small pelagics, king mackerel adult, small sharks and rays, other snapper, other SWG, pelagic sharks, coastal piscivores, lionfish juv, gray triggerfish, black sea bass, red porgy, Spanish mackerel adult, red grouper 5+, seabirds, red grouper 0, red snapper 0, macroalgae, phytoplankton, hogfish, red grouper 2, red grouper 1, grey snapper, red grouper 3, goliath grouper, red snapper 1-2, red grouper 4, gag 0, king mackerel juv, red snapper 3+, other DWG, cobia, blueline tilefish, yellowedge grouper, gag 3, scamp, lionfish adult, gag 1, coastal dolphins, gag 2, gag 4, Spanish mackerel juv, golden tilefish, black grouper, gag 5+, greater amberjack, offshore dolphins, large demersal sharks, microphytobenthos, seagrass
<b>Western Antarctic Peninsula (1996), <math>\rho = 0.170</math></b>
Benthic invertebrates, Micro-Zool, Meso zooplankton, Krill Small, Krill Large, Other Euphausiids, Macro-zoopl, On-shelf fish, G gibberifrons, Killer whales, Myctophids, Cephalopods, N. rossii, Antarctic fur seals, Salps, Leopard Seal, C gunnari, Ice Algae, Large phytoplankton, Small phytoplankton, Adelie Penguins, Chinstrap Penguins, Minke Whales, Fin Whales, Blue Whales, Humpback whales, Gentoo Penguins, Crabeater Seal, Macaroni Penguins, Emperor Penguins, Flying Birds, Sperm Whales, Weddell Seal, S Elephant Seals
<b>Aleutian Islands (1963), <math>\rho = 0.170</math></b>
Small zooplankton, Cephalopods, Benthic inverts, Shrimps, Epiben carnivores, Large pred demersals, Atka mackerel, Adult pollock, Rockfish, Pacific cod, Shark and skates, Arrowtooth, Large zooplankton, Dem S M, Halibut, Shark mammal eater, Transient orca, Macrophytes, Flatfish, Myctophids, Salmon, Sandlance, Juvenile pollock, Small pelagics, Herring, POP, Sablefish, Large pelagics, Phytoplankton, SSL embryo, SSL pups, Sea otters, Baleen whales, Deep L, Birds, Toothed whales, Small mammals, SSL juveniles, SSL Adults
<b>Upper Chesapeake Bay, <math>\rho = 0.170</math></b>
Continued on next page

**Table 3 – continued from previous page**

Free Bacteria, Ctenophores, Suspension Feeding Benthos, Bay anchovy, Particle Attached Bacteria, Menhaden, Meroplankton, Mesozooplankton, Hogchoker, Spot, Croaker, Herrings and Shads, White Perch, Deposit Feeding Benthos, Blue Crab, Benthic Bacteria, Meiofauna, Net Phytoplankton, Rotifers, Catfish, Ciliates, Microphytobenthos, SAV, Picoplankton, Heteroflagellates, American Eel, Striped Bass, Weakfish, Bluefish, Chrysaora
<b>West scotland DeepSea (1974), <math>\rho = 0.169</math></b>
Large zooplankton, Polychaetes, Prawns and shrimp, Other benthic inverts, Echinoderms, Intermediate sharks, Shallow sharks, Kaups arrowtooth eel, Small zooplankton, Gelatinous plankton, Monkfish, Cephalopods, Blue ling, Deep sharks, Large demersals, Mesopelagic fish, Benthopelagic fish, Ling, Blue whiting, Megrim L. whiffiagonis, Skates and rays, Black scabbard fish, Phytoplankton, Greater forkbeard, Chimeras, Coryphanoides S, Bulls eye black cardinalfish, Orange roughly, Bairds smoothhead, Argentine, Coryphanoides L, Cetaceans, Benthic teleosts
<b>Central Baltic Sea (1974), <math>\rho = 0.169</math></b>
Mysids, macrozoobenthos, Detritus-water column, meiozoobenthos, Ad. Sprat, microzooplankton, Cod 0 / Cod 1, Cod 2 / Cod 3, Ad. Cod, Ad. Herring, Herring 0 / Herring 1 / Herring, Sprat 0 / Sprat 1, Cod larvae, Cyanobacteria, other phytoplankton, spring phytoplankton, Acartia sp, other mesozooplankton, Temora sp, Pseudocalanus sp., Seals
<b>Northern British Columbia (1950), <math>\rho = 0.166</math></b>
Carnivorous jellyfish, Epifaunal invertebrates, Forage fish, Infaunal carnivorous invertebrates, Infaunal invertebrate detritivores, Commercial shrimp, Juvenile lingcod, Odontocetae, Corals and sponges, Small squid, Squid, Juvenile Pacific cod, Juvenile turbot, Large crabs, Shallowwater benthic fish, Adult picivorous rockfish, Adult sablefish, Dogfish, Adult turbot, Skates, Adult Pacific cod, Juvenile halibut, Adult lingcod, Adult halibut, Phytoplankton, Copepods, Euphausiids, Seals, sea lions, Eulachon, Adult herring, Small crabs, Juvenile herring, Juvenile pollock, Seabirds, Juvenile sablefish, Juvenile POP, Mysticetae, Juvenile planktivorous rockfish, Adult POP, Juvenile flatfish, Juvenile picivorous rockfish, Adult flatfish, Ratfish, Adult planktivorous rockfish, Pollock, Chinook salmon, Coho salmon, Inshore rockfish, Macrophytes, Transient salmon, Sea Otters
<b>Kaloko Honokohau (2005), <math>\rho = 0.165</math></b>
Sharks and jacks, Zooplankton, Corals, Benthic Inverts, Urchins, Octocoral, Zoo, Detritivores, Herbivores, MIF, Sea birds, Piscivores, Green sea turtles, Turf algae, CCA, Macroalgae, Phytoplankton, Crown of thorns, Corallivores, SIF, Spinner dolphins, Monk seals, Turf algae LB, Rays, Hawksbills
<b>Northern Californian Current (1990), <math>\rho = 0.162</math></b>
amphipods, cephalopods, pandalid shp, juv rock, mackerel, infauna, epibenthic, benthic shp, small flat, benthic fish, dungeness, sablefish, tanner crb, halibut, sperm whales, macrourids, lsthorny, shelf rock, carniv-zoops, micro-zoop, small jellies, arrowtooth, salmon, phytoplankton, copepods, euphausiids, orcas, mesopelagics, forage fish, coastal sharks, dogfish, sea lions, toothed whales, lingcod, harbor seals, fur seals, rex, large jellies, juv flat, juv round, hake, ssthorny, gulls, sardine, english, dover, albacore, skates, grey whales, canary, slope rock, POP, juv thorny, widow, yellowtail, baleen whales, black, petrale, murre, shearwaters
<b>Prince William Sound (1994), <math>\rho = 0.161</math></b>
Shal Sm Epibent, Shal sm Infauna, Deep Epibent, Shal Lg Epibent, Rockfish, Sharks, Shal lg infauna, Deep Lg Infauna, Meiofauna, Deep sm infauna, Deep demersals, Pinnipeds, Transient Orca, Seabirds, Avian Predators, Pollock 1+, Sablefish, Pac. Cod, Halibut, Herbi-Zooplankt, Omni-zooplankto, Near Omni-zoo, Near Herbi-zoo, Salmon Fry 0-12, Porpoise, Adult Salmon, Nshore Demersal, Juv. Herring, Adult Herring, Sandlance, Eulachon, Pollock 0, Capelin, Jellies, Squid, Baleen Whales, Lingcod, Resident Orca, Macroalgae/gras, Near Phytoplkn, Offshore Phyto., Invert-eat Bird, Sea otters, Juv. Atooth., Adult Atooth
Continued on next page

**Table 3 – continued from previous page**

<b>Yucatan (1987), <math>\rho = 0.158</math></b>
Annelids, Microcrustacean, Octopus, Shrimps, Zooplankton, Other mollusks, Red grouper, Benthic prod., Crabs, Sharks, Herrings, Grunts, Snappers, Mojarra, Phytoplankton, Lobsters, Seatrout, Porgies, Jacks, King mackerel
<b>South Benguela (1600), <math>\rho = 0.156</math></b>
Microzooplank., Gelatinous zoo., Macrobenthos, Benthicdemers, Meiobenthos, SmallM.parad, Snoek, LargeM.capens, Phytoplankton, Mesozooplank., Macrozooplank., SmallM.capens, Seals, Apexchond, Pelagicchond, Cephalopods, Pelagicdemers, Ad.hmack., Otherlargepel, Seabirds, LargeM.parad, Cetaceans, Chubmackerel, Benthicchond, Benth.producers, Sardine, Anchovy, Othersmallpel, Juv.hmack., Redeye, Mesopelagics
<b>South Benguela (1900), <math>\rho = 0.156</math></b>
Microzooplankto, Gelatinous zoop, Macrobenthos, Benthic-feedi23, Meiobenthos, Small M. parado, Snoek, Large M. capens, Phytoplankton, Mesozooplankton, Macrozooplankto, Small M. capens, Seals, Apex chondricht, Pelagic-feeding, Cephalopods, Pelagic-feedi22, Adult horse mac, Other large pel, Seabirds, Large M. parado, Cetaceans, Chub mackerel, Benthic-feeding, Benthic produce, Sardine, Anchovy, Other small pel, Juvenile horse, Redeye, Mesopelagics
<b>South Benguela (1978), <math>\rho = 0.156</math></b>
Microzooplank., Gelatinous zoo., Macrobenthos, Benthicdemers, Meiobenthos, SmallM.parad, Snoek, LargeM.capens, Phytoplankton, Mesozooplank., Macrozooplank., SmallM.capens, Seals, Apexchond, Pelagicchond, Cephalopods, Pelagicdemers, Ad.hmack., Otherlargepel, Seabirds, LargeM.parad, Cetaceans, Chubmackerel, Benthicchond, Benth.producers, Sardine, Anchovy, Othersmallpel, Juv.hmack., Redeye, Mesopelagics
<b>South of Benguela (1960), <math>\rho = 0.156</math></b>
Microzooplankto, Gelatinous zooz, Macrobenthos, Benthic-feedi23, Meiobenthos, Small M. parado, Snoek, Large M. capens, Phytoplankton, Mesozoozooplank, Macrozoozooplan, Small M. capens, Seals, Apex chondricht, Pelagic-feeding, Cephalopods, Pelagic-feedi22, Adult horse mac, Seabirds, Other large pel, Large M. parado, Cetaceans, Chub mackerel, Benthic-feeding, Benthic produce, Sardine, Anchovy, Other small pel, Juvenile horse, Redeye, Mesopelagics
<b>Northern Benguela (1956), <math>\rho = 0.154</math></b>
Mesozooplankton, Macrobenthos, Cephalopods, Jellyfish adults, Anchovy adults, Sardine adults, A hake, Other demersals, Crabs, Gobies adults, Macrozooplankton, Snoek, Seals, Sharks, Mesopelagics, Other sm pelagics, J hake, Phytoplankton, Juv. h mackerel, Adult h mackerel, Benthic producers, Birds, Monkfish, Anchovy juvs, Gobies juvs, Jellyfish juvs, Sardine juvs, Lobster, Other linefish, Tuna, Marine Mammals
<b>Humboldt Current (1995), <math>\rho = 0.145</math></b>
Microzooplankton, macrobenthos, horse mackerels, large hake, medium sciaenids, jumbo squid, butter fishes, gelatinous zooplankton, catfish, conger, mesozooplankton, macrozooplankton, anchovy, Diatoms, medium demersal fish, small hake, small demersals, benthic elasmobranchs, other small pelagics, mackerels, medium hake, other cephalopods, Dino and silicoflagellates, pinnipeds, sardine, seabirds, sea robin, mesopelagics, other large pelagics, flatfishes, cetaceans, chondrichtlyans
<b>Western Channel (1993), <math>\rho = 0.144</math></b>
Continued on next page

**Table 3 – continued from previous page**

Mesozooplankton, deposit feeders, Bivalves, Scallops, Echinoderms, Shrimp and Prawn, Crab, suspension feed, Cephalopods, Commercial crab, Cod Juv, Small demersals, Sharks, Microzooplankton, Pollack, Scad, Sprat, Mackerel, Small gadoids, Herring, Pilchard, Whiting Juv, Sandeels, Seals, Cod Ad, Dab, Lobster, Lemon Sole, Dogfish, Hake, Whiting Ad, John Dory, Seabreams, Rays, Seabirds, Primary produce, Plaice Ad, Plaice Juv, Sole Juv, Sole Ad, Whelk, Basking shark, Marozooplankton, Mullet, Gurnards, Bass, Large Flatfish, Large bottom, Monkfishes, Toothed cetaceans
<b>Western Channel (1973), <math>\rho = 0.144</math></b>
Mesozooplankton, deposit feeders, Bivalves, scallops, Echinoderms, Shrimp and Prawn, Crab, suspension feed, Cephalopods, Commercial crab, Cod Juv, small demersals, Sharks, Microzooplankton, Pollack, Scad, Sprat, Mackerel, small gadoids, Herring, pilchard, Whiting Juv, Sandeels, seals, Cod Ad, Dab, lobster, Flatfish 1, Dogfish, Hake, Whiting Ad, John Dory, Seabreams, Rays, seabirds, Primary produce, Plaice Ad, Plaice Juv, Sole Juv, Sole Ad, Whelk, Basking shark, Marozooplankton, mullet, Gurnards, Bass, Flatfish 2, Large bottom, Monkfishes, toothed mammals
<b>Santa Pola Bay (2001), <math>\rho = 0.142</math></b>
Bivalvos, Copepodos planct., Anfipodos, Misidaceos, Poliquetos, Gastropodos, Crabs, Cefalópodos, Shrimps, Equinoderms, Pomatomus saltarix, Sphyræna sphyræna, Seriola dumerilii, juv. T. mediterraneus, Serranus, juv. T. ovatus, Trachurus mediterraneus, juv Pelag. planct., S. scrofa, A regius cultiv., D. labrax cultiv., Mugilidae, Sardinella aurita, S. aurata cultiv., S. aurata salvaje, Trachinotus ovatus, Boops boops, Pelágicos planctivoros, Mullus surmeletus, Sparidae, Algas, Fitoplancton, juv. Mugilidae, juv. B. boops, juv Sparidae, Myliobatis aquila, juv S. aurata, G. buccichi, Balistes capriscus
<b>Chesapeake (1950), <math>\rho = 0.139</math></b>
Other in/epi fauna, Littoral forage fish, Reef assoc. fish, Atl. croaker, Other suspension feeders, Spot, Non reef assoc. fish, Blue crab YOY, American eel, Other flatfish, Blue crab adult, Black drum, Hard clam, Weakfish Adult, Soft clam, Non-piscivorous seabirds, American shad, Mesozooplankton, Microzooplankton, Oyster 1+, Phytoplankton, Piscivorous birds, Bay anchovy, Menhaden adult, Striped bass migratory, Menhaden 0-1, Striped bass resident, Catfish, Summer flounder, Sandbar shark, Ctenophores, White perch YOY, Benthic algae, SAV, Gizzard shad, Alewife and herring, Other elasmobranchs, White perch adult, Striped bass YOY, Bluefish adult, Sea nettles, Bluefish YOY, Weakfish YOY, Oyster YOY
<b>Rocky shore, Monterey Bay, California, <math>\rho = 0.138</math></b>
other phytoplankton, Suidasia sp., Acmaea pella, Tegula funebris, Acmaea digitalis, Acmaea scabra, Littorina planaxis, Littorina littorea, Diatoma densissima, Cyanoplar dientens, Dynamenella, Lasaea cistula, zooplankton, Mytilus californianus, Pagurus samuelis, Chthamalus dalli, C. microtretus, Filicrisia franciscana, Musculus, Ptilocercus, diatoms, blue-green algae, Gigartina, Endocladia muricata, Perinereis monterea, Nereis grubei, Notoplana acticola, Syllis vittata, Nemenopsis gracilis, Syllis spencer, Thais emarginata, Acanthina spirata, Rhombognathus, Tipulidae, Pachygrapsus, Embletonema gracili, Balanus glandula
<b>Northern Humboldt Current (1997), <math>\rho = 0.138</math></b>
Microzooplankton, macrobenthos, gelatinous zooplankton, horse mackerels, medium sciaenids, catfish, benthic elasmobranchs, conger, small hake, mesozooplankton, macrozooplankton, anchovy, Diatoms, mackerels, medium demersal fish, jumbo squid, chondrichthyans, small demersals, other small pelagics, sardine, mesopelagics, other cephalopods, sea robin, Dino and silicoflagellates, butter fishes, pinnipeds, medium hake, other large pelagics, seabirds, cetaceans, flatfishes, large hake
<b>Falkland Islands (1990), <math>\rho = 0.129</math></b>
Continued on next page

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benthic crustaceans, small demersal, grenadier, small cephalopods, dogfish, codling, small zoobenthos, large zoobenthos, hagfish, toothfish ad, rays and sharks, krill, Herbivorous zooplank, carnivorous zooplank, seals and sea lions, toothed whales, jellyfish, hoki juv, hoki ad, penguins, large bathydemersal fish, myctophidae, merluccius hubbsi, large cephalopods, merluccius australis, rock cod, pelagic fish, patagonian squid, baleen whales, Phytopl, small bathydemersal fish, flounder, shorebirds, large demersal, southern blue whiting ad, snoek ad, southern blue whiting juv, toothfish juv, illex squid, basking shark, bathypelagic fish, seabirds, snoek juv
<b>Crystal River Creek - Delta Temp, <math>\rho = 0.125</math></b>
benthic invertebrates, bay anchovy, zooplankton, sheepshead killifish, goldspotted killifish, silver-side, moharra, mullet, gulf killifish, microphytes, macrophytes, molly, catfish, longnosed killifish, spot, black drum, red drum, pinfish, needlefish, stingray
<b>Cypress Dry Season, <math>\rho = 0.124</math></b>
Ter. Invertebrates, Aquatic Invertebrates, Mink, Living POC, Living sediment, Vultures, Tadpoles, Crayfish, Apple Snail, Prawn, Black Bear, Opossum, Hogs, Small Fish, herb + omniv, Small Fish, prim. carniv, Snakes, Turtles, Alligators, Other herons, Raccoon, Armadillo, Mice & Rats, G. Fox, Understory, Hardwoods Leaves, Bobcat, Medium Frogs, Lizards, Small Frogs, Salamanders, Passeriformes onniv., Passeriformes pred., Large Fish, Squirrels, Rabbits, Anseriformes, Large Frogs, White-Tailed Deer, Salamander L, Galliformes, Woodpeckers, Hummingbirds, Caprimulgi-formes, Bats, Shrews, Otter, Egrets, Great blue heron, Wood stork, Gruiformes, Florida Panther, Owls, Kites & Hawks, Pelecaniformes, White ibis, Phytoplankton, Float. vegetation, Periphyton/Macroalgae, Macrophytes, Epiphytes, Vine Leaves, Cypress Leaves, Cypress Wood, HW Wood, Roots
<b>Cypress Wet Season, <math>\rho = 0.117</math></b>
Terrst. I, White ibis, Aquatic I, Raccoon, Living POC, Living SED, Vultures, Tadpoles, Prawn, Crayfish, Apple Snail, Black Bear, Opossum, Fish HO, Fish PC, Snakes, Alligators, Turtles, G Fox, Mice & Rats, Understory, Hardwood L, Salamanders, Anseriformes, M Frog, S Frog, Rabbits, Passeriformes onniv., Lizards, Squirrels, Passeriformes pred., L Fish, Galliformes, Other Herons, Egrets, Florida Panther, L Frog, White-Tailed Deer, Salam. L, Hogs, Hummingbirds, Woodpeckers, Armadillo, Caprimulgi-formes, Bats, Shrews, Bobcat, Otter, Mink, Kites & Hawks, Owls, Pelecaniformes, GB Heron, Wood stork, Gruiformes, Phytoplankton, Float Veg., Periphyton, Macrophytes, Epiphytes, Vine L, Cypress L, Cypress W, Hardwood W, Roots
<b>British Columbia coast (1950), <math>\rho = 0.116</math></b>
other benthos, shrimps, misc. small pelagics, misc. small demersals, crabs, echinoderms, bivalves, sablefish ad., carn. zooplankton, krill, herb. zooplankton, jellies, small squids, arrowtooth ad., dogfish, sea lions, myctophids, chinook, pollock ad., herring ad., herring juv., pollock juv., seals, odontocetae, P. halibut ad., lingcod, pelagic sharks, salmon shark, P. halibut juv., Pac. hake, large squids, Pac. Ocean perch, macrophytes, phytoplankton, rajidae / ratfish, yellowfin sole, rock sole, flatfish other, mysticetae, birds zooplanktiv, rockfish other, P. cod ad., P. cod juv., arrowtooth juv., sablefish juv., sockeye, coho, birds pelag pisciv, birds demer pisciv, misc. pred. pelagics, chum, pink
<b>Central Chile (1998), <math>\rho = 0.114</math></b>
Carrot prawn (a), Carrot prawn (j), Yellow prawn, Chilean hake (j), Chilean hake (a), Copepodps, Phytoplankton, Euphausiids, Sea Lion, Anchovy (a), Anchovy (j), Pilchard (a), Pilchard (j), Rattail fish, Skates, Pacific sand perch, Big-eye flounder, Horse mackerel, Cardinal fish, Black conger
<b>East Bass Strait (1994), <math>\rho = 0.111</math></b>
Continued on next page

**Table 3 – continued from previous page**

Squid, Macrobenthos, Cardinal, Megabenthos, Polychaeta, ShMedPredator, ShLPredator, ShSm-Predator, ShMedInvertFeeder, SlopeMPredator, Pelagic sharks, Primary producers, Sm zooplankton, Mesopelagics, Toothed whale, L zooplankton, Gelatinous nekton, Euphausids, Demersal sharks, PelagicPrawns, Redfish, SlopeLPredator, Seal, ShSmInvertFeeder, SlopeSmPredator, Flat-head, PelSmInvertFeeder, SlopeSmInvertFeeder, Cucumberfish, Redbait, SlopeMInverFeeder, Blue grenadier, Jack mackerel, SlopeLInvertFeeder, Warehous, Whiting, SlopeOceanPerch, Seabirds, PelMInvertFeeder, ShLInvertFeeder, Rays, PelMPredator, Benthic producer, PelLInvertFeeder, Jackass morwong, Oreos, Baleen whale, Deepsea Cod, Blue-eye trevalla, PelLPredator, Chinaman leatherjacket, ShOceanPerch, Penguins, Ling, Tuna/billfish, Dories, Gemfish
<b>North East Pacific (1950), <math>\rho = 0.109</math></b>
other benthos, shrimps, misc. small pelagics, misc. small demersals, crabs, echinoderms, bivalves, sablefish ad., carn. zooplankton, krill, herb. zooplankton, jellies, small squids, arrowtooth ad., odontocetae, sea lions, salmon shark, myctophids, seals, lingcod, pollock juv., dogfish, P. halibut ad., pelagic sharks, herring ad., herring juv., P. halibut juv., Pac. hake, Pac. Ocean perch, P. cod ad., large squids, pollock ad., rockfish other, macrophytes, phytoplankton, northern rockfish, plaice, rajidae / ratfish, yellowfin sole, rock sole, flatfish other, mysticetae, birds zooplanktiv, atka mackerel, P. cod juv., arrowtooth juv., sablefish juv., sockeye, chinook, coho, birds pelag pisciv, birds demer pisciv, misc. pred. pelagics, chum, pink
<b>Charca de Maspalomas, <math>\rho = 0.106</math></b>
Benthic Deposit Feeders, Benthic Microfauna, Liza Aurata, Dicentratus punctatus, Pelagic Bacteria, Microzooplankton, Mesozooplankton, Diplodus Sargus, Cyanobacteria, Eukaryotic Phyto, Gallinula chloropus, Benthic Suspension Feeder, Macrozooplankton, Chara globularis, Ruppia Maritima, Cladophora, Periphyton, Benthic Invertebrate Car.
<b>Strait of Georgia (1950), <math>\rho = 0.104</math></b>
other benthos, crabs, misc. small demersals, shrimps, bivalves, echinoderms, sablefish ad., carn. zooplankton, krill, herb. zooplankton, jellies, herring ad., misc. small pelagics, small squids, pollock ad., dogfish, myctophids, herring juv., flatfish other, sea lions, arrowtooth ad., odontocetae, seals, P. halibut ad., pelagic sharks, salmon shark, lingcod, P. halibut juv., pollock juv., Pac. hake, birds pelag pisciv, rockfish other, large squids, macrophytes, phytoplankton, rajidae / ratfish, yellowfin sole, Pac. Ocean perch, rock sole, mysticetae, birds zooplanktiv, P. cod ad., P. cod juv., arrowtooth juv., sablefish juv., chinook ad., coho ad., sockeye, birds demer pisciv, misc. pred. pelagics, chum, coho juv., pink, chinook juv.
<b>Northern Californian Current (1960), <math>\rho = 0.103</math></b>
zooplankton, forage fish and mesopels, benthic invertebrates, shrimps, cephalopods, abalone adult, abalone juvenile, benthic fish, hake, jellyfish, flatfish, sardine, crabs, widow rockfish juvenile, cabezon juvenile, Phytoplankton, cabezon larvae, lingcod larvae, nearshore rockfish larvae, shortbelly rockfish larvae, widow rockfish larvae, lingcod juvenile, mackarel, widow rockfish adult, nearshore rockfish adult, nearshore rockfish juvenile, cabezon adult, shortbelly rockfish juvenile, shortbelly rockfish adult, salmon, dogfish, sablefish, seals and sealions, lingcod adult, Macroalgae
<b>Arctic seas, <math>\rho = 0.098</math></b>
phytoplankton, benthonic invertebrates, bacteria, larger zooplankton, Greenland shark, killer whale, caplin, smaller zooplankton, benthoni vertebrates, narwhal, walrus, bearded seals, beluga, right whales, clupeid fishes, rorquals, artic char, ringed seal, cod, harp seal, harbour seal
<b>Shallow sublittoral, Cape Ann, Massachusetts, <math>\rho = 0.095</math></b>
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**Table 3 – continued from previous page**

annelids, Myoxocephalus, Pomatomus, Poronatus, isopods, Gammarus, Caprella, Crago, Pagurus, Cancer, plankton and detritus, Polinices, Fundulus, fish fry, macroalgae, Mytilus, Gemma, Scomber, Qupea, Loligo, Chalina, Abietinaria, Sertularia, Metridium, Lichenophora, Littorina littorea, Strongylocentrotus, Limulus, Raja, Asterias, Phoca, Sterna
<b>Ythan estuary, Aberdeenshire, Scotland, <math>\rho = 0.095</math></b>
Flounder Platichthys flesus, Corophium volutator, Ragworm Nereis diversicolor, Barnacles Semibalanus balanoides, Gammurus sp., Hydrobia ulvae, Macoma balthica, Brown shrimp Crangon crangon, Mytilus edulis, Cerastoderma edule, Ostracods, Brown shrimp Crangon crangon, Opposum shrimp Neomysis integer, Formaifera, Butterfish Pholis gunnellus, Viviparous blenny Zoarces viviparous, Fatherlasher Myoxocephalus scorpius, Calanoid copepods, Harpacticoid copepods, Sand goby Pomatoschistus minutus, Sandeel Ammodytes tobianus, Common goby Pomatoschistus microps, Jaera albifrons, Talitrus saltator, Bathyporeia pilosa, Idotea emarginata, Eurydice pulchra, Nototropis sp., Pygospio elegans, Manayunkia aestuarina, Parathemisto sp., Capitella capitata, Arenicola marina, Chironomidae, Aricia sp., Mya arenaria, Nematodes, Dipteran larvae, Acarina, Hesionidae, King ragworm Nereis virens, Phyllodoce mucosa, Littorina littorea, Herring Clupea harengus, Spratt Sprattus sprattus, Eel Anguilla anguilla, Podocotyle staffordi, Redshank Tringa totanus, Saithe Pollachius virens, Common gull Larus canus, Herring gull Larus argentatus, Enteromorpha, Oystercatcher Haematopus ostralegus, Catatropis verrucosa, Black headed gull Larus ridibundus, Levinseniella brachysoma, Amidostomum sp., Five bearded rockling Ciliata mustella, Maritrema gratiosum, Trout Salmo trutta, Hysterothylacium aduncum, Spelotrema claviforma, Cryptocotyle lingua, Himasthla elongata, Profilicollis botulus, Haploparaksis crassirostris, Littorina saxatilis, Renicola roscovita, Maritrema subdolum, Levinseniella sp. no.17, Psilostomum brevicolle, Eteone longa, Hymenolepis sp. 1, Cercariae lebouri, Cryptocotyle jejuna, Himasthla continua, Maritrema oocysta, Microphallid sp. no.15, Notocotyledae sp. no.14, Himasthla interrupt, Ophryocotyle insignis, Parvatrema affine, Apophallus lerouxi, Maritrema humile, Tubificoides benedini, Tubifex costatus, Phytoplankton, Brown algae, Mute swan Cygnus olor, Wigeon Anas penelope, Hyale nilssoni, Alderia modesta, Eider Somateria mollissima, Shelduck Tadorna tadorna, Echinorynchus gadi, Turnstone Arenaria interpres, Retusa obtusa, Lapwing Vanellus vanellus, Eider juvenile, Three-spined stickleback Gasterosteus aculeatus, Flounder juvenile, Plaice juvenile Pleuronectes platessa, Rook Corvus frugilegus, Crow Corvus corone, Nilsson's pipefish Sygnathus rostellatus, Ringed plover Charadris hiaticula, Golden plover Pluvialis apricaria, Grey plover Pluvialis squatarola, Dunlin Calidris alpina, Curlew Numenius arquata, Pogge Agonus cataphractus, Cormorant Phalacrocorax carbo, Great black-backed gull Larus marinus, Lacunovermis macomae, Cucullanus minutus, Pomphorynchus sp., Corynosoma strumosum, Cestode sp.1, Lecithaster gibbosus, Tetrphyllidean larvae, Heron Ardea cinerea, Cucullanus heterochrous, Derogenes varicus, Hemiuris communis, Bar-tailed godwit Limosa lapponica, Opacelididii sp., Otter Lutra lutra, Anisakis sp., Zoogonoides viviparus, Spiruroid larvae, Sandwich tern Sterna sandvicensis, Common tern Sterna hirundo, Arctic tern Sterna paradise
<b>Little Rock Lake, Wisconsin, <math>\rho = 0.092</math></b>
Continued on next page

**Table 3 – continued from previous page**

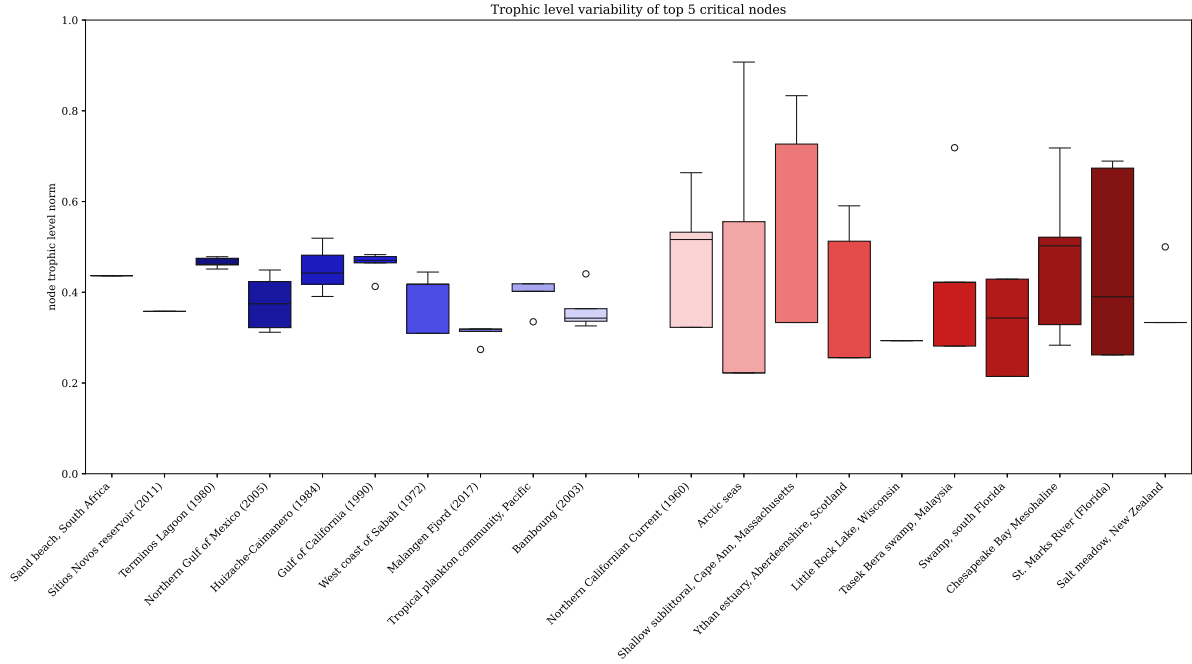
Alona affinis, Alona quadrangularis, Alona rustica, Alona intermedia, Alonella excisa, Disparalona acutirostris, Chydorus sp1, Chydorus sp2, Acantholeberis curvirostris, Ophryoxus gracilis, Scapholeberis kingi, Sida crystallina, Tanytarsus, Oligochaete, Cyclopoid *copepodids, Harpacticoid copepods, Harpacticoid copepodids, Sphaeromais, Leptophlebia, Caenis, Limnephilus, Polycentropus, Chaetocladius, Corynoneura, Cricotopus, Nanocladius, Micropsectra, Paratanytarsus, Chironomus, Cladopelma, Endochironomus, Glyptotendipes, Microtendipes, Paratendipes, Pseudochironomus, Stenochironomus, Stictochironomus, Bivalvia, Campeloma decisum, Sphaeriidae, Spongilla lacustris, Ephydatia muelleri, Corvomyenia everetti, Epischura lacustris, Parachironomus, Polypedilum, Crangonyx gracilis, Hirudinea, Gyrinus, Largemouth bass (Micropterus salmoides), Largemouth bass (Micropterus salmoides), Leptodora kindtii, Polyphemus pediculus, Mudminnow (Umbra), Yellow perch (Perca flavescens), Rock bass (Ambloplites rupestris), Black crappie (Pomoxis nigromaculatus), Yellow perch (Perca flavescens), Rock bass (Ambloplites rupestris), Black crappie (Pomoxis nigromaculatus), Asplanchna, Shiner (Notemigonus crysoleucus), Tropocyclops prasinus, Cryptochironomus, Diaptomus *bithomasi, Mesocyclops edax, Diaptomus minutus, Gerris, Veliidae, Notonectids, Daphnia galeata mendotae, Daphnia parvula, Diaphanosoma birgei, Holopedium gibberum, Ablabesmyia, *Djalmabatista, Guttipelopis, Bosmina longirostris, Eubosmina, Larsia, Chroococcus, Merismopedia, Gomphosphaeria, Rhabdoderma, Aphanothece, Crucigenia, Euastrum, O’cystis, Schroederia, Tetraodon, Ankistrodesmus, Elaktothrix, Scenedesmus, Chroomonas, Cryptomonas, Clinotanypus, Macropelepis, Procladius, Eucyclops serrulatus, Acanthocyclops, Xenochironomus, Chaoborus *albatus, Chaoborus *punctipennis, Bezzia, Macrocyclus albidus, Microcyclops rubellus, LEPIDOPTERA Pyralidae eoparagyraetis, Fish eggs, Hydroporus, Bambusina, Batrachospermum, Binuclearia, Bulbochaete, Desmidium, Geminella, *Greonbladia, Hapalosiphon, Hyalotheca, Lyngbya, Microchaete, Microcoleus, Mougeotia, Oedogonium, Oscillatoria, Phormidium, Plectonema, Radiofilum, Rhizoclonium, Schizothrix, Scytonema, Sphaerozosma, Spirogyra, Tribonema, Zygnema, Gloeotheca, Aphanocapsa, Coelosphaerium, Anabaena, Arthrodesmus, Cosmarium, Pediastrum, Quadrigula, Spondylosium, Staurostrum, Xanthidium, Phacus, Trachelomonas, Asterionella, Dinobryon, Mallomonas, Synedra, Synura, Tabellaria, Conochilus unicornis, Conochiloides, Kellicottia longispina, Kellicottia bostoniensis, Keratella cochlearis, Keratella taurocephala, Keratella crassa, Keratella hiemalis, Polyarthra remata, Polyarthra vulgaris, Trichocerca cylindrica, Gastropus, Synchaeta, Nauplii, Calanoid *copepodids, Oecetis, Mystacides, Agrypnia, Climacia, Tricladida, Enallagma, Anisoptera epitheca, Libellula, Sympetrum, Hydracarina, Banksiola, Molanna, Sialis
<b>Tasek Bera swamp, Malaysia, <math>\rho = 0.079</math></b>
bacteria, fungi, detritivorous invertebrates, detritivorous fishes, carnivorous fishes, emergent herbivorous insects, benthic carnivores, snakes, invertebrate defoliators, benthic herbivores, emergent carnivorous insects, periphyton, submerged macrophytes, vertebrate herbivores, spiders, phytoplankton, Utricularia, Pandanus, swamp forest, zooplankton, herbivorous fishes, shrimps, carnivorous invertebrates, frogs, swallows, Martin pescatore
<b>Swamp, south Florida, <math>\rho = 0.071</math></b>
insect larvae, crayfish, plecopterans, odonates, hemipterans, cyprinodontids, amphipods, bobcats, snakes, turtles, centrarchids, dipterans, alligators, phytoplankton, periphyton, vascular plants, coleopterans, pickerel, copepods, coadocerans, waterfowl, marsh rabbits, deer, water rat, mosquitofish, hemipterans, raccoons, bowfin, gar, opossum, Accipitridae, egrets, herons, ibises
<b>Chesapeake Bay Mesohaline, <math>\rho = 0.062</math></b>
bacteria in sediment poc, zooplankton, blue crab, bay anchovy, menhaden, ctenophores, free bacteria, mya arenaria, bacteria in suspended poc, ciliates, spot, phytoplankton, other polychaetes, nereis, crustacean deposit feeder, oysters, other suspension feeders, benthic diatoms, heterotrophic microflagel, alewife & blue herring, sea nettle, weakfish, meiofauna, macoma spp., fish larvae, shad, striped bass, hogchoker, white perch, summer flounder, croaker, catfish, bluefish
Continued on next page

**Table 3 – continued from previous page**

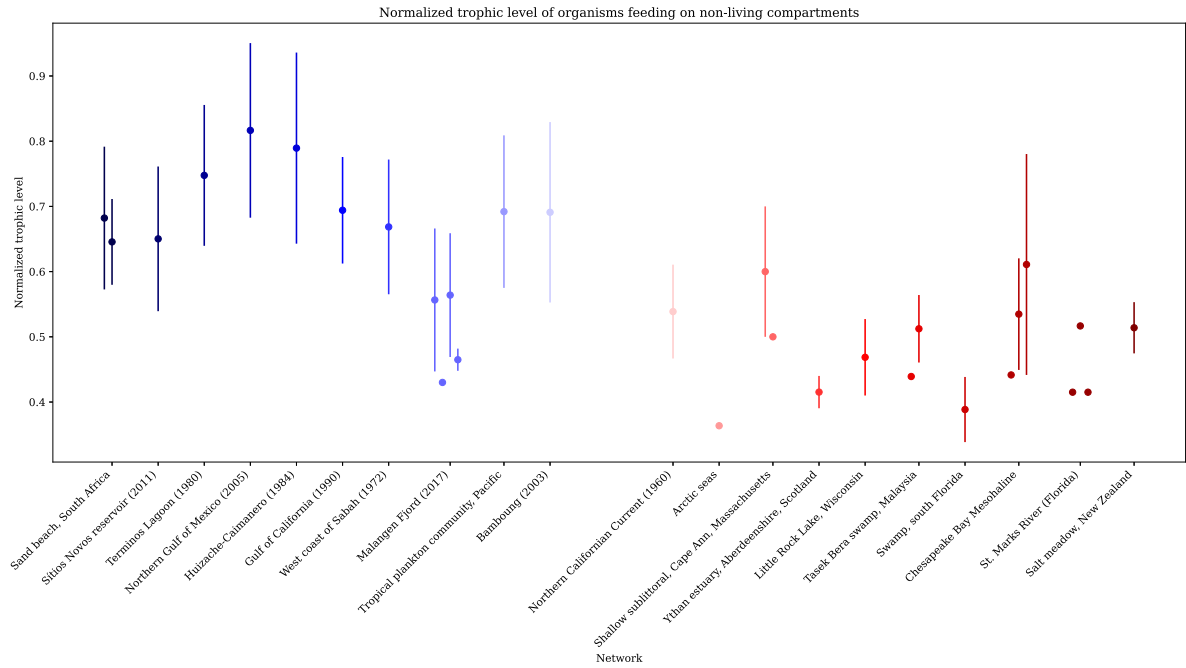
<b>St. Marks River (Florida), <math>\rho = 0.060</math></b>
Benthic bact, Bacterio plankton, Micro protozoa, Predatory polycht, Predatory gastropod, Benthic algae, Omnivorous crabs, Zooplankton, Microfauna, Micro-epiphytes, Halodule, Predatory shrimp, Meiofauna, Spot, Pinfish, Atl. silverside & bay anc, Benthos-eating birds, suspension-feed molluscs, Sheepshead minnow, Herbivorous shrimp, Epiphyte-graz amphipods, Hermit crab, Deposit feed amphipods, Macro-epiphytes, Deposit-feed polycht, Phytoplankton, Isopod, Spider crab, Killifish, Gulf flound & needle fish, Deposit-feed gastropod, Blue crab, Gobies & blennies, Southrn hake & sea robins, Catfish & stingrays, Epiphyte-graz gastropod, Other gastropods, Suspension-feed polychts, Detritus feed crust., Brittle stars, Tongue fish, Pipefish & seahorses, Red Drum, Herbivorous ducks, Gulls, Fish & crust. eating bird, Fish-eating birds, Raptors
<b>Salt meadow, New Zealand, <math>\rho = 0.042</math></b>
amphipods, collembola, mites, fungi, harpacticoids, staphylinids, dipterous larvae, haplotaxid worms, oribatids, leaves, Dotterel, roots, phytophagus nematodes, rabbits, flowers, rotifers, parasitic hymenopterous larvae, seeds, algae, bacteria, weevil larvae, coccids, lepidopterus larvae, other hemiptera, Uromyces scaevolae, bumblebees, adult hymenopterans, tartigrades, Trichostrongylus retortaeformis, Graphidium strigosum, Passalurus ambiguus, stoats, ants, carnivorous namatodes, trombidiform mites, spiders, Hymenolepididae, nematode, analgesid mites, other mites, lice, redpolls, starlings, harrier hawks

### 3.1 Variability of trophic level of critical nodes and species feeding on non-living compartments

We first investigated what is the role of the most critical nodes within the food webs. In Figure 1a we have graphed the distributions of the normalised trophic levels of the top 5 most critical species. The normalisation is done by mapping the trophic levels of these nodes in the interval  $[0, 1]$ , where 0 corresponds to the lowest trophic level in the network and 1 to the highest level. We chose this normalisation in order to make these results comparable. In the figure, we grouped the data by food web, sorting them according to the value of their robustness. In particular, the top 10 most robust food webs are colored in blue and the 10 least robust food webs are colored in red. We note that in the 10 most robust food webs have little variability in trophic level and remain at the lowest end, while in the less robust food webs we measure great variability in trophic level of the most critical species. However, since in choosing the most critical sequences we select those nodes that once removed most rapidly decrease the fraction of reachable pairs, it is fair to expect that in less robust networks there will be nodes specialised in exporting biomass from the lowest part of the food webs (i.e. from the lowest trophic level species) to the top of the food webs. For this reason, we measured the distribution of the normalised trophic level of species feeding from non-living compartments, in Figure 1b. In the figure, we have grouped the data on non-living compartments by food web sorting the food webs with the same criteria mentioned above. Note that if there is more than one non-living compartment in a food web, there will be more than one data item in that food web. The dot represents the mean of the normalised trophic level of the species feeding on the non-living compartment and the bar the standard deviation. We note that as the robustness decreases, the normalised trophic level of species feeding from non-living compartments tends to decrease together with its variability. This suggests that in less robust networks, the biomass in the non-living compartments is exported to higher trophic levels by specialized low-trophic level species.



(a) Distribution of the normalized trophic level of the most critical species.



(b) Distribution of the normalized trophic level of species feeding on non-living compartments.

Figure 1: Distribution of normalized trophic level of nodes in the food web sorted by decreasing robustness (from left to right). The normalisation is done by mapping the trophic levels of these nodes in the interval  $[0, 1]$  where 0 and 1 are the minimum and maximum trophic level of the food web. Networks are sorted by their robustness. The data in blue refer to the 10 most robust networks, those in red to the 10 least robust networks.

## 4 Motif representation

Table 4: Z-scores sorted by  $S2$

Food web name	$S1$	$S2$	$S3$	$S4$	$S5$	$D1$	$D2$	$D3$	$D4$	$D5$	$D6$	$D7$	$D8$
Cape Verde (1981)	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Independence Bay (1996)	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Charca de Maspalomas	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Narragansett Bay Model	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Tasek Bera swamp, Malaysia	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Sechura Bay (1996)	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Falkland Islands (1990)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
North Atlantic (1950)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Central Atlantic (1950)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
North Atlantic (1997)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Salt meadow, New Zealand	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Middle Chesapeake Bay	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Sand beach, South Africa	↓	↑	—	↓	↓	—	—	—	—	—	—	—	—
Central Atlantic (1990)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
West Scotland (2000)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
North Benguela (1967)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Chesapeake Bay Mesohaline	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Chesapeake (1950)	↓	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Bay of Biscay (2013)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
Sørfjord (1993)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Guinea (1998)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Iceland (1950)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
North Benguela	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
East Bass Strait (1994)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Alto Golfo de California	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
North Benguela (1900)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Celtic Sea (2013)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Bay of Biscay (1980)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
Sierra Leone (1990)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
North Benguela (1990)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
St. Marks River (Florida)	↑	↑	↓	↓	↓	—	↓	↑	↑	↓	—	—	—
Bay of Biscay (1998)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↓	↑
Mount St Michel Bay (2003)	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Upper Chesapeake Bay	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Celtic Sea (1980)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Northern Californian Current (1990)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↑
Galapagos, Floreana rocky reef (2000)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓

Continued on next page

Table 4 – continued from previous page

Food web name	S1	S2	S3	S4	S5	D1	D2	D3	D4	D5	D6	D7	D8
Northern Humboldt Current (1997)	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Northern Californian Current (1960)	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Mauritanie (1991)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↓	↑
Sierra Leone 1978 (1978)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
North Sea (1974)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Galapagos (2006)	↑	↑	↓	↓	↓	—	↑	—	↓	—	—	—	—
Bay of Biscay (1970)	↑	↑	↓	↓	↓	↑	↑	↑	↓	↓	↑	↓	↑
Cerbère-Banyuls MPA (2013)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Ningaloo (2007)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Western Tropical Pacific Ocean (1990)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Azores archipelago (1997)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↑
Central Gulf of California (1978)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Prince William Sound (1994)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	—	—	—
Sierra Leone (1964)	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
Lower Chesapeake Bay	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Jurien Bay (2007)	↑	↑	↓	↓	↓	↑	↑	↑	↓	↓	—	—	—
North Sea (1981)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
West Baffin Bay, Coastal and Shelf (2016)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Cap de Creus MPA - whole (2008)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
South western Gulf of Mexico (1970)	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Port Phillip Bay (1994)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Azores (1997)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	↑	↓	↑
Malangen Fjord (2017)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	—	—	—
Western Antarctic Peninsula (1996)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Thermaikos Gulf (1998)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Northern Benguela (1956)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Terminos Lagoon (1980)	↑	↑	↓	↓	↓	↑	↑	↑	↓	↓	—	—	—
USA, South Atlantic Continental Shelf (1995)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Medes Island MPA (2000)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Albatross Bay (1986)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Shallow sublittoral, Cape Ann, Massachusetts	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
USA, Mid Atlantic Bight (1995)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Aleutian Islands (1963)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
South East Alaska (1963)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Mauritania (1998)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	↑	↓	↓
Mauritania (1987)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	↑	↓	↓
Central Baltic Sea (1974)	↑	↑	↓	↓	↓	—	↑	↑	↓	↑	—	↓	↑

Continued on next page

Table 4 – continued from previous page

Food web name	S1	S2	S3	S4	S5	D1	D2	D3	D4	D5	D6	D7	D8
Celtic Sea-Biscay (1980)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
South of Benguela (1960)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Tropical plankton community, Pacific	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Celtic Sea-Biscay (2012)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Northern Gulf St Lawrence (1985)	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Antarctic (1970)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Contemporary Alosine (2000)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Icelandic shelf (1997)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
Rocky shore, Monterey Bay, California	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Port Cros (1998)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	—	—	—
West Florida Shelf Historic Model (1950)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Raja Ampat (2005)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Bay of Biscay (1994)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Jalisco and Colima Coast (1995)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Gulf of California (1990)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Mondego Estuary - Zostrea site	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
South Benguela (1900)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Raja Ampat (1990)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Restored Alosine Biomass (2000)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
South Benguela	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Gulf of Carpentaria (1990)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Sonda Campeche Act (1988)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Hudson Bay (1970)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Guinea (1985)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Little Rock Lake, Wisconsin	↓	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Baie de Seine (2000)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Guinea (2004)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Celtic Sea (1985)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Deep Western Mediterranean sea (2009)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Northern Gulf of St Lawrence (1990)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	—	↑	↓
Yucatan (1987)	↑	↑	↓	↓	↓	↑	↓	↓	↑	↓	—	—	—
Gulf of Thailand (1963)	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Northern British Columbia (1950)	↑	↑	↓	↓	↓	↑	↓	↓	↑	↓	—	↑	↓
Virgin Islands (1960)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↑
North South of China Sea (1970)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	↑	↓	↑
South Benguela (1978)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Morocco (1985)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↑
Eastern Corsican Coast (2012)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↑
Western Channel (1993)	↑	↑	↓	↓	↓	↑	↓	↓	↑	↓	—	↑	↓
Western Channel (1973)	↑	↑	↓	↓	↓	↑	↓	↓	↑	↓	—	↑	↓

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Table 4 – continued from previous page

Food web name	S1	S2	S3	S4	S5	D1	D2	D3	D4	D5	D6	D7	D8
Calvi Bay (1998)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓
Cypress Dry Season	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Northern British Columbia (2000)	↑	↑	↓	↓	↓	↑	↓	↓	↑	↓	—	↑	↓
Sinaloa sur Mexico (1994)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	↑	↑	↓
Gulf of Gabes (2000)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↑
Northern Gulf of Mexico (2005)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Greenland, West Coast (1997)	↑	↑	↓	↓	↓	↑	↑	↓	↑	↓	—	—	—
Lesser Antilles (2001)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
Australia North West Shelf (1986)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↓	↑	↑
Bolinao Coral Reef (1980)	↑	↑	↓	↓	↓	↑	↑	↑	↓	↓	—	↑	↓
Cypress Wet Season	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Tasmanian Seamounts Marine Reserve (1992)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Aegean Sea (2003)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Looe Key National Marine Sanctuary (1980)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Sirinhaém River (2013)	↑	↑	↓	↓	↓	↑	↑	↑	↓	↓	—	—	—
Denmark, Faroe Islands (1997)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↑	↓
Irish Sea (1973)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	↑	↑	↓
South Shetlands (1990)	↑	↑	↓	↓	↓	—	—	—	—	—	—	—	—
Humboldt Current (1995)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	—	—
Kaloko Honokohau (2005)	↑	↑	↓	↓	↓	↑	↑	↓	↓	↓	—	↓	↑
West Florida Shelf (1985)	↑	↓	↓	↓	↓	↑	↑	↓	↓	↓	↑	↓	↓
Mangrove Estuary - Wet Season	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	↑	↓
Mangrove Estuary - Dry Season	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	↑	↓
Huizache-Caimanero (1984)	↑	↓	↓	↑	↑	↓	↑	↑	↓	↓	—	↓	↑
Peru (1973)	↑	↓	↓	↓	↑	↑	↑	↓	↓	↓	—	↓	↑
West coast of Sabah (1972)	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Strait of Georgia (1950)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
West scotland DeepSea (1974)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	↑	↑	↓
Barnegat Bay (1981)	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
British Columbia coast (1950)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	↓	↑
North East Pacific (1950)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	↓	↑
Peru (1960)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	↓	↑
Peru (1953)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	↓	↑
Florida Bay (2006)	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Sri Lanka (2000)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
Santa Pola Bay (2001)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	↑	↑	↓
Bamboung (2006)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
Gulf of Mexico (1950)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—

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Table 4 – continued from previous page

Food web name	S1	S2	S3	S4	S5	D1	D2	D3	D4	D5	D6	D7	D8
Florida Bay - dry season	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
Bamboung (2003)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
Tagus estuary, Portugal	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Florida Bay - wet season	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
Central Chile (1998)	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Everglades Graminoids	↑	↓	↓	↑	↑	↑	↑	↓	↓	↑	—	—	—
Apalachicola Bay (2000)	↑	↓	↓	↑	↑	↑	↑	↑	↓	↓	↑	↓	↑
Ria-Lake Tapajos (2013)	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Tampa Bay (1950)	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
Arctic seas	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Lake Michigan	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Swamp, south Florida	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Paraná River Floodplain (1992)	↑	↓	↓	↑	↑	↑	↑	↑	↓	↓	↓	↓	↑
Ythan estuary, Aberdeenshire, Scotland	↑	↓	↓	↑	↑	↑	↑	↓	↓	↓	—	—	—
Crystal River Creek - Control	↑	↓	↓	↑	↑	—	↑	↑	↓	↓	—	—	—
Sítios Novos reservoir (2011)	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Lake Pyhajarvi, littoral zone, Finland	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Lake Paaajarvi, littoral zone, Finland	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Crystal River Creek - Delta Temp	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—
Barra Del Chuy (1992)	↑	↓	↓	↑	↑	—	—	—	—	—	—	—	—

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