### Supporting Information (from the paper global patterns in ecological indicators in marine food webs)

**Table S1:** Models used in this analysis with ecosystem descriptors and analyses performed (ENA = ecological network analysis, EwE = Ecopath and Ecosim).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area** | **No** | **Country** | **Model** | **Size (km2)** | **Ecosystem type** | **Exploitation** | **Analyses performed\*** | **Groups** | **Depth (m)** | **Date** | **Latitude** | **Longitude** | **References** |
| Africa | 1 | Cape Verde | Cape Verde | 789,400 | Upper slope | yes | Ecopath | 31 | 200-3000 | 1981-1985 | 12.8-19N | 27-20 W | [[1](#_ENREF_1)] |
| 2 | Gambia | Gambia | 10,500 | Shelf | yes | Ecopath | 23 | 0-200 | 1995 | 13.04-13.6N | 20.3-162W | [[2](#_ENREF_2)] |
| 3 | Ghana | Sakumo Lagoon | 1 | Lagoon | yes | Ecopath, Ecospace | 14 | <10 | Early 1970s | 5 N | 2 W | [[3](#_ENREF_3)] |
| 4 | Guinea | Guinea | 43,000 | Shelf | yes | Ecopath | 44 | 0-200 | 1998 | 9.03-10.50N | 13.19-13.17W | [[4](#_ENREF_4)] |
| 5 | Guinea-Bissau | Guinea-Bissau | 10,500 | Shelf | yes | Ecopath | 32 | 200 | 1990-1992 | 11-12.30N | 17-15.5W | [[5](#_ENREF_5)] |
| 6 | Mauritania | Mauritania | 230,000 | Shelf | yes | Ecopath | 38 | 0-200 | 1998 | 16.04-20.50N | 23-16W | [[6](#_ENREF_6)] |
| 7 | Morocco | Morocco | 586,900 | Shelf | yes | Ecopath | 38 | 0-200 | 1985-1986 | 36-20 N | 20-6W | [[7](#_ENREF_7)] |
| 8 | Mozambique | Maputo | 1,100 | Bay | yes | Ecopath | 10 | 15 | 1970-80s | 32.42 S | 26 E | [[8](#_ENREF_8)] |
| 9 | Namibia | Northern Benguela | 179,000 | Shelf | yes | EwE fitting, policy | 32 | 500 | 1956 | 15-29 S | 10-17 E | [[9](#_ENREF_9)] |
| 10 | Senegal | Senegambien | 27,600 | Shelf | yes | Ecopath | 18 | 0-200 | 1990s | 12.5-16.5N | 20-16.5W | [[10](#_ENREF_10)] |
| 11 | Sierra Leone | Sierre Leone 1964 | 27,500 | Shelf | yes | Ecopath | 43 | 200 | 1964 | 7-10 N | 11-16 W | [[11](#_ENREF_11)] |
| 12 | Sierra Leone | Sierre Leone 1978 | 27,500 | Shelf | yes | Ecopath | 43 | 200 | 1978 | 7-10 N | 11-16 W | [[11](#_ENREF_11)] |
| 13 | Sierra Leone | Sierre Leone 1990 | 27,500 | Shelf | yes | Ecopath | 43 | 200 | 1990 | 7-10 N | 11-16 W | [[11](#_ENREF_11)] |
| 14 | South Africa | Gamtoos Estuary | 1 | Estuary | recreational fishing only | EwE, ENA | 33 | 3.5 | 1980-2000s | 34 S | 25 E | [[12](#_ENREF_12)] |
| 15 | South Africa | Sundays Estuary | 2 | Estuary | recreational fishing only | EwE, ENA | 33 | 3 | 1980-2000s | 34 S | 25 E | [[12](#_ENREF_12)] |
| 16 | South Africa | Kromme Estuary | 3 | Estuary | recreational fishing only | EwE, ENA | 33 | 2.8 | 1980-2000s | 34 S | 24 E | [[12](#_ENREF_12)] |
| 17 | South Africa | Swartkops Estuary | 5 | Estuary | yes | EwE, ENA | 33 | 3 | 1980-2000s | 34 S | 26 E | [[12](#_ENREF_12)] |
| Australasia | 18 | Australia | Great Barrier Reef-prawn | 10,000 | Reef | yes | EwE | 25 | 50 | 1997 | 10-12 S | 142-145 E | [[13](#_ENREF_13)] |
| 19 | Bangladesh | Bay of Bengal | 166,000 | Bay | yes | Ecopath, ENA | 15 | 150 | 1984-1986 | 20-22 N | 90-92 E | [[14](#_ENREF_14)] |
| 20 | Brunei Darussalam | Brunei | 7,396 | Coastal | yes | Ecopath | 13 | 100 | 1989 | 4-5 N | 114-115 E | [[15](#_ENREF_15)] |
| 21 | China | East China Sea | 770,000 | Shelf | yes | Ecopath, ENA | 45 | 370 | 1997-2000 | 23-34 N | 122-128 E | [[16](#_ENREF_16)] |
| 22 | India | SE Arabian Sea | 27,000 | Coastal | yes | Ecopath | 24 | 200 | 1999-2001 | 11-18 N | 74-78E | [[17](#_ENREF_17)] |
| 23 | India | Southwest coast of India | 75,390 | Shelf | yes | Ecopath, ENA | 11 | 50 | 1994-1996 | 8-16 N | 72-77 E | [[18](#_ENREF_18)] |
| 24 | Malaysia | West coast of Sabah | 28,000 | Shelf | yes | Ecopath, ENA | 29 | 60 | 1972 | 5-8 N | 112-117 E | [[19](#_ENREF_19)] |
| 25 | Malaysia | West coast of Sarawak | 125,000 | Shelf | yes | Ecopath, ENA | 29 | 60 | 1972 | 1-7 N | 109-114 E | [[19](#_ENREF_19)] |
| 26 | New Caledonia | Loyalty Islands Atoll | 872 | Reef | no | Ecopath | 25 | 20 | 1980s | 20 S | 116 E | [[20](#_ENREF_20)] |
| 27 | Philippines | San Pedro Bay, Leyte | 625 | Bay | yes | Ecopath, ENA | 16 | 20 | 1994-1995 | 25 N | 11 E | [[21](#_ENREF_21)] |
| 28 | Philippines | San Miguel Bay | 1,115 | Bay | yes | Ecopath, ENA | 19 | 20 | 1992-1994 | 13-14 N | 123 E | [[22](#_ENREF_22)] |
| 29 | Taiwan | Kuosheng Bay | 8 | Bay | yes | Ecopath, ENA | 17 | 15 | 1998-2003 | 25 N | 121 E | [[23](#_ENREF_23)] |
| 30 | Taiwan | Lagoon Chiku - Taiwan | 10 | Lagoon | yes | Ecopath, ENA | 13 | 10 | 1997 | 23 N | 120 E | [[24](#_ENREF_24)] |
| 31 | Thailand | Gulf of Thailand | 304,000 | Coastal | yes | EwE, Policy | 40 | 58 | 1973 | 6-13 N | 99-104 E | [[25](#_ENREF_25)], [[26](#_ENREF_26)] |
| Europe | 32 | Canary Islands | Maspalomas Lagoon | 0.05 | Lagoon | no | Ecopath, ENA | 6 | 1.5 | 1993-1994 | 27 N | 15 W | [[27](#_ENREF_27)] |
| 33 | Estonia, Latvia | Gulf of Riga | 240 | Coastal | yes | Ecopath, ENA | 12 | 5 | 1990-2000s | 57 N | 24 E | [[28](#_ENREF_28)] |
| 34 | Estonia, Latvia | Parnu Bay | 700 | Bay | yes | Ecopath, ENA | 12 | 23 | 1990-2000s | 58 N | 24 E | [[28](#_ENREF_28)] |
| 35 | France | Bay of Calvi | 22 | Bay | low | EwE | 27 | 18 | 1998 | 42 N | 8 E | [[29](#_ENREF_29)] |
| 36 | France | Bay of Somme | 50 | Bay | no | Ecopath, ENA | 9 | 11 | 1990s | 50 N | 1 E | [[30](#_ENREF_30)] |
| 37 | France | Seine Estuary | 81 | Estuary | no | Ecopath, ENA | 15 | 5 | 1996-1999 | 49 N | 0.1 W | [[31](#_ENREF_31)] |
| 38 | France | Etang de Thau | 88 | Lagoon | yes | Ecopath | 11 | 10 | 1980s | 43.3 N | 3.3 E | [[32](#_ENREF_32)] |
| 39 | France | Gironde Estuary | 625 | Estuary | yes | Ecopath, ENA | 18 | 20 | 1980s-1990s | 45 N | 1 E | [[33](#_ENREF_33)] |
| 40 | Greece | Aegean model | 8,374 | Upper slope | yes | Ecopath | 40 | 20-300 | 2003-2006 | 40-41N | 24-26 E | [[34](#_ENREF_34)] |
| 41 | Iceland | Iceland | 115,000 | Shelf | yes | EwE | 21 | 200 | 1997 | 63-67 N | 12-26 W | [[35](#_ENREF_35)] |
| 42 | Iceland | Iceland - 1950 | 376,766 | Shelf | yes | EwE, fitting | 24 | 200 | 1950 | 63-67 N | 10-25 W | [[36](#_ENREF_36)] |
| 43 | Italy | Orbetello 1995 | 25 | Lagoon | yes | Ecopath, ENA | 12 | 1 | 1995 | 42 N | 11 E | [[37](#_ENREF_37)] |
| 44 | Italy | Orbetello Lagoon | 25 | Lagoon | yes | Ecopath, ENA | 12 | 1 | 1996 | 42 N | 11 E | [[37](#_ENREF_37)] |
| 45 | Italy | Lagoon of Venice | 35 | Lagoon | yes | Ecopath, ENA | 16 | 0.5 | 1990s | 45 N | 12 E | [[38](#_ENREF_38)] |
| 46 | Italy | Venice Lagoon (Seagrass habitat) | 40 | Lagoon | yes | Ecopath, ENA | 21 | 0.5 | 1990s | 45 N | 12 E | [[39](#_ENREF_39)] |
| 47 | Italy | Miramare Natural Marine Reserve | 120 | Coastal | no | Ecopath, ENA | 18 | 18 | 1986 | 45 N | 13 E | [[40](#_ENREF_40)] |
| 48 | Italy | Venice Lagoon (Tapes habitat) | 134 | Lagoon | yes | Ecopath, ENA | 27 | 0.5 | 1990s | 45 N | 12 E | [[41](#_ENREF_41)] |
| 49 | Italy | North-Central Adriatic 1970s | 55,500 | Shelf | yes | EwE, fitting | 40 | 10-200 | 1975-1980 | 42-46 N | 12-17 E | [[42](#_ENREF_42)] |
| 50 | Italy | North-Central Adriatic 1990s | 55,500 | Shelf | yes | Ecopath, ENA | 40 | 10-200 | mid 1990 | 42-46 N | 12-16 E | [[43](#_ENREF_43)] |
| 51 | Lituania | Lithuanian Coast | 7,000 | Coastal | yes | Ecopath, ENA | 12 | 14 | 1990-2000s | 56 N | 21 E | [[28](#_ENREF_28)] |
| 52 | Norway | Sorfjord | 55 | Bay | low | Ecopath | 27 | 125 | 1990s | 69,35 N | 19,45 E | [[44](#_ENREF_44)] |
| 53 | Poland, Lituania | Puck Bay | 359 | Bay | yes | Ecopath, ENA | 12 | 8.5 | 1990-2000s | 54.5 N | 19.5 E | [[28](#_ENREF_28)] |
| 54 | Poland, Lituania | Curonian Lagoon | 1,584 | Lagoon | yes | Ecopath, ENA | 12 | 3.5 | 1990-2000s | 55.5 N | 21 E | [[28](#_ENREF_28)] |
| 55 | Spain | Catalan sea 1980s | 4,500 | Upper slope | yes | EwE, ENA | 40 | 50-400 | 1976-1980 | 40-41N | 0-1E | [[45](#_ENREF_45)] |
| 56 | Spain | Catalan sea 1990s | 4,500 | Upper slope | yes | Ecopath and Ecosim, ENA | 40 | 50-400 | 1990-2000 | 40-41N | 0-1E | [[46](#_ENREF_46)] |
| 57 | Spain | Catalan sea 2003 | 4,500 | Upper slope | yes | EwE, ENA | 40 | 50-400 | 2003 | 40-41N | 0-1E | [[47](#_ENREF_47)] |
| 58 | Spain | Cantabrian Sea | 16,000 | Coastal | yes | Ecopath, ENA | 28 | 200 | 1994 | 43-45 N | 2-8 W | [[48](#_ENREF_48)] |
| 59 | Sweden, Finland, Poland | Baltic Sea (NEST) | 211,069 | Shelf | yes | EwE, fitting | 16 | <100 | 1974 | 54-60 N | 12-29 W | [[49](#_ENREF_49)], [[50](#_ENREF_50)] |
| 60 | Sweden, Finland, Poland | Baltic Sea | 240,000 | Shelf | yes | EwE, fitting | 16 | <100 | 1974 | 54-60 N | 12-29 W | [[51](#_ENREF_51)] |
| 61 | UK | West Coast of Scotland | 31,085 | Shelf | yes | EwE, Ecospace | 37 | 200 | 1995-2000 | 55-57 N | 5-8 W | [[52](#_ENREF_52)], [[53](#_ENREF_53)] |
| 62 | UK | Western English Chanel | 56,452 | Shelf | yes | EwE, fitting | 52 | 100 | 1973 | 48-50 N | 1-6 W | [[54](#_ENREF_54)], [[55](#_ENREF_55)] |
| 63 | UK | English Channel 1995 | 89,607 | Shelf | yes | Ecopath | 50 | 100 | 1995 | 49-50 N | 2 W - 2 E | [[56](#_ENREF_56)] |
| 64 | UK | North Sea 1880 | 570,000 | Shelf | yes | Ecopath | 46 | 200 | 1880 | 51-60 N | 2.5 W - 8.5 E | [[57](#_ENREF_57)] |
| 65 | UK | North Sea 1991 | 575,000 | Shelf | yes | EwE, fitting, Ecospace | 68 | 90 | 1991 | 51-62 N | 4W - 9 E | [[58](#_ENREF_58)] |
| 66 | UK | Deep sea West Coast of Scotland | 75,539 | Upper slope | yes | EwE, fitting | 39 | 400-2000 | 1974 | 54-60 N | 5-11 W | [[59](#_ENREF_59)], [[60](#_ENREF_60)] |
| North America | 67 | Canada | Strait of Georgia | 6,900 | Shelf | yes | Ecopath | 27 | ean 156, ax 420 | 1980s | 48-49 N | 122-123 W | [[61](#_ENREF_61)] |
| 68 | Canada | Eastern Scotian Shelf 1980s | 102,325 | Shelf | yes | Ecopath | 39 | 400 | mid-1980s | 42-45 N | 57-63 | [[62](#_ENREF_62)] |
| 69 | Canada | Eastern Scotian Shelf 1990s | 102,325 | Shelf | yes | Ecopath | 39 | 400 | mid-1990s | 42-45 N | 57-63 | [[62](#_ENREF_62)] |
| 70 | Canada | Northern Gulf of St. Lawrence 1980s | 103,812 | Shelf | yes | Ecopath | 32 | 480 | mid-1980s | 48-51 N | 66-57 | [[63](#_ENREF_63)], [[64](#_ENREF_64)] |
| 71 | Canada | Northern Gulf of St. Lawrence 1989s | 103,812 | Shelf | yes | Ecopath | 32 | 480 | mid-1990s | 48-51 N | 66-57 | [[63](#_ENREF_63)], [[64](#_ENREF_64)] |
| 72 | Canada | Northern Gulf of St. Lawrence 2000s | 103,812 | Shelf | yes | Ecopath | 32 | 480 | early-2000s | 48-51 N | 66-57 | [[63](#_ENREF_63)], [[64](#_ENREF_64)] |
| 73 | Canada | Southern Gulf of St. Lawrence 1980s | 103,812 | Shelf | yes | Ecopath | 30 | 480 | mid-1980s | 45-48 N | 59-65 | [[63](#_ENREF_63)], [[64](#_ENREF_64)] |
| 74 | Canada | Southern Gulf of St. Lawrence 1990s | 103,812 | Shelf | yes | Ecopath | 30 | 480 | mid-1990s | 45-48 N | 59-65 | [[63](#_ENREF_63)], [[64](#_ENREF_64)] |
| 75 | Mexico | Tampamachoco Lagoon | 15 | Lagoon | yes | Ecopath | 23 | <10 | 1986 | 21 N | 97 W | [[65](#_ENREF_65)] |
| 76 | Mexico | Celestun Lagoon | 28 | Lagoon | yes | Ecopath | 19 | 3 | 1992-1994 | 20 N | 90 W | [[66](#_ENREF_66)], [[67](#_ENREF_67)] |
| 77 | Mexico | Huizache-Caimanero | 175 | Lagoon | yes | EwE, fitting, policy | 26 | 0.85 | 1984-1986 | 23 N | 106 W | [[68](#_ENREF_68)], [[69](#_ENREF_69)], [[70](#_ENREF_70)] |
| 78 | Mexico | Campeche Bank | 250 | Shelf | yes | Ecopath | 19 | <200 | 1985-1990 | 20 N | 90 W | [[71](#_ENREF_71)] |
| 79 | Mexico | Tamaihua Lagoon | 800 | Lagoon | yes | Ecopath | 13 | <10 | 1980s | 21.5 N | 97.5 W | [[72](#_ENREF_72)] |
| 80 | Mexico | Terminos Lagoon | 2,500 | Lagoon | yes | Ecopath, ENA | 20 | 3.5 | 1980s | 18 N | 91 W | [[73](#_ENREF_73)] |
| 81 | Mexico | Seagrass&Mangrove Terminos Lagoon | 3,670 | Lagoon | yes | Ecopath, ENA | 16 | 3.5 | early 1990s | 18-20 N | 91-92 W | [[74](#_ENREF_74)] |
| 82 | Mexico | Alto Golfo de California | 7,200 | Shelf | yes | Ecopath, ENA | 29 | 200 | 1980-2000 | 29-32 N | 112-115 W | [[75](#_ENREF_75)] |
| 83 | Mexico | Central Gulf of California | 27,900 | Shelf | yes | EwE, fitting, policy | 27 | >2000 | 1978-1979 | 25-29 N | 109-112 E | [[76](#_ENREF_76)] |
| 84 | Mexico | Northern Gulf of California | 36,000 | Shelf | yes | EwE, fitting | 34 | 400 | 1960 | 29-32 N | 112-114 W | [[77](#_ENREF_77)] |
| 85 | Mexico | Sonda de Campeche | 65,000 | Shelf | yes | Ecopath, ENA | 19 | <200 | 1980s | 20 N | 91-94 W | [[78](#_ENREF_78)] |
| 86 | Mexico | Yucatan Continental Shelf | 100,000 | Shelf | yes | Ecopath, ENA | 21 | 200 | 1980s | 19-24 N | 85-92 W | [[79](#_ENREF_79)] |
| 87 | Mexico | Gulf of Mexico | 500,000 | Shelf | yes | Ecopath | 15 | <200 | 1980s | 18-30 N | 82-97 W | [[80](#_ENREF_80)] |
| 88 | Mexico | La Paz Bay | 1,500 | Bay | yes | EwE, fitting, policy | 22 | <200 | 1990s | 24-25 N | 110-111 W | [[81](#_ENREF_81)], [[82](#_ENREF_82)] |
| 89 | Mexico | Mandinga Lagoon | 10 | Lagoon | no | Ecopath | 20 | 3 | 1982-1983 | 18 N | 94 W | [[83](#_ENREF_83)] |
| 90 | Mexico | Western Gulf of Mexico | 1,500,000 | Coastal | yes | Ecopath, ENA | 24 | 200 | 1970s | 18-22 N | 96-97 W | [[84](#_ENREF_84)] |
| 91 | USA | Prince William Sound 1980s | 8,800 | Shelf | yes | EwE | 19 | 800 | 1980-1989 | 61 N | 147-148 W | [[85](#_ENREF_85)] |
| 92 | USA | Prince William Sound 1990s | 8,800 | Shelf | yes | EwE, policy | 48 | 800 | 1994-1996 | 61 N | 147-148 W | [[86](#_ENREF_86)] |
| 93 | USA | Aleutians Islands | 56,936 | Shelf | yes | EwE, fitting | 40 | 500 | 1963 | 50-54 N | 170 W - 170 E | [[87](#_ENREF_87)] |
| 94 | USA | Western Bering Sea | 1,358,000 | Shelf | yes | Ecopath | 36 | >200 | 1980-1985 | 52-62 N | 160-180 E | [[88](#_ENREF_88)] |
| 95 | USA | Monterey Bay | 909 | Bay | yes | Ecopath | 16 | 1000 | 1980s | 36-37 N | 121-122 W | [[89](#_ENREF_89)] |
| 96 | USA | Looe Key Sanctuary | 30 | Reef | no | Ecopath | 20 | <50 | 1980s | 24 N | 81 W | [[90](#_ENREF_90)] |
| 97 | USA | West Florida Shelf | 170,000 | Shelf | yes | Ecopath | 59 | 200 | 1960-1990 | 24-30 N | 80-87 W | [[91](#_ENREF_91)] |
| South America | 98 | Brazil | Southern Brazil Shelf | 28,661 | Shelf | yes | EwE, fitting | 13 | 200 | 1950 | 32-43 S | 51-54 W | [[92](#_ENREF_92)] |
| 99 | Brazil | South Brazil Bight | 97,000 | Shelf | yes | EwE | 25 | 100 | 1998-1999 | 23-28 S | 42-48 W | [[93](#_ENREF_93)] |
| 100 | Chile | Tongoy Bay | 60 | Bay | yes | Ecopath, ENA | 17 | 90 | 1978-1989 | 30S | 71 W | [[94](#_ENREF_94)] |
| 101 | Chile | Central Chile | 50,042 | Shelf | yes | Ecopath | 21 | 2000 | 1992-1998 | 33-39 S | 71-74 W | [[95](#_ENREF_95)] |
| 102 | Costa Rica | Golf of Dulce | 705 | Estuary | yes | Ecopath | 20 | 200 | 1990s | 8 N | 83 W | [[96](#_ENREF_96)] |
| 103 | Costa Rica | Gulf of Nicoya | 1,530 | Estuary | yes | Ecopath | 21 | 200 | 1990s | 9-10 N | 84-85 W | [[97](#_ENREF_97)] |
| 104 | Venezuela | Venzuela Shelf | 30,000 | Shelf | yes | Ecopath | 16 | 200 | 1980s | 10-11 N | 62-66 W | [[98](#_ENREF_98)] |
| 105 | Virgin Islands | Virgin Islands | 17 | Reef | no | Ecopath | 21 | 100 | 1960-1990s | 16-18 N | 60-67 S | [[99](#_ENREF_99)] |

\* ENA – ecological network analysis, EwE = Ecopath and Ecosim

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