**Supplementary Table 4. All species included in the analysis, along with key attribute**

**information**. Attribute information were initially extracted from the FishBase 61SeaLifeBase 62, and/or Encyclopedia of Life (EOL) 63online databases; additional references used to check initial values and fill in missing information are noted.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Scientific Name** | **Common Name** | **Minimum Temperature** | **Maximum Temperature** | **L∞** | **K** | **Additional** |
| **References** |
| FISH | | | | | | |
| Acanthopagrus berda | Goldsilk seabream | 14.6 | 25.7 | 56 | 0.29 |  |
| Acanthopagrus latus | Yellowfin seabream | 4.9 | 38.2 | 35.2 | 0.17 |  |
| Acanthopagrus schlegeli schlegelii | Blackhead seabream | 10.4 | 26.3 | 50 | 0.22 |  |
| Acipenser gueldenstaedtii | Danube (diamond) sturgeon | 10 | 20 | 236 | 0.04 | www.orchardfisheries.co.uk/ |
| Acipenser nudiventris | Fringebarbel sturgeon | 10 | 20 | 200 | 0.07 |  |
| Acipenser stellatus | Starry sturgeon | 10 | 20 | 218.7 | 0.08 | www.sturgeon-web.co.uk/ |
| Acipenser transmontanus | White sturgeon | 10 | 23.3 | 610 | 0.04 | Crocker & Cech 64, Conte65 |
| Anarhichas lupus | Atlantic wolffish | 0 | 13 | 152 | 0.09 | O'Dea *et al.*66 |
| Anarhichas minor | Spotted wolffish | 4 | 12 | 190 | 0.1 | Imsland *et al*.67 ; Foss *et al.*68 |
| Anguilla anguilla | European eel | 4 | 33 | 152.8 | 0.24 | Sadler 69 |
| Anguilla rostrata | American eel | 4 | 25 | 120 | 0.33 |  |
| Anoplopoma fimbria | Sablefish | 1.8 | 14.6 | 120 | 0.25 |  |
| Argyrosomus japonicus | Japanese meagre | 12 | 28 | 200 | 0.14 |  |
| Argyrosomus regius | Meagre | 11.9 | 23 | 185.5 | 0.14 |  |
| Atherina boyeri | Big-scale sand smelt | 6 | 25 | 10.9 | 0.62 |  |
| Bolbometopon muricatum | Green humphead parrotfish | 26.3 | 29 | 125 | 0.12 |  |
| Carangoides malabaricus | Malabar trevally | 19.9 | 28.4 | 37.3 | 0.82 |  |
| Caranx hippos | Crevalle jack | 9.6 | 27.8 | 80 | 0.65 |  |
| Caranx sexfasciatus | Bigeye trevally | 21 | 30 | 74.1 | 0.24 | Gilbey70 |
| Centropomus undecimalis | Common snook | 25 | 31 | 140 | 0.4 |  |
| Chaetodipterus faber | Atlantic spadefish | 2.5 | 28 | 50.4 | 0.34 |  |
| Chanos chanos | Milkfish | 15 | 42.5 | 180 | 1.03 | https://www.spc.int/aquaculture/ ; http://www.fao.org/fishery/culturedspecies/search |
| Chelon macrolepis | Largescale mullet | 20 | 28.9 | 23 | 0.1 | http://www.fao.org/fishery/culturedspecies/search |
| Coregonus lavaretus | European whitefish | 4 | 29.8 | 59.7 | 0.38 | Vielma *et al*. 71 |
| Coryphaena hippurus | Common dolphinfish | 21 | 30 | 157.9 | 1.67 |  |
| Cromileptes altivelis | Humpback grouper | 26.5 | 29 | 65.4 | 0.35 |  |
| Dentex dentex | Common dentex | 9.7 | 17.6 | 100 | 0.09 |  |
| Dentex tumifrons | Yellowback seabream | 10.4 | 26.3 | 35 | 0.25 |  |
| Dicentrarchus labrax | European seabass | 8 | 24 | 77 | 0.2 |  |
| Dicentrarchus punctatus | Spotted seabass | 10.5 | 23.5 | 70 | 0.11 |  |
| Diplodus puntazzo | Sharpsnout seabream | 24.3 | 24.3 | 60 | 0.47 | García *et al*72 |
| Diplodus sargus sargus | White seabream | 14.7 | 18 | 42.3 | 0.16 |  |
| Diplodus vulgaris | Common two-banded seabream | 14.7 | 19.7 | 40.8 | 0.26 |  |
| Dormitator latifrons | Pacific fat sleeper | 24.6 | 33 | 41 | 0.57 |  |
| Eleutheronema tetradactylum | Fourfinger threadfin | 27.6 | 27.7 | 128.7 | 0.37 |  |
| Epinephelus akaara | Hong Kong (redspotted) grouper | 19 | 30.2 | 54.5 | 0.36 |  |
| Epinephelus areolatus | Areolate grouper | 18.5 | 28.6 | 40.6 | 0.31 | http://library.enaca.org/Grouper/Research/Breeding/2000/0803.htm |
| Epinephelus coioides | Orange-spotted grouper | 17 | 35 | 108 | 0.15 | Lin *et al.* 73 |
| Epinephelus fuscoguttatus | Brown-marbled grouper | 10 | 36.5 | 113.3 | 0.18 | Cheng *et al*. 74 |
| Epinephelus lanceolatus | Giant grouper | 26.3 | 26.3 | 270 | 0.36 | Hseu *et al.*75 |
| Epinephelus malabaricus | Malabar grouper | 19 | 30.2 | 163.6 | 0.8 |  |
| Epinephelus tauvina | Greasy grouper | 17 | 29.2 | 115.4 | 0.13 | http://library.enaca.org/Grouper/Research/Breeding/2000/0803.htm |
| Evynnis japonica | Crimson seabream | 10.4 | 26.3 |  | 0.22 |  |
| Gadus morhua | Atlantic cod | 0 | 15 | 115 | 0.19 | Schurmann and Steffensen 76; |
| Gnathanodon speciosus | Golden trevally | 23 | 29.3 | 108.2 | 0.39 | saltwater.aqua-fish.net/?gold-trevally |
| Hippoglossus hippoglossus | Atlantic halibut | 0.9 | 18 | 470 | 0.08 | Stuart *et al*.77 |
| Huso huso | Beluga | 10 | 20 | 800 | 0.04 |  |
| Konosirus punctatus | Dotted gizzard shad | 8.5 | 27.2 | 19.7 | 0.27 |  |
| Larimichthys crocea | Large yellow croaker | 9 | 30 | 80 | 0.32 |  |
| Lateolabrax japonicus | Japanese seabass | 13 | 23 | 25 | 0.18 |  |
| Lates calcarifer | Barramundi | 15 | 38 | 176 | 0.39 |  |
| Lethrinus miniatus | Trumpet emperor | 21 | 29.3 | 80 | 0.3 |  |
| Liza aurata | Golden grey mullet | 10.8 | 18.8 | 56 | 0.25 |  |
| Liza ramada | Thinlip grey mullet | 8 | 24 | 62.5 | 0.26 |  |
| Liza saliens | Leaping mullet | 9 | 32 | 30.5 | 0.25 | Katselis *et al*. 78 |
| Lutjanus argentimaculatus | Mangrove red snapper | 16 | 30 | 119.5 | 0.19 |  |
| Lutjanus goldiei | Papuan black snapper | 18.3 | 27.2 | 100 | 0.28 |  |
| Lutjanus johnii | John's snapper | 20.8 | 26.8 | 70 | 0.21 |  |
| Lutjanus russelli | Russell's snapper | 23.3 | 26.4 | 45 | 0.56 |  |
| Megalops atlanticus | Tarpon | 4.3 | 27.5 | 189.5 | 0.09 |  |
| Melanogrammus aeglefinus | Haddock | 2 | 15.5 | 74.5 | 0.27 |  |
| Miichthys miiuy | Mi-iuy (brown) croaker | 6 | 25 | 70 | 0.32 |  |
| Morone saxatilis | Striped bass | 6.4 | 25 | 200 | 0.19 | Breitburg *et al.* 79 |
| Mugil cephalus | Flathead grey mullet | 8 | 24 | 71.2 | 0.29 |  |
| Mugil curema | White mullet | 10 | 29.3 | 28 | 0.57 | txstate.fishesoftexas.org/ |
| Muraenesox cinereus | Daggertooth pike conger | 10 | 27.9 | 111.2 | 0.37 | Golani and Ben-Tuvia 80 |
| Mycteroperca bonaci | Black grouper | 16 | 28 | 133.3 | 0.15 | www.sms.si.edu/irlspec/Mycter\_bonaci.htm |
| Oncorhynchus gorbuscha | Pink salmon | 0.3 | 21 | 76 | 0.54 | Raleigh 81 |
| Oncorhynchus keta | Chum salmon | 0 | 23.7 | 95 | 0.35 |  |
| Oncorhynchus kisutch | Coho salmon | 0 | 24.8 | 98 | 0.98 | Carter82 |
| Oncorhynchus mykiss | Rainbow trout | 0 | 29 | 89.5 | 0.54 | Molony83; Elloitt 84 |
| Oncorhynchus nerka | Sockeye salmon | 0 | 24.9 | 84 | 0.48 |  |
| Oncorhynchus tshawytscha | Chinook salmon | 0 | 24.9 | 120.8 | 0.54 |  |
| Pagellus bogaraveo | Blackspot seabream | 9.8 | 19.7 | 35.3 | 0.14 |  |
| Pagellus erythrinus | Common pandora | 7.1 | 20.2 | 37.6 | 0.2 |  |
| Pagrus auratus | Silver seabream | 9.2 | 29.3 | 130 | 0.13 |  |
| Pagrus major | Red (Japanese) seabream | 7.7 | 22 | 100 | 0.15 | Foscarini 85; Ishibashi *et al.* 86; Woo and Fung87 |
| Pagrus pagrus | Red porgy | 8.3 | 25.4 | 62.9 | 0.18 |  |
| Paralichthys olivaceus | Bastard halibut | 14 | 23 | 103 | 0.15 |  |
| Platax orbicularis | Orbicular batfish | 22 | 28 | 53.3 | 0.56 |  |
| Platichthys flesus | European flounder | 5 | 25 | 43.3 | 0.37 |  |
| Plectropomus maculatus | Spotted coralgrouper | 22 | 28.9 | 100.3 | 0.21 |  |
| Pleurogrammus azonus | Okhotsk atka mackerel | 10 | 29 | 50 | 0.35 |  |
| Pleuronectes platessa | European plaice | 2 | 25 | 100 | 0.15 | Freitas *et al*.88 |
| Pollachius pollachius | Pollack | 6.5 | 12.3 | 130 | 0.19 |  |
| Polydactylus sexfilis | Sixfinger threadfin (moi) | 25.3 | 40 | 60.7 | 0.56 | Halwart and Gupta89 |
| Pomatomus saltatrix | Bluefish | 6.1 | 27.4 | 103 | 0.17 |  |
| Psetta maxima | Turbot | 8 | 20 | 60.3 | 0.29 | Imsland *et al*. 90; Burel *et al*. 91 |
| Pseudocaranx dentex | White trevally | 13.3 | 26.3 | 89.3 | 0.22 |  |
| Pseudopleuronectes americanus | Winter flounder | 0.8 | 23.9 | 39.7 | 0.38 |  |
| Rachycentron canadum | Cobia | 26 | 32 | 152.8 | 0.33 | Kaiser & Holt 92 |
| Rhabdosargus sarba | Goldlined seabream | 21.1 | 26.9 | 63.1 | 1.36 |  |
| Salmo salar | Atlantic salmon | 2 | 28 | 128.6 | 0.37 | Elliott & Elliott93 ; http://www.fao.org/fishery/culturedspecies/search |
| Salmo trutta | Sea (brown) trout | 0 | 24 | 69.2 | 0.29 | Elliott94; Molony ; Elliott & Elliott 93; Elliott 84 |
| Salvelinus alpinus alpinus | Arctic char | 4 | 22 | 92.5 | 0.04 | Elliott & Elliott 93 |
| Salvelinus fontinalis | Brook trout | 0 | 25 | 67.5 | 0.32 | Raleigh95; Elliott 84 |
| Sciaenops ocellatus | Red drum | 9.6 | 26 | 104.5 | 0.4 |  |
| Sebastes schlegelii | Korean (Schlegel's) rockfish | 15 | 24 | 65 | 0.27 |  |
| Seriola dumerili | Greater amberjack | 3.2 | 26.8 | 144 | 0.23 |  |
| Seriola quinqueradiata | Japanese amberjack | 18 | 29 | 150 | 0.44 |  |
| Seriola rivoliana | Longfin yellowtail (Almaco jack) | 18 | 26.9 | 114.7 | 0.56 |  |
| Siganus canaliculatus | White-spotted spinefoot | 21 | 34 | 27.7 | 1.87 | Grandcourt *et al*. 96 |
| Siganus guttatus | Goldlined spinefoot | 24 | 28 | 39 | 1.66 |  |
| Siganus javus | Streaked spinefoot | 25 | 28 | 44.6 | 0.56 |  |
| Siganus rivulatus | Marbled spinefoot | 15 | 28.7 | 40 | 0.46 | Galil97 |
| Solea senegalensis | Senegalese sole | 15 | 21 | 60 | 0.18 | Campos *et al.*98 |
| Solea solea | Common sole | 5.7 | 27 | 50.3 | 0.35 | Pörtner *et al.*99 |
| Sparidentex hasta | Sobaity seabream | 17.8 | 26.3 | 66.5 | 0.35 |  |
| Sparus aurata | Gilthead seabream | 11.5 | 22.7 | 70 | 0.3 |  |
| Takifugu rubripes | Tiger pufferfish | 10 | 29 | 80 | 0.52 |  |
| Thunnus albacares | Yellowfin tuna | 15 | 31 | 180.6 | 0.38 | NOAA Fisheries 100 |
| Thunnus maccoyii | Southern bluefin tuna | 5 | 30 | 212.7 | 0.14 | Patterson *et al.* 101; http://www.fao.org/fishery/topic/16082/en |
| Thunnus orientalis | Pacific bluefin tuna | 13.6 | 29 | 50 | 0.16 |  |
| Thunnus thynnus | Atlantic bluefin tuna | 2.8 | 31 | 298 | 0.12 | www.newworldencyclopedia.org/entry/Bluefin\_tuna |
| Tilapia guineensis | Guinean tilapia | 14 | 33 | 30 | 2.13 | http://www.fao.org/fishery/culturedspecies/search |
| Trachinotus blochii | Snubnose (silver) pompano | 20 | 31 | 96.7 | 0.56 | Kalidas *et al*. 102; Wen *et al.*103 |
| Trachinotus carolinus | Florida pompano | 13.2 | 25.9 | 64 | 0.27 |  |
| Trachinotus goodei | Great pompano | 12 | 34 | 150 | 0.29 | Jory *et al*. 104 |
| Trachurus japonicus | Japanese jack mackerel | 10 | 29 | 31.7 | 0.35 |  |
| Umbrina cirrosa | Shi drum | 9.6 | 26 | 73 | 0.63 |  |
| BIVALVES | | | | | | |
| Aequipecten opercularis | Queen scallop | 4.9 | 19.2 | 11 | 0.74 |  |
| Anadara grandis (tuberculosa) | Grand ark | 26 | 37.5 | 63.2 | 0.14 | Broom 105; Stern-Pirlot and Wolff 106 |
| Anadara granosa | Blood cockle | 25 | 32.8 | 9 | 1.8 | Brom107; Yurimoto *et al*. 108 |
| Anadara tuberculosa | Black ark | 22 | 31 | 63.2 | 0.71 | Nieves-Soto *et al.* 109; Stern-Pirlot & Wolff 106 |
| Argopecten purpuratus | Peruvian calico scallop | 16 | 20 | 12 | 2.32 | Navarro *et al*. 110 |
| Argopecten ventricosus | Pacific calico scallop | 20 | 29 | 17.5 | 0.6 | Maeda-Martínez *et al*. 111 |
| Aulacomya ater | Cholga mussel | 0 | 25.6 | 6.3 | 0.35 | Urban 112 |
| Cerastoderma edule | Common edible cockle | 6.8 | 12 | 5.6 | 0.58 |  |
| Chamelea gallina | Striped venus | 6.5 | 13.1 | 5 | 0.43 |  |
| Chlamys varia | Variegated scallop | 3.5 | 19.2 | 9 | 0.57 |  |
| Choromytilus chorus | Choro mussel | 20 | 26.3 | 5 | 0.35 | Urban 112 |
| Crassostrea gasar | Gasar cupped oyster | 18 | 26 | 15.4 | 1.58 | Ramos *et al*. 113 |
| Crassostrea gigas | Pacific cupped oyster | 15 | 30 | 45 | 1.15 |  |
| Crassostrea iredalei | Slipper cupped oyster | 14 | 34 | 9 | 1.58 |  |
| Crassostrea madrasensis | Indian backwater oyster | 30 | 45 | 11.6 | 1.44 | Rajagopal *et al*. 114; Alam & Das 115 |
| Crassostrea rhizophorae | Mangrove cupped oyster | 24.8 | 24.8 | 12 | 2.79 |  |
| Crassostrea virginica | American cupped oyster | -1.6 | 24.3 | 30 | 0.88 |  |
| Cyclina sinensis | Oriental cyclina | 20 | 35 | 5 | 0.87 | Ying-Jie 116 |
| Hippopus hippopus | Bear paw clam | 24.7 | 29.2 | 40 | 0.15 |  |
| Lyropecten subnodosus | Pacific lion's paw | 15.5 | 25.1 | 17.8 | 0.55 | Arellano-Martinez *et al.*117 |
| Mactra glabrata | Smooth mactra | 10 | 30 | 27.6 | 0.02 |  |
| Mactra veneriformis | Globose clam | 10 | 30 | 27.6 | 0.02 | Yu *et al.* 118; Nakano *et al.*119 |
| Mercenaria mercenaria | Northern quahog (Hard clam) | 9.2 | 24.4 | 13 | 0.33 |  |
| Meretrix lusoria | Japanese hard clam | 5.5 | 15.9 | 5 | 0.47 |  |
| Mya arenaria | Sand gaper | 4.7 | 23.6 | 10 | 0.29 |  |
| Mytilus chilensis | Chilean mussel | 12 | 16 | 10.2 | 0.5 | Duarte *et al.*120; Gray *et al*.121 |
| Mytilus coruscus | Korean mussel | 2.9 | 20 | 10 | 0.21 | Wang *et al.* 122 |
| Mytilus edulis | Blue mussel | -1.4 | 23.4 | 11 | 0.31 |  |
| Mytilus galloprovincialis | Mediterranean mussel | 7.6 | 9 | 15 | 0.58 |  |
| Mytilus planulatus | Australian mussel | 12.3 | 21.3 | 6 | 0.46 | Allen123 |
| Mytilus platensis | River Plata mussel | 13.7 | 20.9 | 9 | 0.73 |  |
| Ostrea chilensis | Chilean flat oyster | 14 | 14 | 10 | 1.01 |  |
| Ostrea conchaphila | Olympia oyster | 6 | 20 | 12.5 | 0.47 |  |
| Ostrea edulis | European flat oyster | 8.4 | 11.9 | 12 | 1.01 |  |
| Panopea generosa (abrupta) | Pacific geoduck | 8.5 | 10.2 | 12.5 | 0.47 | Hidalgo-De-La-Toba *et al*. 124 |
| Paphia gallus | Rooster venus | 21.8 | 28.3 | 7.5 | 0.87 |  |
| Patinopecten yessoensis | Yesso scallop | 5 | 23 | 25 | 0.93 | Gosling125 |
| Pecten fumatus | Southern Australia scallop | 12 | 21 | 8.6 | 1.6 | Heasman *et al.* 126; Gwyther and McShane127 |
| Pecten maximus | Great Atlantic scallop | 7.9 | 15.9 | 17 | 0.56 |  |
| Perna canaliculus | New Zealand mussel | 18.2 | 18.2 | 15 | 0.6 |  |
| Perna perna | South American rock mussel | 10 | 30 | 17 | 0.38 | http://www.biosecurity.govt.nz/pests/perna-perna |
| Perna viridis | Green mussel | 23.6 | 23.6 | 16.5 | 1.24 |  |
| Protothaca staminea | Pacific littleneck clam | 9.2 | 10.2 | 7.5 | 0.17 |  |
| Ruditapes decussatus | Grooved carpet shell | 11.8 | 11.8 | 6 | 0.87 |  |
| Ruditapes philippinarum | Japanese carpet shell | 10.2 | 24.7 | 8 | 0.56 |  |
| Saccostrea commercialis | Sydney cupped oyster | 10.8 | 19.7 | 22.4 | 0.93 | http://www.fao.org/fishery/culturedspecies/search |
| Saccostrea cuccullata | Hooded oyster | 18.7 | 25.6 | 20 | 1.58 |  |
| Saxidomus giganteus | Butter clam | 9 | 11.8 | 13 | 0.47 |  |
| Scapharca broughtonii | Inflated ark | 22 | 25 | 17.8 | 0.26 |  |
| Scrobicularia plana | Peppery furrow | 9.6 | 12.3 | 17.8 | 0.55 |  |
| Sinonovacula constricta | Constricted tagelus | 15 | 20 | 25.6 | 0.87 | http://www.fao.org/fishery/culturedspecies/search |
| Soletellina diphos | Diphos sanguin | 21.8 | 28.3 | 12 | 0.87 |  |
| Tresus nuttallii | Pacific horse clam | 2 | 20 | 22.5 | 0.47 | Lauzier *et al.*128 |
| Tridacna crocea | Crocus giant clam | 26.8 | 28.4 | 15 | 0.17 |  |
| Tridacna derasa | Smooth giant clam | 28.5 | 28.5 | 60 | 0.11 |  |
| Tridacna squamosa | Fluted giant clam | 24.5 | 28.9 | 45 | 0.22 |  |
| Venerupis aurea | Golden carpet shell | 7.2 | 10 | 4.5 | 0.55 |  |
| Venerupis pullastra | Pullet carpet shell | 10.3 | 12.3 | 5 | 0.47 |  |
| Venerupis rhomboides | Banded carpet shell | 7.2 | 10 | 4.5 | 0.55 |  |
| Venus verrucosa | Warty venus | 9.6 | 15.9 | 17.8 | 0.25 |  |
|  |  |  |  |  |  |  |