**Supplementary Tables**

**Table S1.** Matching the IPBES’ NCPs against the Millennium Ecosystem Assessment’s ecosystem services based on their respective definitions to assist in facilitating future assessments of Seagrass ecosystem Contributions to People (SCPs) from either a Generalized or Context-specific perspective in the PICTs. Modified from and Díaz et al. (2018) and Newman et al, (2019).

|  | **IPBES****2018** | **Millennium Ecosystem Assessment****2005** |
| --- | --- | --- |
| **NCP** | **Definition** | **Ecosystem service** | **Definition** |
| 1 | Habitat creation and maintenance | Formation and continued production of ecological conditions necessary or favorable for animals and plants useful to people | Formation of species-habitat, physical barriers, seascape | * Habitat for many species: living area, nursery, spawning ground, predators protection area, hunting area, source of food
* Habitat for protected species
 |
| 2 | Pollinations and dispersal of seeds and propagules | Animal facilitation of pollen movement and seed dispersal of beneficial organisms |  |  |
| 3 | Regulation of air quality | Filtration, fixation, degradation or storage of pollutants |  |  |
| 4 | Regulation of climate | Regulation of greenhouse gases, organic compounds and climate feedback processes | * Climate Regulation
* Carbon sequestration
 | Source of and sink for greenhouse gases |
| 5 | Regulation of ocean acidification | Regulation, by photosynthetic organisms, of atmospheric CO2 and so seawater pH | * Primary production
* Climate Regulation
 | Source of and sink for greenhouse gases |
| 6 | Regulation of freshwater quantity, location and timing | Regulation, by ecosystems, of the quantity, location and timing of the flow of surface and groundwater |  |  |
| 7 | Regulation of freshwater and coastal water quality | Filtration of particles, pathogens, excess nutrients, other chemicals | * Clean water and sediments
* Nutrient cycling
* Water cycling
* Waste breakdown and detoxification
 | * Phosphorous and nitrogen cycles
* Retention, recovery, and removal of excess nutrients and other pollutants
* Water oxygenation
 |
| 8 | Formation, protection and decontamination of soils and sediments | Formation and long‐term maintenance of soil structure and processes | * Erosion prevention
* Sediment formation and conservation
 | * Sediment retention
* Accumulation of sediments and organic matter
 |
| 9 | Regulation of hazards and extreme events | Amelioration of the impacts of hazards; reduction of size or frequency of hazards | Natural hazard regulation | * Storm protection, flood moderation, coastal protection
* Decrease of wave power and current flows
 |
| 10 | Regulation of detrimental organisms/biological processes | Regulation, by organisms, of pests, pathogens, predators or competitors directly/indirectly affecting humans | Biological control | Invasive/ pest species and disease control |
| 11 | Energy | Production of biomass‐based fuels |  |  |
| 12 | Food and feed | Production of food/feed from/for wild, managed, or domesticated organisms | * Food
 | * Production of fish, wild game/hunting, fruits and grains
 |
| 13 | Materials, companionship and labor | Materials derived/animals sourced from cultivated or wild ecosystems, for construction, clothing, ornamental purposes | * Raw materials
* Ornamental resources
 | * Fibre, fodder, fertiliser *etc*
* Aquarium fish and plants
 |
| 14 | Medicinal, biochemical and genetic resources | Naturally derived medicinal materials; genes and genetic information | * Medicinal resources
* Genetic Resources
 | * Extraction of medicines and other materials from biota
* Biochemical production models, resistant gene to pathogens
 |
| 15 | Learning and inspiration | Capabilities developed through education, knowledge acquisition, and inspiration by nature for art and technological design | * Education, research
* Spiritual and artistic inspiration
 | * Formal and informal education and training
* Spiritual and religious values
 |
| 16 | Physical and psychological experiences | Nature as basis for physically and psychologically beneficial activities e.g. healing, relaxation, recreation | * Recreation, Tourism and Wilderness
* Aesthetic
 | * Opportunities for tourism and recreational activities
* Appreciation of natural scenery outside recreation
 |
| 17 | Supporting identities | Nature being basis for religious/spiritual experiences | Cultural Heritage and Identity | Sense of place and belonging |
| 18 | Maintenance of options | Capacity of ecosystems, habitats, species/genotypes to keep options open to support good quality of life in the future | * Diversity
* Genetic resources
 | * Sufficient genetic resources among species
* Gene pool protection
 |

**Table S2**. Literature sources of seagrass ecosystem NCPs in each PICT. List of literature sources is not comprehensive and includes only the most relevant references available for each country or territory.

| **PICT** | **ISO3** | **Source** |
| --- | --- | --- |
| **MELANESIA** |
| Fiji | FJI | V. Vuki and L.J. McKenzie, Pers. Comm.; Butler, 1983; Choy, 1982; Cullen-Unsworth and Unsworth, 2013; Cullen-Unsworth et al., 2014; N’Yeurt and Iese, 2015; O’Garra, 2012; Richards et al., 1994 |
| New Caledonia | NCL | S. Andréfouet and C.E. Payri, Pers. Comm.; Nordlund et al., 2018 |
| Papua New Guinea | PNG | J. Aini and L.J. McKenzie, Pers. Comm.; Kinaston et al., 2015; N. Simard (Uni. Sunshine Coast), Pers. Comm.; Opu, 2015;  |
| Solomon Islands | SLB | A. Hughes, Pers. Comm.; Iyengar, 2018; Lauer and Aswani, 2010; WorldFish, 2017, 2018;  |
| Vanuatu | VUT | C. Shaw, Pers. Comm.; Hickey, 2007; Komugabe-Dixson et al., 2019 |
| **MICRONESIA** |
| Federated States of Micronesia | FSM | R.T. Tsuda and L.J. McKenzie, Pers. Comm.; Bridges and McMillan, 1986; Buden and Edward, 2001; Coles et al., 2005; Falanruw, 1992; Kock and Tsuda, 1978; McDermid and Edward, 1999; Merlin, 2002; Herrera et al., 2010 |
| Guam | GUM | R.T. Tsuda, Pers. Comm.; Taylor et al., 2012 |
| Kiribati | KIR | M. Rota, Pers. Comm.; Brodie et al., 2020; Catala, 1957; Fay et al., 2007; Grimble, 1933; Jimmy et al., 2012; Johannes and Yeeting, 2000; Thaman, 1987 |
| Marshall Islands | MHL | R.T. Tsuda, Pers. Comm.; Reimaan National Planning Team, 2008; Vander Velde, 2003; http://biormi.org/index.shtml?en/introduction\_to\_flora.html |
| Nauru | NRU |  |
| Northern Mariana Islands | MNP | R.T. Tsuda, Pers. Comm.; BECQ-DCRM, Allen and Amesbury, 2012; 2016; Eastern Research Group, 2019; Trianni, 2016; van Beukering et al., 2006; Yuknavage et al., 2018 |
| Palau | PLW | P.L. Colin, Pers. Comm.; Colin, 2009; Colin and Etpison, 2013; Hirsh et al., 2018; Johannes, 1981; Kitalong and Oiterong, 1991; Krämer, 1917; Matthews and Oiterong, 1995; Myers, 1999 |
| **POLYNESIA** |
| American Samoa | ASM | American Samoa DMWR, 2004; Pratt, 1878; Skelton, 2003 |
| Cook Islands | COK |  |
| French Polynesia | PYF | S. Andréfouet and C.E. Payri, Pers. Comm. |
| Niue  | NIU |  |
| Pitcairn Islands | PCN |  |
| Samoa | WSM | Pratt, 1878; Skelton, 2003 |
| Tokelau | TKL | Balazs, 1983 |
| Tonga | TON | Fakatava et al., 2000; Friedman et al., 2009; Prescott et al., 2004 |
| Tuvalu | TUV |  |
| Wallis and Futuna | WLF | S. Andréfouet and C.E. Payri, Pers. Comm.; Bosserelle, 2016; Job et al., 2015 |

**Table S3.** Fisheries species known to use seagrass in PICTs. Main life history stages found in seagrass (j = juvenile, A = adult) are given for fish. Estimated fisheries importance: S, s = major and minor subsistence fisheries; C, c = major and minor commercial fisheries; E, e = major and minor export fisheries; T, t = major and minor tourist fisheries. Seagrass fisheries species list compiled predominately from Dalzell et al (1996), Unsworth et al (2009), Amos (2007), Green et al (2006), Rhodes et al. (2008), Kulbicki et al (2000) and Sambrook et al. (2020; 2019). Importance categories modified from Thaman (1991) and www.fishbase.org

|  | **Species** | **Common Name** | **main life-history stages in seagrass** | **Importance** |
| --- | --- | --- | --- | --- |
| Fish | *Acanthopagrus berda* | pikey bream | j, A | S,C |
| *Acanthurus grammoptilus* | Finelined surgeonfish | j, A | c |
| *Acanthurus lineatus*  | Blue banded surgeonfish | j, A | c,e |
| *Acanthurus triostegus* | Convict surgeonfish  | j, A | C |
| *Acreichthys tomentosus* | Bristle-tail file-fish  | j, A | c |
| *Amblygaster sirm* | spotted sardinella | j, A | S,C |
| *Balistapus undulatus* | Orange-lined triggerfish | A | c,e |
| *Bothus pantherinus* | Leopard flounder | j, A | c |
| *Caranx ignobilis* | giant trevally | j, A | S,C,t |
| *Caranx melampygus* | Bluefin trevally | j | C,t,e |
| *Caranx papuensis* | Brassy trevally | j | c,T |
| *Caranx sexfasciatus* | Bigeye trevally  | j | c,T |
| *Caranx spp.* | trevally | j | c,T |
| *Carcharhinus melanopterus* | Blacktip reef shark  | j, A | c,T |
| *Chaetodon vagabundus* | Vagabond butterflyfish | A | c, t |
| *Chanos chanos* | milkfish | j, A | s, C |
| *Cheilinus trilobatus* | Tripletail wrasse  | j, A | c, t |
| *Cheilinus undulatus*  | Napoleon maori wrasse | j | C,t,e |
| *Cheilio inermis* | Cigar wrasse | j, A | c,e |
| *Chirocentrus dorab* | wolf herring | j, A | s,c |
| *Chlorurus sordidus* | Daisy parrotfish | j | C,t |
| *Choerodon anchorago* | Orange-dotted tuskfish  | j, A | C,e |
| *Corythoichthys haematopterus* | Dragonfaced pipefish | A | e |
| *Cymbacephalus nematophthalmus* | Fringe-eyed flathead | j, A | C |
| *Diodon liturosus* | Black-blotched porcupine fish | j, A | c |
| *Dischistodus perspicillatus* | White damsel | j, A | c |
| *Drepane punctata* | spotted sicklefish | j, A | S,c |
| *Ellochelon vaigiensis* | Squaretail mullet  | j, A | C |
| *Elops hawiensis* | giant herring | j, A | s,t |
| *Engyprosopon grandisquama* | Large-scale flounder | j | c |
| *Epinepehlus malabaricus* | malabar grouper | j | s,c,t |
| *Epinephelus coioides* | orange-spotted grouper | j | s,c.t |
| *Epinephelus lanceolatus*  | giant grouper | j | s,T |
| *Gazza minuta* | toothed ponyfish | j | s,c |
| *Gerres* spp*.* | silver biddy | j, A | S,C |
| *Gnathanodon speciosus* | golden trevally | j, A | s,c |
| *Gobiidae* spp | goby | A | s |
| *Halichoeres* spp*.* | wrasse  | j, A | s,c |
| *Hyporhamphus quoyi*  | Quoy's garfish  | j, A | S,C,t |
| *Labridae* spp | Wrasses  |  | s,c |
| *Lactarius lactarius* | false trevally | j, A | s,C |
| *Leiognathus decorus* | Ornate ponyfish | j | S,c |
| *Leiognathus equulus* | common ponyfish | j | S,C |
| *Leiognathus splendens* | Black-tipped ponyfish | j | S,c |
| *Leptoscarus vaigiensis* | Marbled parrotfish | A | C |
| *Lethrinus atkinsoni* | Pacific-yellowtail emperor | j, A | c,t |
| *Lethrinus erythropterus* | Longfin emperor | j, A | c |
| *Lethrinus harak* | thumbprint emperor | j, A | SCt |
| *Lethrinus obseletus* | Emperor | j, A | s,c |
| *Lethrinus variegatus* | Slender emperor | A | s,c |
| *Liza vaigiensis* | diamond-scale mullet | j, A | S,C |
| *Lutjanus argentimaculatus* | Mangrove red snapper | j | S,C |
| *Lutjanus argentimacultus* | mangrove jack | j | S,C |
| *Lutjanus bohar* | Red snapper | j | S,C |
| *Lutjanus carponotatus* | Spanish flag snapper | j | c,T |
| *Lutjanus ehrenbergii* | Blackspot snapper | j | c |
| *Lutjanus fulviflamma* | dory snapper | j | S,c |
| *Lutjanus gibbus* | Humpback snapper | j | S,c |
| *Lutjanus russellii* | Russell's snapper  | j | S,c |
| *Lutjanus semicinctus* | Black-banded snapper  | j | c |
| *Lutjauns goldiei* | Papuan black bass | j, A | sT |
| *Mugil cephalus* | sea mullet | j, A | sc |
| *Mugilidae spp.* | mullet | j, A | sc |
| *Mulloidichthys flavolineatus*  | yellowstripe goatfish | A | C,t |
| *Muraenidae spp.* | moray | j, A | c |
| *Myrichthys colubrinus* | Harlequin snake eel | A | s |
| *Naso* sp*.* | Orange spine unicornfish | j, A | c,e |
| *Nematalosa come* | West. Pacific gizzard shad | j, A | S,C |
| *Nibea soldado* | Soldier croaker  | j | C |
| *Parapercis millipunctata* | Black dotted sand perch  | A | s |
| *Pardachirus pavoninus* | Peacock sole  | A | C |
| *Parupeneus barberinus* | Dash-dot goatfish | j | s,c,t,e |
| *Parupeneus indicus* | Indian goatfish  | j, A | c,t |
| *Pelates quadrilineatus*  | Fourlined terapon | j, A | s,c |
| *Pentapodus trivittatus* | Three-striped whiptail | j, A | S |
| *Plectorhinchus albovittatus* | Two-striped sweetlips  | j | C |
| *Plectorhinchus chaetodonoides* | Many-spotted sweetlip | j | c,e |
| *Plectorhinchus lineatus* | Diagonal-banded sweetlip | j | c,E |
| *Plectorhinchus vittatus* | Oriental sweetlips | j | s |
| *Plectorhynchus gibbosus*  | black sweetlips | j | C,T |
| *Plectorhynchus orientalis*  | oriental sweetlips | j | s,a |
| *Polydactylus microstomus*  | small-mouthed threadfin | j, A | S,c |
| *Pomacentrus lepidogenys* | Scaly damsel  | A | S,C |
| *Pomadasys kakaan* | javelin grunter | j, A | S,C |
| *Pseudomonacanthus spp.* | leatherjacket | A | S,C |
| *Rhinecanthus verrucosus* | Blackbelly triggerfish | j | c,t |
| *Sardinella fijiense*  | Fiji sardinella | j, A | s,c,E |
| *Saurida gracilis* | gracile lizardfish | j | s |
| *Scarus spp.* | parrotfish | j, A | C |
| *Scatophagus argus* | spotted scat | j, A | s,c |
| *Scolopsis ciliata* | Saw-jawed monocle bream | A | S |
| *Scolopsis lineata* | Striped monocle bream  | j, A | C, t |
| *Scomberoides commersonnianus* | Talang queenfish | j, A | s,C |
| *Scomberoides lysan* | Double spotted queenfish | j | s,C |
| *Scomberoides tala* | barred queenfish  | j | s,C |
| *Scomberoides tol* | Needle scaled queenfish | j | s,C |
| *Secutor ruconius* | Deep-punose ponyfish | j | s,C |
| *Siganus canaliculatus* | seagrass rabbitfish | j, A | S,c |
| *Siganus doliatus* | Barred spinefoot | j, A | s,C |
| *Siganus fuscescens* | Dusky rabbitfish | j, A | S,c |
| *Siganus lineatus* | golden-lined spinefoot | j | s,c |
| *Siganus spinus* | little spinefoot  | j | s,c |
| *Siganus* spp*.* | Rabbit fish | A | s,c |
| *Siganus vermiculatus* | Vermiculated spinefoot | j | s,c |
| *Sillago* spp | Whiting | j | S,C |
| *Sphyraena* spp*.* | Barracuda | j | S,C,t |
| *Stethojulis strigiventer* | Three-ribbon wrasse  | j, A | t |
| *Stolephorus* spp*.* | anchovies | j | s,E |
| *Strongylura leiura* | long-tom | j, A | S,c |
| *Syngnathus* spp | Pipefish | A | e |
| *Taeniura lymma* | Ribbon tail stingray | A | C,t,e |
| *Terapon jarbua* | Cresent grunter, | j | S,c |
| *Thalassoma hardwicke* | Sixbar wrasse | j, A | c |
| *Thryssa aestuaria* | estuarine thryssa | j, A | s,c |
| *Thryssa baelama* | baelama anchovy | j | s,c |
| *Thryssa hamiltonii* | Hamilton's thryssa | j, A | s,c |
| *Thryssa setirostris* | Long jaw thryssa | j | s,c |
| *Upeneus tragula* | Freckled goatfish | j, A | C |
| *Upeneus vittatus*  | Yellow striped goatfish | j | s,c |
| *Valamugil seheli* | Blues pot mullet | j, A | S,C,t |
| *Variola louti*  | Lunar tail grouper | j | S,C |
| *Zenarchopterus dispar* | feathered river-garfish  | j,A | S,C |
| Crustaceans | *Penaeus semisulcatus* | green tiger prawn |  | s,C,E |
| *Squilla* spp. | Mantis shrimps |  | s,C,t,e |
| *Penaeus monodon* | giant tiger prawn |  | s,C,t,e |
| *Scylla serrata* | mud crab |  | s,C,t,e |
| *Portunus pelagicus* | swimmer crab |  | s,c |
| Bivalves & Gastropods | *Anadara cornea* | arc shell |  | S,C,t |
| *Cerithium nodulosum* | horn shell |  | s,c |
| *Polinices flemingiana* | Moon snail |  | S,c |
| *Sipunculus* sp. | peanut worm |  | s |

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