Title: “Draw the sea…”: Children’s representations of ocean connectivity in Fiji and New Caledonia

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Figure S1: Quantitative assessment of the presence of a land-sea continuum in children’s drawings.
Figure S2: Examples of drawings including small-motorized boats.

S2A: “Different kinds of fish” (drawing made by a 12-year-old girl in Fiji’s rural-MPA site in November 2019)
S2B: “The living animals in the sea” (drawing made by a 12-year-old girl in Fiji’s rural-MPA site in November 2019)
S2C: “The ocean” (drawing made by an 11-year-old boy in Fiji’s rural-MPA site in November 2019)
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Figure S4: Examples of drawings highlighting waste management issues.

S4A: “Stop polluting the sea” (drawing made by a 10-year-old girl in Fiji’s rural-MPA site in November 2019)

S4B: “Sea pollution” (drawing made by a 14-year-old girl in Fiji’s rural-MPA site in November 2019)

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Figure S5: Quantitative assessment of the types of place represented in children’s drawings.
Figure S6: Quantitative assessment of the presence of fishing activities in children’s drawings.
Figure S7: Influence of gender on the representation of fishing activities.

Percentage of girls and boys representing fishing / Total number of girls and boys
Figure S8: Quantitative assessment of the gender of the fishers (other than themselves) drawn by girls (S8A) versus boys (S8B).

**S8A**

Gender of fishers (other than themselves) depicted by girls

- Both female and male fishers: 13
- Female fishers: 14
- Male fishers: 16
- Unknown: 12

**S8B**

Gender of fishers (other than themselves) depicted by boys

- Both female and male fishers: 2
- Female fishers: 1
- Male fishers: 15
- Unknown: 52
Figure S9: Five drawings reflecting a clear gender differentiation in fishing locations and techniques.

S9A: “Going fishing” (drawing made by an 11-year-old boy in Fiji’s rural site in September 2019)
In this drawing, boys are line-fishing from a watercraft in deeper water, while girls are line-fishing from the shore.

S9B: “Keeping marine sea” (drawing made by a 13-year-old girl in Fiji’s rural site in October 2019)
In this drawing, the child’s mother is line-fishing from a watercraft, while her father is fishing with a speargun.

S9C: “The things we get from the sea” (drawing made by a 10-year-old girl in Fiji’s rural-MPA site in November 2019)
In this drawing, the child’s mother is line-fishing from the shore, while her father is line-fishing from a watercraft.

S9D: Picnic (drawing made by a 9-year-old girl in Fiji’s rural-MPA site in November 2019)
In this drawing, the child’s mother is line-fishing from the shore, and her sister is line-fishing from a watercraft, while her father and brother are fishing with a hand-spear.

S9E: “Things to do to get money” (drawing made by a 12-year-old girl in Fiji’s rural-MPA site in November 2019)
In this drawing, the child and her girlfriends are line-fishing from a watercraft, while her boyfriends are fishing with a speargun.
Figure S10: “Destroying sea life”
(drawing made by an 11-year-old boy in Fiji’s urban site in September 2019).
Figure S11: Quantitative assessment of the presence of an underwater view (S11A), marine animals other than corals (S11B), and corals, seagrasses or seaweeds (11C), in children’s drawings.
Table S1: Number of participants in each site (NC = New Caledonia).

|                | Fiji, Urban (Suva/Lami) | Fiji, Rural (Cicia) | Fiji, Rural with MPA (Kadavu) | NC, Urban (Nouméa) | NC, Rural (Yaté) | NC, Rural with MPA (Hienghène) |
|----------------|-------------------------|---------------------|-------------------------------|--------------------|-----------------|-------------------------------|
| Number of participants | 59                      | 44                  | 50                           | 49                 | 50              | 38                            |

Table S2: List of 50 ethno-species mentioned by children in Fiji in interviews (by alphabetical order), based on the team’s interview notes.

| iTaukei name               | English name                    | Group                                                                 | Taxon                                              |
|---------------------------|---------------------------------|----------------------------------------------------------------------|---------------------------------------------------|
| Balagi                    | Fine-lined surgeonfish          | Fish                                                                 | Acanthurus grammoptilus                           |
| Bati                      | Red bass                        | Fish                                                                 | Lutjanus bohar                                    |
| Bumarawa                  | Parrotfish                      | Fish                                                                 | Family Scaridae                                   |
| Cucu                      | Goatfish                        | Fish                                                                 | Parupeneus spp.                                   |
| Damu                      | Mangrove red snapper            | Fish                                                                 | Lutjanus argentimaculatus                         |
| Donu                      | Coral trout                     | Fish                                                                 | Plectropomus spp.                                 |
| Drabua                    | Sabre squirrelfish              | Fish                                                                 | Sargocentron spiniferum                            |
| Draunikura                | Wrasse                          | Fish                                                                 | Cheilinus spp.                                     |
| Droudroua                 | Leopard coral grouper           | Fish                                                                 | Plectropomus leopardo                             |
| Dulu (same as Ogo)        | Great barracuda                 | Fish                                                                 | Sphyraena barracuda                                |
| Duna                      | Freshwater eel                  | Fish                                                                 | Anguilla marmorata                                 |
| Ikaloa (same as Kawakawa loa) | Peacock hind, bluespotted grouper, celestial grouper, roi | Fish                                                                 | Cephalopholis argus                                |
| Jila                      | Lined surgeonfish               | Fish                                                                 | Acanthurus lineatus                                |
| Kabarara (same as Qitawa) | Crescent grunter                | Fish                                                                 | Terapon jarbua                                     |
| Kabatia                   | Red-eared emperor               | Fish                                                                 | Lethrinus rubrioperculatus                         |
| Kai                       | Freshwater mussel               | Mollusc                                                              | Batissa violacea                                   |
| Kake                      | Snapper                         | Fish                                                                 | Lutjanus spp.                                      |
| Kanace                    | Mullet                          | Fish                                                                 | Family Mugilida                                    |
| Karakarawa                | Highfin parrotfish              | Fish                                                                 | Scarus longipinnis                                 |
| Katavatu                  | Rugose giant clam               | Mollusc                                                              | Tridacna maxima                                    |
| Kawakawa loa              | Peacock grouper                 | Fish                                                                 | Cephalopholis argus                                 |
| Kawakawa                  | Grouper                         | Fish                                                                 | Epinephelus spp.                                   |
| Kuita                     | Octopus                         | Mollusc                                                              | Octopus cyanea                                      |
| Lokoloko ni qio/Kalokalo | Starfish                        | Sea star                                                              | Linckia laevigata                                   |
| Misimisi                  | Wrasse                          | Fish                                                                 | Thalassoma spp.                                     |
| Nuqa                      | Rabbitfish                      | Fish                                                                 | Siganus spp.                                       |
| Ogo                       | Great barracuda                 | Fish                                                                 | Sphyraena barracuda                                 |
| Ose                       | Yellowfin goatfish              | Fish                                                                 | Mulloidichthys vanicolensis                         |
| Qio                       | Shark                           | Fish                                                                 | Several species                                     |
| Qitawa                    | Crescent grunter                | Fish                                                                 | Terapon jarbua                                      |
| Saqa                      | Giant trevally                  | Fish                                                                 | Caranx ignobilis                                   |
| Senigaragara              | Honeycomb grouper               | Fish                                                                 | Epinephelus merra                                   |
| Local name | English name                              | Group         | Taxon                                                                 |
|------------|------------------------------------------|---------------|----------------------------------------------------------------------|
| Sirisiriwai | Painted or silver sweetlip                | Fish          | *Diagramma pictum*                                                    |
| Sokisoki   | Porcupinefish                             | Fish          | *Diodon hystrix*                                                      |
| Ta qio     | Bulbnoose unicornfish                     | Fish          | *Naso tonganus*                                                       |
| Ta         | Bluespine unicornfish                     | Fish          | *Naso unicornis*                                                      |
| Tabace     | Whitespotted surgeonfish                  | Fish          | *Acanthurus guttatus*                                                 |
| Tarase     | Deep water redfish                        | Sea cucumber  | *Actinopyga echinites*                                                |
| Tarosese   | Titan triggerfish                         | Fish          | *Balistoides viridescens*                                             |
| Tivitivi   | Butterflyfish                             | Fish          | Family Chaetodontidae                                                 |
| Tugadra    | Bigeye scad                               | Fish          | *Selan crumenophthalmus*                                              |
| Tuna       | Tuna                                      | Fish          | Family Scombridae                                                     |
| Ulavi      | Parrotfish                                | Fish          | Family Scaridae                                                       |
| Ulurua     | Steephead parrotfish                      | Fish          | *Chlorurus microrhinos*                                               |
| Urau       | Lobster                                   | Crustacean    | Family Palinuridae and Scyllaridae                                   |
| Vai        | Ray                                       | Fish          | Family Dasyatidae and Mobulidae                                      |
| Vivili     | Collective term used for shells           | Mollusc       | Several species                                                       |
| Vo         | 1. Dusky sleeper                          | Fish          | *1. Eleotris fusca*                                                   |
|            | 2. Broadhead sleeper                      |               | *2. E. melanosoma*                                                    |
| Vonu       | Sea turtle                                | Reptile       | Family Cheloniidae                                                    |

Table S3: List of 20 ethno-species mentioned by children in New Caledonia in interviews (by alphabetical order), based on the team’s interview notes.