Supplementary material 1

**Population structure and reproductive cycle of the commercial sea cucumber** *Holothuria mexicana* **in Belize**

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Collection sites where *H. mexicana* were studied. Site numbers correspond to numbers in Fig 1.

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| Site number | Site name | Geographic coordinates | Depth (m) | Proximity to MPA |
| 1 | Lark Range  | 16˚30.339’N: 088˚16.337’W | 4.6 - 7.3 | Not near any MPA; 7.5 km from LBCNP |
| 2 | Sypio  | 16˚27.307’N: 088˚16.913’W | 6.1 - 7.6 | Not near any MPA; 7 km from LBCNP |
| 3 | East Placencia  | 16˚28.377’N: 088˚21.77’W  | 1.5 - 6.7 | Not near any MPA; 16 km from LBCNP |
| 4 | Little Water & Hatchet  | 16˚27.135’N: 088˚05.860’W  | 4.6 | Adjacent to Laughing Bird Caye National Park (LBCNP) and Gladden Spit & Silk Cayes Marine Reserve (GSSCMR); 5.5. km from GSSCMR |
| 5 | South Laughing Bird  | 16˚23.857’N: 088˚12.491’W | 15.2 | Adjacent to LBCNP; 2.5 km from LBCNP |
| 6 | West Laughing Bird  | 16˚27.463’N: 088˚13.244’W | 10.1 | Adjacent to west boundary of LBCNP; 1 km from LBCNP |
| 7 | Pelican Range | 16˚ 47.688’N: 088 ˚04.7635’W | 7.6 - 8.5 | Inside South Water Caye Marine Reserve (SWCMR) |
| 8 | Snake Cayes  | 16˚11.092’N: 088˚33.438’W | 7.6 - 12.2 | Inside Port Honduras Marine Reserve (PHMR) |
| 9 | Tarpon and Abalone  | 16˚11.690’N: 088˚37.828’W | 8.5 - 9.1  | Inside PHMR |
| 10 | Tobacco  | 16˚47.021’N: 088˚06.097’W | 11.3 | Inside SWCMR |
| 11 | Southeast PHMR  | 16˚06.347’N: 88˚33.702’W | 7.6 | Adjacent to southeast PHMR boundary; 4.9 km from PHMR |
| 12 | Southwest PHMR  | 16˚05.616’N: 088˚42.827’W | 10.7 | Adjacent to southwest boundary of PHMR; 4 km from PHMR |
| 13 | Gladden Cayes  | 16˚33.993’N: 088˚04.708’W | 9.1 - 13.7 | Adjacent to SWCMR and GSSCMR; 5.1 km from GSSCMR |
| 14 | Placencia Lagoon  | 16˚30.569’N: 088˚22.536’W | 1.5 - 6.1 | Not near any MPA; 18 km from LBCNP |