Supplementary Table 1: NCRMP frequency of data collection from 2013–2018 by theme and ocean basin.

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| **Year** | **Atlantic Biological****(Benthic and Fish)**  | **Atlantic Climate**  | **Pacific Biological (Benthic and Fish) and Climate**  | **Socioeconomic (Human connections)** |
| 2012  | N/A | N/A | American Samoa,Pacific Remote Islands | N/A |
| 2013 | U.S. Virgin Islands, Flower Garden Banks | Southeast Florida,Florida Keys | Main Hawaiian Islands, NW Hawaiian Islands | N/A |
| 2014 | Florida, Puerto Rico | U.S. Virgin Islands,Southeast Florida | Pacific Remote Islands, Guam, Northern Mariana Islands | American Samoa,Florida |
| 2015 | U.S. Virgin Islands, Flower Garden Banks | Puerto Rico, Flower Garden Banks, Dry Tortugas (Florida) | American Samoa, Pacific Remote Islands | Puerto Rico, Main Hawaiian Islands  |
| 2016 | Florida, Puerto Rico | St. Croix (U.S. Virgin Islands), Southeast Florida,Florida Keys | Main Hawaiian Islands, NW Hawaiian Islands | Guam |
| 2017 | U.S. Virgin Islands  | Puerto Rico, St. Thomas andSt. John (U.S. Virgin Islands) | Pacific Remote Islands, Guam, Northern Mariana Islands | Northern Mariana Islands,U.S. Virgin Islands |
| 2018 | Florida, Flower Garden Banks | Dry Tortugas (Florida) | American Samoa, Pacific Remote Islands | N/A |

Supplementary Table 2: Reference datasets for Atlantic benthic and fish indicators by jurisdiction. For more detailed information about how these references were chosen, refer to Donovan et al. 2020.

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| **Jurisdiction** | **Benthic reference dataset** | **Fish reference dataset** |
| Flower Garden Banks | Flower Garden Banks National Marine Sanctuary Long Term Monitoring Program (1992–2013) (Johnston et al. 2018); Earliest available NCRMP survey data (2013) | Pre-NCRMP belt-transect data from NOAA’s National Center for Coastal Ocean Science (2006–2007) |
| Puerto Rico | Earliest available NCRMP survey data (2014) | Earliest available RVC NCRMP survey data in La Parguera, Mona, Desecheo (2016 and 2018) and Buck Island, and Virgin Islands Coral Reef Monument (2017) |
| U.S. Virgin Islands | Virgin Islands Territorial Coral Reef Monitoring Program (Smith et al. 2015); National Park Service Inventory and Monitoring data (1999–2005) (National Park Service, 2009); Earliest available NCRMP survey data (2013) | Earliest available RVC NCRMP survey data in Buck Island and Virgin Islands Coral Reef Monument (2017) |
| Florida  | Historic literature (1974–1999);Southeast Coral Reef Evaluation and Monitoring Project (2003–2005) (Gilliam et al. 2017); Disturbance Response Monitoring (2005–2009) (Florida Fish and Wildlife Conservation Commission, 2018); Coral Reef Evaluation and Monitoring Project (1996–1999); Earliest available NCRMP survey data (2014) | RVC data from the Research Natural Area of the Dry Tortugas National Park (2011–2014) |