**Metadata**

1) **Title**: Long Term Reef Physical Characteristics

2) **Abstract**:

 Reef morphological dimensions (physical characteristics) were measured in 2003, 2004, 2007, 2009 and 2012. These surveys were conducted at each of the 192 reefs in 2003 and 2009, and at reefs marked by letters in 2004. In 2012, each of the 198 reefs at the 12 sites monitored was measured. In 2003, percent cover of nearest neighbor reefs were also estimated. Physical characteristic surveys are meant to characterize the size dimensions of each reef. We ultimately hope to use these data to inform how reef size and shape influence benthic composition and *Thalassoma* populations. For more information on protocols, see Physical Characteristics Protocol.

3) **Site**: VOW, VIW, VOM, VIM, VOE, VIE, MOE, MIE, TOW, TIW, TOE, TIE

4) **Experiment**: Size dimensions of marked patch reefs

5) **Personnel**

Lead Investigator: Craig Osenberg, Jeff Shima

Principal Contact: Jeff Shima, Craig Osenberg

Other Investigators:

6) **Protocol filename:** LTR\_PhysicalCharProtocol

7) **Keywords**:

8) **Variates**

9) **Species filname**

|  |  |  |
| --- | --- | --- |
| Variate | Description | SI Units |
| **Date** | date of data observation |  |
| **Observ** | name of observer | CWO, JSW, JS, Snout, Gil, CmCd, TA, Rose, Tom Frazer, Amanda Strong |
|  |  |  |
| **Site** | Name of site  |  |
| **Reef** | Number corresponding to reef ID | 1-198, LETTERS |
| **COMPON** | Component of the reef (individual bommies all joined to form a larger patch reef) | A, B  |
| **LENGTH** | Max Length | m |
| **WIDTH** | Perpendicular Width | m |
| **THEIGHT** | Typical height of reef | m |
| **MHEIGHT** | Maximum Height | m |
| **H20MHEIG** | Water depth to maximum height |  |
| **NNAVGEST** | Average of Nearest Neighbor Estimate (% cover around reef to 2 m) | 0-100 |
| **NNJSEST** | Jeff Shima’s estimate of Nearest Neighbor Cover | 0-100 or NA (= did not estimate) |
| **NNCWOEST** | Craig Osenberg’s estimate of Nearest Neighbor Cover | 0-100 or NA (= did not estimate) |
| **NNJSWEST** | Jada White’s estimates of Nearest Neighbor Cover | 0-100 or NA (= did not estimate) |
| **NNTAEST** | Tom Adam’s estimate of Nearest Neighbor Cover | 0-100 or NA (= did not estimate) |
| **NOTES** | Notes | 0-100 or NA (= did not estimate) |

10) **Ongoing or completed? i.e., will you be submitting more data in the future?**

Ongoing