**Metadata**

1) **Title**: Percent Visual Cover on Long Term Reefs.

2) **Abstract**:

 Coral, algae, and invertebrates were observed, and their percent cover on each of the patch reefs estimated. These data were collected from 2003-2005, 2007, 2009 and 2012 at each patch and at each site. Descriptions of each reef are located in the Reef Measurements data. Estimating benthic composition of each reef provides serial data over time and space. These data are meant to provide contextual information for vermetid and *Thalassoma* dynamics.

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| **Variate** | **Description** | **SI Units** |
| **DATE** | Date data collected | Day-Month-Year |
| **OBSERV** | Initials of observer (CWO) | CWO, JS |
| **Reef\_let** | Reefs that were monitored for a short time | A-? |
| **SITE** | Location of reefs | TIE, TOE, TIW, TOW, MIE, MOE, VIE, VOE, VIM, VOM, VIW, VOW |
| **REEF** | Reef # | 1-198 |
| **PSPSMOO** | Porites sp. (Smooth) | 0-100 |
| **PSPRIDG** | Porites sp. (Ridged) | 0-100 |
| **PSPCOLUM** | Porites sp. (Columnar) | 0-100 |
| **PRUS** | Porites rus | 0-100 |
| **MONTIP** | Montipora spp. | 0-100 |
| **POC** | Pocillopora spp. | 0-100 |
| **ACROP** | Acropora spp. | 0-100 |
| **OTHCORAL** | Total coverage of other live coral | 0-100 |
| **TURF** | All Turf | 0-100 |
| **Turf\_steg** | Turf in Stegastes territories | 0-100 |
| **Turf\_surg** | Turf grazed by Acanthurids | 0-100 |
| **TURBINAR** | TURBINARIA | 0-100 |
| **Bare**  | Bare substrate; including coralline algae; sparse filamentous algae; sometimes includes grazed algal turf | 0-100 |
| **OTHER** | Total coverage of other dominant substrate: algae, sponges, etc... | 0-100 |
| **PIRREG** | Porites irregularis/ Unidentified branching species of coral common on reefs | 0-100 |
| **LEPTASTR** | Leptastrea spp. | 0-100 |
| **PAVONA** | Pavona cactus | 0-100 |
| **FUNGIA** | Fungia spp. | 0-100 |
| **MUSSIDAE** | Mussid | 0-100 |
| **OTHER CORAL** | other corals | 0-100 |
| **CAULERPA** | Caulerpa spp. | 0-100 |
| **DICTYOTA** | Dictyota spp. | 0-100 |
| **HALIMEDA** | Halimeda spp. | 0-100 |
| **PADINA** | Padina spp. | 0-100 |
| **CYANO** | Various growth forms of cyanobacteria | 0-100 |
| **GALAXAUR** | Galaxaura sp. | 0-100 |
| **AMANSIA** | Amansia rhodantha | 0-100 |
| **SPONGE** | Fleshy grey sponge  | 0-100 |
| **CCA** | CCA (crustose coraline algae) | 0-100 |
| **TOTAL POINTS** | sum of points | 0-100 |
| **2m** |  |  |
| **NOTES** |  |  |
| **NOTES 2 (no.acanthaster) (2009 only)** | Number of Acanthaster |  |

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

4) **Experiment**: Percent Visual Cover

5) **Personnel**

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Principal Contact: Jeff Shima, Craig Osenberg

Other Investigators:

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

7) **Keywords**:

8) **Variates (see table above)**

9) **Species filename**

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

Ongoing