**Metadata**

1) **Title**: *Thalassoma* surveys

2) **Abstract**:

 *Thalassoma* surveys were conducted from 2003-2007, 2009 and again in 2012. These surveys were conducted at each of the 192 reefs, and in 2012 on 198 reefs at the 12 sites that are sampled every year to every few years. These reefs are characterized in the reef morphology section. *Thalassoma* surveys are meant to characterize size structure of *Thalassoma* and other fish species thought to affect *Thalassoma* dynamics. We ultimately hope to use the data on size structure and numbers of *Thalassoma* to infer settlement rates, growth rates and survival. For more information on protocols, see *Thalassoma* protocol.

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

4) **Experiment**: Fish Surveys on marked patch reefs

5) **Personnel**

Lead Investigator: Craig Osenberg, Jeff Shima

Principal Contact: Jeff Shima, Craig Osenberg

Other Investigators:

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

7) **Keywords**: *Thalassoma*, labrid, scarid, settler, size, number

8) **Variates**

|  |  |  |
| --- | --- | --- |
| Variate | Description | SI Units |
| **Date** | date of data observation |  |
| **Observer** | name of observer |  |
| **Time** | time of begin observat6ion period for site | Time (Hr:Min) |
| **Reef** | Number corresponding to reef ID |  |
| **Species** | Species or category |  |
| **Size** | visual estimate of length | mm |
| **Number** | number of individuals of given species/length |  |
| **Settler?** | notation of whether "new" settler, if not completed, this was left blank |  |
|

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| **Predators** |

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| Also gives ID of "other predators", as per abbreviation codes listed below |

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| **Notes** | free text notes corresponding to observation, site, date, etc; Also gives ID of "other predators", as per abbreviation codes listed below |  |

9) **Species filename**

|  |  |  |
| --- | --- | --- |
| **Abbreviation** | **Common Name** | **Scientific name** |
| beb | big eye emperor | *Monotaxis grandoculis* |
| car | cardinal fish | *Apogon spp.* |
| fts | flame-tail snapper | *Lutjanus fulvus* |
| liz | lizardfish | *Saurida spp.* |
| lnf | lionfish | *Pterois spp.* or *Dendrochirus spp.* |
| mry | Moray | *Gymnothorax spp.* or *Echidna spp.* or *Scuticaria spp.* |
| mw | maori wrasse | *Cheilinus spp.* |
| sol | soldierfish | *Myripristis spp.* |
| sp | sand perch | *Parapercis spp.* |
| sq | squirellfish | *Neoniphon spp.* or *Sargocentron spp.* |
| stnf | Stonefish | *Synanceia spp.* |
| tpf | trumpetfish | *Aulostomus chinensis* |
| ydb | yellow dot bream | *Gnathodentex aurolineatus* |
| snp | snapper | Lutjanidae |
| carrec | cardinal fish recruit | *Apogon spp.* |
| mwj | maori wrasse juvenile | *Cheilinus spp.* |
| bebj | big eye bream juvenile | *Monotaxis grandoculis* |
| solj | soldierfish juvenile | *Myripristis spp.* |
| ydbj | yellow dot bream juvenile | *Gnathodentex aurolineatus* |
| carj | juvenile cardinal fish | *Apogon spp.* |
| oct  | octopus |  |
| spotted mry | spotted moray | *Gymnothorax moringa or sp?* |
| scorpaenid | scorpaenid |  |
| pfr | pufferfish/puffer/puffer fish | *Arothron sp* |
| cornet fish | cornet fish | *Fistularia commersonii* |
| flounder | flounder | *Canthigaster solandri or Arothon meleagris* |
| box fish | box fish | *Ostracion sp or Lactoria sp. (Ostraciidae)* |
| bream | bream | nemipteridae |
| blck sq | black squirrelfish  | *Sargocentron spp* |
| seabream | seabream | *Acanthopargus sp? Or just Sparidae* |
| razor fish | razor fish | *Insiitstius sp* |
| checker | checker wrasse | *Rhinecanthus aculeatus* |
| ot | octopus maybe? Orange trigger? |  |
| blcktrig | black trigger | *Melichthys sp*  |
| argus | peacock wrasse | *Halichoeres argus* |
| snowflake mry | snowflake moray | *Echidna nebulosa* |
| longface emperor | Longface emperor | *Lethrinus olivaceus* |
| clown coris | Clown coris | *Coris aygula* |
| orange trigger | Orange-lined triggerfish | *Balistapus undulatus* |
| scythe trigger | Scythe triggerfish | *Sufflamen bursa* |
| checker wrasse | Checkerboard wrasse | *Halichoeres hortulanus* |
| picasso | Picasso triggerfish | *Rhinecanthus aculeatus* |
| porcupine | Porcupine fish | *Diodon sp* |
| yellow anal fin snp or yellow tail snp | snapper | *Lutjanus sp* |
| tripletail | triple tail wrasse | *Cheilinus trilobatus* |
| bw puffer | Black and white pufferfish | *Arothron sp* |
| uncertain | uncertain if a settler? 2003 reefs 99, 110 |  |

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

Ongoing