

FLORIDA KEYS NATIONAL MARINE SANCTUARY

Biological Survey for Totten Beacon F: Pickles Reef
Lauri MacLaughlin, FKNMS

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Discussion: The site was located in a shallow reef crest-back reef zone typically found along the Florida Reef Tract. The predominant substrate was hardbottom consisting of coral rocks and rubble, *Acropora cervicornis* rubble/cobble, and pockets of sediments consisting of mixed *Halimeda*-shell-calcareous algae hash and carbonate sand. Depths at the base of the upright beacon pilings measured 6 - 9 feet, with encrusting organisms colonizing the beacon structures just below the surface in less than 1 foot.

Hard Coral	Genus species
Encrusting Fire Coral	<i>Millepora alcicornis</i>
Fire Coral	<i>Millepora complanata</i>
Mustard Hill Coral	<i>Porites astreoides</i>
Smooth Starlet Coral	<i>Siderastrea siderea</i>
Club Finger Coral	<i>Porites porites</i>
Fish	Genus species
Bluehead Wrasse	<i>Thalassoma bifasciatum</i>
Bicolor Damselfish	<i>Stegastes partitus</i>
Sergeant Major	<i>Abudefduf saxatilis</i>
Cocoa Damselfish	<i>Stegastes variabilis</i>
Yellowtail Damselfish	<i>Microspathodon chrysurus</i>
Slippery Dick	<i>Halichoeres bivittatus</i>
Clown Wrasse	<i>Halichoeres maculipinna</i>
Rainbow Wrasse	<i>Halichoeres pictus</i>
Puddingwife	<i>Halichoeres radiates</i>
Blue Tang	<i>Acanthurus coeruleus</i>
Doctorfish	<i>Acanthurus chirurgus</i>
Ocean Surgeonfish	<i>Acanthurus bahianus</i>
French Grunt	<i>Haemulon flavolineatum</i>
Bluestriped Grunt	<i>Haemulon sciurus</i>
Stoplight Parrotfish	<i>Sparisoma viride</i>
Redtail Parrotfish	<i>Sparisoma chrysopterum</i>
Princess Parrotfish	<i>Scarus taeniopterus</i>
Striped Parrotfish	<i>Scarus iserti</i>
Redlip Blenny	<i>Ophioblennius atlanticus</i>
Gorgonians / Octocorals	Genus species
Purple Sea Fan	<i>Gorgonia ventalina</i>
Sea Plume	<i>Pseudopterogorgia americana</i>
Porous Sea Rod	<i>Pseudoplexaura sp.</i>
Yellow Sea Whip	<i>Pterogorgia citrina</i>

Macro Algae	Genus Species
Red/Lavender Crustose Coralline Algae	<i>Peyssonnelia sp. Porolithon sp.</i>
Brown Turf Algae	<i>Cladophora crispata</i>
Oatmeal Algae	<i>Halimeda opuntia</i>
Y-Twig Red Calcareous Algae	<i>Amphiroa rigida</i>
Red Turf Algae	<i>Coelothrix irregularis</i>
Sponges	Genus Species
Black Ball Sponge	<i>Ircinia strobilina</i>
Red Rope Sponge	<i>Amphimedon compressa</i>
Orange Lumpy Encrusting	<i>Ulosa ruetzleri</i>
Orange Icing Encrusting	<i>Mycale laevis</i>
Chicken Liver Sponge	<i>Chondrilla caribensus</i>
Invertebrates	Genus Species
Long-spined Sea Urchin	<i>Diadema antillarum</i>
Christmas Tree Worm	<i>Spirobranchus giganteus</i>
Feather Duster Worm	<i>Sabellastarte magnifica</i>
Star Horseshoe Tube Worm	<i>Pomatostegus shellatus</i>
Christmas Tree Hydroid	<i>Halocordyle disticha</i>
Rock-boring Sea Urchin	<i>Echinometra viridis</i>
Slate-pencil Sea Urchin	<i>Eucidaris tribuloides</i>
Sessile Barnacles	Subclass <i>Cirripedia</i>

For more information: <http://floridakeys.noaa.gov/historic-navigation-aids/>