

**FKNMS artificial habitat permits  
as of July 7, 2015**

<b>Waypoint</b>	<b>Date issued or deployed</b>	<b>Project</b>	<b>Permit holder(s)/affiliation</b>	<b>Activity or items deployed</b>
Artificial reef (scuttled vessel) permits				
1	7/28/1998	Ocean Freeze (Scott Mason Chaite)	Flynn/Dade County DERM; Smith/Moby Marine	Vessel
27	12/5/1998	Adolphus Busch	Garrett/Monroe County; Schurger/Schurger Bros Diving & Salvage	Vessel
2	5/17/2002	Spiegel Grove	Garrett/Monroe County	Vessel
28	5/27/2009	Hoyt S. Vandenberg	Weekly/City of Key West	Vessel
Education permits				
5	1/21/1999	Educational Marine Science Project	Coleman	15 concrete blocks
3	6/3/1999	Wolfe Reef Memorial	Makepeace/Coral Shores HS	3 reef balls
7	5/23/2000	Davis Reef reef balls	Makepeace/Coral Shores HS	6 reef balls
7	5/31/2001	Davis Reef reef balls	Makepeace/Coral Shores HS	4 reef balls
6	5/23/2001	BSA reef balls, after the fact	Wampler/Boy Scouts of America	106 reef balls
Research permits				
4	5/1/2001	The Effects of Artificial Reef Habitats on Fish Production	St. Mary/UF	25 small quarried rock piles
	6/10/2004	Impact of Illegal Artificial Reefs on Spiny Lobster Populations	Herron/NMFS	One small concrete reef structure and a 100- lb weight
12,13,14, 18,19,20, 21,25	5/23/2005	Determining the Ecological Significance of the Spotted Spiny Lobster, <i>Panulirus guttatus</i> , on the Coral Reef Communities of the Florida Keys	Butler/ODU	Settlement blocks (20x40cm)
10,11,15, 16,17,22, 23,24	7/7/2005	The Influence of Conspecific Cues and Community Composition on the Recruitment of Juvenile Spiny Lobsters	Childress/Clemson Univ.	160 concrete blocks
12,13,14, 18,19,20, 21,25	6/8/2006	Characterization of hard-bottom and patch reef community dynamics focusing on lobsters, sponges, urchins and octopus	Butler/ODU	Settlement blocks (20x40cm; already in place)
12,13,14, 18,19,20, 21,25	6/8/2007	Characterization of hard-bottom and patch reef community dynamics focusing on lobsters, sponges, urchins and octopus	Butler/ODU	Settlement blocks (20x40cm; already in place)
9	7/19/2007	Settlement redirection of fish larvae	Osenberg/UF	10 small 1 m <sup>2</sup> rubble plots

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10,11,15, 16,17,22, 23,24	5/27/2008	Effects of a mass sponge mortality on recruitment and behavior of Caribbean spiny lobster, <i>Panulirus argus</i>	Childress/Clemson Univ.	160 concrete blocks (already in place)
26	5/1/2009	Recruitment, early survival and growth of stony corals (Scleractinia), after settlement on four artificial substrata, in the Florida Keys National Marine Sanctuary: a six-month study.	Peterson	4 platforms (4'x4'x20"H each) with settlement tiles
12,13,14, 18,19,20, 21,25	6/8/2009	Characterization of hard-bottom and patch reef community dynamics focusing on lobsters, sponges, crabs and urchins	Butler/ODU	Settlement blocks (20x40cm; already in place)
10,11,15, 16,17,22, 23,24	11/30/2009	Effects of a mass sponge mortality on recruitment and behavior of Caribbean spiny lobster, <i>Panulirus argus</i>	Childress/Clemson Univ.	160 concrete blocks (already in place)
12,13,14, 18,19,20, 21,25	8/12/2011	Characterization of hard-bottom and patch reef community dynamics focusing on lobsters, sponges, and crabs	Butler/ODU	Settlement blocks (20x40cm; already in place)
	8/15/2012	Investigating the feasibility of using artificial crevice shelter to enhance long-spined urchin ( <i>Diadema antillarum</i> ) populations as part of a comprehensive coral reef restoration effort in the Florida Keys	Sharp/FWC	60 terracotta pot halves
10,11,15, 16,17,22, 23,24	5/31/2013	Assessment of community structure of benthic invertebrates in regions with and without mass sponge loss	Childress/Clemson Univ.	80 concrete shelter blocks remaining
	3/21/2014	Investigating the population dynamics of long-spined sea urchins ( <i>Diadema antillarum</i> ), coral reef dwelling gastropods, and nursery propagated staghorn coral ( <i>Acropora cervicornis</i> ) to aid the development of a comprehensive coral reef ecosystem restoration strategy	Sharp/FWC	120 terracotta pot halves
12,13,14, 18,19,20, 21,25	4/1/2014	Characterization of hard-bottom and patch reef community dynamics focusing on lobsters, sponges, and crabs	Butler/ODU	96 concrete block shelters previously deployed, 12 per site (20x20x40cm each)

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	6/4/2014	Investigating the Effect of Magnetic Cues on Caribbean Spiny Lobster Den Selection and Use	Ernst/UNC Chapel Hill	50 experimental lobster dens