

Table 18. Mean $\pm$ 1 SE proportional transect frequency of stony corals (Milleporina and Scleractinia) in the Florida Keys National Marine Sanctuary and Biscayne National Park, as determined from four 15-m x 1-m belt transects per site at 235 sites during June-August 2007. A mean of value of 0.12, for example, indicates that a species was found on 12% of the sampled transects. Habitats are arranged from inshore to offshore and are designated as: MPR = mid-channel patch reef, OPR = offshore patch reef, HBM = hard-bottom matrix, LHBS = shallow (< 6 m) hard-bottom, IRT = inner line reef tract, HSG = high-relief spur and groove, LHBD = deeper (6-15 m) hard-bottom, PHB = patchy hard-bottom, and LSG = low-relief spur and groove.

Stony coral species	MPR (36)	OPR (42)	HBM (4)	LHBS (25)	IRT (8)	HSG (51)	LHBD (15)	PHB (21)	LSG (33)
<i>Acropora cervicornis</i>	0.12 $\pm$ 0.04	0.19 $\pm$ 0.04	0 $\pm$ 0	0.04 $\pm$ 0.02	0.19 $\pm$ 0.09	0.04 $\pm$ 0.02	0.02 $\pm$ 0.02	0.04 $\pm$ 0.03	0.02 $\pm$ 0.01
<i>A. palmata</i>	0 $\pm$ 0	0.01 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0.13 $\pm$ 0.07	0.16 $\pm$ 0.04	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0
<i>Agaricia agaricites</i>	0.75 $\pm$ 0.05	0.89 $\pm$ 0.03	0.75 $\pm$ 0.18	0.54 $\pm$ 0.09	0.69 $\pm$ 0.11	0.90 $\pm$ 0.03	0.63 $\pm$ 0.11	0.62 $\pm$ 0.07	0.80 $\pm$ 0.06
<i>A. fragilis</i>	0.04 $\pm$ 0.02	0.21 $\pm$ 0.05	0.19 $\pm$ 0.12	0.02 $\pm$ 0.01	0 $\pm$ 0	0.02 $\pm$ 0.01	0.15 $\pm$ 0.07	0.04 $\pm$ 0.02	0.17 $\pm$ 0.04
<i>A. humilis</i>	0.03 $\pm$ 0.03	0.07 $\pm$ 0.03	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.04 $\pm$ 0.02	0.07 $\pm$ 0.04	0.04 $\pm$ 0.03	0.04 $\pm$ 0.02
<i>A. lamarcki</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
<i>Cladocora arbuscula</i>	0.04 $\pm$ 0.02	0.02 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0
<i>Colpophyllia natans</i>	0.53 $\pm$ 0.07	0.36 $\pm$ 0.06	0.06 $\pm$ 0.06	0.02 $\pm$ 0.01	0.06 $\pm$ 0.04	0.06 $\pm$ 0.02	0 $\pm$ 0	0.07 $\pm$ 0.03	0.16 $\pm$ 0.04
<i>Dendrogyra cylindrus</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01
<i>Dichocoenia stokesi</i>	0.81 $\pm$ 0.05	0.83 $\pm$ 0.04	0.88 $\pm$ 0.13	0.75 $\pm$ 0.06	0.34 $\pm$ 0.15	0.19 $\pm$ 0.04	0.70 $\pm$ 0.08	0.69 $\pm$ 0.07	0.58 $\pm$ 0.06
<i>Diploria clivosa</i>	0.10 $\pm$ 0.04	0.13 $\pm$ 0.04	0.19 $\pm$ 0.12	0.30 $\pm$ 0.07	0.13 $\pm$ 0.07	0.09 $\pm$ 0.02	0.05 $\pm$ 0.03	0.08 $\pm$ 0.04	0.01 $\pm$ 0.01
<i>D. labyrinthiformis</i>	0.43 $\pm$ 0.05	0.23 $\pm$ 0.04	0.06 $\pm$ 0.06	0.05 $\pm$ 0.02	0.09 $\pm$ 0.07	0.06 $\pm$ 0.02	0.18 $\pm$ 0.06	0.13 $\pm$ 0.05	0.14 $\pm$ 0.03
<i>D. strigosa</i>	0.49 $\pm$ 0.06	0.35 $\pm$ 0.05	0.06 $\pm$ 0.06	0.16 $\pm$ 0.04	0.13 $\pm$ 0.07	0.07 $\pm$ 0.02	0.12 $\pm$ 0.07	0.32 $\pm$ 0.06	0.24 $\pm$ 0.04
<i>Eusmilia fastigiata</i>	0.43 $\pm$ 0.06	0.39 $\pm$ 0.06	0.38 $\pm$ 0.24	0.06 $\pm$ 0.04	0.03 $\pm$ 0.03	0.04 $\pm$ 0.01	0.15 $\pm$ 0.08	0.15 $\pm$ 0.05	0.19 $\pm$ 0.05
<i>Favia fragum</i>	0.13 $\pm$ 0.04	0.02 $\pm$ 0.01	0.13 $\pm$ 0.13	0.05 $\pm$ 0.03	0.03 $\pm$ 0.03	0.31 $\pm$ 0.04	0 $\pm$ 0	0.04 $\pm$ 0.02	0.02 $\pm$ 0.01
<i>Isophyllia sinuosa</i>	0.03 $\pm$ 0.02	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0
<i>Leptoseris cucullata</i>	0.07 $\pm$ 0.03	0.24 $\pm$ 0.05	0 $\pm$ 0	0.03 $\pm$ 0.02	0.06 $\pm$ 0.04	0.03 $\pm$ 0.01	0.10 $\pm$ 0.06	0.01 $\pm$ 0.01	0.11 $\pm$ 0.04
<i>Madracis decactis</i>	0 $\pm$ 0	0.18 $\pm$ 0.05	0 $\pm$ 0	0.06 $\pm$ 0.03	0 $\pm$ 0	0.02 $\pm$ 0.01	0.10 $\pm$ 0.06	0.04 $\pm$ 0.02	0.20 $\pm$ 0.05
<i>M. formosa</i>	0 $\pm$ 0	0.02 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.02 $\pm$ 0.02
<i>M. mirabilis</i>	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.04 $\pm$ 0.02	0 $\pm$ 0	0 $\pm$ 0	0.06 $\pm$ 0.04
<i>Manicina areolata</i>	0.01 $\pm$ 0.01	0.01 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.08 $\pm$ 0.06	0.10 $\pm$ 0.04	0.21 $\pm$ 0.04
<i>Meandrina meandrites</i>	0.24 $\pm$ 0.04	0.22 $\pm$ 0.04	0 $\pm$ 0	0.10 $\pm$ 0.04	0.06 $\pm$ 0.06	0.06 $\pm$ 0.02	0.32 $\pm$ 0.06	0.15 $\pm$ 0.04	0.22 $\pm$ 0.04
<i>Millepora alcicornis</i>	0.96 $\pm$ 0.02	1.00 $\pm$ 0.00	1.00 $\pm$ 0.00	0.97 $\pm$ 0.02	0.94 $\pm$ 0.04	0.81 $\pm$ 0.04	1.00 $\pm$ 0.00	0.98 $\pm$ 0.02	0.98 $\pm$ 0.02
<i>M. complanata</i>	0 $\pm$ 0	0.07 $\pm$ 0.03	0 $\pm$ 0	0.21 $\pm$ 0.07	0.31 $\pm$ 0.14	0.66 $\pm$ 0.05	0.02 $\pm$ 0.02	0 $\pm$ 0	0 $\pm$ 0
<i>Montastraea annularis</i>	0.29 $\pm$ 0.05	0.18 $\pm$ 0.04	0 $\pm$ 0	0 $\pm$ 0	0.09 $\pm$ 0.07	0.09 $\pm$ 0.02	0.03 $\pm$ 0.03	0.07 $\pm$ 0.03	0.03 $\pm$ 0.02
<i>M. faveolata</i>	0.69 $\pm$ 0.05	0.52 $\pm$ 0.05	0.06 $\pm$ 0.06	0.03 $\pm$ 0.02	0.31 $\pm$ 0.12	0.15 $\pm$ 0.04	0.13 $\pm$ 0.05	0.24 $\pm$ 0.07	0.36 $\pm$ 0.07
<i>M. franksii</i>	0.08 $\pm$ 0.03	0.08 $\pm$ 0.03	0.06 $\pm$ 0.06	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.02 $\pm$ 0.02	0.08 $\pm$ 0.03
<i>M. annularis</i> sp.	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.01 $\pm$ 0.01	0 $\pm$ 0
<i>M. cavernosa</i>	0.78 $\pm$ 0.05	0.71 $\pm$ 0.05	0.31 $\pm$ 0.19	0.53 $\pm$ 0.07	0.25 $\pm$ 0.13	0.40 $\pm$ 0.04	0.63 $\pm$ 0.07	0.58 $\pm$ 0.08	0.80 $\pm$ 0.05
<i>Mussa angulosa</i>	0.09 $\pm$ 0.03	0.02 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.01 $\pm$ 0.01
<i>Mycetophyllia aliciae</i>	0.14 $\pm$ 0.04	0.12 $\pm$ 0.04	0 $\pm$ 0	0.01 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0.02 $\pm$ 0.01
<i>M. danaana</i>	0.11 $\pm$ 0.03	0.06 $\pm$ 0.02	0 $\pm$ 0	0 $\pm$ 0	0.03 $\pm$ 0.03	0.01 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0.02 $\pm$ 0.01
<i>M. ferox</i>	0.03 $\pm$ 0.02	0.01 $\pm$ 0.01	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0

Stony coral species	MPR (36)	OPR (42)	HBM (4)	LHBS (25)	IRT (8)	HSG (51)	LHBD (15)	PHB (21)	LSG (33)
<i>M. lamarckiana</i>	0.10 ± 0.04	0.08 ± 0.02	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.01 ± 0.01
<i>Mycetophyllia</i> sp.	0.03 ± 0.01	0.05 ± 0.02	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0.03 ± 0.02	0.02 ± 0.02	0.04 ± 0.02
<i>Oculina diffusa</i>	0.35 ± 0.06	0.17 ± 0.04	0 ± 0	0.01 ± 0.01	0 ± 0	0 ± 0	0 ± 0	0.06 ± 0.03	0.02 ± 0.01
<i>Phyllangia americana</i>	0.01 ± 0.01	0.01 ± 0.01	0 ± 0	0 ± 0	0 ± 0	0.01 ± 0.01	0.02 ± 0.02	0 ± 0	0 ± 0
<i>Porites astreoides</i>	0.94 ± 0.03	0.93 ± 0.02	0.88 ± 0.13	0.86 ± 0.04	0.97 ± 0.03	0.88 ± 0.03	0.88 ± 0.05	0.89 ± 0.05	0.89 ± 0.04
<i>P. branneri</i>	0 ± 0	0.02 ± 0.01	0 ± 0	0.07 ± 0.04	0 ± 0	0.01 ± 0.01	0.03 ± 0.02	0.11 ± 0.03	0.02 ± 0.02
<i>P. porites divaricata</i>	0.24 ± 0.05	0.31 ± 0.04	0.13 ± 0.07	0.11 ± 0.03	0.03 ± 0.03	0.03 ± 0.01	0.18 ± 0.05	0.11 ± 0.04	0.19 ± 0.05
<i>P. porites furcata</i>	0.65 ± 0.06	0.74 ± 0.04	0.56 ± 0.06	0.52 ± 0.05	0.50 ± 0.07	0.46 ± 0.04	0.70 ± 0.09	0.52 ± 0.05	0.52 ± 0.05
<i>P. porites porites</i>	0.37 ± 0.05	0.40 ± 0.04	0.44 ± 0.06	0.44 ± 0.05	0.41 ± 0.10	0.29 ± 0.03	0.42 ± 0.06	0.42 ± 0.07	0.45 ± 0.05
<i>Scolymia</i> sp.	0.16 ± 0.04	0.19 ± 0.04	0 ± 0	0 ± 0	0.03 ± 0.03	0 ± 0	0.02 ± 0.02	0.02 ± 0.02	0.08 ± 0.03
<i>Siderastrea radians</i>	0.65 ± 0.05	0.80 ± 0.04	1.00 ± 0.00	0.71 ± 0.06	0.47 ± 0.14	0.35 ± 0.05	0.62 ± 0.10	0.74 ± 0.06	0.74 ± 0.05
<i>S. siderea</i>	1.00 ± 0.00	0.96 ± 0.01	0.88 ± 0.13	0.90 ± 0.04	0.66 ± 0.12	0.71 ± 0.04	0.98 ± 0.02	0.92 ± 0.04	0.95 ± 0.02
<i>S. bournoni</i>	0.41 ± 0.06	0.32 ± 0.05	0.19 ± 0.12	0.11 ± 0.03	0 ± 0	0 ± 0	0.12 ± 0.05	0.42 ± 0.07	0.24 ± 0.05
<i>Stephanocoenia intersepta</i>	0.74 ± 0.06	0.71 ± 0.05	0.31 ± 0.24	0.44 ± 0.08	0.16 ± 0.09	0.15 ± 0.03	0.77 ± 0.08	0.73 ± 0.08	0.89 ± 0.03