

**Supplemental File 1**

GPS location of sampling sites within the Belize Barrier Reef Reserve System.

Different sites with same GPS indicates that adjacent sites were sampled; GPS indicates the anchoring location of the boat between sites.

LOC	MPA	SITE	LAT	LON	
GR	1	reef1	1643.795	8750.189	LOC: GR: Glover's Reef Marine Reserve
GR	1	reef2	1644.485	8749.809	SW: South Water Cay Marine Reserve
GR	1	reef3.1	1644.495	8748.789	LR: Lighthouse Reef (Halfmoon Cay & Blue Hole NM)
GR	1	reef3.2	1644.495	8748.789	MPA: 1=Protected; 2=Fished
GR	1	reef4	1645.125	8748.279	SITE: reef (patch reef/back reef)
GR	1	reef5	1644.765	8749.559	flat (seagrass-macroalgal)
GR	1	reef6	1644.775	8748.959	LAT/LON GPS coordinates in WGS84 datum
GR	2	reef1.1	1647.085	8746.23	
GR	2	reef1.2	1647.085	8746.23	
GR	2	reef2.1	1647.465	8745.71	
GR	2	reef2.2	1647.465	8745.71	
GR	2	reef3	1674.765	8745.439	
GR	2	reef4	1647.485	8746.279	
GR	2	reef5	1648.205	8746.949	conch only
GR	1	flat1	1644.88	8748.12	conch only
GR	1	flat2	1644.14	8749.67	conch only
GR	1	flat4	1645.51	8752.76	conch only
GR	2	flat3	1648.17	8751.09	conch only
GR	2	flat5	1649.68	8750.69	conch only
GR	2	flat6	1646.72	8745.66	conch only
SW	1	reef2.1	1649.321	8804.529	lobster only
SW	1	reef2.2	1651.362	8804.315	lobster only
SW	1	reef7	1652.95	8806.24	
SW	2	reef3	1645	8805.25	
SW	2	reef4	1646.34	8806.7	
SW	2	reef5	1646.68	8806.74	
SW	2	reef6	1648.137	8808.442	
SW	2	reef10	1646.613	8806.911	
SW	1	flat1	1652.804	8804.082	conch only

SW	1	flat2.1	1649.321	8804.529	conch only
SW	1	flat2.2	1651.362	8804.315	conch only
SW	2	flat3	1646.51	8804.83	conch only
SW	2	flat4	1645.675	8752.759	conch only
LR	1	reef1	1713.42	8733.83	
LR	1	reef2	1713.104	8732.866	
LR	1	reef3	1712.75	732.543	
LR	1	reef4	1718.934	8731.968	
LR	2	reef6	1719.124	8731.462	
LR	2	reef8	1716.855	8732.247	
LR	1	reef7	1719.004	8731.866	lobster only
LR	2	reef9	1719.466	8731.814	lobster only
LR	2	reef10	1719.509	8732.814	lobster only
LR	1	flat1	1712.635	8732.124	conch only
LR	1	flat2	1713.3	8732.37	conch only
LR	2	flat3	1713.061	8735.105	conch only
LR	2	flat4	1718.259	8731.68	conch only
LR	2	flat5	1718.804	8731.721	conch only
LR	1	flat6	1718.442	8731.865	conch only
LR	2	flat7	1719.183	8731.466	conch only
LR	1	flat9	1713.134	8732.042	conch only
LR	1	flat10	1713.448	8733.79	conch only
LR	2	flat11	1717.25	8732.072	conch only