

Steiner SCC & DA Willette (2009) The distribution and size of benthic marine habitats in Dominica, Lesser Antilles		
Definitions used in Tables A-F of the appendix: Benthic cover of habitat types by region.		
Habitat Category	Habitat Type	Definition
Rock	1.0 unspecified	rocky hard substrate, unspecified
	1.1 outcrops	outcrops such as remnants of pyroclastic flows, volcanic dykes, or part of cliff or otherwise steep rocky terrain lining the shore and providing a primary hard substrate
	1.2 blocks	rocks \geq 5 m in diameter, mostly parts of cliff sides that have collapsed into the sea, providing isolated areas of hard substrates
	1.3 rocks	rocks smaller than 5 m diameter
	1.4 mix	a mixed bed of at least two of the above, or a conglomerate of allochthonous rocky deposits (e.g. rounded rock from rivers or beaches cemented together off shore)
Sand	2.0 unspecified	sandy soft substrates with no significant/semi-permanent epiflora and fauna. otherwise unspecified
	2.1 black	visual appearance black, volcanic origin
	2.2 white	visual appearance white, organic/calcareous origin
Seagrass	3.0 unspecified	seagrasses with at least 10% benthic cover otherwise unspecified
	3.1 mono	dominated by one seagrass species with at least 90% benthic cover
	3.2 mix	multiple species with no single species covering more than 90%
	3.3 variegated	seagrasses are established in monospecific patches with limited or no overlap
Coral Reef	4.0 unspecified	coral communities with evidence of reef accretion, otherwise unspecified
	4.1 fringing	reef systems contouring the shoreline / shelf
	4.2 patch	isolated non-continuous areas of reef accretion
	4.3 spur & groove	high relief reefs with sand chutes perpendicular to shore
	4.4 oligospecific	coral reefs dominated and built by one or a few species [see Steiner S.C.C. 2003. Stony Corals and Reefs of Dominica (Lesser Antilles). Atoll Res. Bull. 498]

TABLES A – F (see below pages 2 - 6) Listed are the site names, dimensions (length x width), benthic cover of individual habitat types, and the coordinates of the sites.

INSTRUCTIONS for persons interested in resurveying all or some of these areas are provided at the end of this document (page 6).

Table A

Sites	Length (m)	Width (m)	Rock (m ²)					Sand (m ²)			Seagrass (m ²)				Reef (m ²)				Coordinates of starting point of survey or for central location when <i>italicized</i> .				
			1.0	1.1	1.2	1.3	1.4	2.0	2.1	2.2	3.0	3.1	3.2	3.3	4.0	4.1	4.2	4.3		4.4			
WESTERN (NORTH) REGION																							
TiBay > Espagnol River	2605	200		10420		26050	104200		354280					26050								15°31'51"N	61°28'30"W
Douglas B Road > Ti Bay N	5120	250							640000							614400			25600			15°32'51"N	61°28'19"W
S Cabrits Pier > Dougl's Bay Road N Cabrits	920	150				6900			107640					20700					2760			15°35'03"N	61°27'51"W
Wetlands River > S Cabrits Pier	2675	75				200625																15°34'55"N	61°28'17"W
Dougl B Salt River > N Cabrits	1200	250							216000					84000								15°35'25"N	61°28'04"W
Wetlands River Toucari N > Dougl Bay Salt River	1965	200		15720	1965	117900			190605				58950						7860			15°35'54"N	61°27'41"W
Lamothe River > Toucari N	870	150					78300		52200													15°36'41"N	61°27'54"W
Capucin Beach > Lamothe R	880	125				16500			77000				16500									15°37'07"N	61°27'58"W
Capucin Dock > Capucin Beach	395	50				14813			4937													15°37'33"N	61°27'52"W
Cap Melville > Capucin Dock	1100	50				41250			13750													15°37'45"N	61°27'48"W

Table B

Sites	Length (m)	Width (m)	Rock (m ²)					Sand (m ²)			Seagrass (m ²)				Reef (m ²)				Coordinates of starting point of survey or for central location when <i>italicized</i> .					
			1.0	1.1	1.2	1.3	1.4	2.0	2.1	2.2	3.0	3.1	3.2	3.3	4.0	4.1	4.2	4.3		4.4				
WESTERN (CENTRAL) REGION																								
Layou Village > Layou River (jetty)	715	100							71500														15°23'50"N	61°25'38"W
Mero River > Layou Village	2195	200				8780			219500				210720									15°24'60"N	61°25'42"W	
Mirabilis Reef	300	60									3600								14400			<i>15°24'49"N</i>	<i>61°25'51"W</i>	
Barry's Dream																						<i>15°25'03"N</i>	<i>61°26'01"W</i>	
Salisbury River > Mero River	2215	200					4430		84170				354400									15°25'59"N	61°26'12"W	
Grande Savane S > Salisbury River	1565	100				15650	7825		117375				15650									15°26'29"N	61°26'52"W	
Easy Street																						<i>15°26'10"N</i>	<i>61°26'28"W</i>	
Lauro Deep	100	60									1200								4800			<i>15°26'16"N</i>	<i>61°26'45"W</i>	
Brain to Renas Reef (drift)	500	40									3000								17000			<i>as below</i>	<i>as below</i>	
Grand Savane Reef																						<i>15°26'23"N</i>	<i>61°27'07"W</i>	
Compl excl drift											22721								90884			<i>15°26'23"N</i>	<i>61°27'07"W</i>	
Floral Gardens	80	25									800										1200	15°26'53"N	61°27'01"W	
Batali River > Grand Savane S	1435	100				86100			57400													15°27'06"N	61°26'50"W	

Steiner SCC & Willette DA (2009) The distribution and size of benthic marine habitats in Dominica, Lesser Antilles. APPENDIX Benthic cover of habitat types by region.

(first beach) Colihaut River > Batali River	4290	100							193050											235950	15°29'03"N	61°27'50"W	
Colihaut Beach (N) > Colihaut River	310	100							23250			7750									15°29'12"N	61°27'53"W	
Pt Fonsen > Colihaut Beach (N)	1080	150			3240	24300			85860											48600	15°29'38"N	61°28'09"W	
Anse Mulatre S Point > Pt Fonsen	1510	75			96262				16988												15°30'14"N	61°28'04"W	
Bioche Pier > Anse Mulatre S point	590	100			2950	2950			41300											11800	15°30'30"N	61°29'02"W	
Espagnol River > Bioche Pier	2975	200							238000												357000	15°31'51"N	61°28'30"W

Table C

SITES	Length (m)	Width (m)	Rock (m ²)					Sand (m ²)			Seagrass (m ²)				Reef (m ²)					Coordinates of starting point of survey or for central location when <i>italicized</i> .		
			1.0	1.1	1.2	1.3	1.4	2.0	2.1	2.3	3.0	3.1	3.2	3.4	4.0	4.1	4.2	4.3	4.4			
SH Caribantic Bldg > SH Point N	725	50		5750	6500					17225			500				5225			1050	15°12'47"N	61°22'07"W
Soufriere (church) > SH Caribantic Bldg	2510	75	56475						131775												15°13'57"N	61°21'42"W
Champ first cove (N) > Soufriere (church)	1940	100		29100	67900			97000													15°14'34"N	61°22'24"W
Champagne Bubbles > first cove (N)	255	75		7650	9563				1912												15°14'42"N	61°22'23"W
PM Cement > Champagne Pt Michel (N end town) >	1760	75			26400	31680			71280				2640								15°15'36"N	61°22'40"W
PM Cement Loubiere	655	150			9825			87443					982								15°15'57"N	61°22'36"W
Gbay Rd > Pt Michel (N end town) Fisheries	1155	100	11550		23100			80850													15°16'33"N	61°22'28"W
Harbour > Loubier Gbay Road	3345	75			25087			225788													15°17'55"N	61°23'27"W
Goodwill Sav S > Fisheries Harbor (N)	590	100			11800			47200													15°18'14"N	61°23'26"W
Port S > Goodwill Savanna S	735	100			7350			51450					14700								15°18'37"N	61°23'21"W
Port N > Port S	480																				15°18'50"N	61°23'20"W
Fond Cole N > Fond Cole River (Customs Dock)	695	75			3000			46125					3375								15°19'07"N	61°23'35"W

Steiner SCC & Willette DA (2009) The distribution and size of benthic marine habitats in Dominica, Lesser Antilles. APPENDIX Benthic cover of habitat types by region.

Morne Daniel N/Road > Fond Cole N Newland Ravine > Morne Daniel N/Road	1125	150		16875		151875														15°19'41"N	61°23'43"W
Les Pointes River >Newland Ravine (River)	990																			15°20'07"N	61°23'36"W
Les Pointes Bay (N) > Les Pointes River	2125	75		7969				91906							59500					15°21'12"N	61°23'38"W
Belfast River > Les Pointes Bay (N)	315																			15°21'21"N	61°23'40"W
RRock S > Belfast River	1450	175		12688		20300		93888						126874						15°21'53"N	61°24'09"W
RRock N outcrop > RRock S Tarou (S) > Rrock N outcrop	2070	100				11925		41400						153675						15°22'49"N	61°24'40"W
Layou River Jetty > Tarou (S)	285	50		42515				9975												15°22'52"N	61°24'42"W
	495	100		14040		810		31050						3600						15°23'06"N	61°24'47"W
	1500	150				45000		130500						49500						15°23'31"N	61°25'29"W

Table D

NORTHERN REGION	Length (m)	Width (m)	Rock (m ²)					Sand (m ²)			Seagrass (m ²)				Reef (m ²)					Coordinates of starting point of survey or for central location when <i>italicized</i> .	
			1.0	1.1	1.2	1.3	1.4	2.0	2.1	2.2	3.0	3.1	3.3	3.4	4.0	4.1	4.2	4.3	4.4		
Pointe Jaco > Cap Melville	4510	100	451000																	15°38'23"N	61°25'20"W
Au Parc Point > Pointe Jaco	5575	100	557500																	15°36'42"N	61°24'05"W
Thibaut Cliffs > Au Parc Point	1265	150				170775			18975											15°36'23"N	61°23'47"W
Sabdwich Bay > Thibaut Cliffs	1575	100	157500																	15°36'02"N	61°23'33"W
Thibaut Cove S > Thibaut Cove N	410	75			6150				24600											15°35'56"N	61°23'33"W
A B W > Thibaut S Cove	275	100	27500																	15°35'56"N	61°23'27"W
A Blenheim E > A B W	1145																			15°35'50"N	61°23'05"W
A Soldat E > A Soldat W	1005	100								12563	37687				50250					15°35'49"N	61°22'49"W
A Du Me E > A Du Me W	895	100									44750				44750					15°35'46"N	61°22'36"W
Hampstead Point > A Du Me Point E	3535																			15°35'51"N	61°21'31"W
Porte La Fin >	985	250	49250					123125				7388			66487					15°35'36"N	61°21'12"W

Steiner SCC & Willette DA (2009) The distribution and size of benthic marine habitats in Dominica, Lesser Antilles. APPENDIX Benthic cover of habitat types by region.

Hampstead Point Calibishie E > Port La Fin A Dubuc (pt baptiste area) > Calibishie E (sheds)	965	300							32168	32166				225166					15°35'43"N	61°20'43"W
Anse Nor W > A Dubuc (west side Hodges) Pt La Soie (Woodford Hill Bay) > Anse Nor W	2610																		15°35'47"N	61°19'59"W
Crompton Point > Pt La Soie Walker's Rest > Crompton Point	1045	100	20900					62700						15675					15°35'23"N	61°19'49"W
Melville Hall River > Walker's Rest	2370	100	23700																15°35'25"N	61°19'03"W
	2250																		15°35'05"N	61°18'09"W
	3490																		15°34'00"N	61°17'52"W
	2265	100						226500											15°34'00"N	61°17'32"W

Table E

SITES	Length (m)	Width (m)	Rock (m ²)					Sand (m ²)			Seagrass (m ²)				Reef (m ²)					Coordinates of starting point of survey or for central location when <i>italicized</i> .					
			1.0	1.1	1.2	1.3	1.4	2.0	2.1	2.3	3.0	3.1	3.2	3.3	4.0	4.1	4.2	4.3	4.4						
Pt Agustin > Melville Hall River	3070	100	153500						76750										76750					15°32'30"N	61°16'27"W
Pagua Bay North > Pt Agustin	2305	100	230500																					15°31'33"N	61°16'25"W
Pagua River > Pagua Bay North	880	100								88000														15°31'08"N	61°16'23"W
A Quaneri B N Point > Pagau River	16525	100	1652500																					15°26'28"N	61°15'16"W
Castle Bruce River > A Quaneri B North Point	1075	100								107500														15°25'58"N	61°15'20"W
Anse Quaneri Island > Castle Bruce River	1040	100		89000															15000					15°25'59"N	61°14'50"W
Ssaue River > Anse Quaneri Island	5725	100	572500																					15°24'14"N	61°15'14"W
Rosalie River > S Sauve River	8700	100	851600																9200					15°22'25"N	61°15'04"W
Bout Sable N > Rosalie River	2840	100	213000							71000														15°21'09"N	61°14'57"W
Sari Sari River (La Plaine) > Bout Sable N	1685	100								168500														15°20'19"N	61°14'42"W
Delices, Mulatre River > Sari Sari River (La Plaine)	11145	100				1114500																		15°16'32"N	61°15'15"W

Table F

SOUTHERN REGION	Sites	Length (m)	Width (m)	Rock (m ²)					Sand (m ²)			Seagrass (m ²)				Reef (m ²)				Coordinates of starting point of survey or for central location when <i>italicized</i> .	
				1.0	1.1	1.2	1.3	1.4	2.0	2.1	2.3	3.0	3.1	3.2	3.3	4.0	4.1	4.2	4.3		4.4
	Fd St Jean Malabuka River > Delices, Mulatre River	6910	100			691000														15°14'36"N	61°17'02"W
	Geneva River > Fond St Jean Malabuka River	2960	100	175600					100000						20000	400				15°14'38"N	61°18'26"W
	Pt Tanama > Geneva River	2160	75	162000																15°13'41"N	61°18'49"W
	Point des Fou > Pt Tanama	3340	75	250500																15°12'40"N	61°19'48"W
	Morne Rouge > Point des Fou	2030	75	152250																15°12'29"N	61°20'35"W
	E end of SHvillage south > Morne Rouge	2385																		15°12'34"N	61°21'52"W
	SH Point N > E end of SHvillage south	1425	75	71250					35625											15°12'58"N	61°22'26"W

INSTRUCTIONS for persons interested in resurveying all or some of these areas: Delineate the survey areas using the site names. For example in Table F (above) “Fd. St Jean Malabuka River > Delice, Mulatre River”, the > symbol means “*to*”, as in “was surveyed from Fd. St Jean Malabuka River *to* Delice, Mulatre River”. In addition the coordinates provided (last 2 columns on the right) can assist in finding the listed locations. Coordinates were determined using Google Earth. The length and width (lining the shoreline between the delineating site names) of each survey carried out by Steiner and Willette are listed in the two columns following the Sites column. Based on these surveys areas (Length x Width), the assessment of benthic cover of habitat types within the categories rock, sand, seagrass, and reef was carried out. It is recommended to also use the maps published by the British Government's Ministry of Overseas Development. Series E803, Edition 4 DOS 1978, Scale 1:25000 as reference. In Dominica these are available at the offices of Lands and Surveys in Cork Street, Roseau. All surveys were carried out between October 2007 and May 2008. For some sites (rows) no data are listed within the habitat type columns. This means that those particular stretches of shoreline have not yet been explored.