

MAJOR SUBSTRATE	BEDROCK/BOULDER	BEDROCK/BOULDER	BEDROCK/BOULDER	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	27, 28, 29, 30, 31	24 - 30	
EXPOSURE (EXP_BIO)	SE	SP	P, VP	SP	P, VP	SP, P, VP	SE, E	VP, P, SP
HABITAT OBSERVED (HAB_OBS)	3 *	4	5	6	7	8	9	10
upper	Verrucaria	Verrucaria	Verrucaria			marsh grasses & rushes	-	tidal current dominated; may be a Protected wave exposure but shows an
						Salicornia virginica		
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula		
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus		
middle							1	assemblage of indicator
	Semibalanus carriosus	Semibalanus carriosus		Semibalanus carriosus			no visible macrobiota due to sediment mobility	species from higher was exposures.
		Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus		
		Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.		
mid/low	Anthopleura elegantissima	Anthopleura elegantissima						
	Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds	Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds		Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds				
	ould bleached reas	Crassostrea gigas	Crassostrea gigas	Crassostrea gigas	Crassostrea gigas			
		Pisaster ochraceous	Crassosirea gigas	Pisaster ochraceous	Crassosirea gigas			
lower	bleached coralline reds	bleached coralline reds		Tistaler ochraceous			4	
	bleached coramite reds	Agarum sp.		Agarum sp.			-	
		Laminaria saccharina	Laminaria saccharina	Laminaria saccharina	Laminaria saccharina			
	Alaria spp.	Edinina na Saberia ma	Damina na saoona ma		Lannara saosnarina			
	Sargassum muticum	Sargassum muticum	Sargassum muticum ***	Sargassum muticum	Sargassum muticum **		-	
		Microcladia/ Irideae type mixed filamentous and foliose reds	8	Microcladia/Irideae type mixed filamentous and foliose reds				
	Lithothamnion]	
subtidal	Nereocystis luetkeana	Nereocystis luetkeana		Nereocystis luetkeana			-	
	Strongylocentrotus franciscanus	Strongylocentrotus franciscanus		Strongylocentrotus franciscanus				
		Zostera marina	Zostera marina	Zostera marina	Zostera marina	Zostera marina		