

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 assemblage of indicator species from higher wave
						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								
	Semibalanus carriosus	Semibalanus carriosus		Semibalanus carriosus				
		Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	no visible macrobiota	exposures.
		Ulva/ Ulvaria spp.	Úlva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	due to sediment mobility	
mid/low	Anthopleura elegantissima	Anthopleura elegantissima		1				
	Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds	Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds		Gelidium/Gastroclonium/ Leathesia/Prionitis/ other bleached reds				
		Crassostrea gigas	Crassostrea gigas	Crassostrea gigas	Crassostrea gigas			
		Pisaster ochraceous		Pisaster ochraceous				
lower	bleached coralline reds	bleached coralline reds						
		Agarum sp.		Agarum sp.				
		Laminaria saccharina	Laminaria saccharina	Laminaria saccharina	Laminaria saccharina			
	Alaria spp.						_	
	Sargassum muticum	Sargassum muticum	Sargassum muticum ***	Sargassum muticum	Sargassum muticum **			
		Microcladia/ Irideae type mixed filamentous and foliose reds		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		