

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	no visible macrobiota due to sediment mobility	tidal current dominated; may be a Protected wave exposure but shows an assemblage of indicator species from higher wave exposures.
						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		
		Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.		
mid/low	Anthopleura elegantissima	Anthopleura elegantissima						
	Gelidium/Gastroclonium/	Gelidium/Gastroclonium/		Gelidium/Gastroclonium/				
	ather blesched reds	ather blenched reds		ather blanched reds				
	outer bleached reds	Crassostraa ajaas	Crassostraa ajaas	Crassostrea gigas	Crassostrza gigas			
		Pisaster ochraceous	Crussosirea gigas	Pisaster ochraceous	Crussosrea gigas			
lower	bleached coralline reds	bleached coralline reds		Trisuster Certifice Cours				
		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	Strongylocentrotus		Strongylocentrotus				
	franciscanus	franciscanus		franciscanus				
		Zostera marina	Zo stera marina	Zostera marina	Zostera marina	Zostera marina		