

SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT- DOMI- NATED	TIDAL IAGOON
MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT		BEDROCK OF SEDIMENT
COASTAL					24 - 30, 32	24 - 30, 32	24 - 30, 31			
CLASSES EXPOSURE	1-20 E	1-23, 32, 33 SE	1-23, 33 SP	1-23, 33 VP, P	no SAL band SP	no SAL band VP, P	has SAL band VP, P, SP	24-30 SE, E	34 VP, P, SP	35 VP, P, SP
(EXP BIO) COMMUNITY CODE (HAB OBS)	2	3	4	5	6	7	8	9	10	11
upper	Verrucaria	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	grasses & rushes Salicornia virginica			Balanus glandu
	Balanus glandula	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	no visible	tidal current	Fucus distichus
middle	Pollicipes polymerus Mytilus californianus	ianus Mytilus californianus	Mytilus trossulus * Mytilus trossulus *	Mytilus trossulus *			Mytilus trossulus"	macrobiota due to sediment	dominated; may be a Protected wave exposure	
	Semibalanus carriosus	Semibalanus carriosus	Semibalanus carriosus Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Semibalanus carriosus Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria	mobility	but shows an assemblage of	ponded water in lagoon creates
mid/low	Alaria 'nana' morph	Hedophyllum sessile							indicator species from higher wave exposures. Assemblage	narrow intertidal and a reduced biota in brackish water, may have
lower	Lessoniopsis littoralis	Alaria 'marginata' morph	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph	Laminaria saccharina	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph	Laminaria saccharina		observed is 'anomalous'	observed is 'anomalous' for the wave energy	associated r current
	Lithothamnion	Lithothamnion	Lithothannion		Lithothamnion					
subtidal	Nereocystis luetkeana	Nereocystis luetkeana Macrocystis integrifolla Agarum spp. Strongylocentrotus franciscanus	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Macrocystis integrifolia Agarum spp.	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Macrocystis integrifolia Agarum spp.				