

SUBSTRATE STABILITY		ІММО	BILE SUBST
MAJOR SUBSTRATE	BEDROCK	BEDROCK	BEDROCK/BOULDER
COASTAL CLASSES	1-20	1-20	1-23, 32, 33
EXPOSURE (EXP BIO)	VE	Е	SE
COMMUNITY CODE (HAB_OBS)	1	2	3
upper	Verrucaria	Verrucaria	Verrucaria Enteromorpha
	Balanus glandula	Balanus glandula	Balanus glandula Fucus distichus
middle	Pollicipes polymerus Mytilus californianus	Pollicipes polymerus Mytilus californianus	Mytilus californianus
	[Semibalanus carriosus]	Semibalanus carriosus	Semibalanus carriosus
mid/low	[Alaria 'nana' morph]	Alaria 'nana' morph	Halosaccion glandiforme Hedophyllum sessile
			Codium fragile Phyllospadix scouleri Egregia menziesii
lower	Lessoniopsis littoralis [Laminaria setchelli] lush foliose coralline reds: Bossiella/ Calliarthron/Corallina	<i>Lessoniopsis littoralis</i> <i>Laminaria setchelli</i> foliose coralline reds	Laminaria setchelli Laninaria groenlandica diverse mixed red algae Alaria 'marginata'morph
	Lithothannion	Lithothamnion	Lithothammion
subtidal	Nereocystis luetkeana	Nereocystis inelkeana	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus
* Bolding	indicates diagnostic spe	ecies used to distinguis	h "communities". Squa

aanas Assemblages for the Queen Charlotte shoreline							
RATES		MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT- DOMI- NATED	
BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT	
1-23, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	27, 28, 29, 30, 31	21-30	34	
SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	
4	5	6	7	8	9	10	
Verrucaria Enteromorpha Balanus glandula Fucus distichus Mytilus trossulus Semibalanus carriosus Ulva' Ulvaria spp. Halosaccion glandiforme Codium fragile	Verrucaria Enteromorpha Balanus glandula Fucus distichus Mytilus trossulus Ulva/Ulvaria spp. Halosaccion glandiforme	Verrucaria Enteromorpha Balanus glandula Fucus distichus Mytilus trossulus Semibalanus carriosus Ulva/Ulvaria spp. Halosaccion glandiforme Codium fragile	Verrucaria Enteromorpha Balanus glandula Fucus distichus Mytilus trossulus Ulva/Ulvaria spp. Halosaccion glandiforme	grasses & rushes Salicornia virginica Balanus glandula Fucus distichus Mytilus trossulus Ulva/ Ulvaria	no visible intertidal 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. Assemblage observed is 'anomalous' for	
Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion Nereocystis Inetkeana Macrocystis Integrifolia	Laminaria saccharina Macrocystis integrifolia	Laminaria groenlandica Laminaria saccharina Alaria 'marginata'morph Lithothamnion Nereocystis luetkeana Macrocystis integrifolia	Laminaria saccharina Macrocystis integrifolia			of the site.	
Agarum 3pp. Strongylocentrotus franciscanus Zostera marina	Zostera marina	Agarsim spp. Strongylocentrotus franciscanus Zostera marina	Zostera marina	Zostera marina	ata that the cho	amon of	