

2012 CMECS

Substrate CMICs				
Substrate Origin	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup
	Rock Substrate		Bedrock	
			Meteoclast	
Geologic Substrate	Unconsolidated Mineral Substrate	Coarse Unconsolidated Substrate	Gravel	Boulder Cobble Pebble Granule
			Gravel Mixes	Sandy Gravel Muddy Sandy Gravel Muddy Gravel
			Gravelly	Gravelly Sand Gravelly Muddy Sand Gravelly Mud
			Slightly Gravelly	Slightly Gravelly Sand Slightly Gravelly Muddy Sand Slightly Gravelly Sandy Mud Slightly Gravelly Mud
			Sand	Very Coarse Sand Coarse Sand Medium Sand Fine Sand Very Fine Sand
		Fine Unconsolidated Substrate	Muddy Sand	Silt Sand Silty-Lesser Sand Clayey Sand
			Sandy Mud	Sandy Silt Sandy Silt-Clay Sandy Clay
			Mud	Silt Silt-Clay Clay
	Algal Substrate	Algal Sand	Holmedo Sand	
		Rhodolith Substrate	Rhodolith Rubble Rhodolith Hash Rhodolith Sand	
Biogenic Substrate	Coral Substrate	Coral Reef Substrate		
		Coral Rubble		
		Coral Hash		
		Coral Sand		
	Organic Substrate		Peat Debris	
		Organic Debris	Woody Debris	Fine Woody Debris Coarse Woody Debris Very Coarse Woody Debris
			Organic Detritus	
			Organic Mud	
			Carbonate Ooze	Coccolithophore Ooze Foraminiferan Ooze Pteropod Ooze
	Ooze Substrate		Siliceous Ooze	Diatomaceous Ooze Radiolarian Ooze
			Shell Reef Substrate	Clam Reef Substrate <i>Crepidula</i> Reef Substrate Mussel Reef Substrate Oyster Reef Substrate
			Shell Rubble	Clam Rubble <i>Crepidula</i> Rubble Mussel Rubble Oyster Rubble
			Shell Hash	Clam Hash <i>Crepidula</i> Hash Mussel Hash Oyster Hash
			Shell Sand	Clam Sand <i>Crepidula</i> Sand
	Worm Substrate	Sabellariid Substrate		Sabellariid Reef Substrate Sabellariid Rubble Sabellariid Hash
		Serpulid Substrate		Serpulid Reef Substrate Serpulid Rubble Serpulid Hash

2023 Proposed CMECS

Proposed Grid				
Substrate Origin	Substrate Class	Substrate Subclass	Substrate Group	Substrate Subgroup
Geologic Substrate	Consolidated Mineral Substrate	Bedrock		
		Megaclast		
		Tar		
	Coarse Unconsolidated Mineral Substrate	Gravel Substrate	Very Coarse Gravel	Boulder
			Moderately Coarse Gravel	Cobble
			Gravel Mixes	Pebble
		Mixed Gravels	Gravelly Mixes	Granule
			Gravelly Mixes	Sandy Gravel
			Gravelly Mixes	Muddy Sandy Gravel
			Gravelly Mixes	Muddy Gravel
	Fine Unconsolidated Mineral Substrate	Sandy Substrate	Sandy Mixes with Trace Gravel	Slightly Gravelly Sand
			Muddy Mixes with Trace Gravel	Slightly Gravelly Muddy Sand
				Slightly Gravelly Sandy Mud
				Slightly Gravelly Mud
			Sand	Very Coarse Sand
		Muddy Substrate	Coarse Sand	Coarse Sand
			Medium Sand	Fine Sand
			Very Fine Sand	Silty Sand
			Muddy Sand	Silty-Clayey Sand
			Sandy Mud	Clayey Sand
Biogenic Substrate	Consolidated Biogenic Substrate	Reef Substrate	Sandy Silt	Sandy Silt
			Sandy Silt-Clay	Sandy Clay
			Silt	Silt-Clay
			Mud	Clay
		Biogenic Pavement	Coral Reef	Coral Reef
			Algal Reef	Rhodolith Reef
			Shell Reef	Coquina Reef
	Coarse Unconsolidated Biogenic Substrate	Biogenic Rubble	Crepidula Reef	Crepidula Reef
			Mussel Reef	Oyster Reef
			Oyster Reef	Sabellariid Reef
			Worm Reef	Serpulid Reef
			Coralline Pavement	Coralline Pavement
			Very Large Trunk or Root	Very Large Trunk
			Very Large Branch	Very Large Branch
		Biogenic Hash	Very Large Wood Fragment	Very Large Wood Fragment
			Very Large Root or Root Network	Very Large Root or Root Network
			Algal Rubble	Rhodolith Rubble
			Coral Rubble	Coral Rubble
	Fine Unconsolidated Biogenic Substrate	Biogenic Rubble	Coquina Rubble	Coquina Rubble
			Crepidula Rubble	Crepidula Rubble
			Mussel Rubble	Oyster Rubble
			Oyster Rubble	Very Coarse Woody Debris
			Wood Rubble	Coarse Woody Debris
			Worm Rubble	Sabellariid Rubble
			Algal Hash	Serpulid Rubble
		Biogenic Hash	Rhodolith Hash	Algal Hash
			Acropora Hash	Rhodolith Hash
			Coquina Hash	Acropora Hash
			Shell Hash	Coquina Hash
		Biogenic Sand	Crepidula Hash	Crepidula Hash
			Mussel Hash	Mussel Hash
			Oyster Hash	Oyster Hash
			Fine Woody Debris	Fine Woody Debris
			Worm Hash	Sabellariid Hash
			Algal Sand	Serpulid Hash
			Coral Sand	Holimeda Sand
Anthropogenic Substrate	Consolidated (Fixed) Anthropogenic Substrate	Fixed Construction Aggregate Substrate	Shell Sand	Rhodolith Sand
			Coral Sand	Diploria Sand
		Fixed Metal Substrate	Shell Sand	Coquina Sand
	Coarse Unconsolidated Anthropogenic Substrate	Fixed Trash/Plastic Substrate	Worm Sand	Mussel Sand
		Fixed Anthropogenic Wood Substrate		Oyster Sand
		Coarse Unconsolidated Aggregate Substrate		Sabellariid Sand
		Coarse Unconsolidated Metal Substrate		Serpulid Sand
	Coarse Unconsolidated Anthropogenic Substrate	Coarse Unconsolidated Trash/Plastic Substrate	Peat	Sabellariid Hash
		Coarse Unconsolidated Wood Substrate	Organic Detritus	Serpulid Hash
			Organic Mud	Holimeda Sand
	Fine Unconsolidated Anthropogenic Substrate	Ooze Substrate	Carbonate Ooze	Diploria Sand
				Coquina Sand
			Siliceous Ooze	Mussel Sand
	Fine Unconsolidated Anthropogenic Substrate			Oyster Sand
	Fixed Construction Aggregate Substrate	Worm Rubble	Sabellariid Sand	
		Aggregate Hash	Serpulid Sand	
	Fixed Metal Substrate	Aggregate Fines	Holimeda Sand	
		Metals Hash	Rhodolith Sand	
		Metal Fines	Diploria Sand	
	Fixed Unconsolidated Aggregate Substrate	Trash/Plastic Hash	Coquina Sand	
		Trash/Plastic Fines	Mussel Sand	
		Wood Hash	Oyster Sand	
	Fine Unconsolidated Metal Substrate	Wood Fines	Sabellariid Sand	
			Serpulid Sand	
			Holimeda Sand	
	Fine Unconsolidated Trash/Plastic Substrate		Rhodolith Sand	
			Diploria Sand	
			Coquina Sand	
	Fine Unconsolidated Anthropogenic Wood Substrate		Mussel Sand	
			Oyster Sand	
			Sabellariid Sand	