Coastal and Marine Ecological Classification Standard (CMECS)

Concept Map produced by the Oregon Coastal Management Program
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Digital Copies available @ http://www.coastalatlas.net/documents/cmecs/CMECS_ConceptMap_FGDP_2014.pdf

Component

Setting

Biogeographical Setting

- Realm
- Province
- Ecoregion

Aquatic Setting

System
- Lacustrine
- Marine
- Estuarine

Subsystem
- Tidal Riverine Coastal
  - Intertidal
  - Subtidal
- Open Water
  - Tidal Zone
  - Subtidal
- Tidal Riverine Open Water
  - Tidal Zone
  - Subtidal
- Coastal
  - Tidal Zone
  - Intertidal
  - Subtidal

Substrate Component

Substrate Origin

Geologic Substrate

Substrate Class
- Rock Substrate
  - Substrate Subclass
  - Bedrock
  - Megarrubble
- Unconsolidated Mineral Substrate
  - Substrate Subclass
  - Coarse Unconsolidated Substrate
    - Substrate Class
    - Boulder
    - Cobble
    - Gravel
  - Fine Unconsolidated Substrate
    - Substrate Class
    - Pebble
    - Granule
    - Sand
    - Mud
    - Clay

Biogenic Substrate

Substrate Class
- Algal Substrate
  - Substrate Subclass
  - Algal Sand
  - Rhodolith Substrate
  - Algal Mat
- Organic Substrate
  - Substrate Subclass
  - Organic Detritus
  - Organic Debris
  - Organic Mud
- Shell Substrate
  - Substrate Subclass
  - Shell Sand
    - Shell Sand Substrate
  - Shell Hash
    - Shell Hash Substrate
  - Shell Rubble
- Worm Substrate
  - Substrate Subclass
  - Worm Substrate
  - Sabellaria Substrate
  - Deposit Substrate

Anthropogenic Substrate

Substrate Class
- Anthropogenic Rock
  - Substrate Subclass
  - Anthropogenic Rock Mat Substrate
  - Anthropogenic Rock Rubble
  - Anthropogenic Rock Hash
  - Anthropogenic Rock Mat
  - Anthropogenic Rock Sand
- Metal
  - Substrate Subclass
  - Metal Mat
  - Metal Hash
  - Metal Rubble
- Trash
  - Substrate Subclass
  - Trash Mat
  - Trash Rubble
- Construction Materials
  - Substrate Subclass
  - Construction Mat
    - Construction Mat Substrate
  - Construction Hash
    - Construction Hash Substrate
- Anthropogenic Wood
  - Substrate Subclass
  - Anthropogenic Wood Mat Substrate
  - Anthropogenic Wood Hash
  - Anthropogenic Wood Rubble

Geoform Component

Subcomponent

Tectonic Setting

- Mid-Ocean Ridge
- Abyssal Plain
- Spreading Zone
- Spreading Center
- Convergent Active Continental Margin
- Divergent Active Continental Margin
- Fracture Zone
- Tectonic Trench
- Transform Continental Margin
- Passive Continental Margin

Physiographic Setting

- Bay
- Major River Delta
- Riverine Estuary
- Bight
- Continental/Island Shore Complex
- Lagoonal Estuary

Level 1 and 2 Geoform

Geoform Origin

Geologic

- Sediment/Stack
- Natural Levee
- Berm
- Overhang/Cliff
- Mound/Hummock
- Marsh Platform
- Pavement Arale
- Cave
- Fracture
- Photo Marine Deposit
- Ledge
- Shelf
- Dune Field
- Ridge
- Bank
- Shoal
- Swash Bar
- Spit
- Rock Outcrop
- Sediment Wave Field
- Moat
- Volcano
- Rubble Field
- Vent
- Crater
- Boulder Field
- Cobble
- Pebble
- Sand
- Mud
- Clay
- Plateau
- Depression
- Basin
- Scarp/Wall
- Valley
- Canyon
- Gully
- Channel
- Rift Zone
- Fault
- Fault Zone
- Fault Scarp
- Fault Block
- Graben
- Horst
- Ridge
- Mountain/Hill
- Basin
- Scarp/Wall
- Agassiz
- Valley
- Canyon
- Gully
- Channel
- Ridge
- Mesa
- Plateau
- Basin
- Scarp/Wall