Sub-model 1. Macroalgae

1. Regional to Global Drivers
   - Geology
   - Depth
   - Wave Exposure
   - Water Currents
   - Climate
   - Propagule Supply

2. Water Column Processes
   - Suspended Sediment
   - Light Attenuation
   - Water Chemistry & Temperature
   - Dissolved Oxygen

3. Local Processes/Inputs at the Seabed
   - Grazing and predation
   - Seabed Mobility

4. Habitat and Biological Assemblage
   - Kelp e.g. Laminaria hyperborea
   - Brown Algae e.g. Halidrys siliquosa
   - Green Algae e.g. Ulva lactuca
   - Red Algae e.g. Palmaria palmata

5. Output Processes
   - Primary Production
   - Bioengineering
   - Hydrodynamic Flow
   - Supply of Propagules

6. Local Ecosystem Functions
   - Food Resource
   - Nutrient Cycling
   - Habitat Provision
   - Sediment Stability

7. Regional to Global Ecosystem Functions
   - Export of Organic Matter
   - Export of Biodiversity
   - Biodiversity Enhancement
   - Biotope Stability

Legend
- Magnitude of Influence
  - Small
  - Medium
  - Large
- Driving Influence
  - Positive Interaction
  - Negative Interaction
- Feedback
- Driver Relevance to Infralittoral/Circalittoral
  - Low Relevance
  - High Relevance
- Degree of Natural Variability
  - Low natural variability
  - Moderate natural variability
  - High natural variability

Version 1.0
Please see accompanying report for model restrictions and limitations