Coastal Protection

 x_{cp} is the status of the coastal protection goal

$$x_{cp} = \left(\sum_{k=1}^{N} (h_k \times w_k \times A_k)\right) \left(\sum_{k=w}^{N} (w_k \times A_k)\right)^{-1}$$

$$h = \frac{C_c}{C_r}$$

h is a measure of the habitat's condition with respect to its reference condition

 C_c is the current health of shoreline-protecting habitat k in a region (mangrove, saltmarsh, coastal sea ice, coral reefs, seagrass)

 C_r is the reference condition of habitat k

w is the rank weight of the habitat's protective ability

A is the area within a region for each k habitat type