This code reads the outputs from the previous annual cumulative MHWs estimation for each 0.25° grid cell with floating kelp forests. These outputs include historical cumulative MHWs (1983-2020) and projected (2021-2100) for the climate scenarios (SSP1-2.6, SSP2-4.5, SSP5-8.5).

The code estimates the mean annual cumulative MHWs for each time frame for each pixel with kelp.

1. Contemporary (2001-2020), Short term (2021-2040), Mid term (2041-2060), and Long term (2081-2100) for each climate scenario (SSP1-2.6, SSP2-4.5, SSP5-8.5).
2. Mean for each ecoregion by conducting a spatial overlay with the Spalding ecoregions (32 with kelp) shapefile and the kelp pixels.