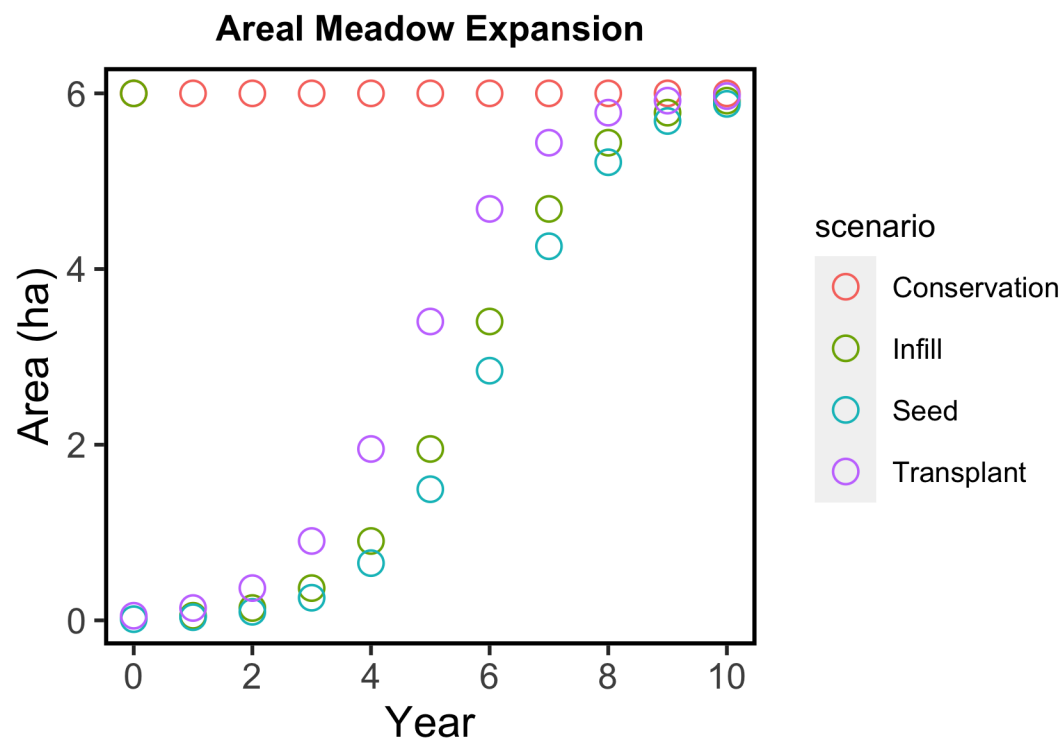


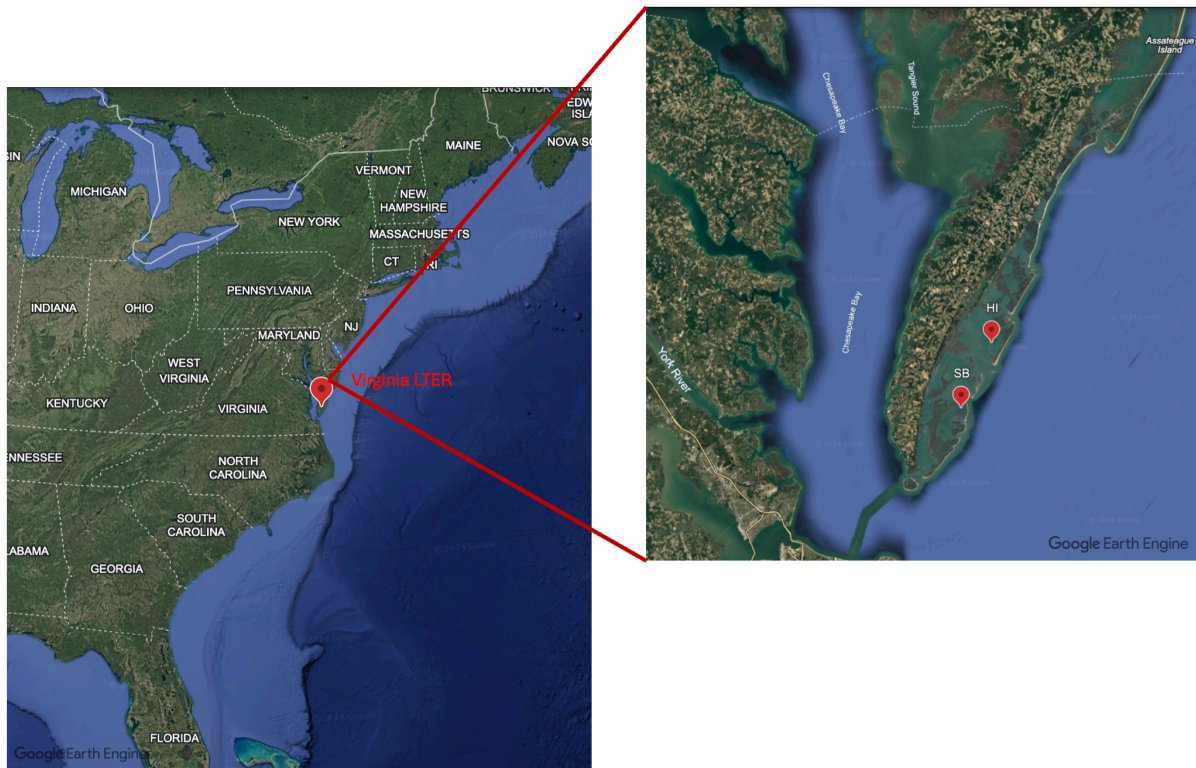
SUPPLEMENTARY INFORMATION

Supplementary Figure 1:



Supplementary figure 1: Modeled areal bed size in each of the four scenarios over ten years. Note that in the 'infill' scenario, the project begins (year = 0) at full size (6 ha), and then once transplanted, the area is reduced to the size of the transplant area.

Supplementary Figure 2:



Supplementary figure 2: Data and parameters for seagrass restoration applied in the base model scenario (see Table 3) result from studies conducted within the Virginia Coast Reserve Long Term Ecological Research Site (“Virginia LTER”). Specifically, data were collected from two sites: Hog Island (“HI”) and South Bay (“SB”). See Greiner et al. (2013), McGlathery et al. (2012), and Oreska et al. (2020) for specific details on sampling and sites.