We’re screwed ft. Semibalanus cariosus

Amelia Hesketh

# Methods

## Mortality surveys

Following the Pacific Northwest heat dome in the summer of 2021, surveys of *Semibalanus cariousus* mortality were performed over a broad geographic gradient of coastal British Columbia, primarily in the Salish Sea, (Figure 1) between 5 August 2021 and 25 August 2021. Two types of surveys were performed: mortality surveys along transects, and haphazard surveys for both mortality and substratum aspect data. In the first case, 10 m transects were haphazardly placed on shore, and then 12.7 cm square quadrats were placed along these transects at every one-metre interval, with the position randomly determined within that interval. The number of live and dead barnacles within the quadrat were enumerated, along with algal cover and, in some cases, the number of moisture-retaining Anthopleura elegantissima. This process was repeated for three transects at most sites, though only two transects were conducted at Fishboat Bay and only one at Moses Point (FB and MP, Figure 1). In the case of the second survey type, quadrats of the same size were haphazardly placed on shore on surfaces that had variable orientation and angle above the horizontal. The compass direction and angle of the substratum was recorded using the Commander Compass application (version 3.10.9 for iOS), and the number of live and dead S. cariosus, live A. elegantissima, and algal cover were recorded as before.