**Introduction Planning**

**Aim:** developing a method for monitoring trends in biodiversity that accounts for the variability introduced by the observation process with a specific focus on how to construct the LPI, and Shannon and Simpson's diversity index from state-space model outputs.

Using birds with winter and summer counts (i.e migrant birds)

**Paragraph ideas:**

**Overview of biodiversity (importance of biodiversity and current trends).**

Indices used to track biodiversity.

The observation process and how this affects biodiversity calculations.

Propose using state-space model output to calculate biodiversity indices and describe the benefits.

Mention aim.