Project Birds Of Ireland

Project Overview

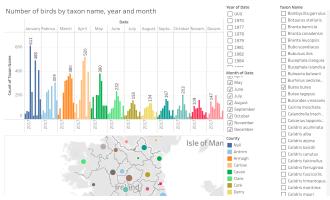
The **Project Birds of Ireland** visualizes the geographic distribution and concentration of bird populations across Ireland. It develops an **interactive map** with **filtering capabilities** by year, month, and bird species, utilizing observation data from the Irish Spatial Data Exchange (ISDE).

Key Insight

- The **Project Birds of Ireland** visualizes bird population distribution and concentration across Ireland using **observation data from the Irish Spatial Data Exchange (ISDE)**.
- It develops an **interactive map** with filtering capabilities by year, month, and bird species.
- A crucial preprocessing step involved converting all spatial data to the WGS84 coordinate system, specifically transforming Irish Grid (OSI) coordinates to WGS84 for unified mapping and accurate visualization.
- The dataset covers records from 1970, predominantly from 2011 onwards.
- **Buteo buteo is identified as the most frequent species**. The processed data is available on a **Tableau dashboard** for interactive exploration.

Details

The **Project Birds of Ireland** visualizes bird distribution across Ireland via an **interactive map**, filterable by year, month, and species. It utilizes **278,634 bird observations downloaded from the Irish Spatial Data Exchange (ISDE)**, spanning from 1970 (mostly post-2011).



Key processing included **converting all spatial data to WGS84** (transforming OSI coordinates), merging fragmented columns, and handling missing date/name/location data. Exploratory analysis identified **Buteo buteo as the most frequent species**. The processed data is available on a **Tableau dashboard** for interactive visualization

Improvements

- Create a dedicated Species field to enable filtering and targeted analysis by bird species.
- Implement a County and Species filter to analyze the number of birds observed within specific locations.
- Develop an interactive Tableau visualization displaying the geographic position of each observation site, with filtering options by county and date for more detailed spatial and temporal analysis.