Gouldian finch



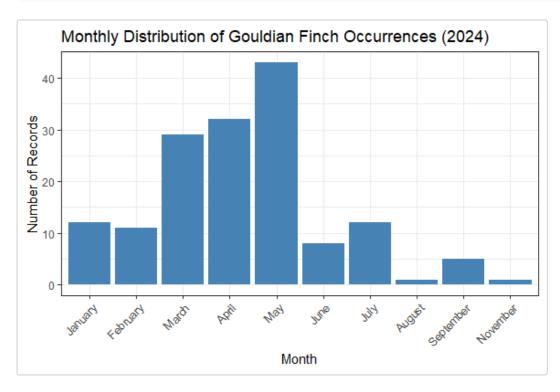
We are investigating occurrence data of **Gouldian finch** in Australia

from the Atlas of Living Australia, and make a map showing the spatial locations of sightings for 2024.

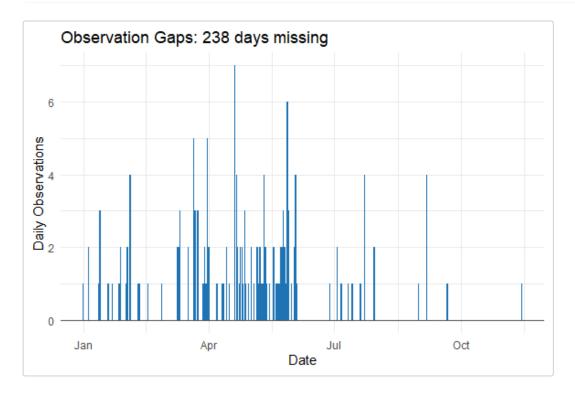
The head of dataset:

the length of the records is 154

Monthly Distribution of organisim (2024)



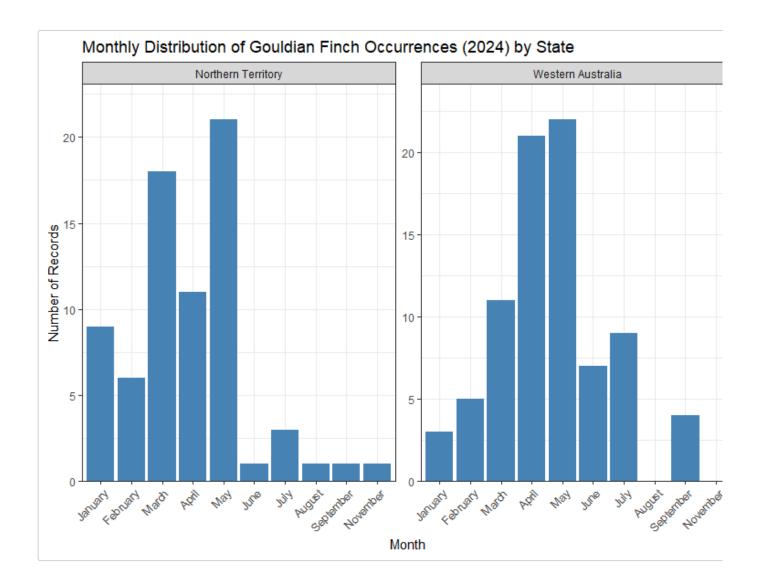
Data Regularity & Temporal Gaps

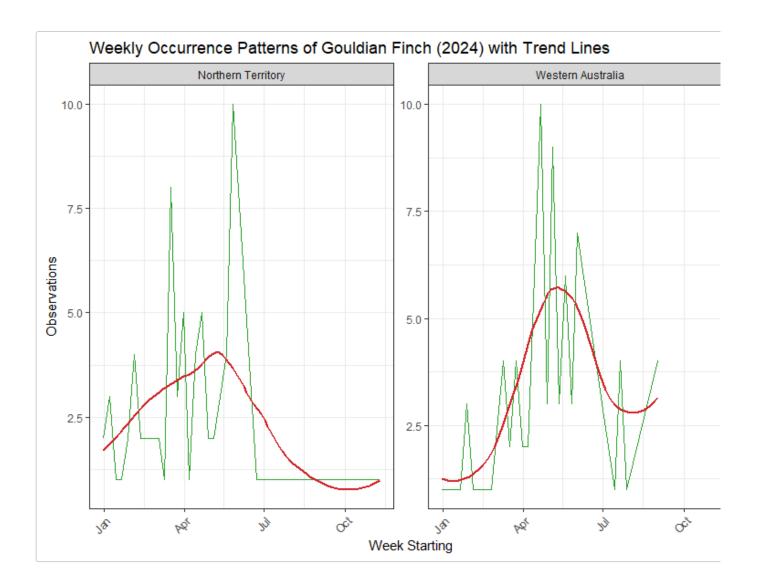


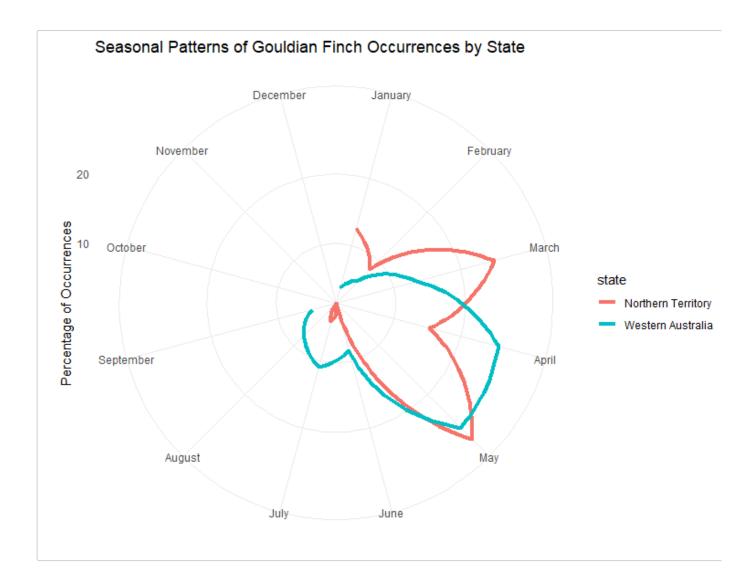
In this section we want to find nearest weather station for each occrurance of organism

```
#> State Frequency
#> 1 Western Australia 82
#> 2 Northern Territory 72
```

Pattern Analysis







Datasets Overview

We have organized the Gouldian finch occurrence and weather station data into the following structured datasets, stored in the data/ directory:

- gouldian_finch_2024.rda
 Contains Gouldian finch occurrence records across all states in Australia.
- gouldian_finch_2024_ws.rda
 An enhanced version of the occurrence data, merged with the nearest weather station information, including:

```
--Station ID (weather_station_id)
--Station name (stname)
--Geographic details (lat.y, lon.y, address, city, state)
```

- gouldian_finch_top_weather.rda
 Focuses on weather data from the top 3 most frequently recorded stations associated with Gouldian finch occurrences.
- weather_stations.rda
 A standalone dataset of all unique weather stations in Australia, providing reference metadata for cross-referencing.