

Golden-shouldered parrot



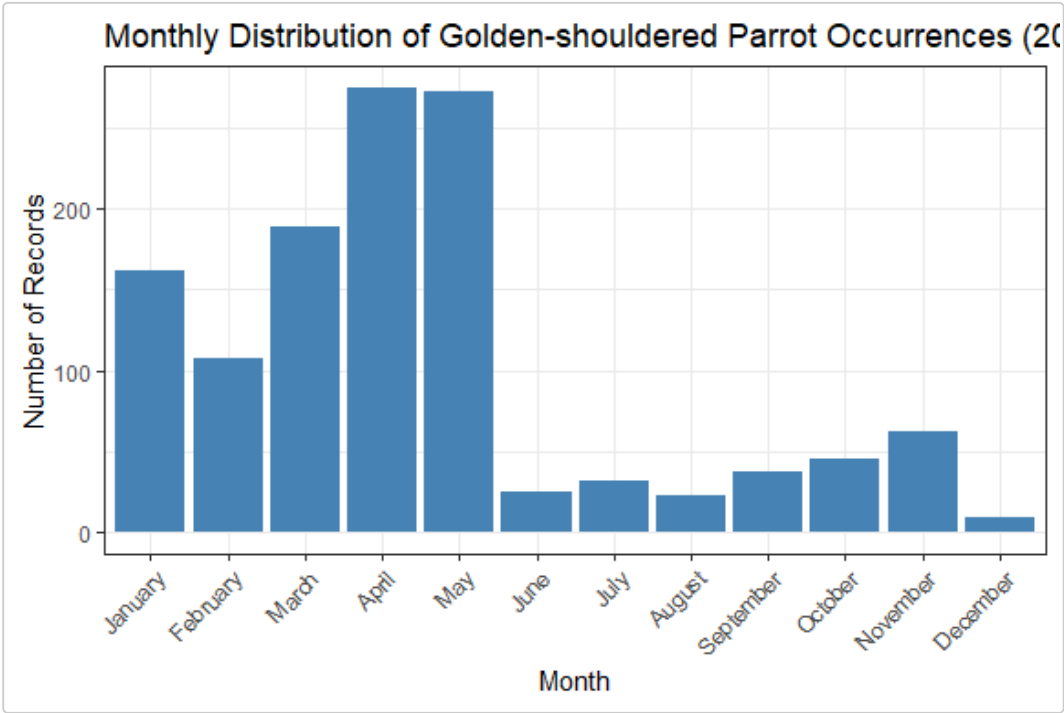
Golden-shouldered Parrot

We are investigating occurrence data of [Golden-shouldered parrot](#) in Australia from the **Atlas of Living Australia**, and make a map showing the spatial locations of sightings for 2024.

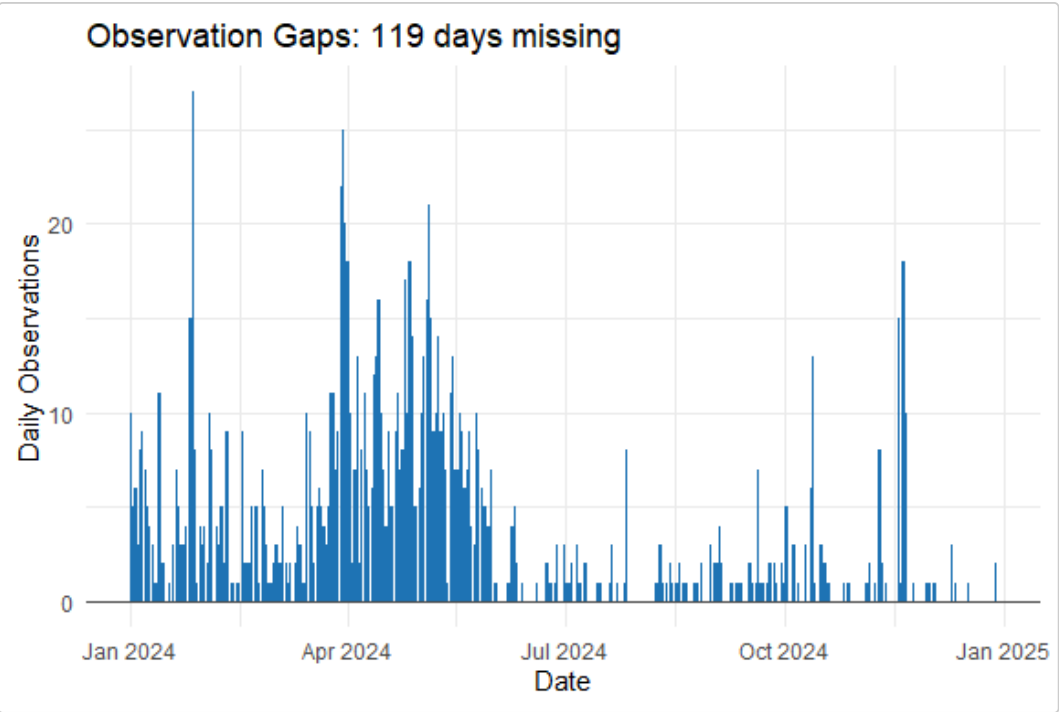
```
#> # A tibble: 6 × 5
#>   lat lon year eventDate      scientificName
#>   <dbl> <dbl> <dbl> <dtm>      <chr>
#> 1 -36.5 142. 2024 2024-03-16 12:31:00 Psephotellus varius
#> 2 -36.1 142. 2024 2024-05-25 15:46:00 Psephotellus varius
#> 3 -35.8 142. 2024 2024-05-16 10:49:00 Psephotellus varius
#> 4 -35.6 142. 2024 2024-01-26 16:15:00 Psephotellus varius
#> 5 -35.6 141. 2024 2024-03-16 11:43:00 Psephotellus varius
#> 6 -35.6 141. 2024 2024-03-16 11:43:00 Psephotellus varius
```

the length of the records is 1236

Monthly Distribution of organism (2024)



Data Regularity & Temporal Gaps



Nearest Weather Station Mapping

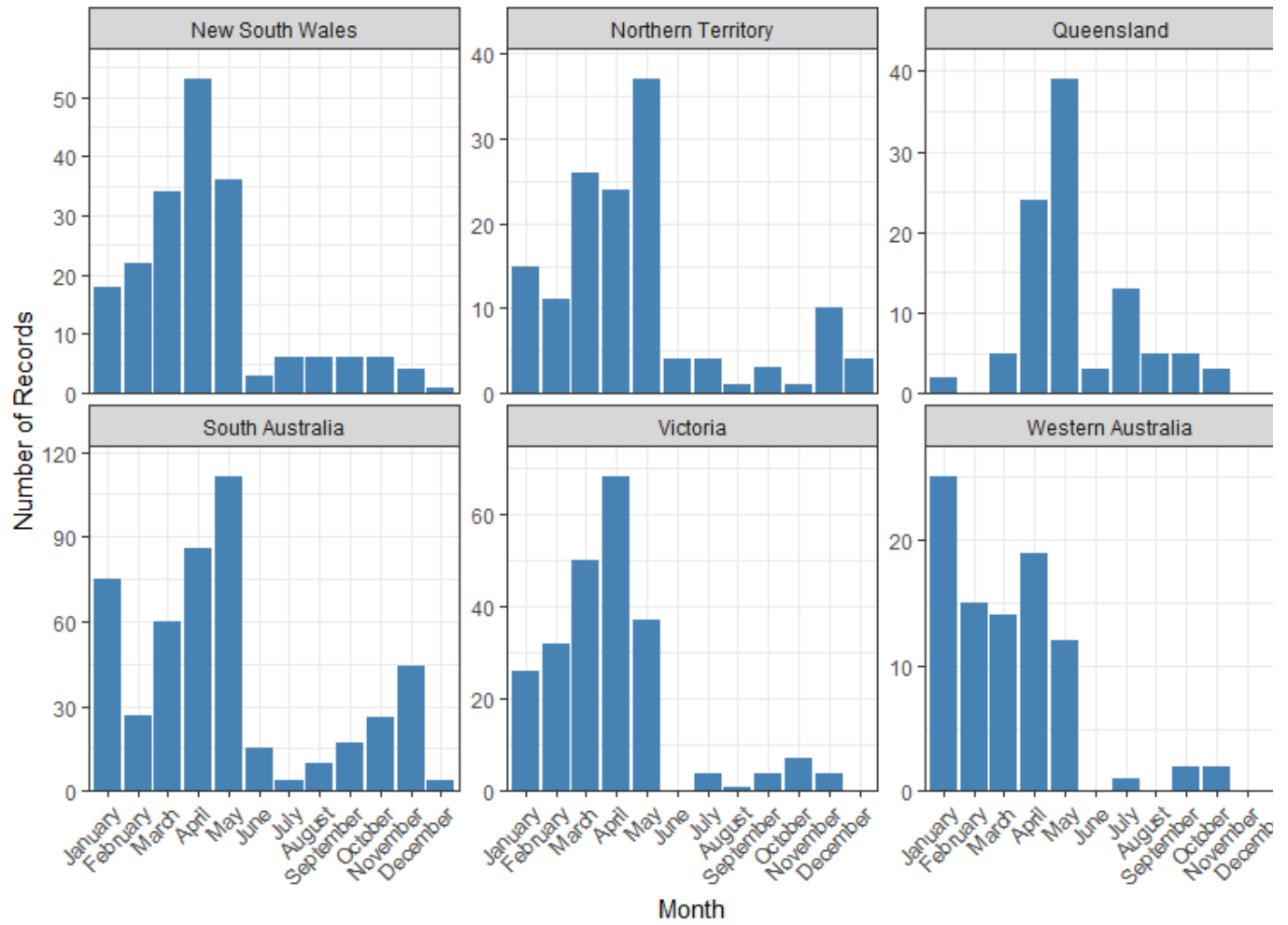
```
#> # A tibble: 3 × 12
#>   lat.x lon.x year eventDate scientificName weather_station_id stname
#>   <dbl> <dbl> <dbl> <dtm>         <chr>          <chr>          <chr>
#> 1 -36.5  142.  2024 2024-03-16 12:31:00 Psephotellus ... 948270-99999 NHILL...
#> 2 -36.1  142.  2024 2024-05-25 15:46:00 Psephotellus ... 948270-99999 NHILL...
#> 3 -35.8  142.  2024 2024-05-16 10:49:00 Psephotellus ... 948380-99999 HOPET...
```

#> # i 5 more variables: lat.y <dbl>, lon.y <dbl>, address <chr>, city <chr>,
#> # state <chr>

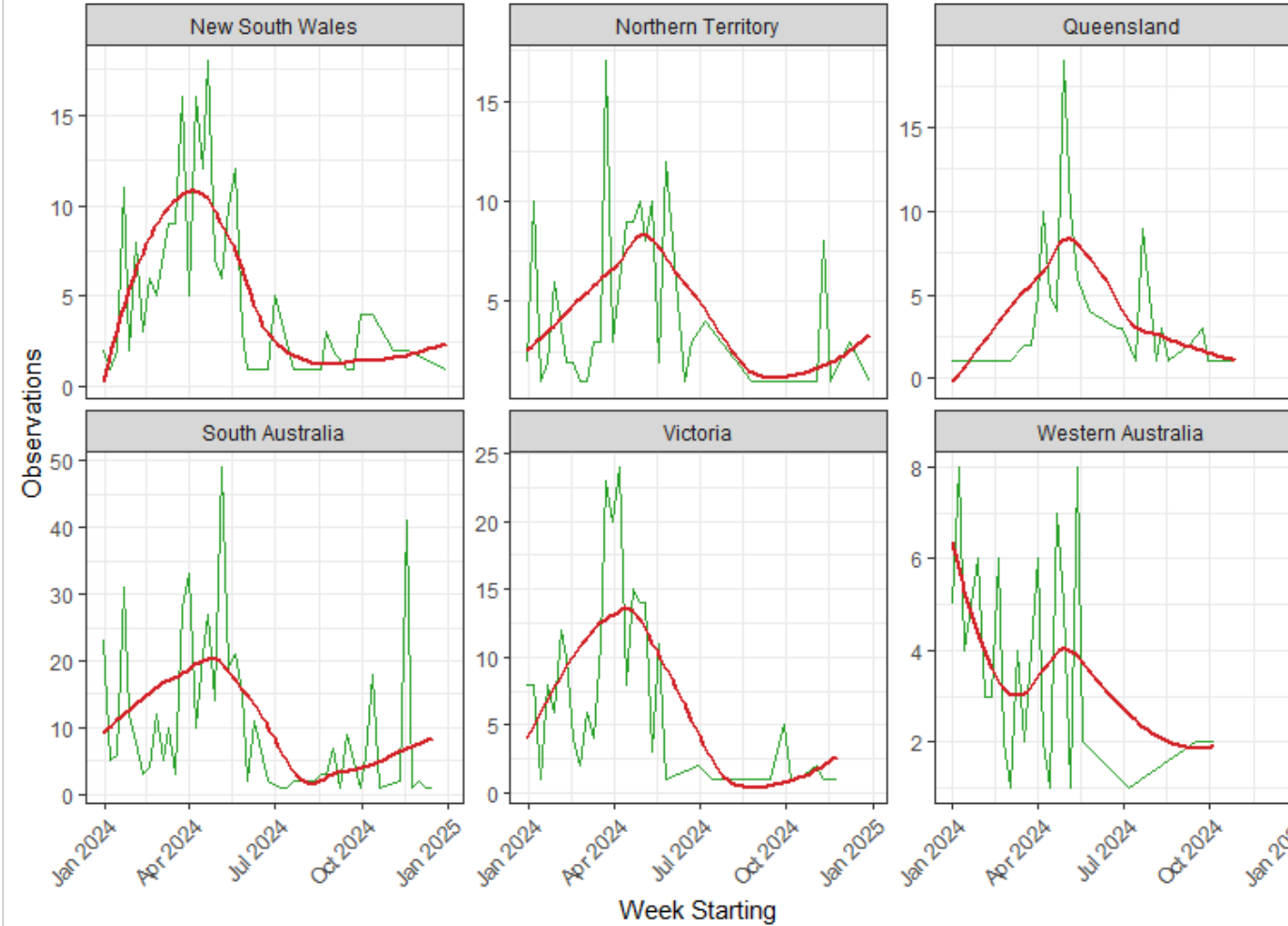
```
#>           State Frequency
#> 1 South Australia      479
#> 2 Victoria            233
#> 3 New South Wales     195
#> 4 Northern Territory  140
#> 5 Queensland           99
#> 6 Western Australia   90
```

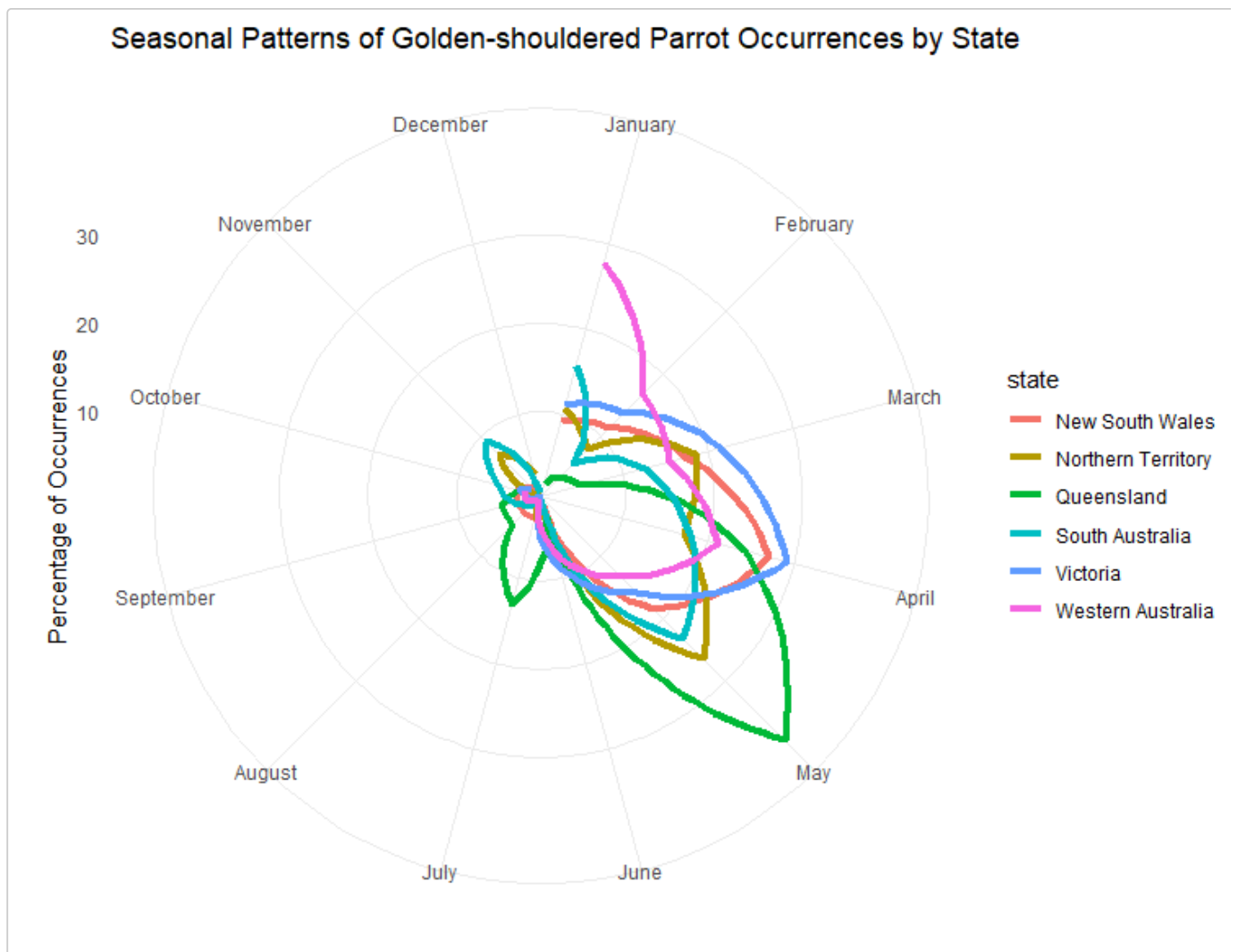
Pattern Analysis

Monthly Distribution of Golden-shouldered Parrot Occurrences (2024) by State



Weekly Occurrence Patterns of Golden-shouldered Parrot (2024) with Trend Lines





Datasets Overview

We have organized the Golden-shouldered parrot occurrence and weather station data into the following structured datasets, stored in the `data/` directory:

- `golden_shouldered_parrot_2024.rda`
Contains Golden-shouldered parrot occurrence records across all states in Australia.
- `golden_shouldered_parrot_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 (sname)
--Geographic details (lat.y, lon.y, address, city, state)
```
- `golden_shouldered_parrot_top_weather.rda`
Focuses on weather data from the top 3 most frequently recorded stations associated with Golden-shouldered parrot occurrences.
- `weather_stations.rda`
A standalone dataset of all unique weather stations in Australia, providing reference metadata for cross-referencing.