

Southern black-throated finch



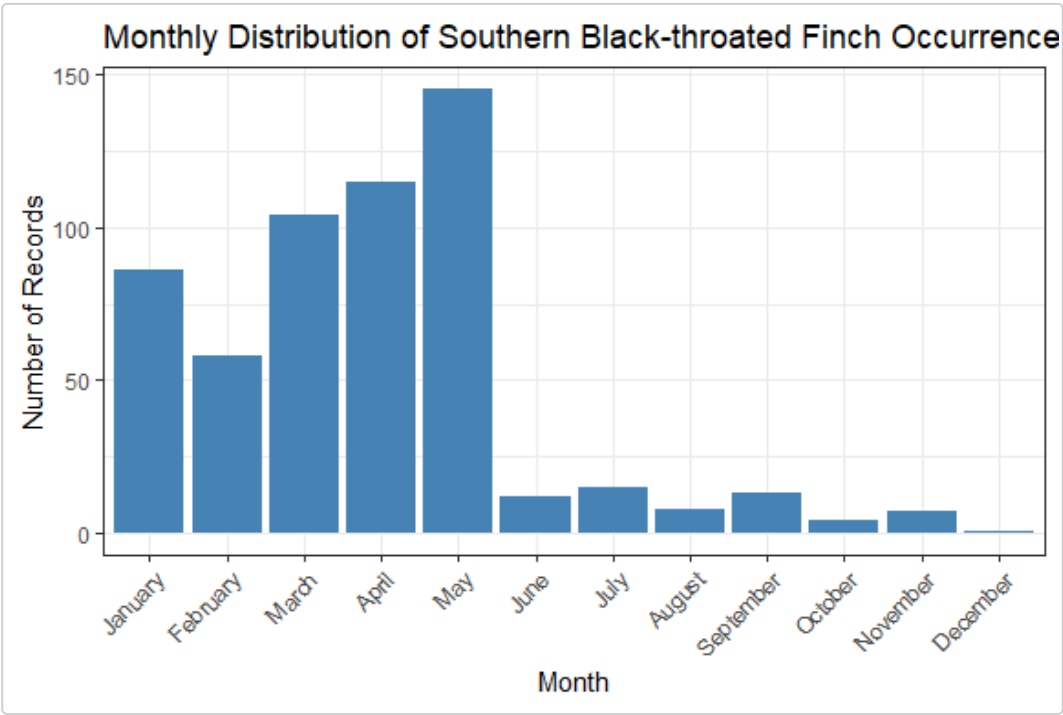
Southern Black-throated Finch

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

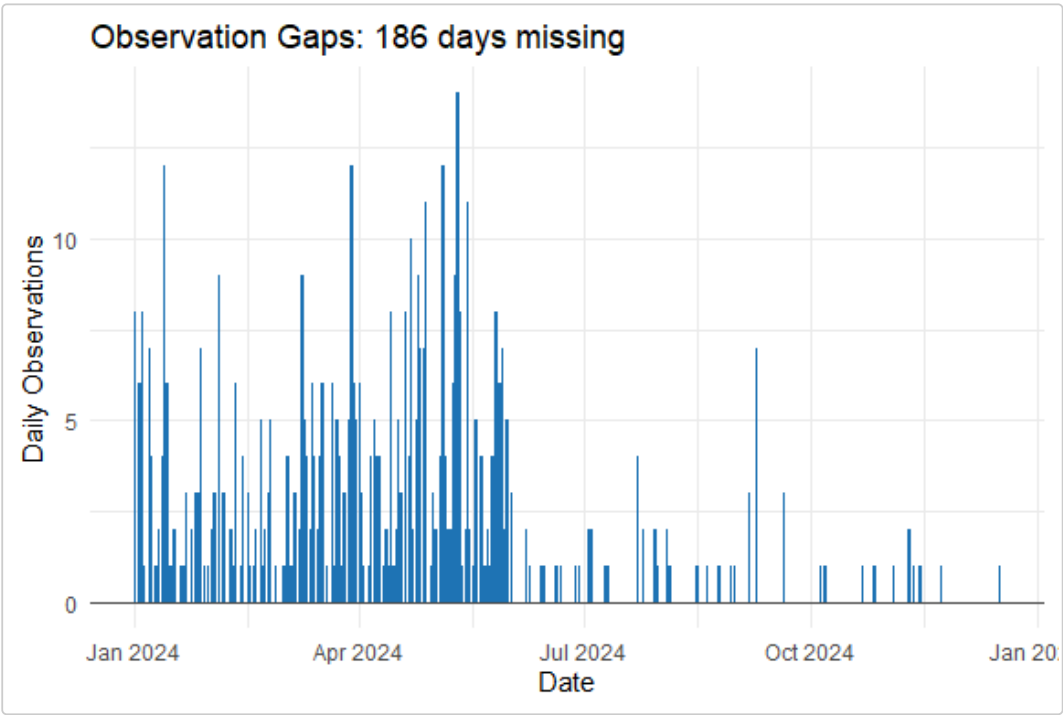
```
#> # A tibble: 6 × 5
#>   lat lon year eventDate      scientificName
#>   <dbl> <dbl> <dbl> <dtm>      <chr>
#> 1 -30.9 149. 2024 2024-12-17 00:00:00 Poephila (Poephila) acuticauda
#> 2 -21.0 140. 2024 2024-08-04 13:39:00 Poephila (Poephila) acuticauda
#> 3 -20.9 140. 2024 2024-08-04 13:39:00 Poephila (Poephila) cincta
#> 4 -20.7 140. 2024 2024-05-07 14:00:00 Poephila (Poephila) acuticauda
#> 5 -20.6 140. 2024 2024-04-24 07:38:00 Poephila (Poephila) acuticauda
#> 6 -20.6 140. 2024 2024-05-15 16:01:00 Poephila (Poephila) acuticauda
```

the length of the records is 568

Monthly Distribution of organism (2024)



Data Regularity & Temporal Gaps



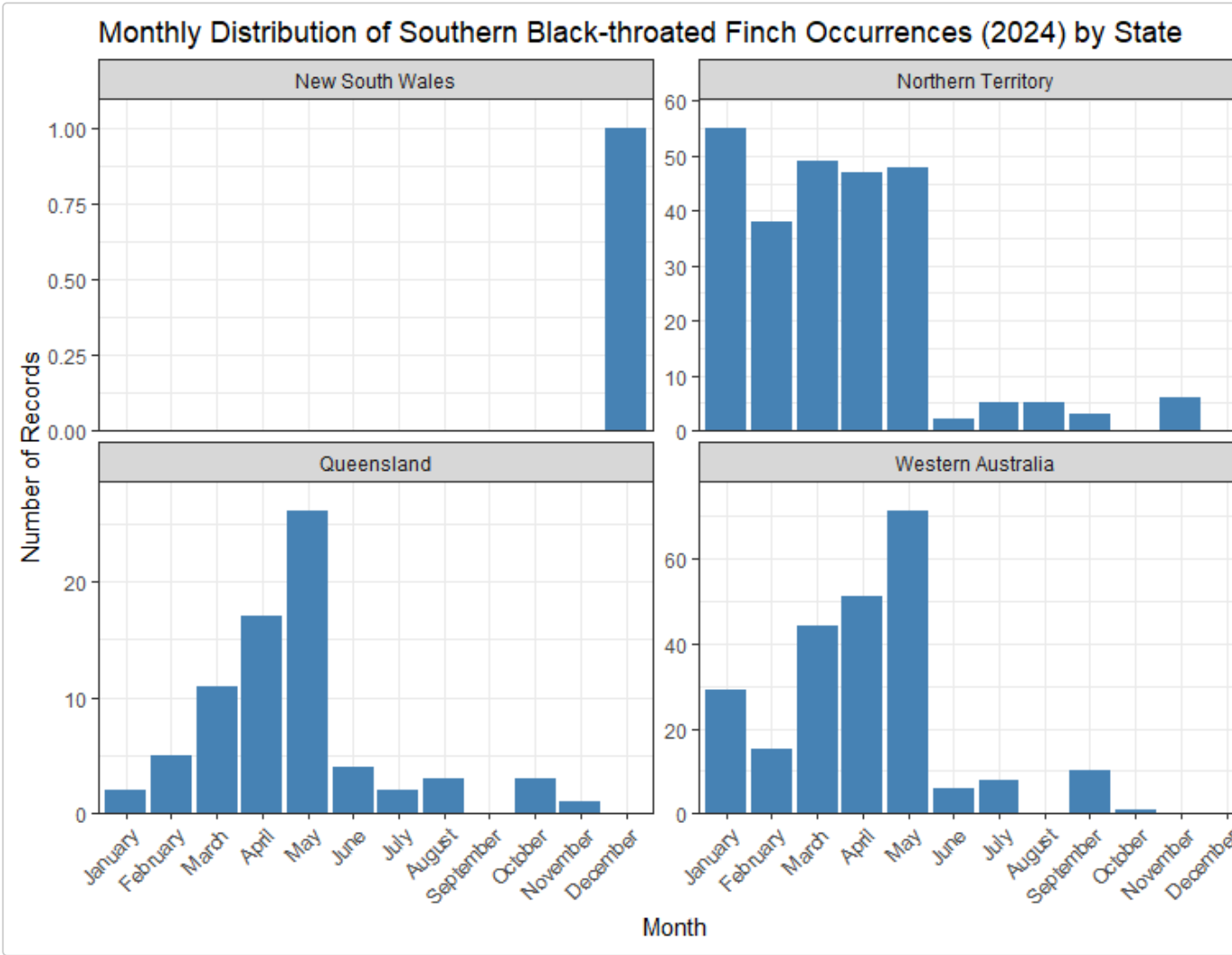
Nearest Weather Station Mapping

```
#> # A tibble: 3 x 12
#>   lat.x lon.x year eventDate      scientificName weather_station_id stname
#>   <dbl> <dbl> <dbl> <dtm>      <chr>          <chr>          <chr>
#> 1 -30.9  149.  2024 2024-12-17 00:00:00 Poephila (Poe... 947280-99999 COONA...
#> 2 -21.0  140.  2024 2024-08-04 13:39:00 Poephila (Poe... 943320-99999 MOUNT...
#> 3 -20.9  140.  2024 2024-08-04 13:39:00 Poephila (Poe... 943320-99999 MOUNT...
```

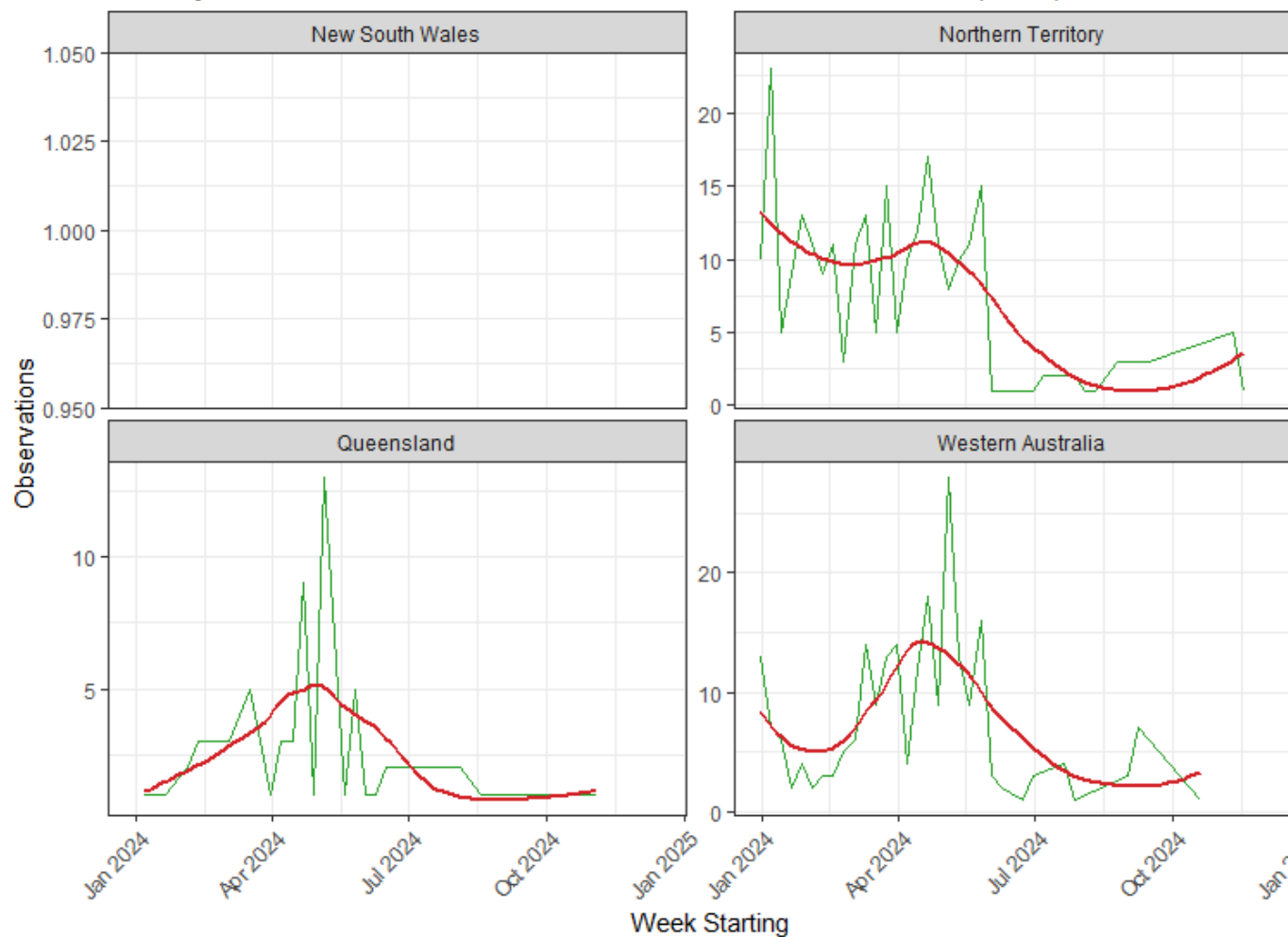
```
#> # i 5 more variables: lat.y <dbl>, lon.y <dbl>, address <chr>, city <chr>,  
#> # state <chr>
```

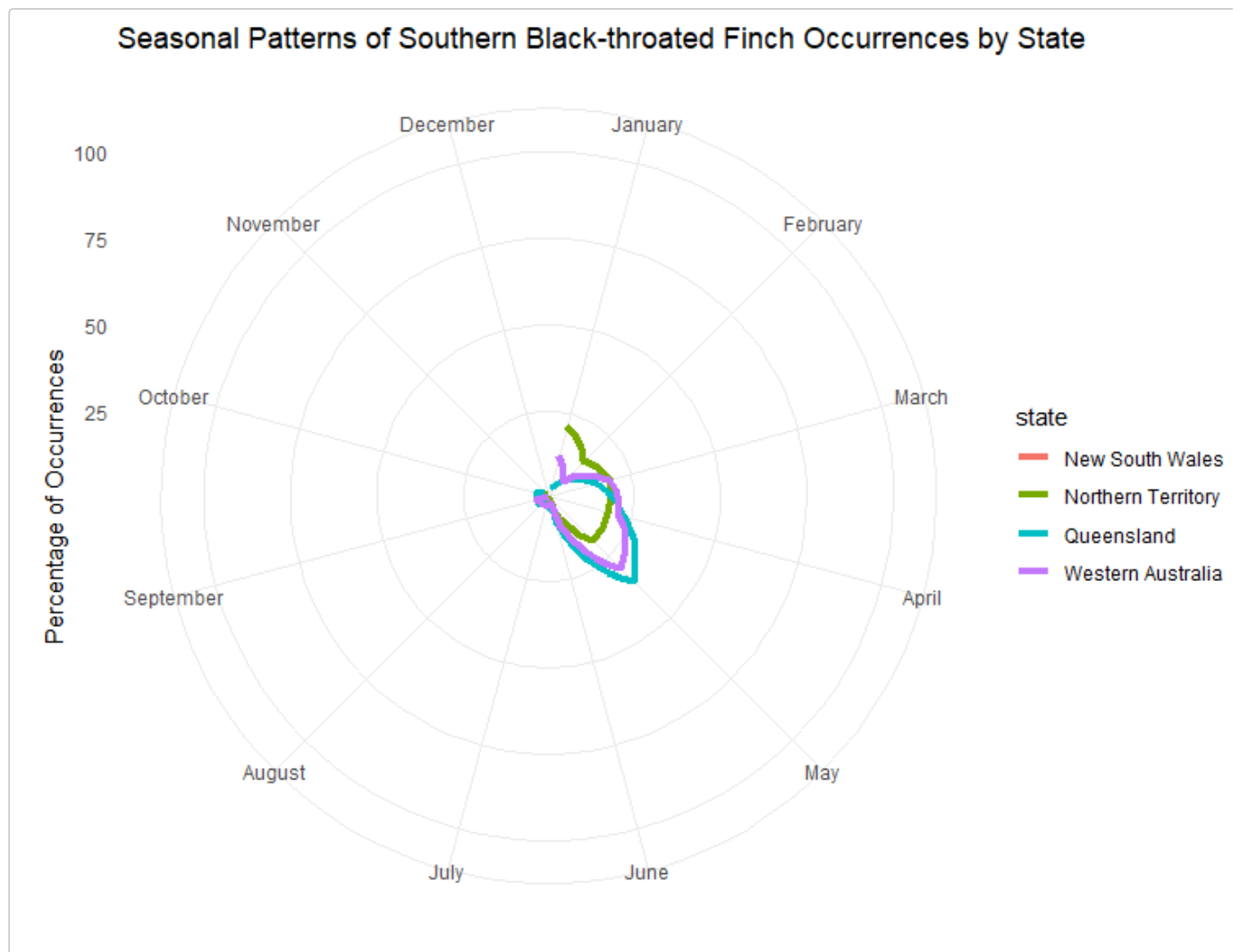
```
#>           State Frequency  
#> 1 Northern Territory      258  
#> 2 Western Australia      235  
#> 3 Queensland             74  
#> 4 New South Wales         1
```

Pattern Analysis



Weekly Occurrence Patterns of Southern Black-throated Finch (2024) with Trend Line





Datasets Overview

We have organized the Southern black-throated finch occurrence and weather station data into the following structured datasets, stored in the `data/` directory:

- `southern_black_throated_finch_2024.rda`
Contains Southern black-throated finch occurrence records across all states in Australia.
- `southern_black_throated_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 (sname)
--Geographic details (lat.y, lon.y, address, city, state)
```
- `southern_black_throated_finch_top_weather.rda`
Focuses on weather data from the top 3 most frequently recorded stations associated with Southern black-throated finch occurrences.
- `weather_stations.rda`
A standalone dataset of all unique weather stations in Australia, providing reference metadata for cross-referencing.