Salt Water Crocodiles

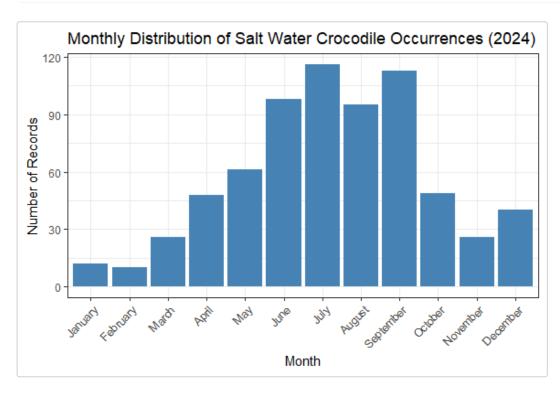


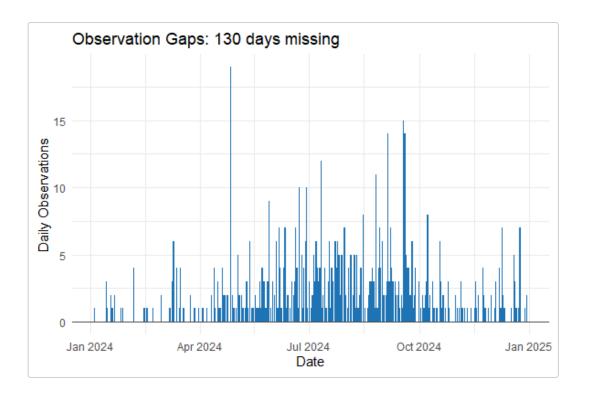
Salt Water Crocodile

We are investigating occurrence data of the <u>Salt water crocodile</u> in Australia from the **Atlas of Living Australia**, and make a map showing the spatial locations of sightings for 2024.

the length of the records is 694

Monthly Distribution of organism (2024)



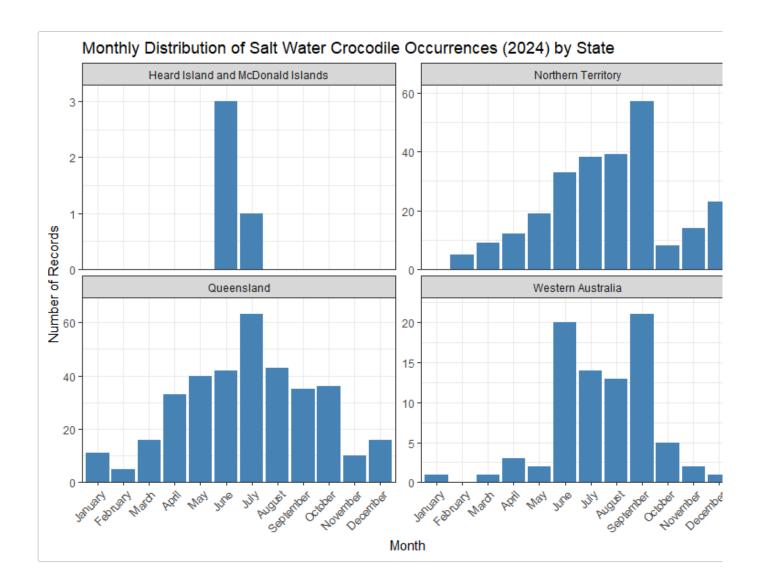


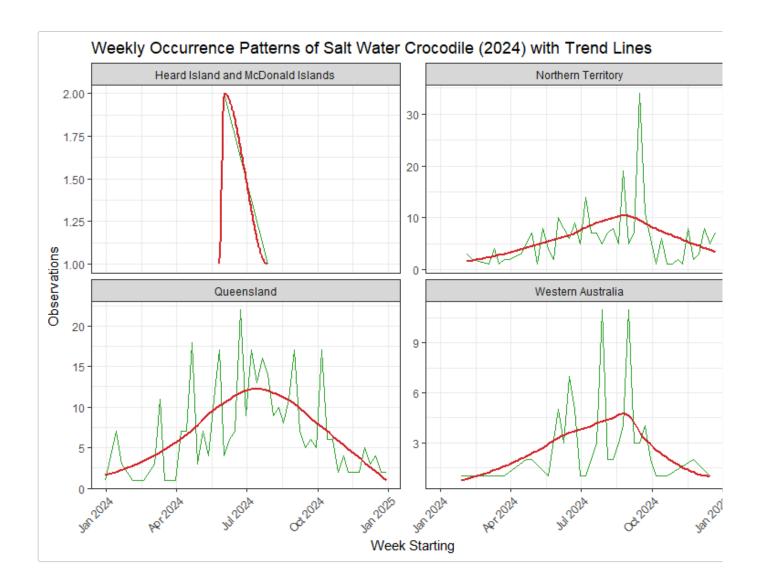
Nearest Weather Station Mapping

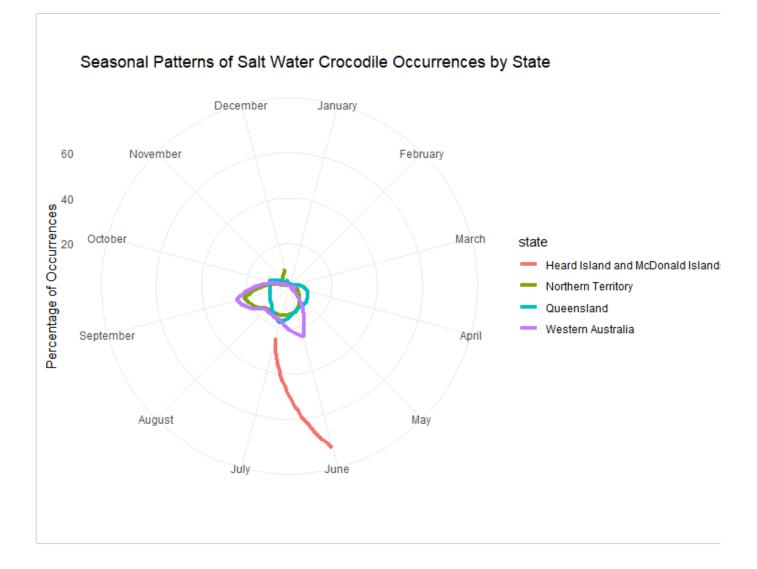
```
#> # A tibble: 3 × 12
   lat.x lon.x year eventDate
                                         scientificName weather_station_id stname
    <dbl> <dbl> <dttm>
                                         <chr>>
                                                       <chr>
                                                                          <chr>>
#> 1 -25
           31.6 2024 2024-06-02 12:38:00 Crocodylus
                                                       949970-99999
                                                                          HEARD...
#> 2 -25 31.6 2024 2024-06-01 17:14:00 Crocodylus 949970-99999
                                                                          HEARD...
#> 3 -24.4 31.5 2024 2024-06-06 12:43:00 Crocodylus
                                                       949970-99999
                                                                          HEARD...
#> # i 5 more variables: lat.y <dbl>, lon.y <dbl>, address <chr>, city <chr>,
#> # state <chr>
```

#>	State I	Frequency
#> 1	Queensland	350
#> 2	Northern Territory	257
#> 3	Western Australia	83
#> 4	Heard Island and McDonald Islands	4

Pattern Analysis







Datasets Overview

We have organized the salt water crocodile occurrence and weather station data into the following structured datasets, stored in the data/ directory:

- saltwater_crocodiles_2024.rda
 Contains salt water crocodile occurrence records across all states in Australia.
- saltwater_crocodiles_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)
```

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