# Whale Sharks

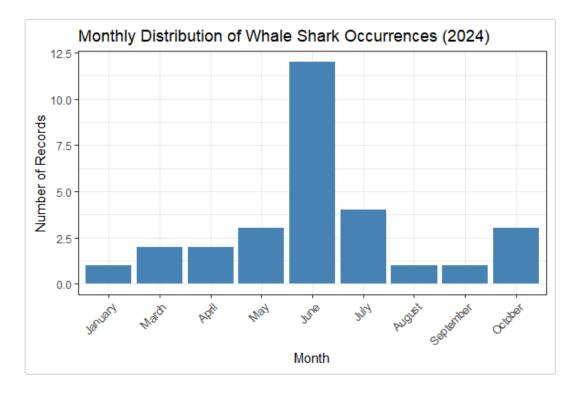


Whale Shark

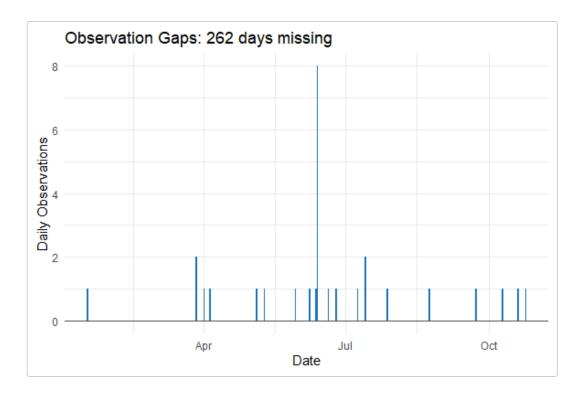
We are investigating occurrence data of the Whale Shark (Rhincodon typus) in Australia from the Atlas of Living Australia, and make a map showing the spatial locations of sightings for 2024.

the length of the records is 29

## Monthly Distribution of organism (2024)



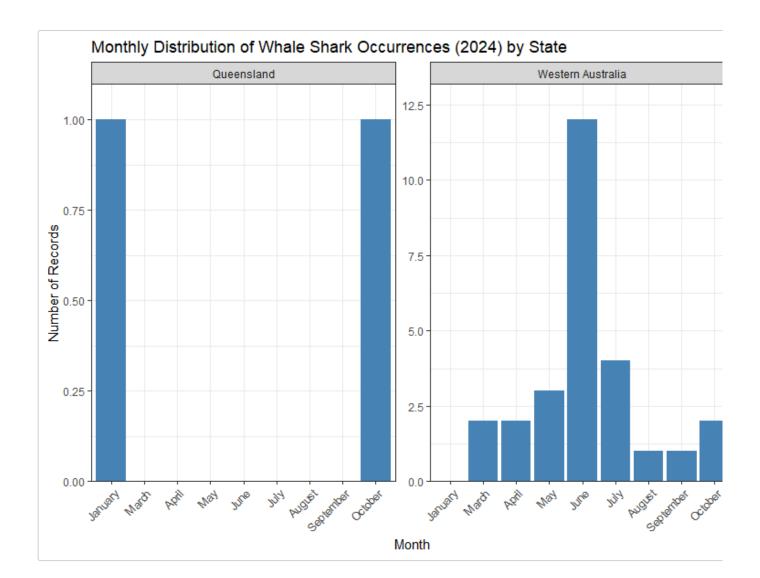
## **Data Regularity & Temporal Gaps**

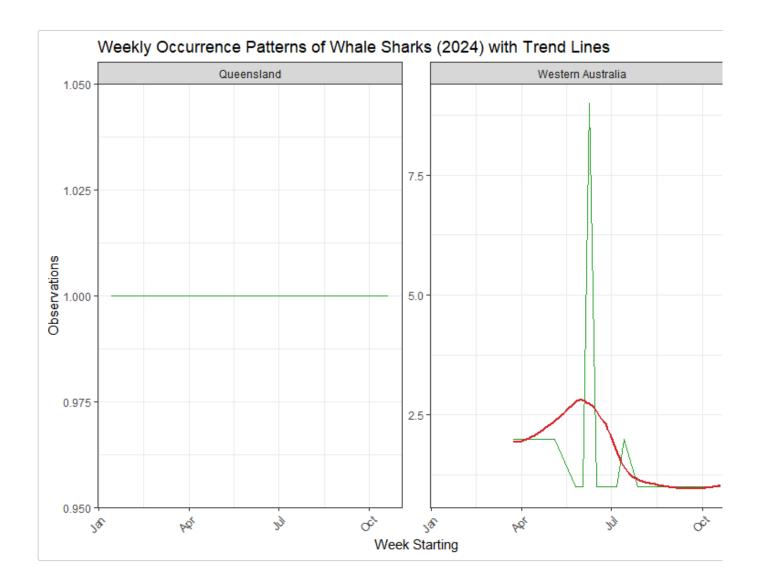


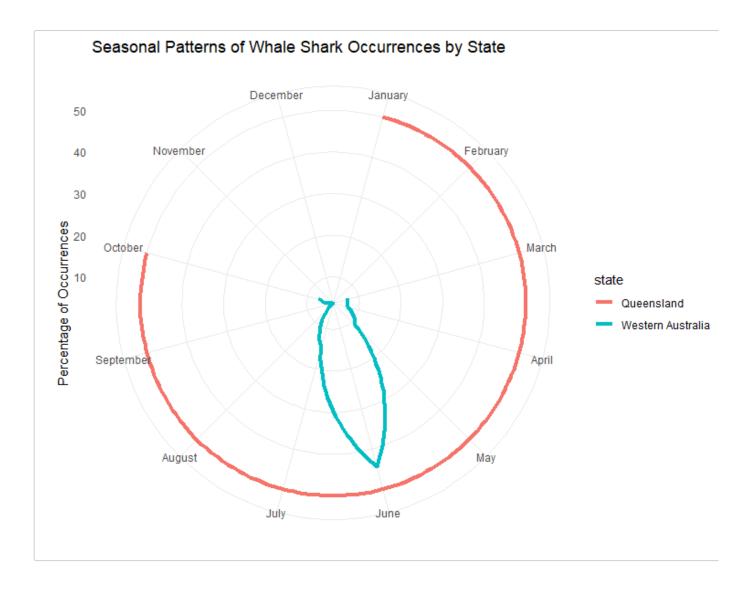
#### **Nearest Weather Station Mapping**

```
#> State Frequency
#> 1 Western Australia 27
#> 2 Queensland 2
```

### **Pattern Analysis**







#### **Datasets Overview**

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

- whale\_sharks\_2024.rda
   Contains whale shark occurrence records across all states in Australia.
- whale\_sharks\_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)
```

- whale\_sharks\_top\_weather.rda
   Focuses on weather data from the top 3 most frequently recorded stations associated with whale shark occurrences.
- weather\_stations.rda
   A standalone dataset of all unique weather stations in Australia, providing reference metadata for cross-referencing.