

# Birds Migration Patterns

Cover-Birds Migration Patterns

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Source : Bird Migration Dataset from [Kaggle](#)

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# Bird Migration Overview



53%

Success Rate (%)

253

Total Migrations

2.57K

Avg.Flight Distance

49.51

Avg.Speed (km/h)

Region

North Amer...

Migration\_Success

All

Species

Hawk

Migration\_Reason

All

## Flight Distance Distribution

Count of Bird\_ID

200

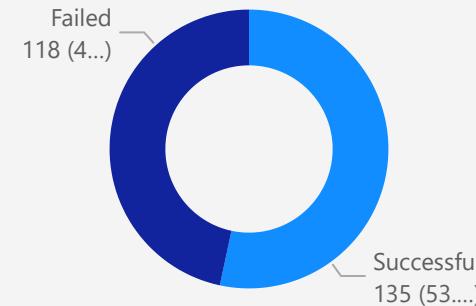
0

1501...

2000...

Distance Band

## Migration Success Breakdown



## Speed vs. Flight Distance

Pressure\_hPa ● 950.1 ● 950.6 ● 951.4 ● 951.9 ● 952.3

Average of Average\_Spe...

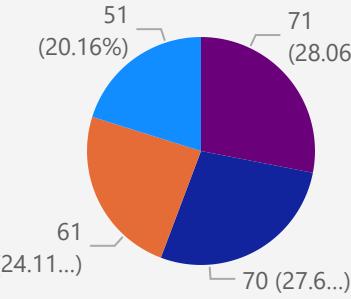
0K

2K

4K

Flight\_Distance\_km

## Migration Reasons Distribution



## Migration Start Locations

Region ● North America



## Destination Map

Region ● North America





# Species Migration Patterns



Filter by Species

 Crane  
 Eagle

Filter by Region

 Africa  
 Asia

Migration Success

 Failed  
 Successful

Hawk

Top Species

50.94%

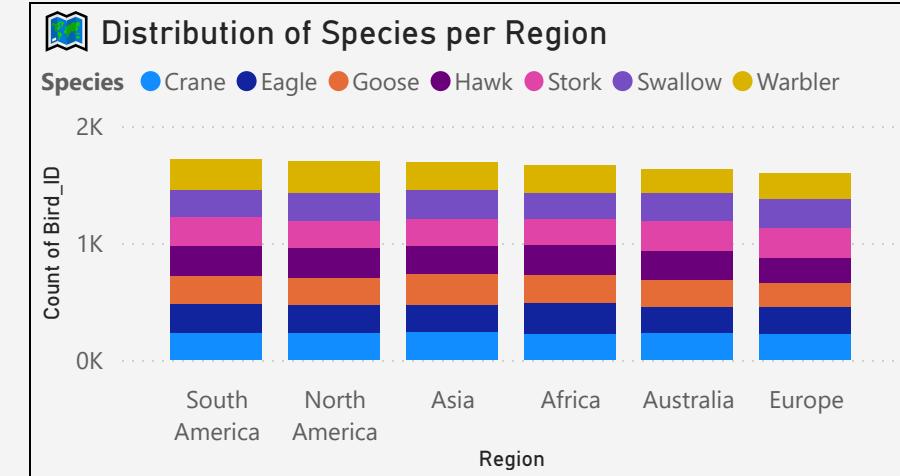
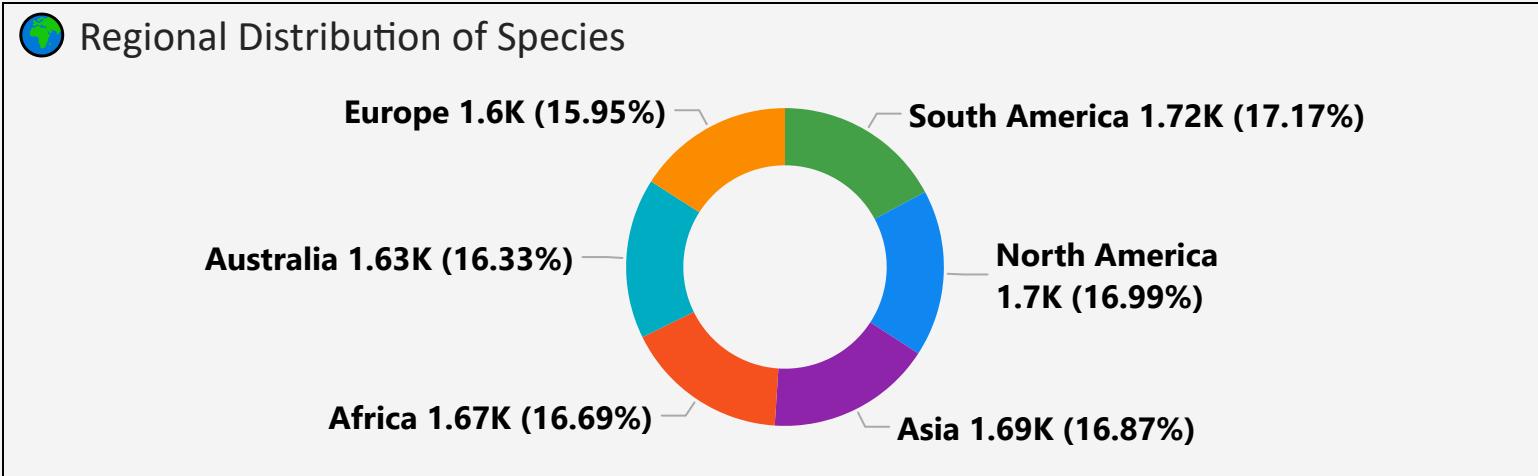
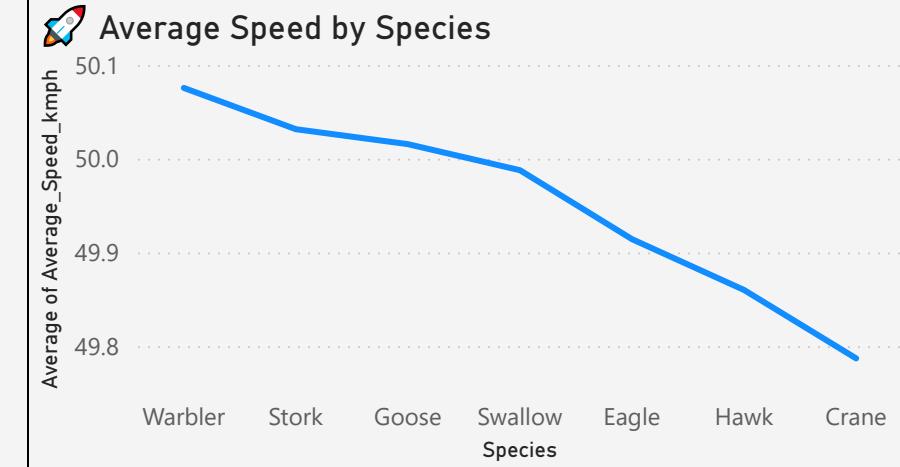
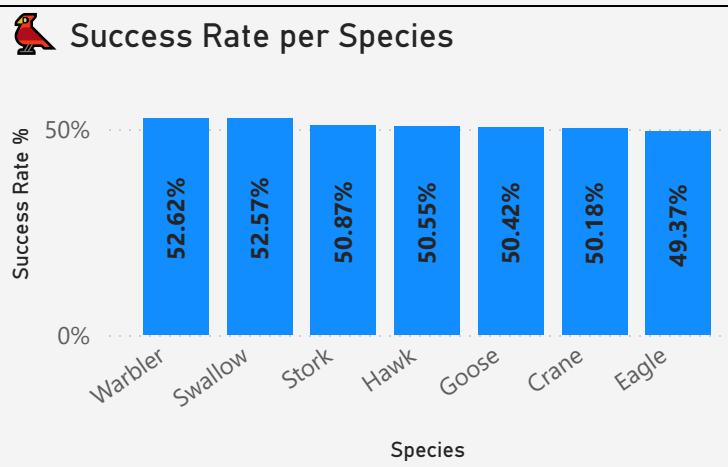
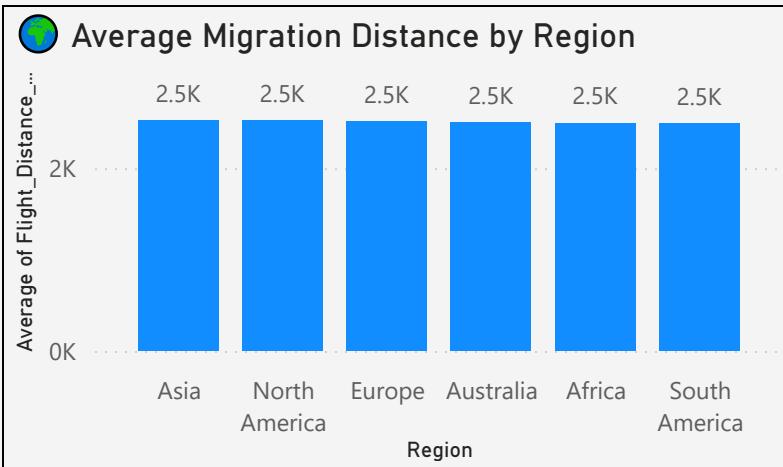
Success Rate %

South America

Top Region

10K

Total Migrations





# Environmental Factors & Migration Performance

Weather Type

Migration Success

Filter by Region

Filter by Species

**49.65**

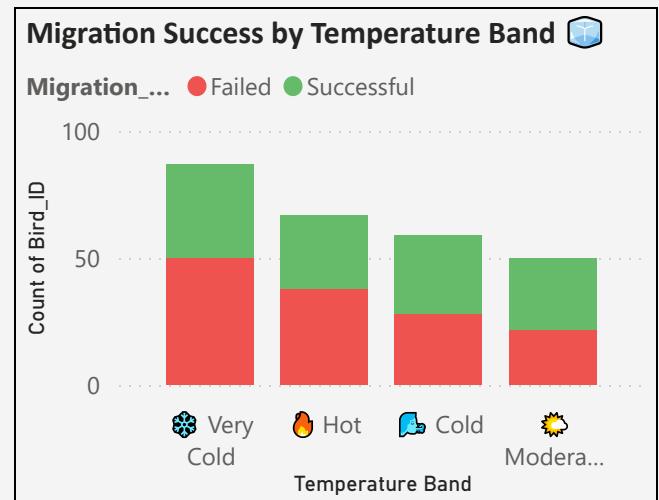
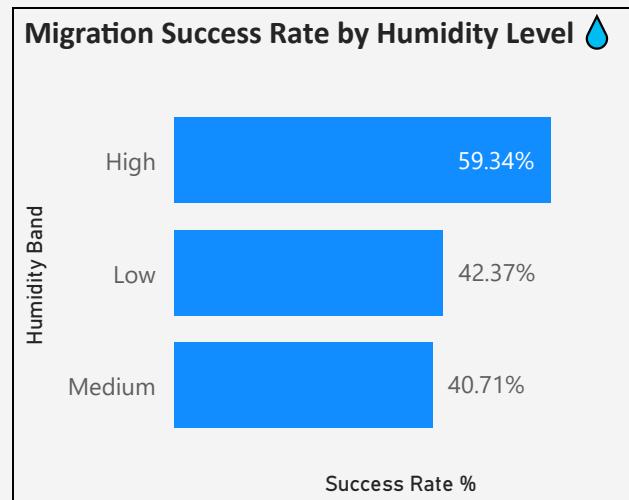
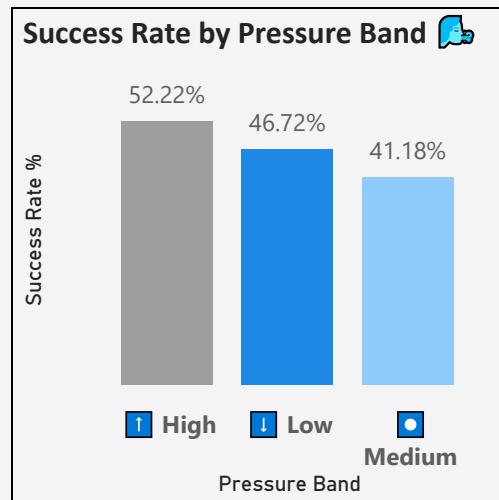
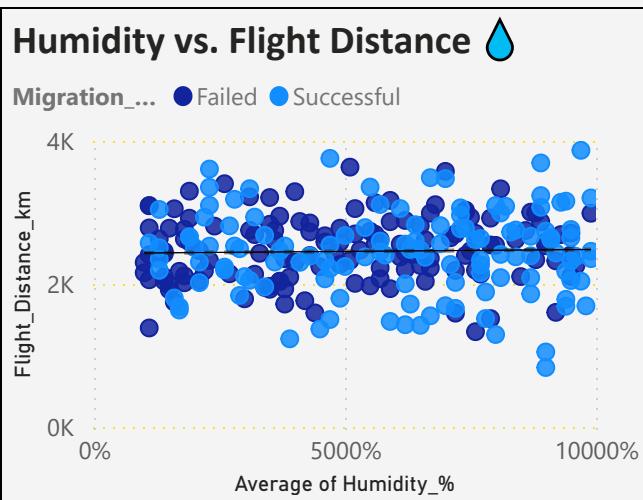
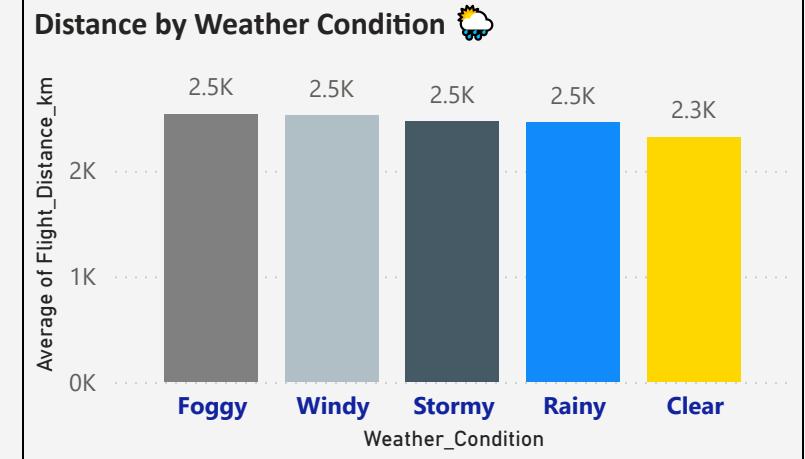
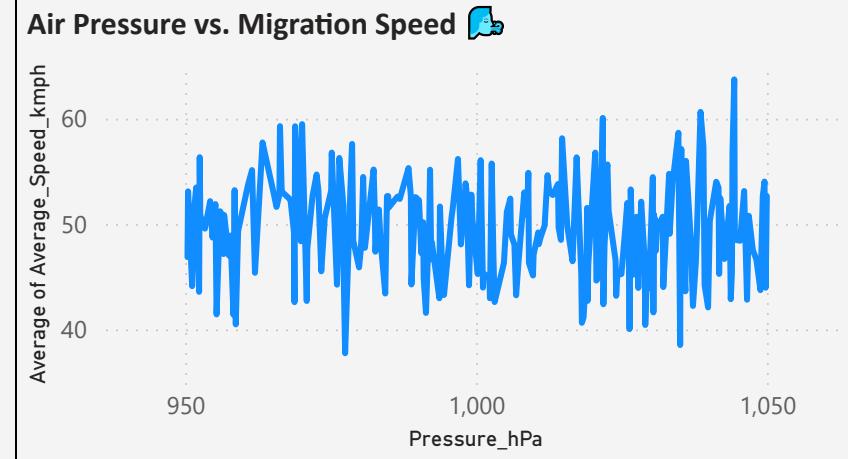
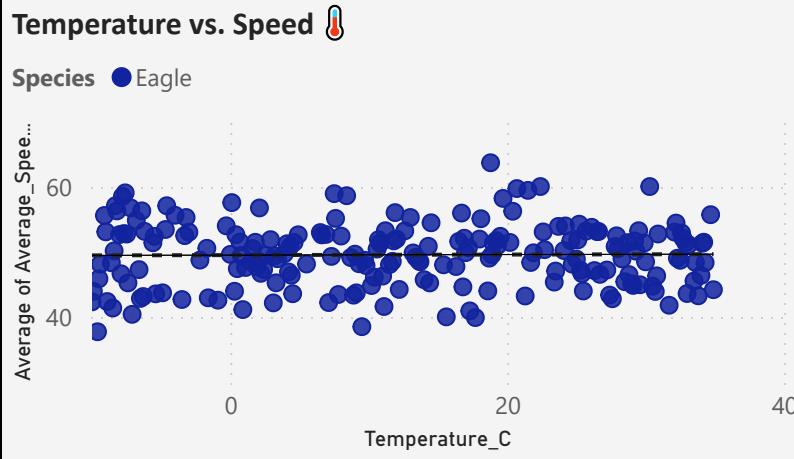
Avg.Speed (km/h)

**55%**

Avg.Humidity (%)

**12.89**

Avg.Temperature (°C)



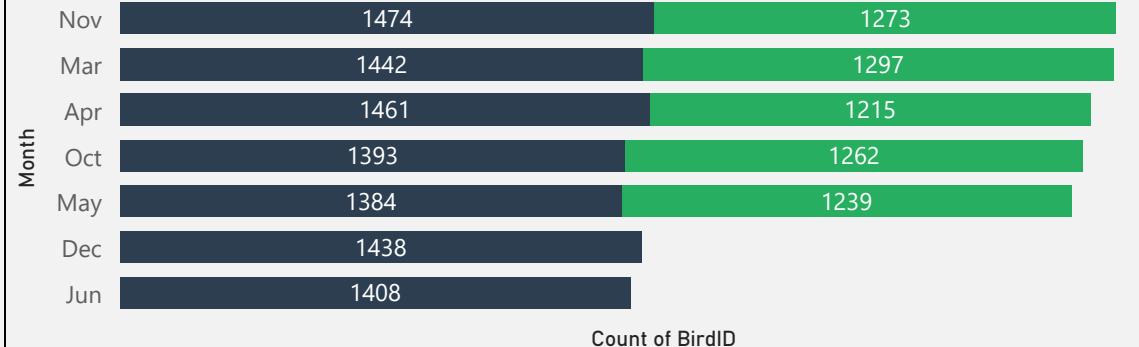


# Migration Timing Patterns by Month



## Migration Start vs. End Count by Month

Type ● End ● Start



Mar

● Most Frequent Start Month

Nov

● Most Frequent End Month

Migration Success

Failed

Successful

Species

Crane

Eagle

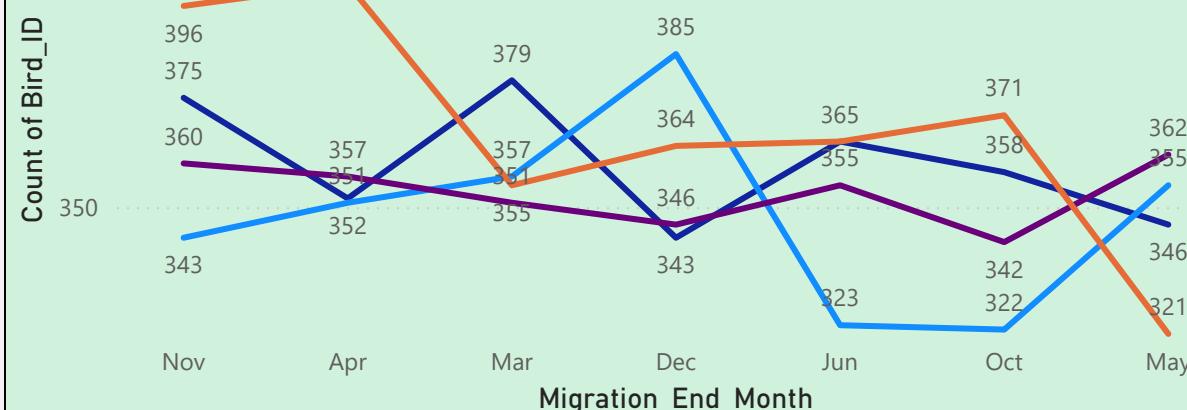
Region

Africa

Asia

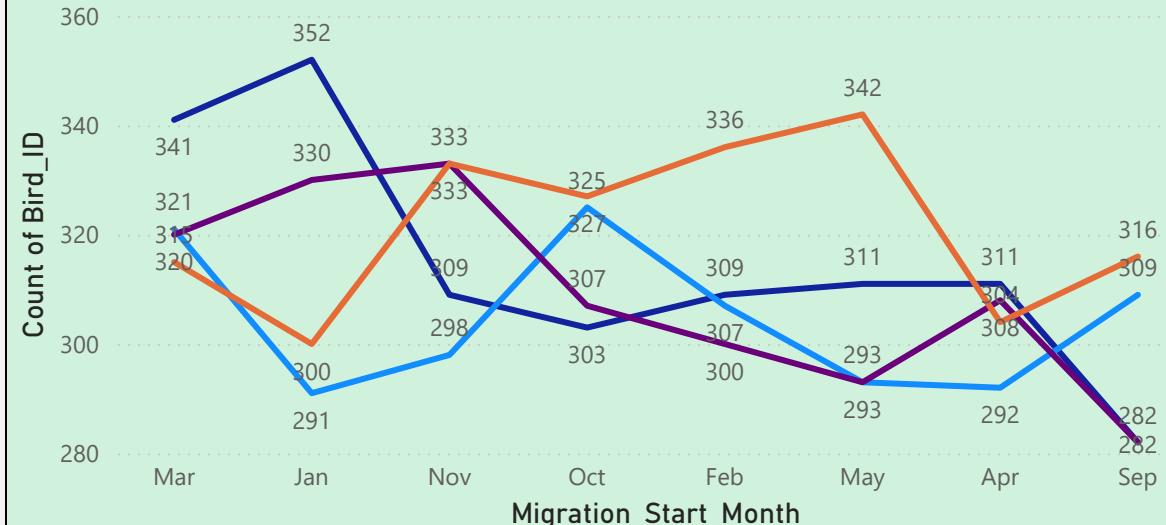
## Migration Timeline (End Month)

Migration\_Reason ● Avoid Predators ● Breeding ● Climate Change ● Feeding



## Migration Timeline (Start Month)

Migration\_Reason ● Avoid Predators ● Breeding ● Climate Change ● Feeding





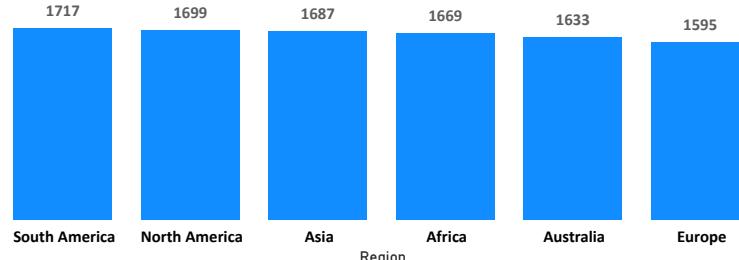
# Analysis of Migration Behavior by Geographical

**5.50K**

Average of Max\_Altitude\_m

**500.11**

Avg. Min\_Altitude\_m

**Number of migration trips per region.****Migration Success**

- Failed
- Successful

**Species**

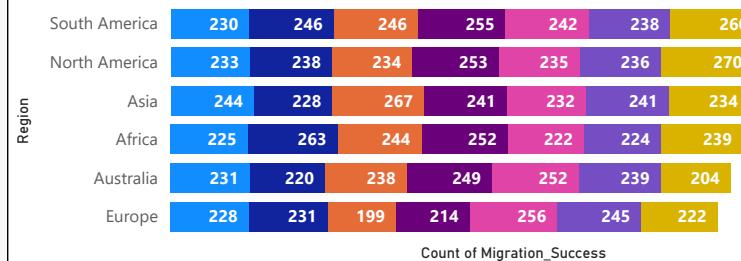
- Crane
- Eagle

**Region**

- Africa
- Asia

**Average of Min\_Altitude\_m, Average of Max\_Altitude\_m and Last Region by Species****Number of Migration Success by Region**

Species ● Crane ● Eagle ● Goose ● Hawk ● Stork ● Swallow ● Warbler

**Success rate by region**