

Bird migration

Presented by -

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Introduction

- ▶ **Bird migration** is the regular seasonal movement, often north and south along a flyway, between breeding and wintering grounds
- ▶ The path followed is known as **flyway**
- ▶ Directed from Arctic to Antarctic and vice versa
- ▶ Quite ancient activity practiced by Birds
- ▶ Recorded as many as 3,000 years ago by Ancient Greek authors, including Homer and Aristotle

Types of migration

- ▶ **Seasonal** migration is predictable based on seasonal changes
- ▶ **Latitudinal:** This migration is between areas of different latitudes from north to south and vice versa
- ▶ **Longitudinal** movement between different longitudes from east to west or west to east.
- ▶ **Altitudinal** Birds that breed in tall mountains often exhibit altitudinal migration
- ▶ **Loop** birds that follow an annual circle are loop migrants.
- ▶ **Nomadic** movement is less predictable and can be erratic depending on available food and water resources.

Why Birds need to migrate ?

Birds need to migrate for

1. Food
2. Shelter
3. Reproduction
4. Predator Avoidance
5. To Avoid Climate Extremes



Advantage of migration

- ▶ Migration provides birds with
 - I. New environment provides them with greater supply of food
 - II. They are provided with shelter and territory
 - III. Better suited environment
 - IV. Avoidance from the Predators
 - V. Reproductive success as more offspring are produced
 - VI. In this way they face different environmental conditions and can meet the needs of their young ones more efficiently.
 - VII. Moreover their survival chance occur more by evolution.



Disadvantages of bird migration

- ▶ Many young are not, able to reach the destination because they die during the course of the continuous and tiresome journey.
- ▶ Sudden changes in the climate such as storms and hurricanes, strong current of wind, fog are the causes for the death of a sizeable number of migrants.
- ▶ Sometimes man-made high towers and light houses cause the death of migratory birds.
- ▶ Man themselves are responsible for the death of the migrants. They shoot at these poor birds just for their own leisure and amusement.

Conclusion

- ▶ Birds Migrate to survive
- ▶ Migration plays important role in their Evolution
- ▶ Several Climatic Factors triggers the process of Migration
- ▶ Migration is not always advantageous
- ▶ Birds have adapted themselves for Migrations either short or long distances
- ▶ Not all the birds migrate but some of the individuals of a population migrates



Thank you