

Patterns of Migration

- ▶ The Old birds that have traveled many times in their life forms the front line
- ▶ Then comes the Young ones Traveling for the first time
- ▶ Next are the females
- ▶ Injured and old Birds are present in the back rows
- ▶ Birds tend to fly in flocks rather than to fly alone
- ▶ More Obvious pattern is V shaped
- ▶ It helps to save energy and provides max Speed



Mechanics of Migration

- ▶ Long distance migrants store fat 50% of their body weight
- ▶ Some species start journey early and stop frequently to feed and rest
- ▶ In clear weather birds fly at altitude 1000 meters
- ▶ It helps them to prevent strike with any obstacle
- ▶ Many birds have specific migration routes

Disadvantages of 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.

Advantages of Birds 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.



What we can do for migratory birds

- ▶ Eliminate the poison in your Yard
- ▶ Protect , restore & Create Habitat
- ▶ Help Migratory birds in your own yard
- ▶ Provide them food sources
- ▶ Provide them Water sources
- ▶ Provide shelter either natural or artificial



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

