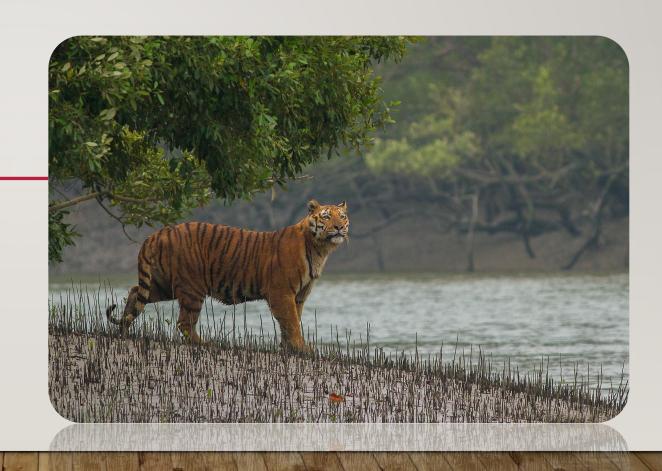
# ECOSYSTEM FUNCTION OF SUNDARBANS FOREST

PRESENTED BY : TASNIM RAHMAN MOUMITA

ID:22301689

**COURSE CODE: ENVIO3** 

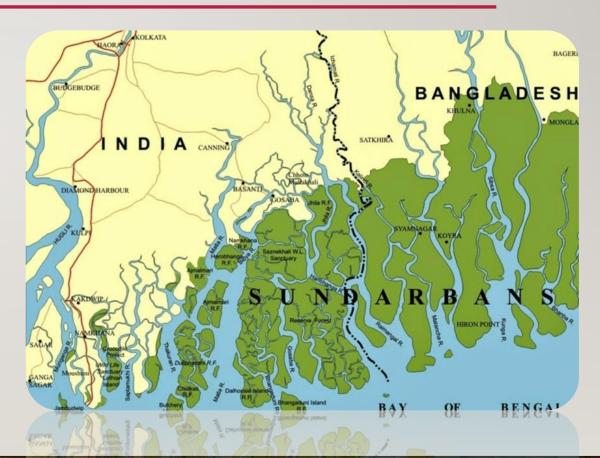
SECTION: 11



### **WELCOME TO SUNDARBANS!**

#### **I.Introduction:**

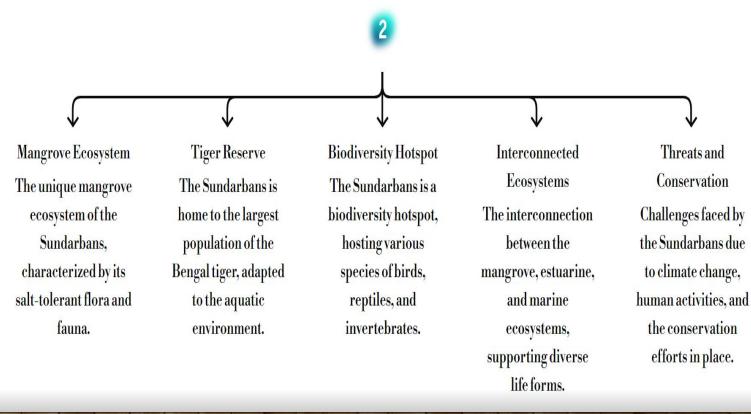
- The Sundarbans is the largest contiguous mangrove forest in the world.
- It spans the delta formed by the confluence of the Ganges, Brahmaputra, and Meghna Rivers in the Bay of Bengal.
- The forest extends from the Baleshwar River in Bangladesh's division of Khulna to the Hooghly River in India's state of West Bengal.
- It covers approximately 10,000 km², with 6,517 km² in Bangladesh and 3,483 km² in West Bengal
- This UNESCO World Heritage Site is a unique ecosystem of mangrove forests and diverse wildlife, making it a treasure trove of biodiversity.





# 2. Ecosystems in the Sundarbans Forest

Exploration of the various ecosystems in the Sundarbans forest and their distinctive features, including the associated animal diversity.



## 3. ECOLOGICAL FUNCTIONS OF THE FOREST

Discussion on how the Sundarbans forest contributes to ecological balance and its importance in maintaining biodiversity.



# 4. ECONOMIC BENEFITS OF THE SUNDARBANS

#### Rich Fisheries:

 The Sundarbans provide a thriving habitat for a variety of fish and crustaceans, contributing significantly to the local fisheries industry.

#### Tourism Potential:

 The natural beauty and diverse wildlife of the Sundarbans attract tourists, offering opportunities for ecotourism and economic growth in the region.

#### Mangrove Resources:

 The Sundarbans mangroves serve as a source of various resources such as honey, wood, and medicinal plants, supporting local livelihoods and industries.



## 5. CULTURAL IMPORTANCE OF THE SUNDARBANS



# Traditions and Rituals

The Sundarbans plays a pivotal role in preserving and shaping local traditions and rituals, deeply ingrained in the cultural fabric of the communities.



# Art and Folklore

The rich biodiversity of the Sundarbans has been a wellspring of inspiration for local art and folklore, contributing to the cultural identity of the region.



# Community Livelihoods

The Sundarbans sustains the livelihoods of numerous communities through activities such as fishing, honey collection, and traditional medicine, underpinning the local economy.



# Cultural Heritage Sites

The Sundarbans is home to historical sites and cultural landmarks that hold immense significance for the local population, showcasing the region's heritage.



# Religious Significance

The Sundarbans is intertwined with religious practices and beliefs, serving as a sacred space for various communities and faiths.





# 6. AESTHETIC VALUE AND ECOTOURISM







## 7. THREATS TO THE SUNDARBANS FOREST

#### Human Encroachment

Rapid population growth leading to increased human activities encroaching upon the forest areas.

#### Climate Change Impact

Rising sea levels and extreme weather events causing detrimental effects on the Sundarbans' delicate ecosystems.

#### Pollution and Contamination

Industrial and agricultural pollutants leading to water and soil contamination,

#### Deforestation Practices

Unsustainable logging and clearing of land for agriculture leading to the loss of vital forest cover.





## 8. MEASURES FOR SUNDARBANS FOREST SAFEGUARD



#### **Community Involvement**

Engaging local communities in forest protection initiatives to ensure sustainable practices and local ownership.



#### **Enhanced Surveillance**

Implementing advanced surveillance technologies and increasing ranger presence to deter illegal logging and poaching.



#### **Eco-Tourism Promotion**

Promoting eco-friendly tourism to generate alternative livelihoods for local communities and raise awareness about forest conservation.



#### **Policy Enforcement**

Strengthening law enforcement and imposing strict penalties for forest exploitation to deter illegal activities.



#### **Mangrove Reforestation**

Initiating large-scale mangrove reforestation projects to restore degraded areas and enhance ecosystem resilience.





#### 9.CONCLUSION

- A broad plan of action is needed to preserve the Sundarbans Forest.
- To combat serious threats like pollution, habitat loss, and climate change, international cooperation is required in addition to community involvement.
- To stop illicit activities like poaching and logging, strict laws and law enforcement are required.
- Strategies for adaptive management require ongoing research and ecosystem health monitoring.

By following these measures, we can hope for a sustainable future for the Sundarbans Forest.



# "ALONE WE CAN DO SO LITTLE; TOGETHER WE CAN DO SO MUCH." - HELEN KELLER

# **THANKYOU!**

