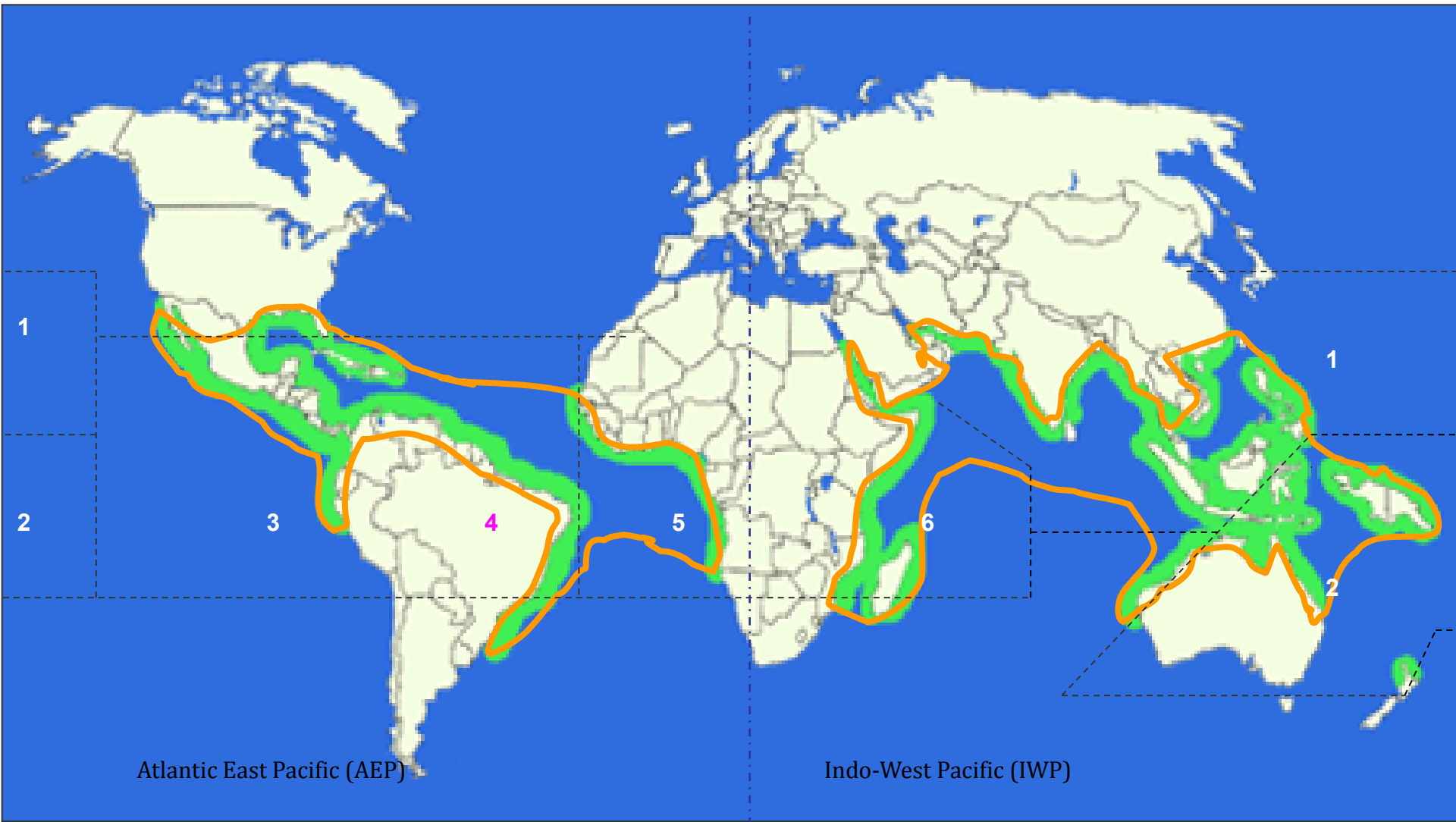


Mangrove and Wetlands Ecosystem Management in Bangladesh



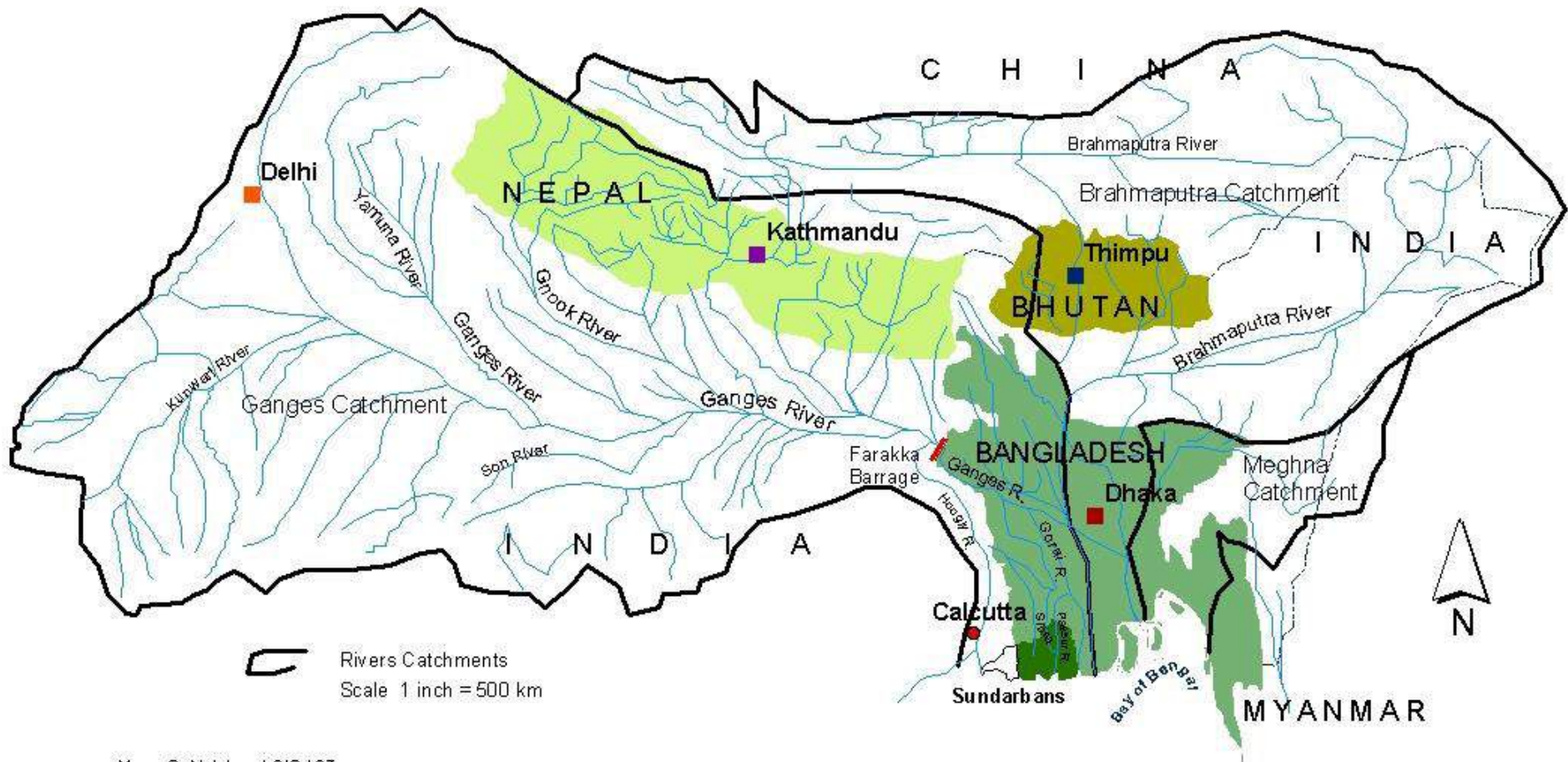
By
Dr. Shafi Noor ISLAM





Atlantic East Pacific (AEP)

Indo-West Pacific (IWP)



Map : S. N. Islam / GIS '07

The Sundarbans in the Ganges Delta





Heritiera fomes



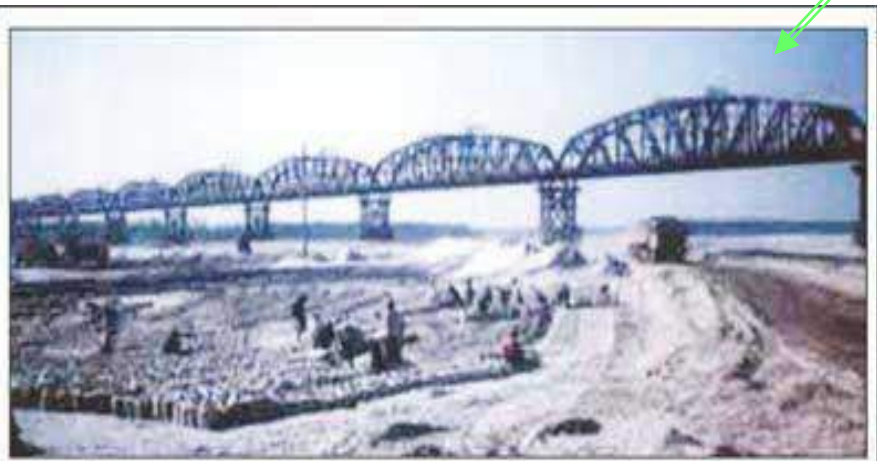
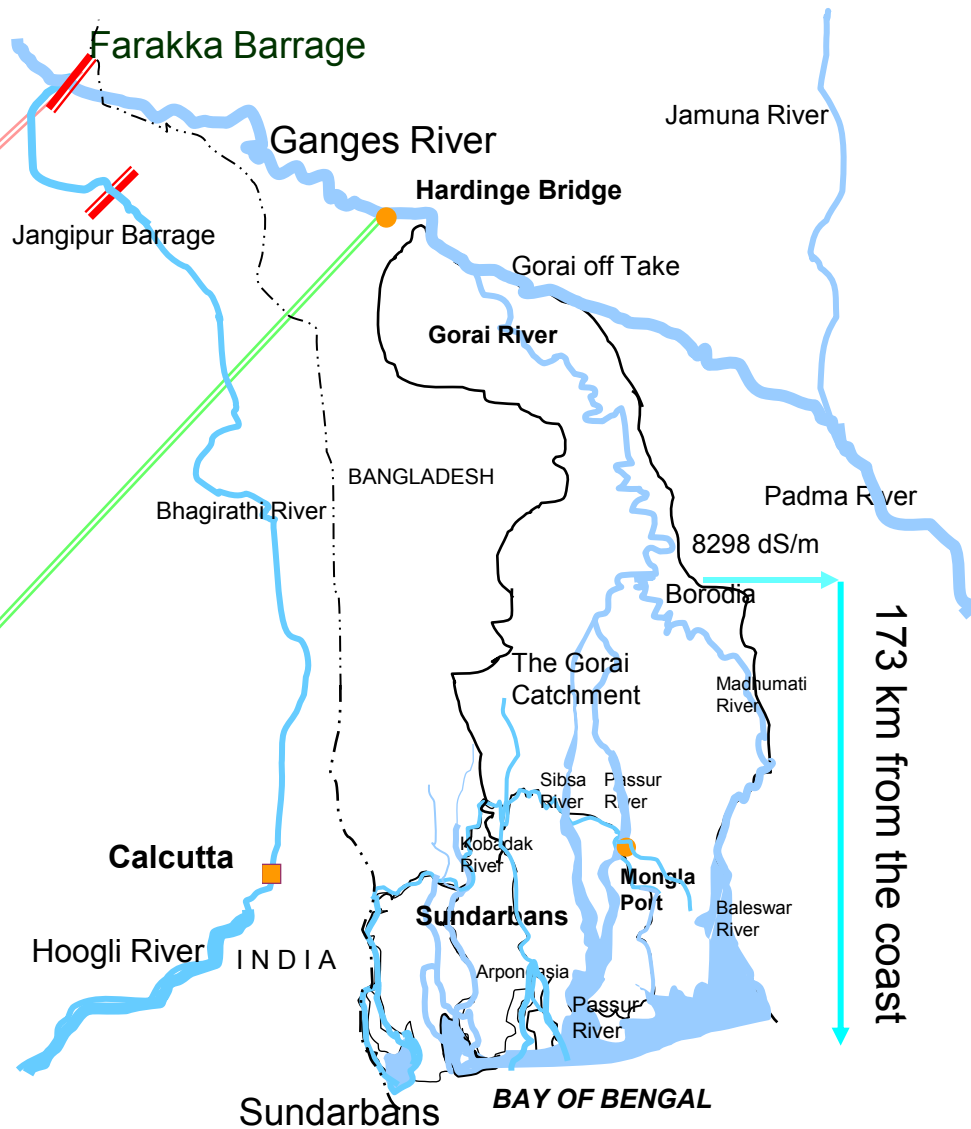
Out growth roots



Nypa fruticosa



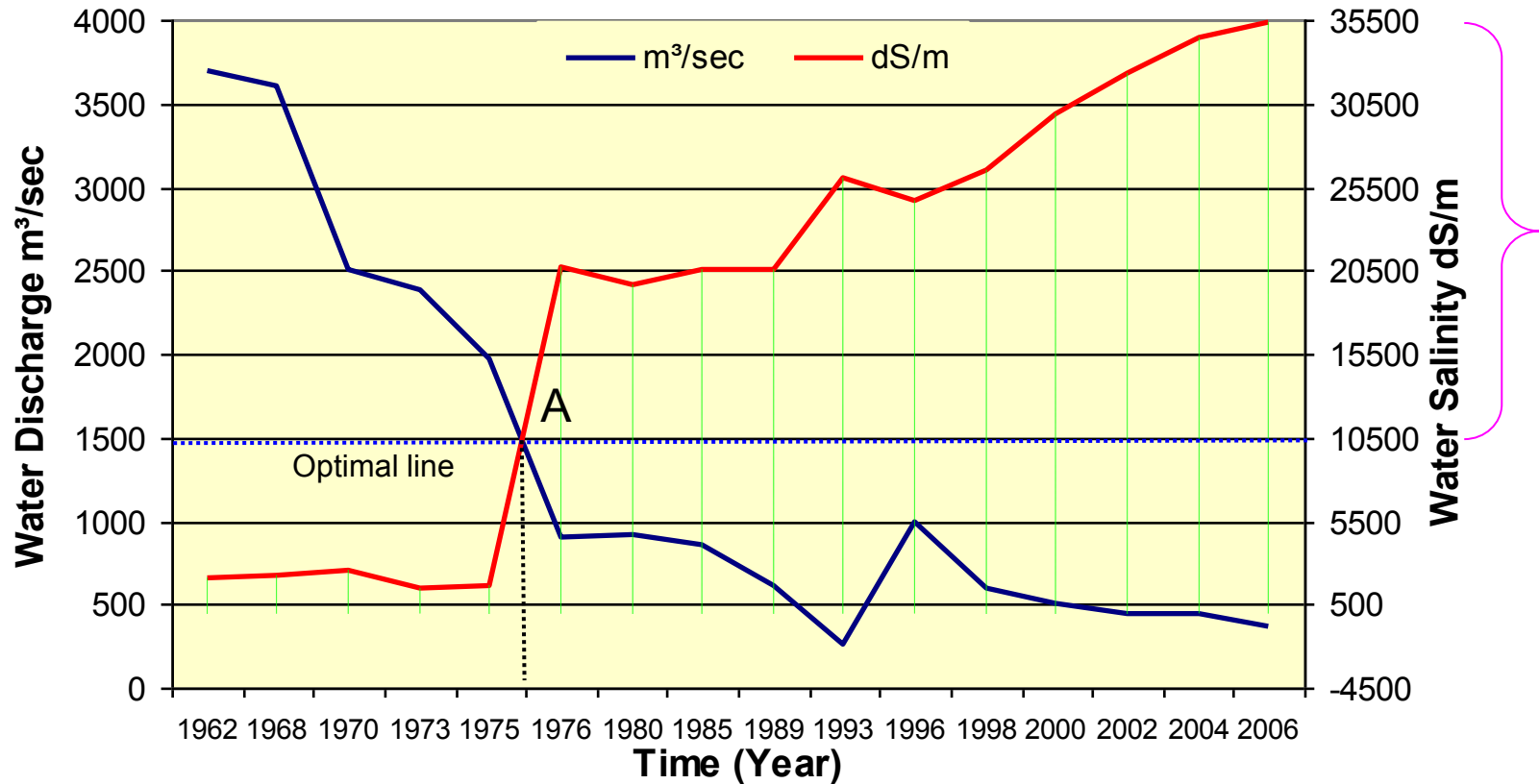
Impacts of Farakka in the Ganges Delta



ফারাক্কায় পানি প্রবাহ স্বাভাবিক না থাকায় পদ্মার এ দৃশ্য এখন সহজেই চোখে পড়ে

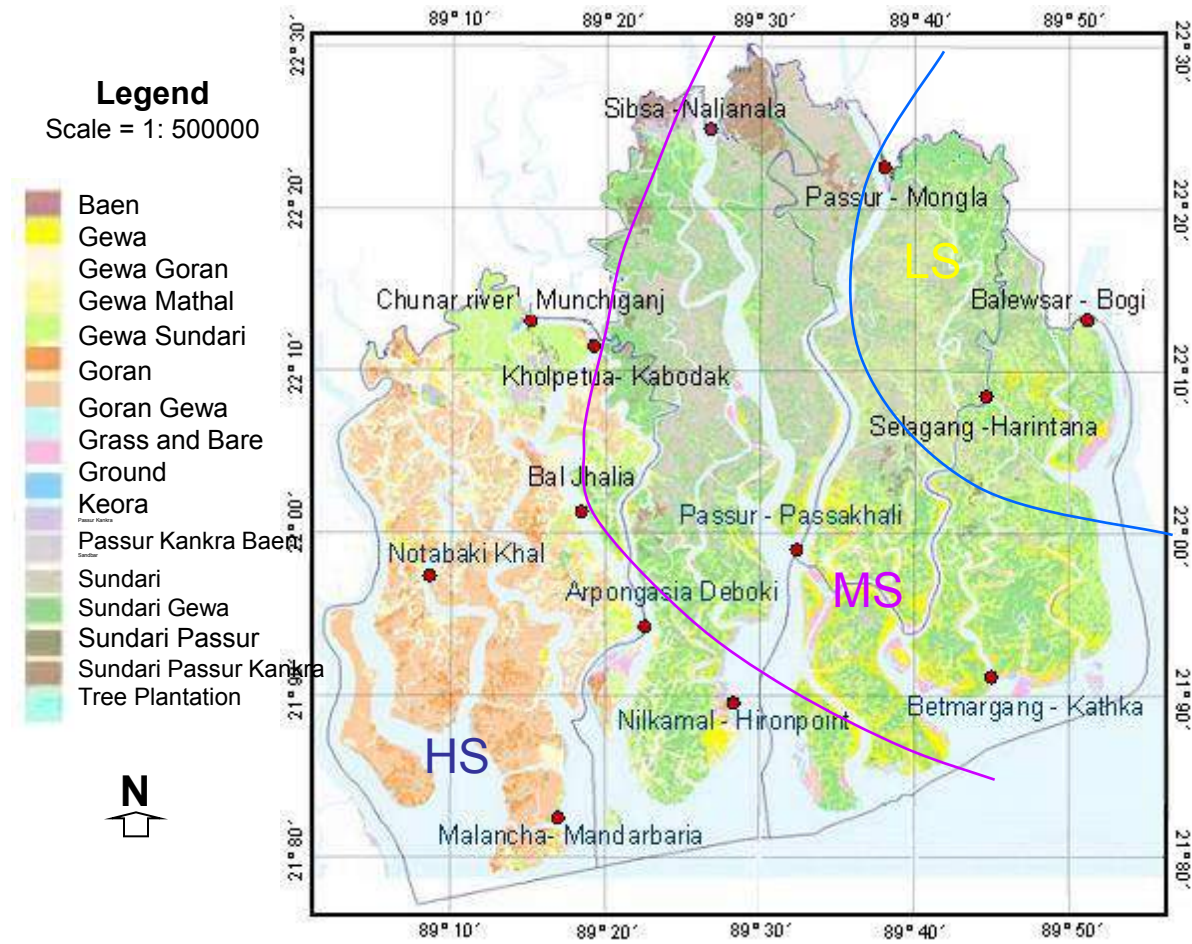
The Scenario of the Ganges Basin in 2006

Optimal Solution for Threatened Ecosystems



The Ganges water flow curve, salinity intrusion curve and the optimal line have crossed at point **A** which is the optimal point of salinity intrusion.


The Locations of 13 Potential Rivers

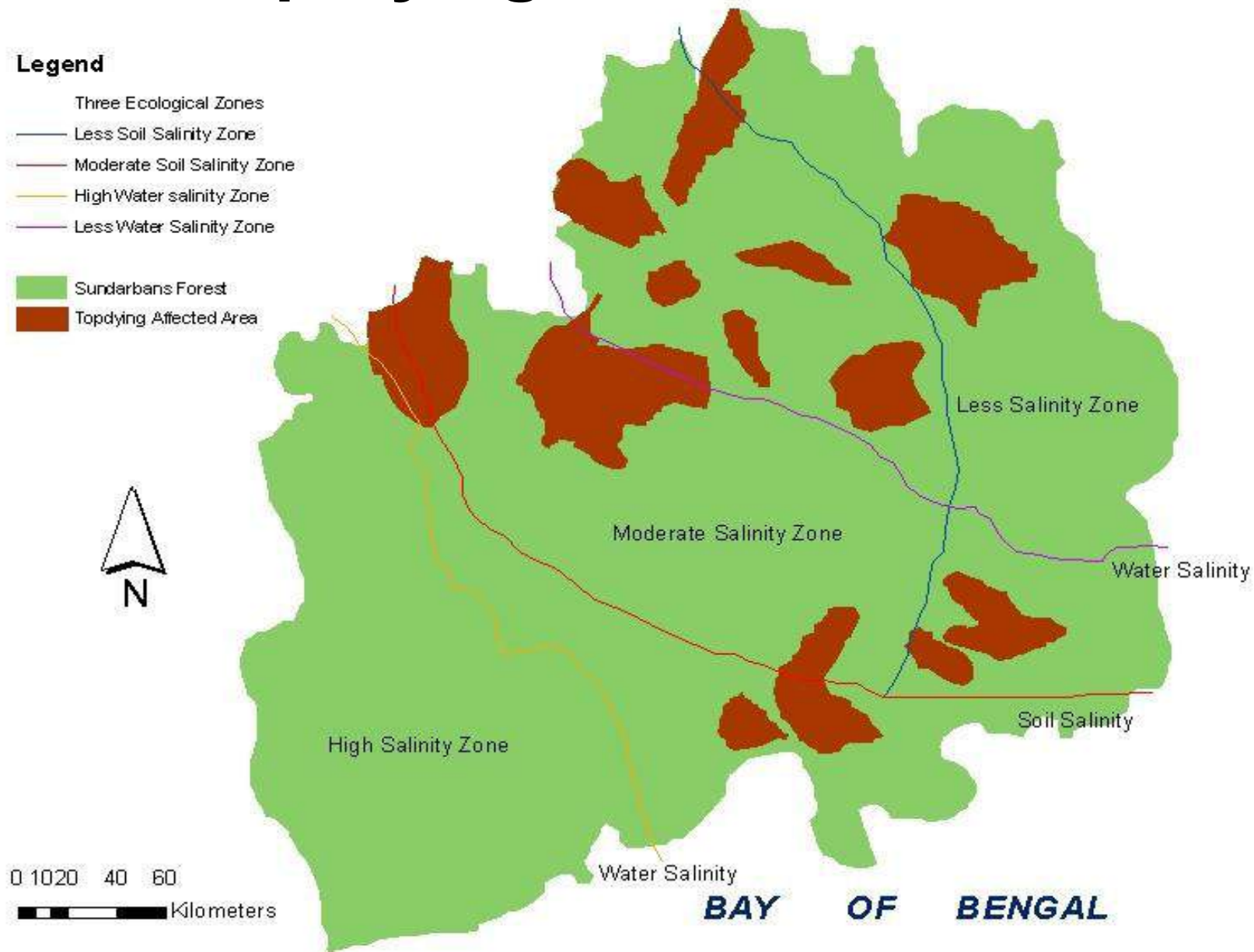


Heritiera fomes 21%, *H. fomes* - *E. agallocha* 29%, *E. agallocha* 5%, *E. agallocha* - *H. fomes* 15%, *C. decandra* - *E. agallocha* 14%, *E. agallocha* - *C. decandra* 9%, *Sonneratia apetala* 1%.

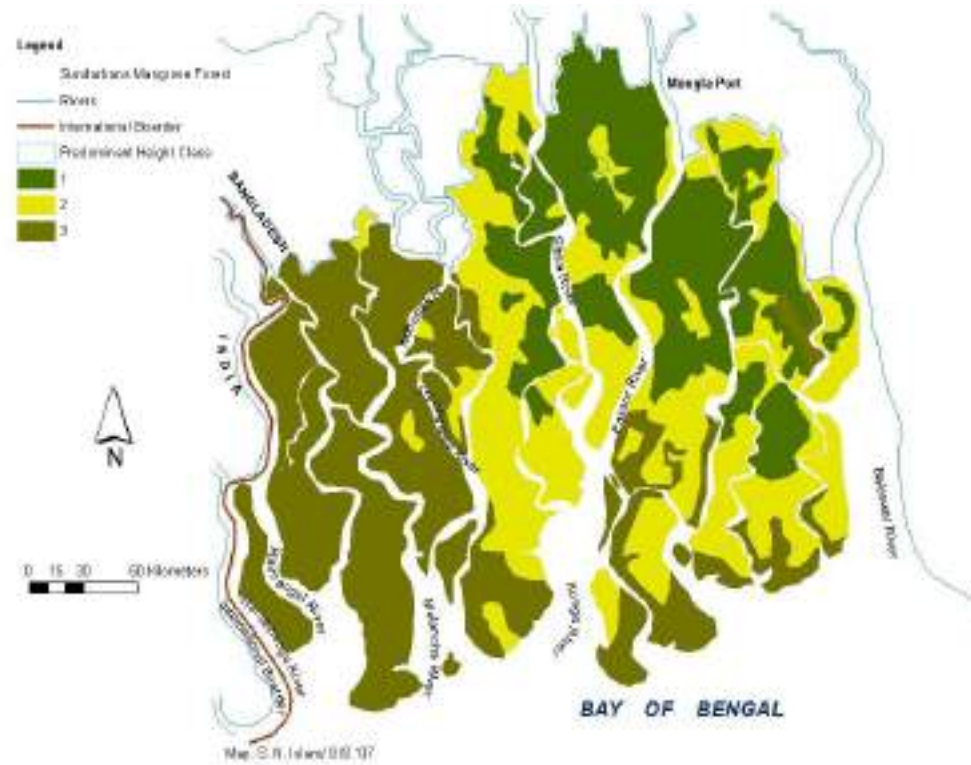
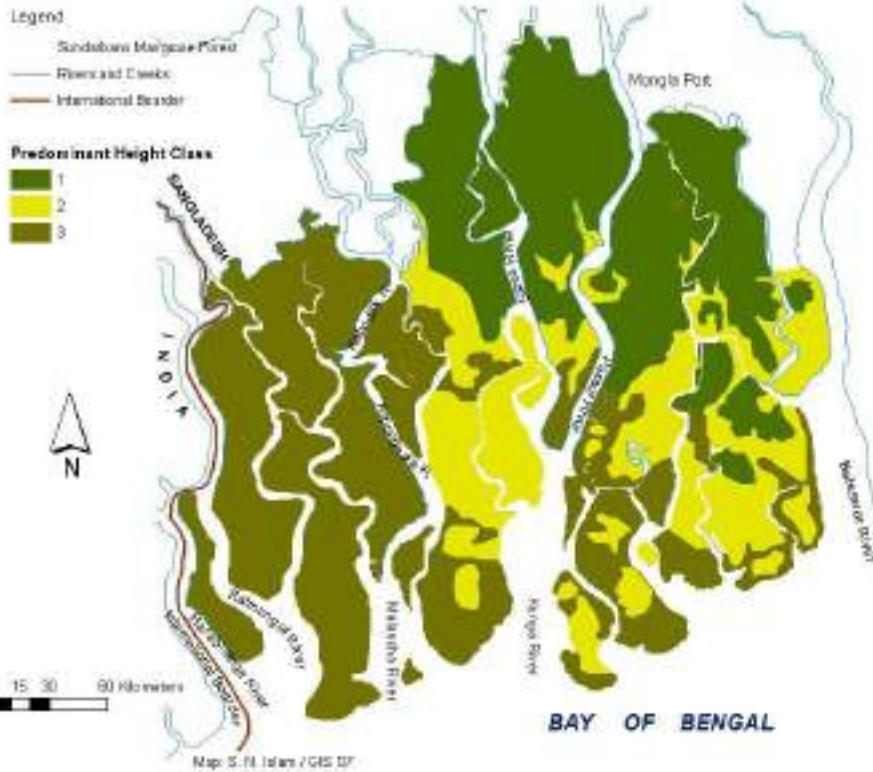
Top-dying Affected Areas

Legend

- Three Ecological Zones
- Less Soil Salinity Zone
- Moderate Soil Salinity Zone
- High Water salinity Zone
- Less Water Salinity Zone
-  Sundarbans Forest
-  Topdying Affected Area



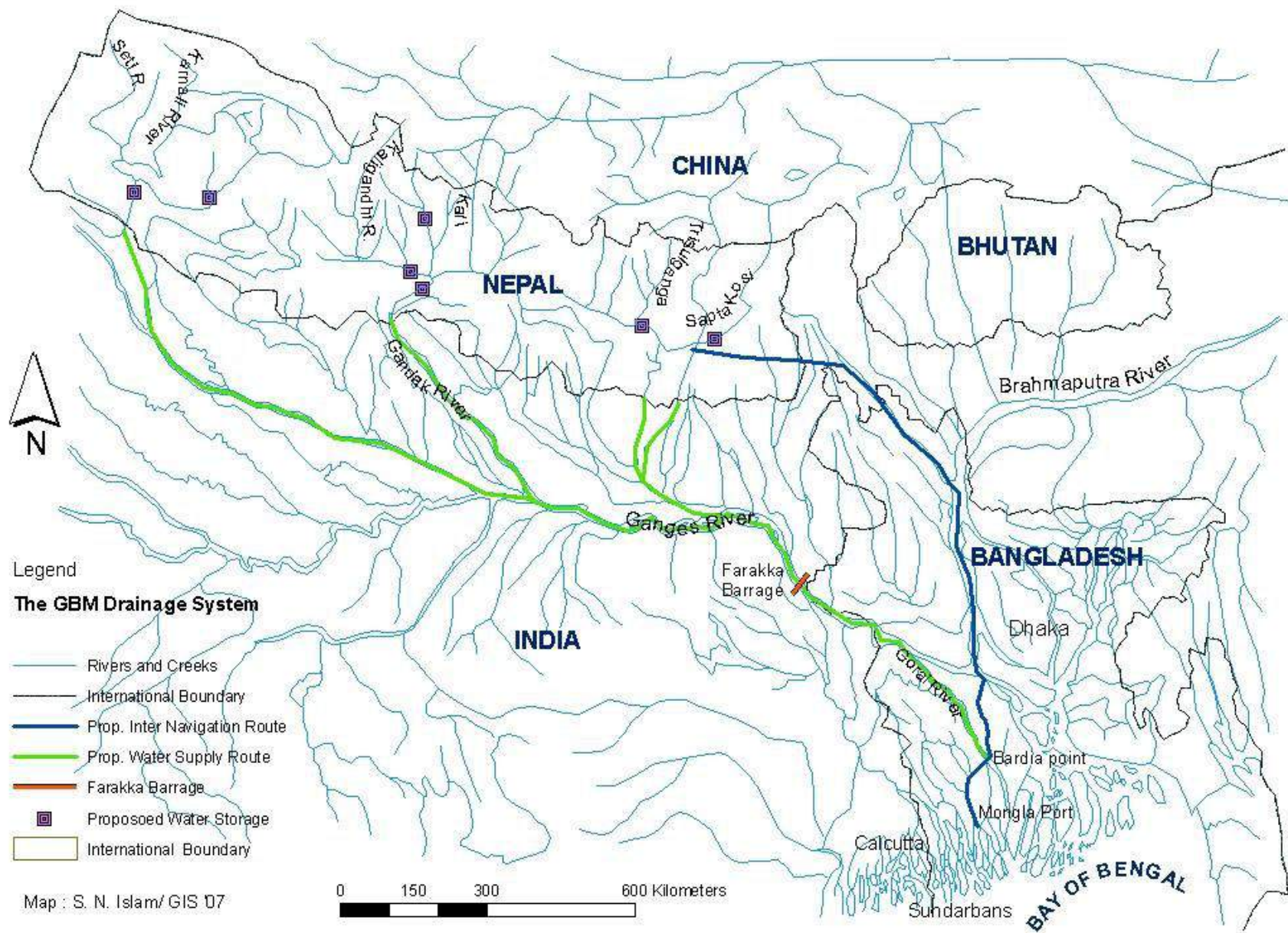
Vegetation Height Class Changing Pattern



Forest Canopy Class in 1933 (Curtis, 1933)

Forest Canopy Class in 1985 (ODA, 1985)





Legend

The GBM Drainage System

-  Rivers and Creeks
-  International Boundary
-  Prop. Inter Navigation Route
-  Prop. Water Supply Route
-  Farakka Barrage
-  Proposed Water Storage
-  International Boundary

Map : S. N. Islam/ GIS 07





Thank You
for Your Attention