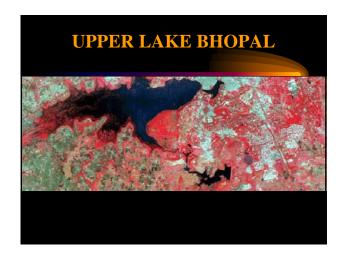


Object of the study

to propose an approach for mapping pollution in surface water streams using Geoinformatics.



Lake Pollution Effects

- Siltation
- Eutrophication
- Toxic wastes from fertilizers and industires
- Potability of water reduces

Causes

- Point sources
 - Outfalls of sewer drains,
 - Storm drains
 - Hospital and Indusrial drains
- Non-Point Sources
 - Agricultural fields
 - Forest areas

Methodology

- GPS Data Processing
 - Transforming GPS Coordinates to Map coordinate system,
 - Apply corrections to GPS coordinates
 - Overlay GPS points on satellite data
- Retrieval of spectral reflectance values
 - IRS -1B / 1C consists of five spectral bands
 - Collect reflectance values
 - Find correlation of reflectance each bands separately with pollution parameters.

Select suitable band

- based on coefficient of correlation
- for each parameter
- Develop a regression model
 - Spectral reflectance vs SSC
 - Spectral reflectance vs SD
 - Spectral reflectance vs Ch-a



