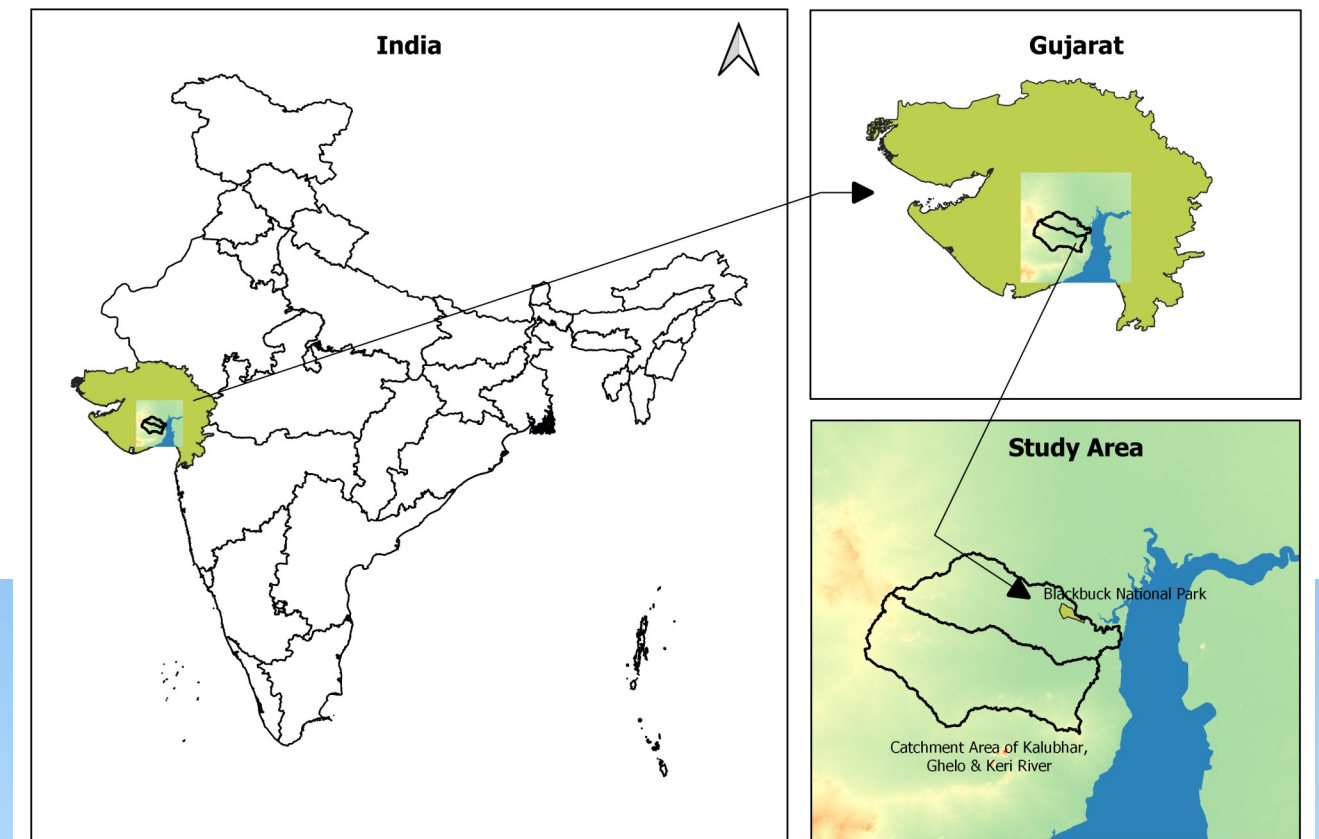
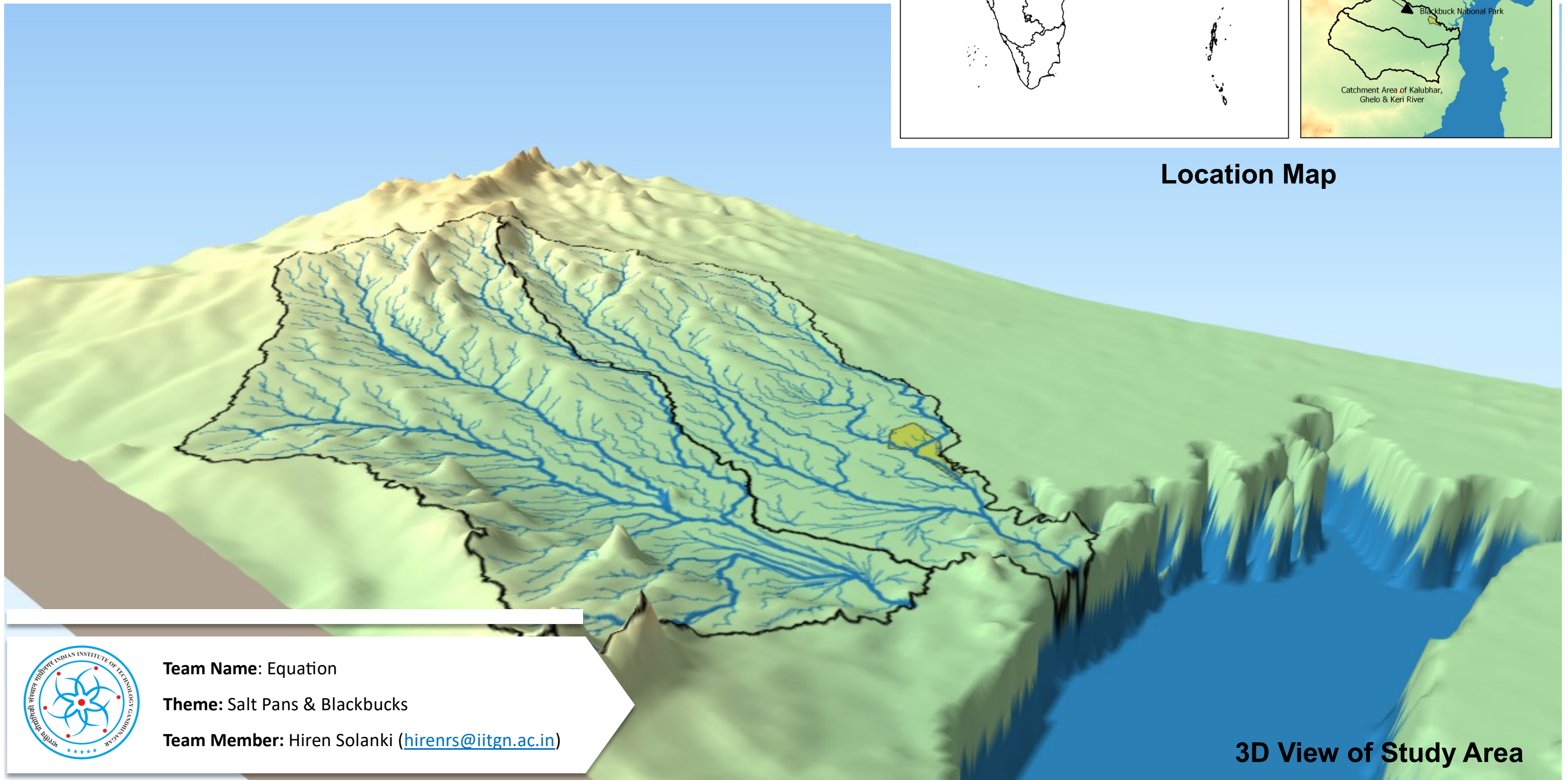


IITB-ISRO-AICTE MAPATHON



Location Map



3D View of Study Area

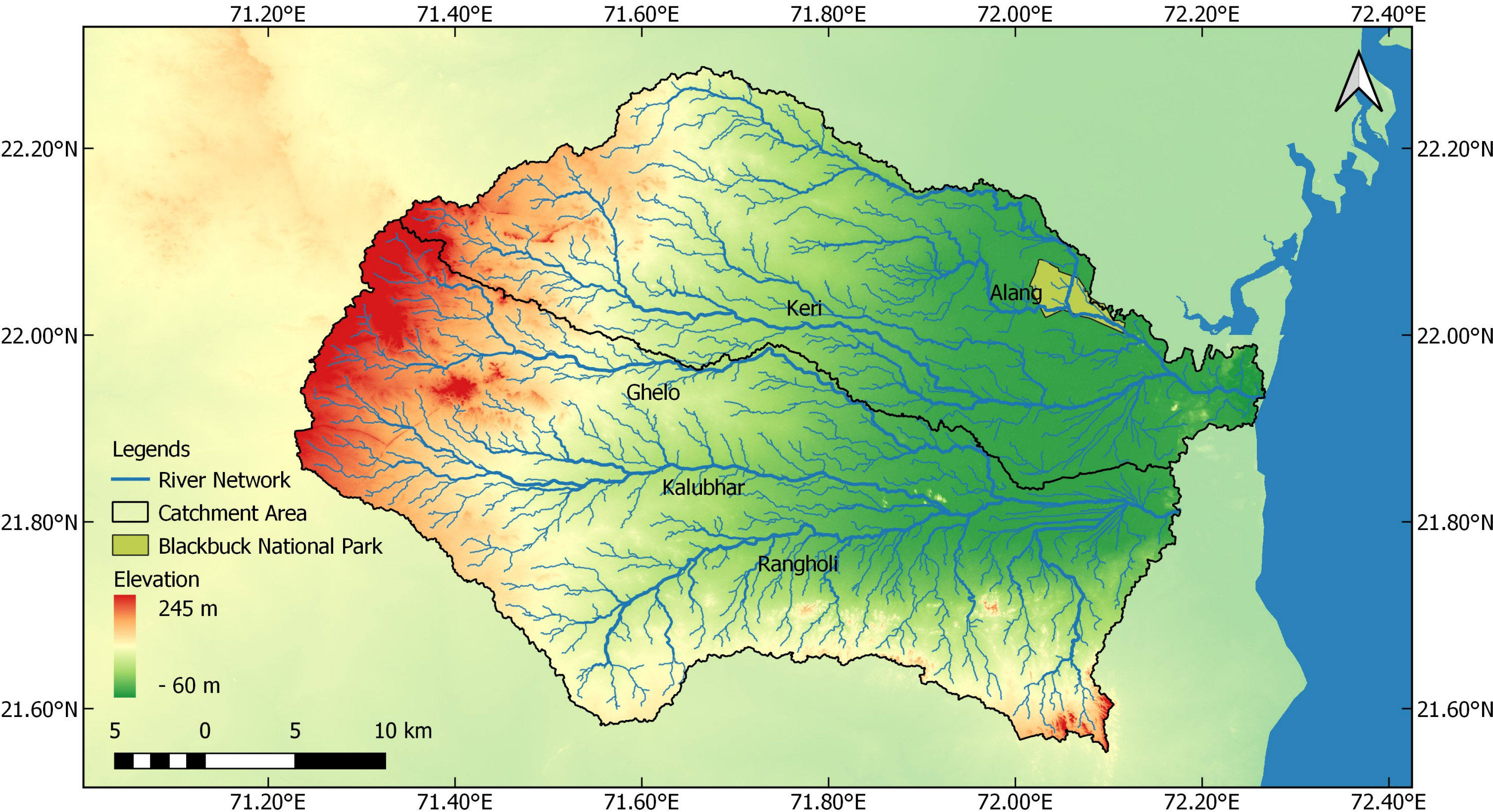


Team Name: Equation

Theme: Salt Pans & Blackbucks

Team Member: Hiren Solanki (hirenrs@iitgn.ac.in)

DRAINAGE NETWORK



Drainage Network of Rangholi, Kalubhar, Ghelo, Keri & Alang River

Effect of Salt Pans on Blackbuck National Park

Introduction

The grassland of the velavadar, a 36 square kilometer area of Blackbuck National Park is known as the home of blackbuck. It also hosts various species like harrier, hyenas, wolves & rarest bird lesser florican. Increasing number of salt pans and agricultural activities in nearby area are depleting the grassland at very high rate. Also, this low lying area got flooded in every monsoon season because of the water blockage due to salt pans. Salt pans block the natural flow of rivers toward sea and cause heavy flooding. Hence, to protect their life blackbuck move towards the village area and almost lost their energy in that. Some drowned in the water and some died because of stray dogs killed them.

Objectives

The main objectives of the map are as follows.

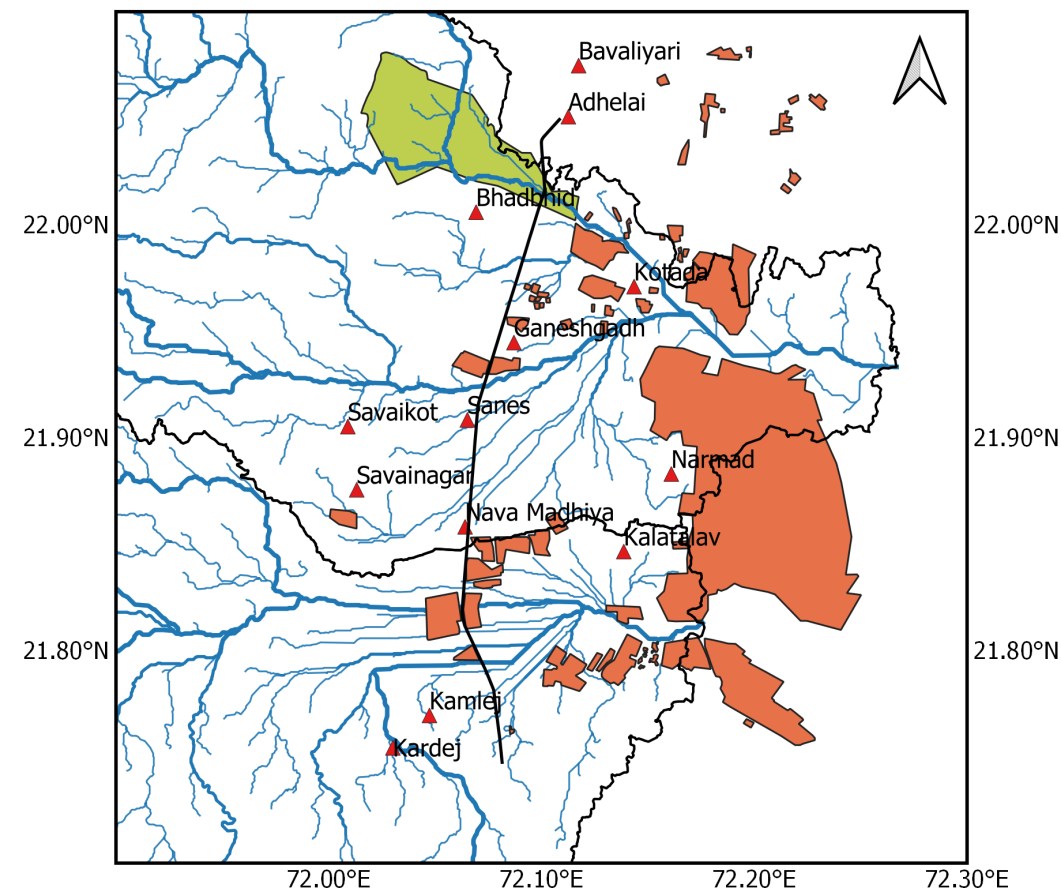
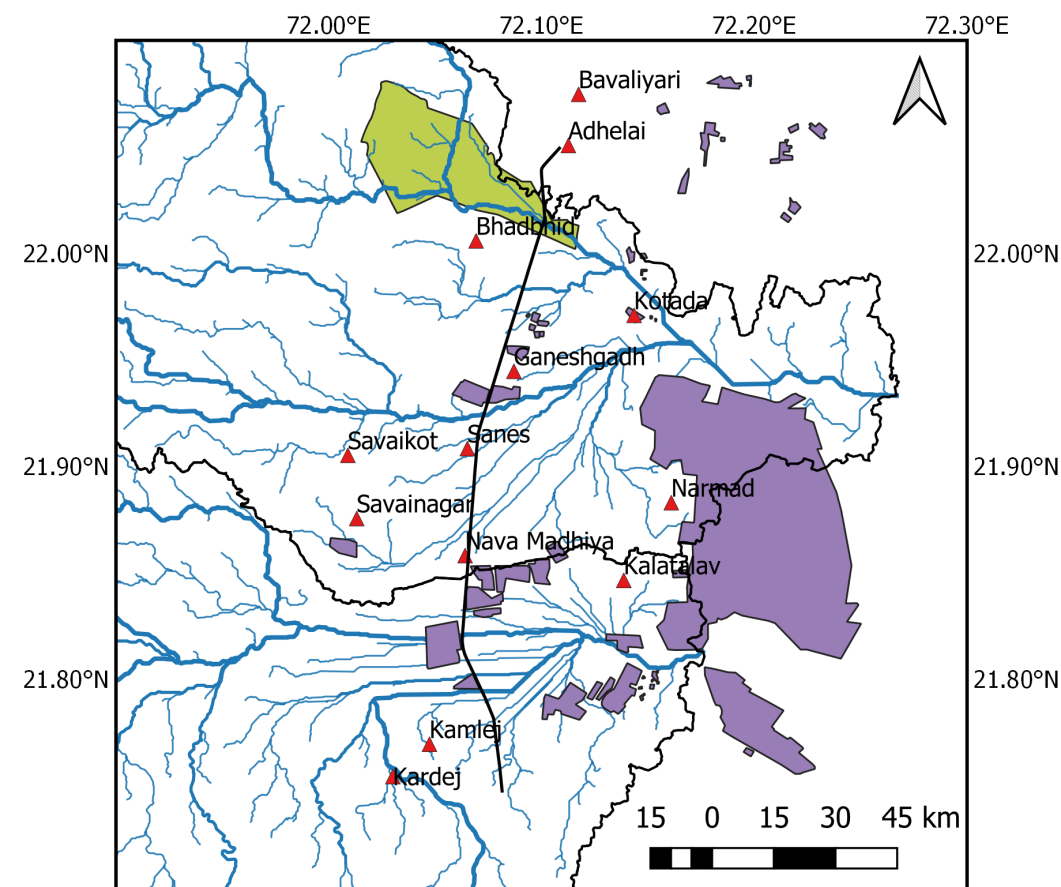
- To provide potential information about the location from where the death bodies of blackbuck were collected.
- To identify the catchment area of the major rivers of the area which are Ghelo, Kalubhar, & Keri.
- To do change detection study for salt pan areas.

Data

Topo sheets (Survey of India), CARTOSAT DEM, & LISS 3 Data

Results

Result shows that the salt pan area were increased by 16% in the year of 2017 as compare to 2008. It is the main threat for the blackbucks. Apart from that, rainfall is also governing factor, as it is becoming more uncertain because of climate change. To reduce the death of blackbuck, elevated places are required to be constructed near the Blackbuck National Park.



- Legends
- River Network
 - NH 751
 - ▲ Reported Death Location
 - Catchment Boundary
 - Salt Pans (November 2017)
 - Salt Pans (November 2008)
 - Blackbuck National Park



Team Name: Equation

Theme: Salt Pans & Blackbucks

Team Member: Hiren Solanki

Contact Details: +91-7043392128 (hirenrs@iitgn.ac.in)