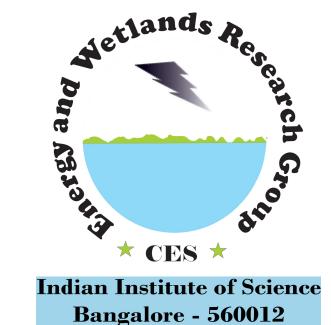
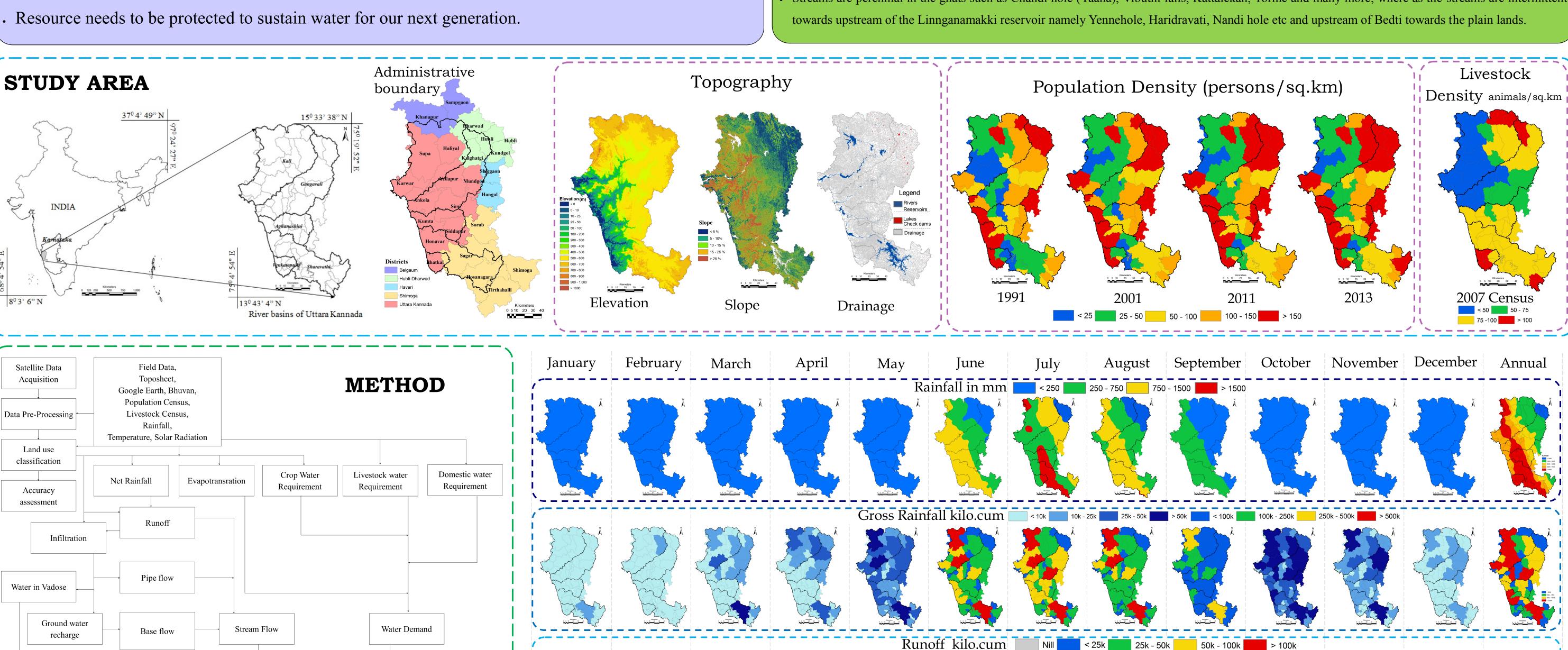
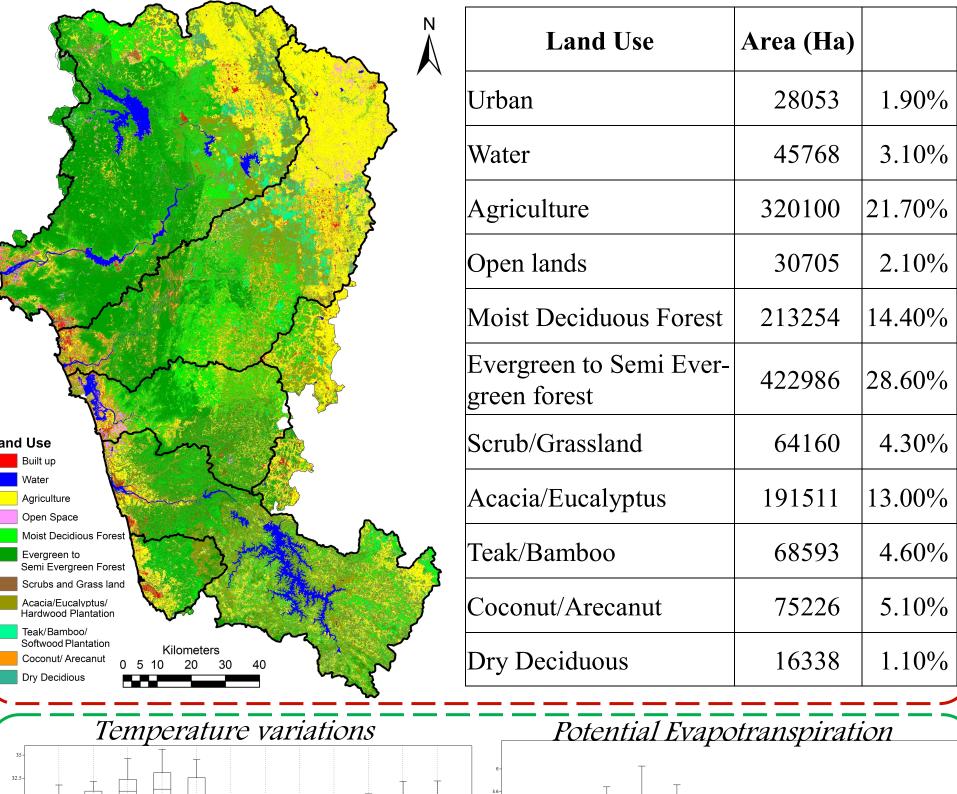
## Environmental Flow in Water Bodies

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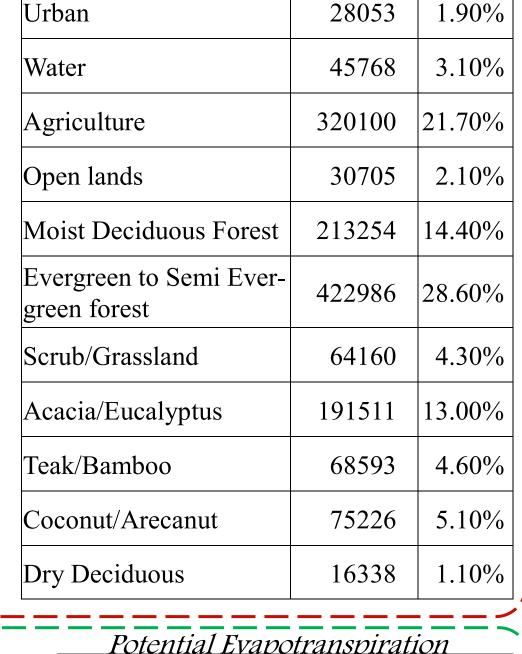


- Environmental flow refers to the quantity, quality, duration and timing of water in the wetlands, lakes, estuaries, streams, rivers.
- Environmental Flow/ Ecological Flow needs to be maintained to sustain biodiversity and livelihood of the people.
- . Need to manage watershed to ensure sustained water in streams, lakes and rivers.
- River catchments in the Central Western Ghats of Karnataka flowing in Uttara kannada district namely Kali, Bedti, Agnashini, Sharavati, Venkarapura. The total catchment are is about 13972.84 sq.km, extending from 13<sup>0</sup>43'4"N to N 15<sup>0</sup>33'38" N latitude and from 75<sup>0</sup>4'54" E to75<sup>0</sup>19'52" E longitude spread across districts of Shimoga, Uttara Kannada, Haliyal, Dharwad and Belgaum. These sections of the Western Ghats poses rich biodiversity.
- The rainfall varies from as low 750 at the plains where as it reaches over 5000 mm at the Ghats with about 50 to 120 rainy days and 6 to 8 rainy months. Forest cover in Uttara Kannada has reduced from 67.73% in 1973 to 32.08% in 2013.
- Streams are perennial in the ghats such as Chandi hole (Yaana), Vibuthi falls, Kattalekan, Torme and many more; where as the streams are intermittent

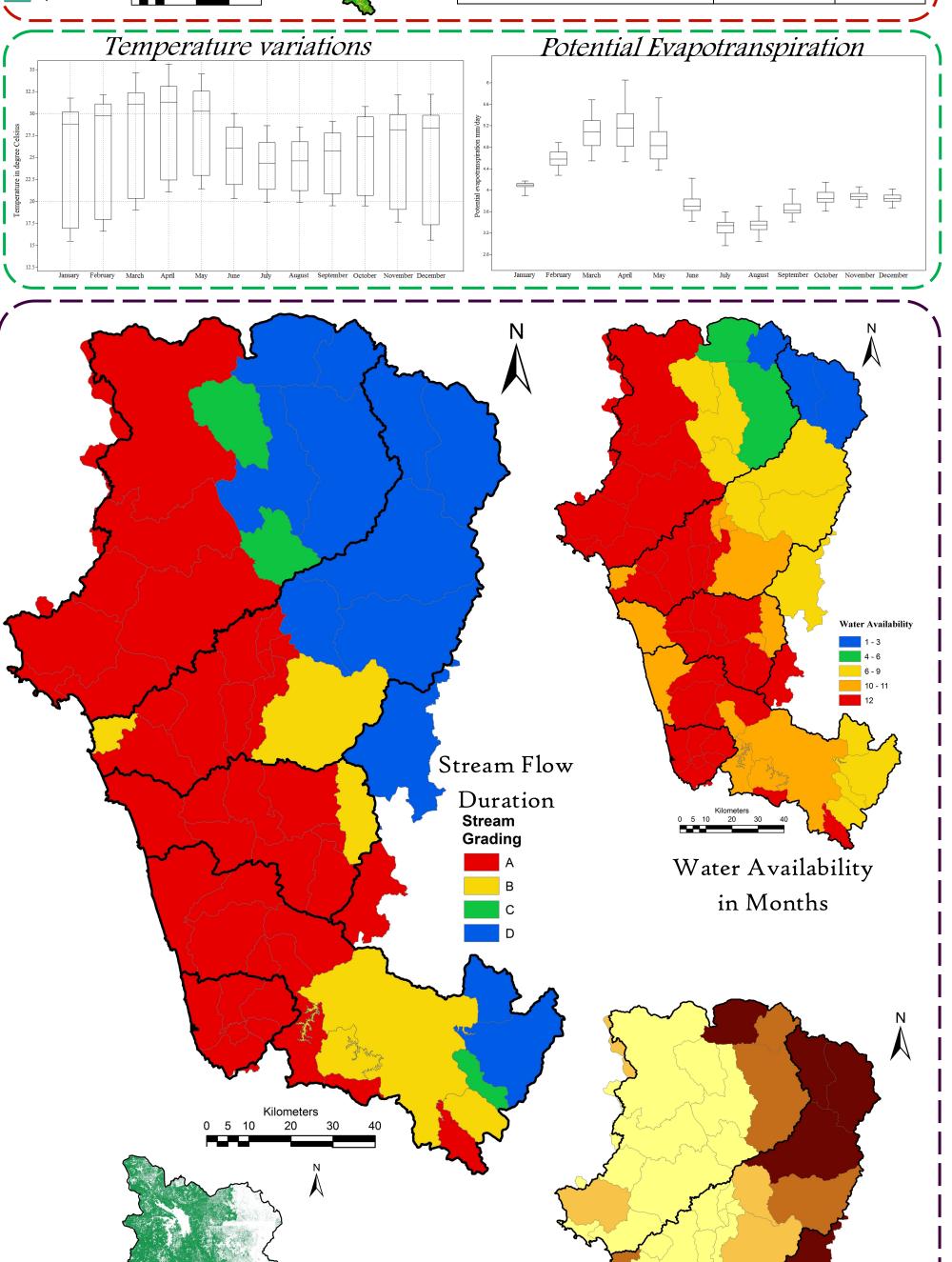




Water Available

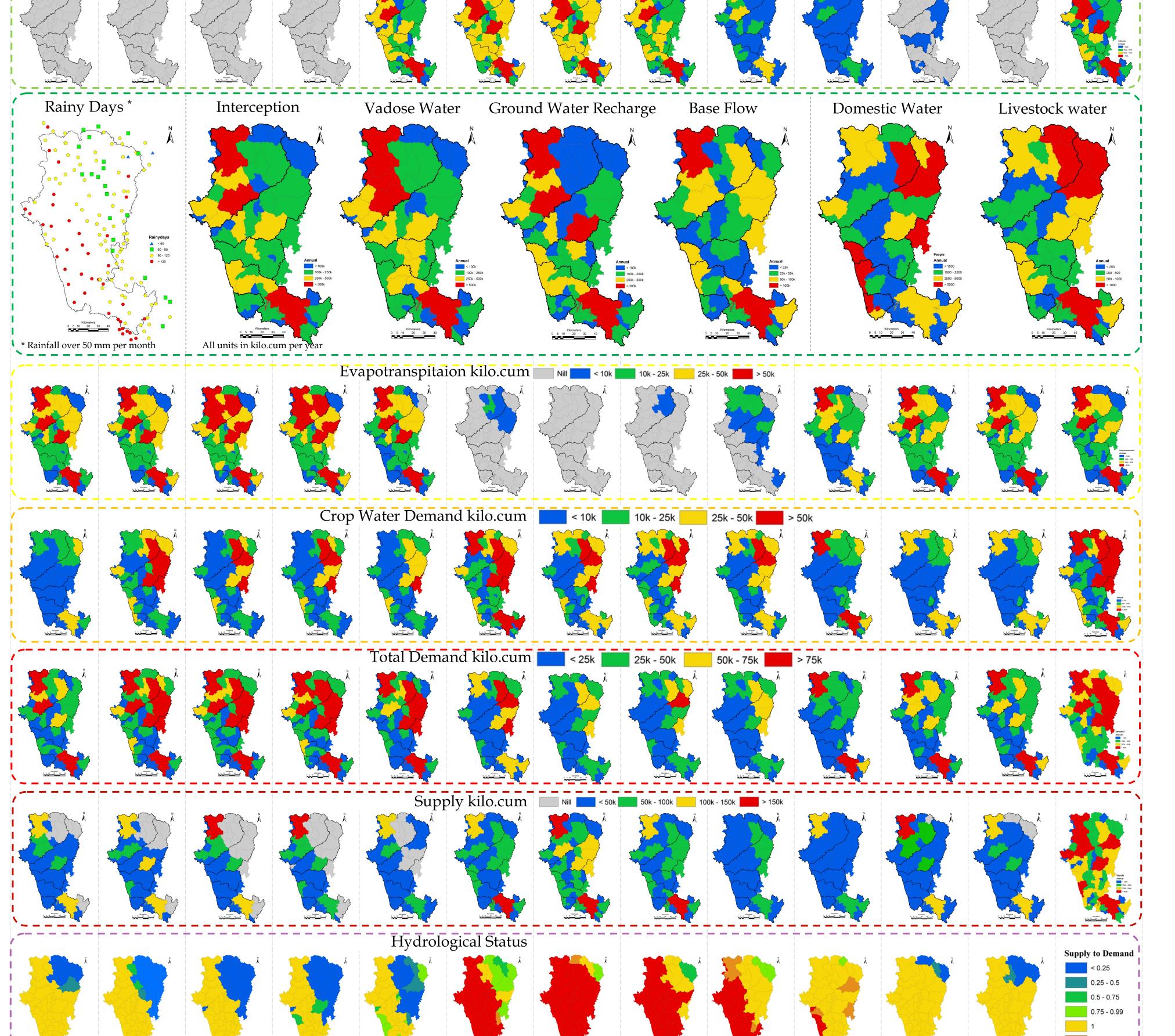


Water Balance



Forest Cover

Sedimentation `



- Acknowledgement
- Karnataka Bio-Diversity Board.
- Ministry of Environment and Forests

Department of Science and Technology

- Western Ghats Task Force
- Dedicated to the people of Uttara Kannada and Shimoga
- Environmental flow and Silt Yield in the watershed depend on the vegetation cover (type and extent)
- Streams are perennial (streams carry water for 12 months) if the watershed has predominant land covered by native vegeta-
- Deforestation in some catchments has led to seasonal streams and flooding.

Ramachandra T V, Chandran M D S, Joshi N V, Vinay S, Bharath H A, Bharath S. Energy and Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560012 http://wgbis.ces.iisc.ernet.in/energy; http://wgbis.ces.iisc.ernet.in/foss