



Land use categories – based on Intergovernmental Panel on Climate Change (IPCC) classification



No.	Land use class	Definition
1	Forest	Land spanning more than 0.5 hectares with trees higher than 5 meters and canopy cover more than 10% or land dominated by natural woody vegetation of 5m or less than 5m in height and its cover exceed 40%. It includes both tree dominated and shrub dominated area of Hill Forest, Sal forest, Swamp forest, Forest plantation.
2	Cropland	This category is applicable to cultivatable and cultivated land and also to agroforestry areas which are not defined as forest by the national definition. It includes single crop, double crop and triple crop agriculture land.
3	Grassland	This category includes pastures and grazing lands. This category includes not only natural lands but also recreation areas. It includes the herb dominated areas along the rivers where water may persists for 6-7 months.
4	Wetlands	This category includes areas which are covered by water or wet areas (such as Peat bog) which is not classified as forest, cropland and grassland. It includes the Rivers and Khals or other types of water body like Baor, Perennial Beels/ Haors, and lakes where water may persists for 10-12 months.
5	Settlements	The artificial and impervious surfaces which is paved with hard materials and functionally linked with vegetated areas, open spaces, recreational parks and water bodies. It includes Rural Settlements, developing area and Urban areas.
6	Aquaculture	This class includes the geographic areas which are used for year round fresh water aquaculture. This class may include the areas where fresh water aquaculture is practiced after harvesting the rice crop
7	Plantations	This class includes the geographic areas where trees or shrubs are planted for fruits and leaf. Trees are even-aged, planted and managed in rows, and cover a large area. It includes the Fruit garden and Tea garden areas
8	Mining	Extraction or Mining sites are defined by the absence of the original land use which is removed by human activity or machinery for extraction of sand, stone or minerals.
9	Other lands	This category includes bare lands, rocks and unmanaged areas which are not covered by any of the mentioned land use classes like forest, cropland, grassland, wetlands and settlements. It includes the Sand, Artificial Surface and Brickfield of the study area.

Major land use types (2019, Dry period)



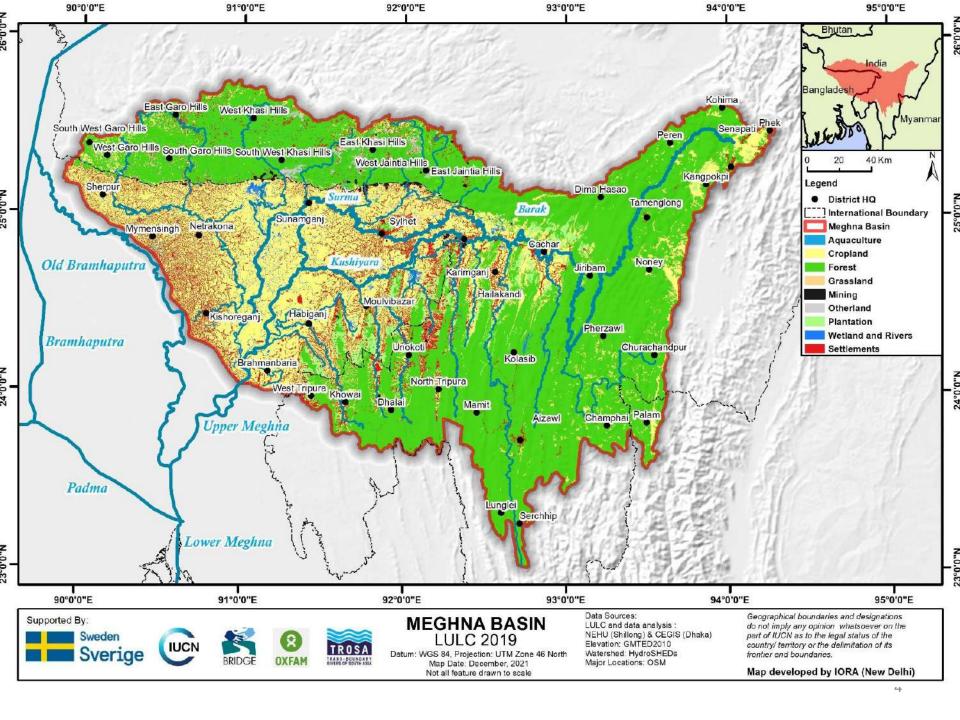
India (app 43100 sq km)

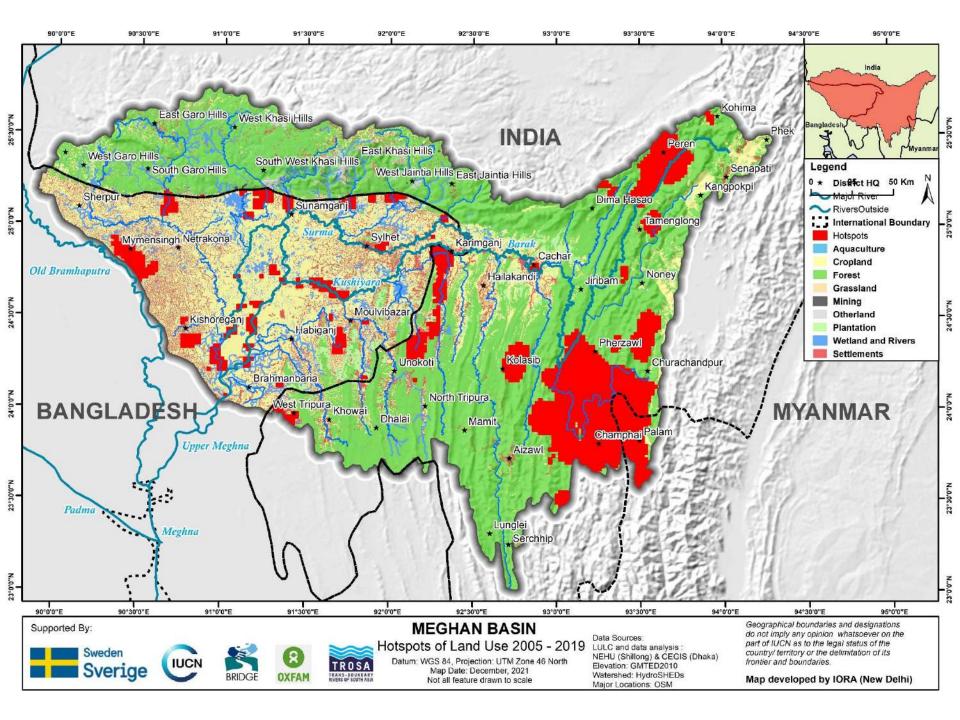
- Forests is most dominant land use type (82% of total area)
- Cropland (10%) and Settlements (3%)
- Aquaculture and Mining (less than 0.02%)

Bangladesh (app 21000 sq km)

- Cropland (66% of total area)
- Settlements (15% of total area)
- Forest land (app 3%)
- Aquaculture and Mining (less than 1%)











Fourteen transboundary sub-basins (shared by Bangladesh and India) –

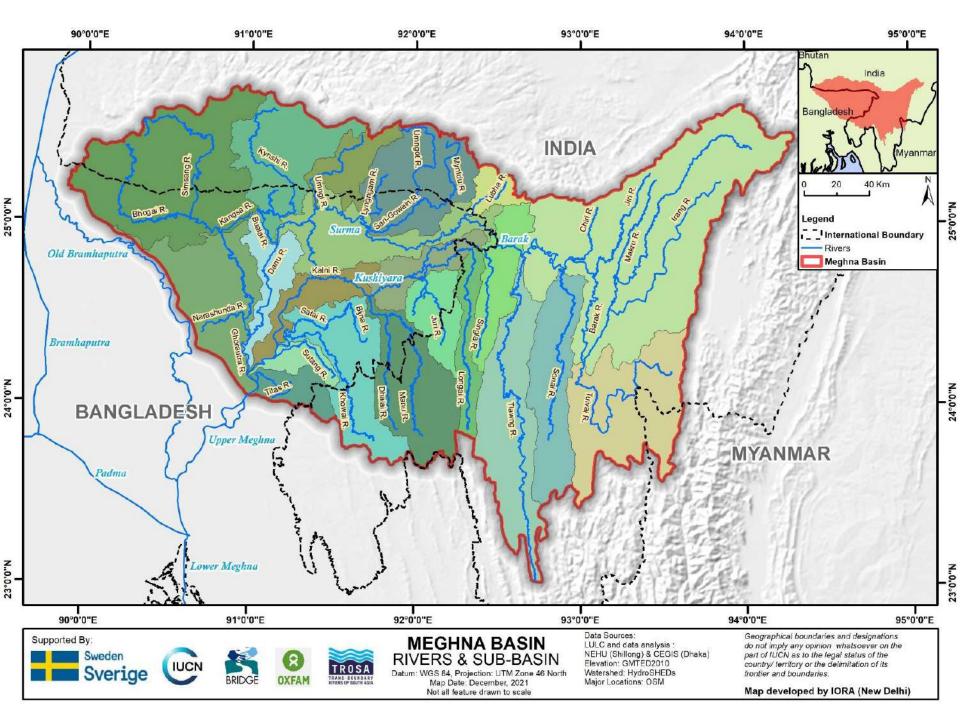
1) Simsang-Kangsa; 2) Kynshi-Bualai; 3) Umngi; 4) Myntdu-Sari Gowain; 5) Lubha; 6) Singla-Barak; 7) Longai; 8) Juri; 9) Surma; 10) Kushiyara; 11) Manu-Dhalai; 12) Khowai; 13) Sutang; 14) Titas

Four sub-basins fully in India –

1) Barak; 2) Tuivai 3) Sonai; and 4) Tlawng

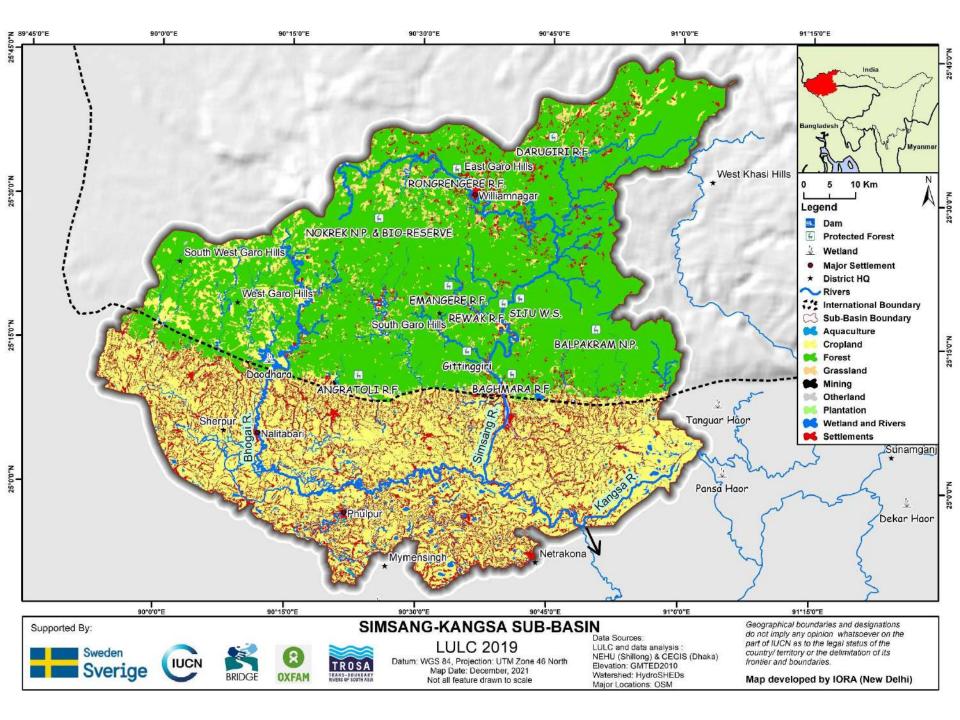
Three sub-basins fully in Bangladesh -

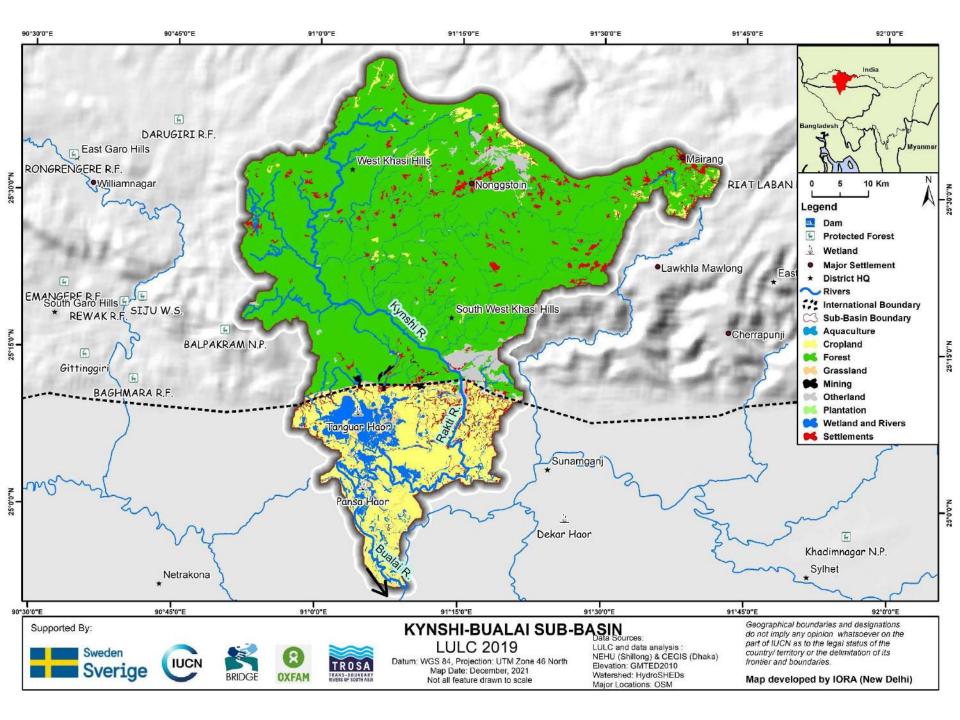
1) Ghoratra-Narashunda: 2) Danu and 3) Kalni.

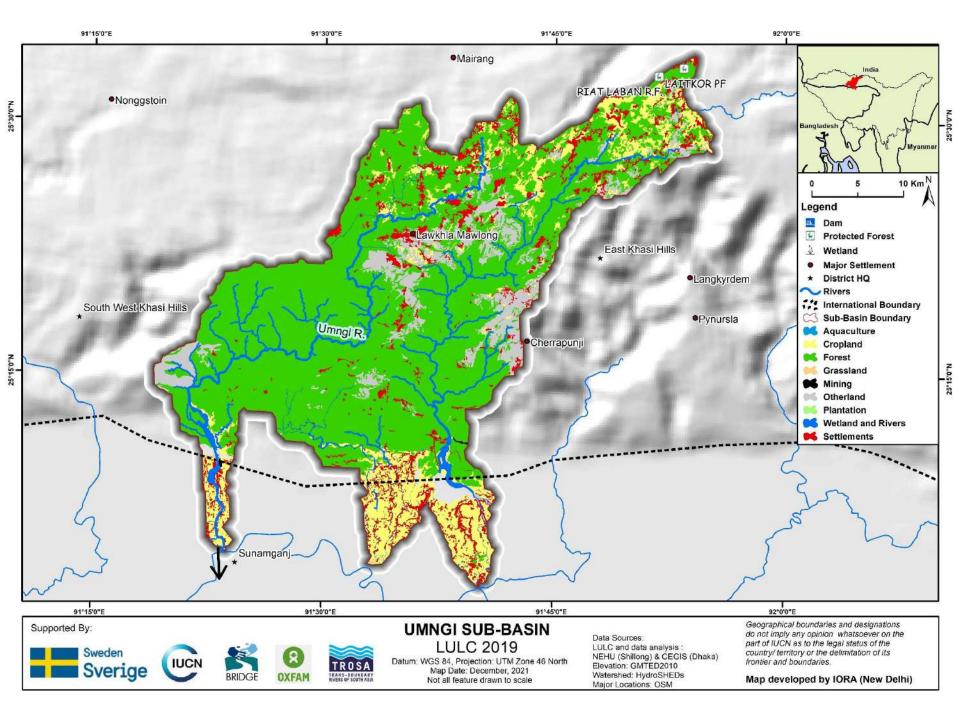


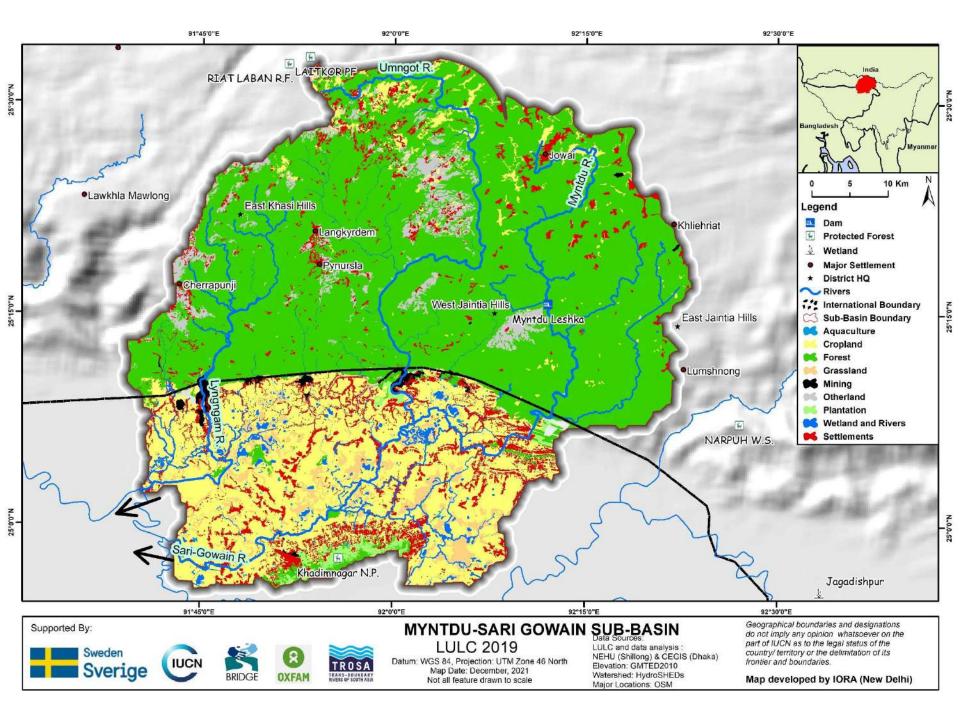


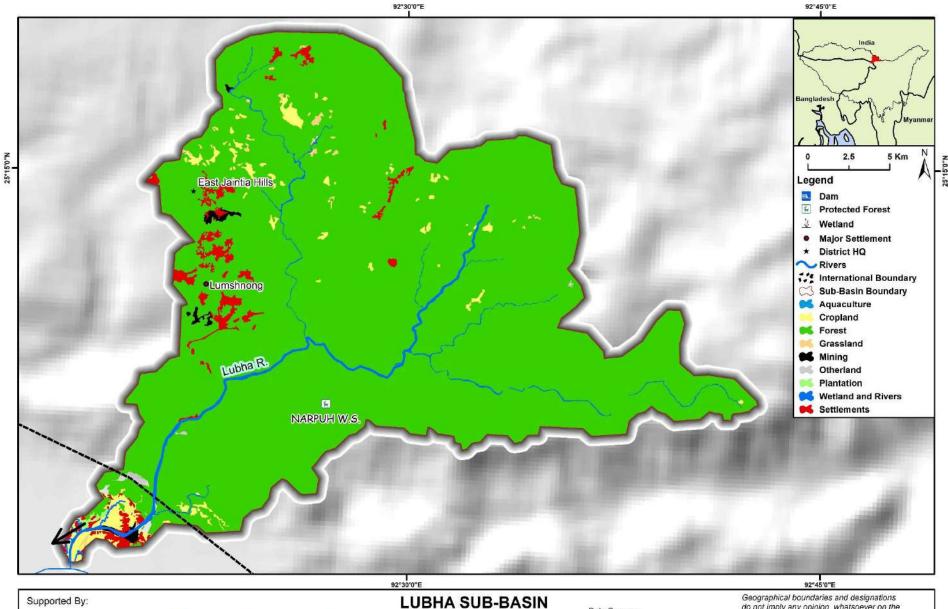
2019 Land Use Maps 14 Sub-basins Shared by India and Bangladesh

















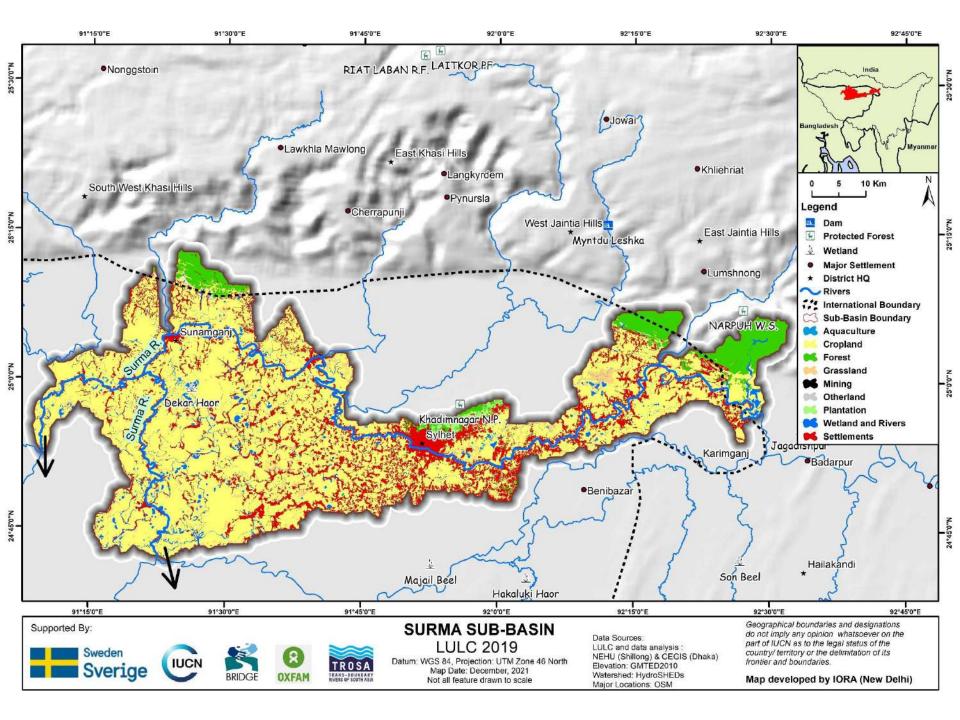


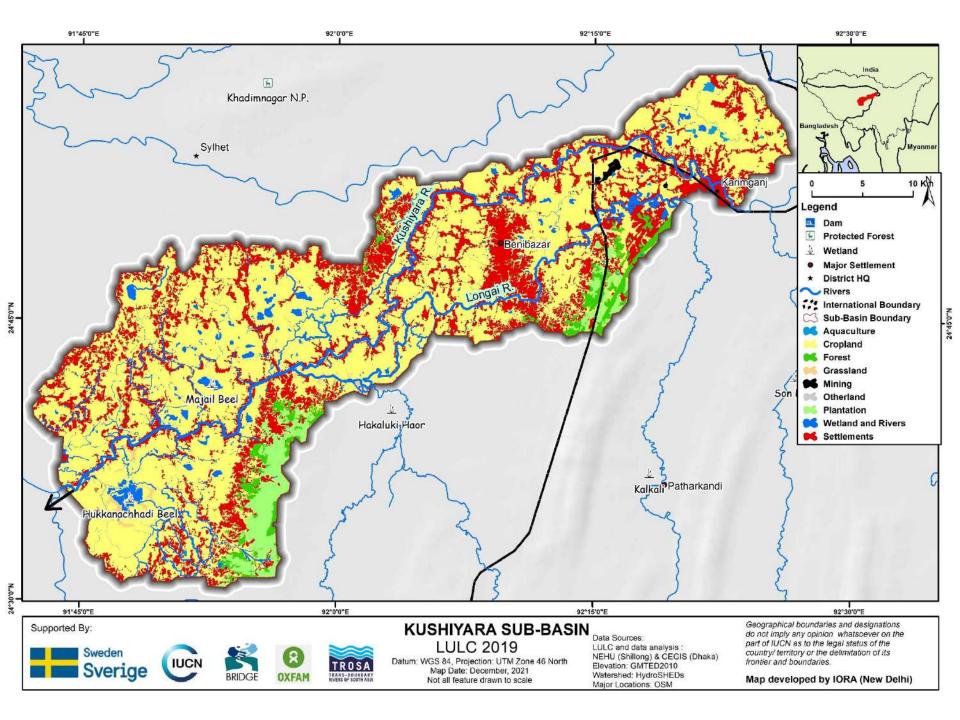


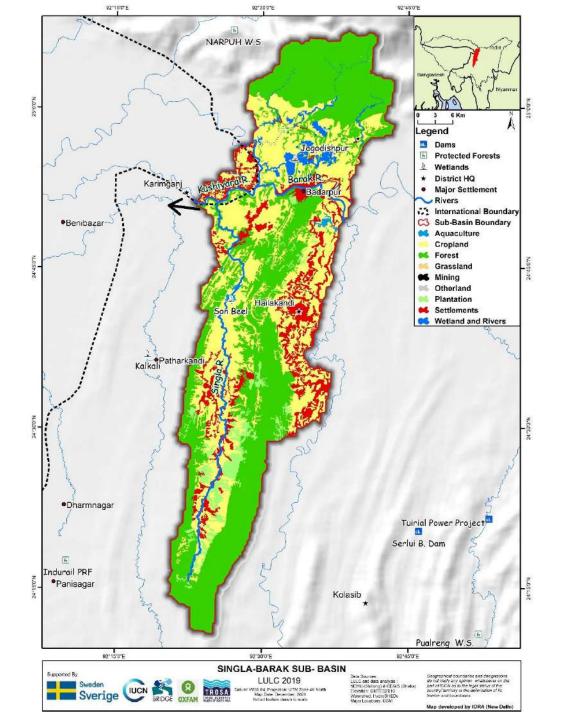
LUBHA SUB-BASIN LULC 2019

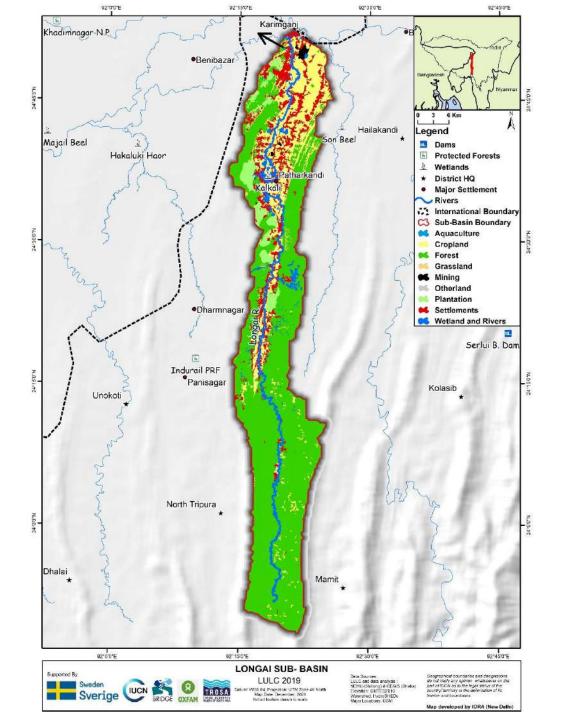
Datum: WGS 84, Projection: UTM Zone 46 North Map Date: December, 2021 Not all feature drawn to scale Data Sources: LULC and data analysis: NEHU (Shillong) & CEGIS (Dhaka) Elevation: GMTED2010 Watershed: HydroSHEDs Major Locations: OSM Geographical boundaries and designations do not imply any opinion whatsoever on the part of IUCN as to the legal status of the country/territory or the delimitation of its frontier and boundaries.

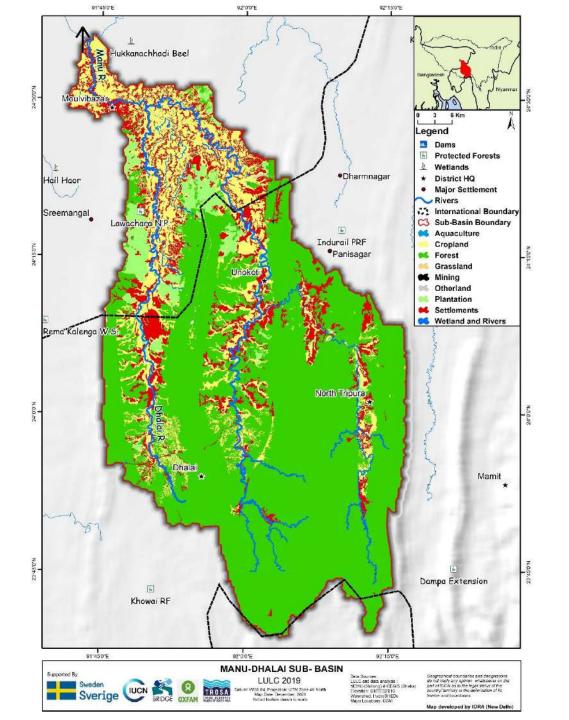
Map developed by IORA (New Delhi)

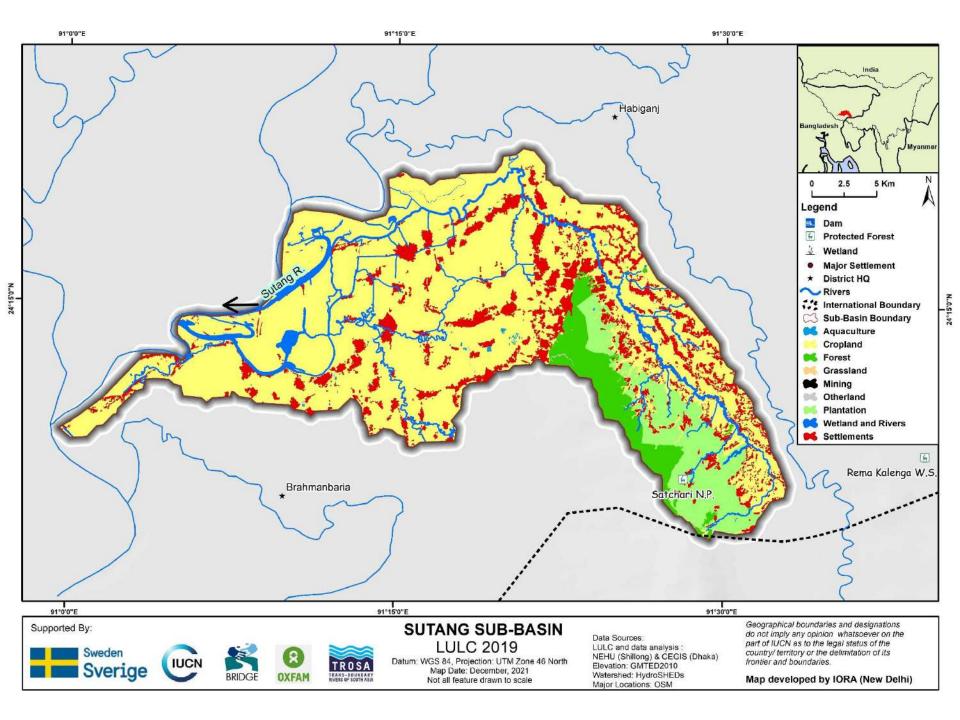


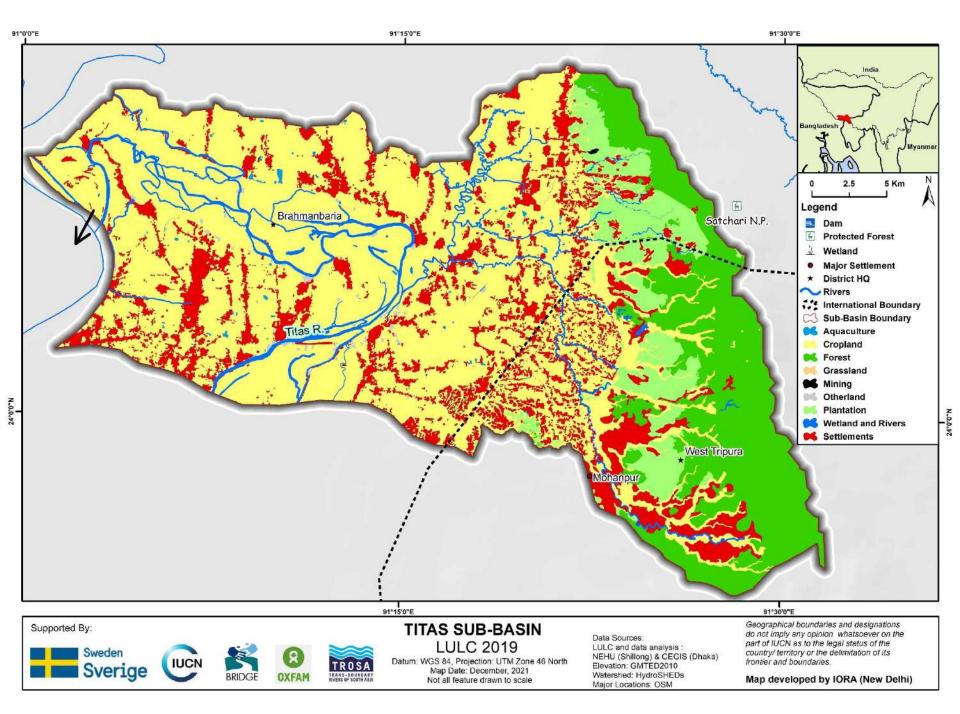


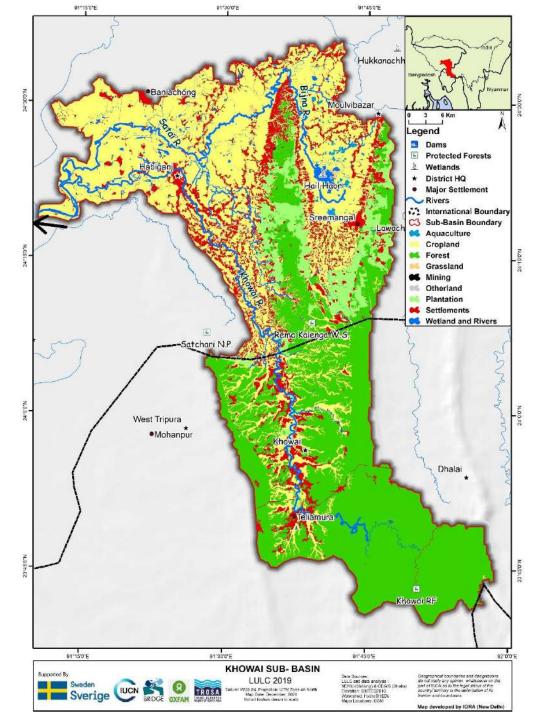






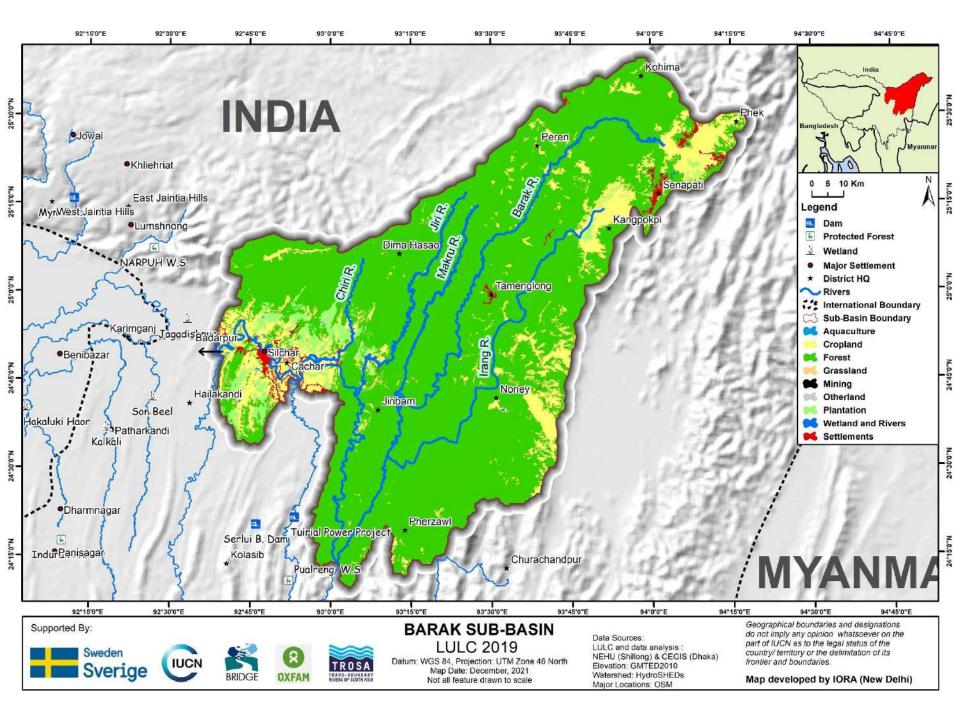


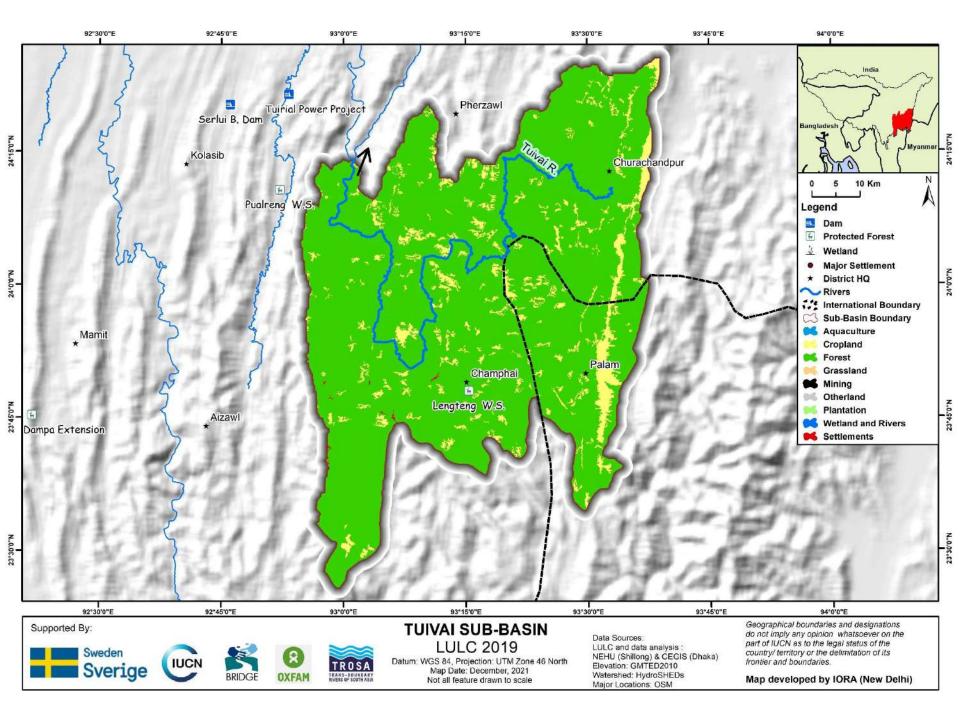


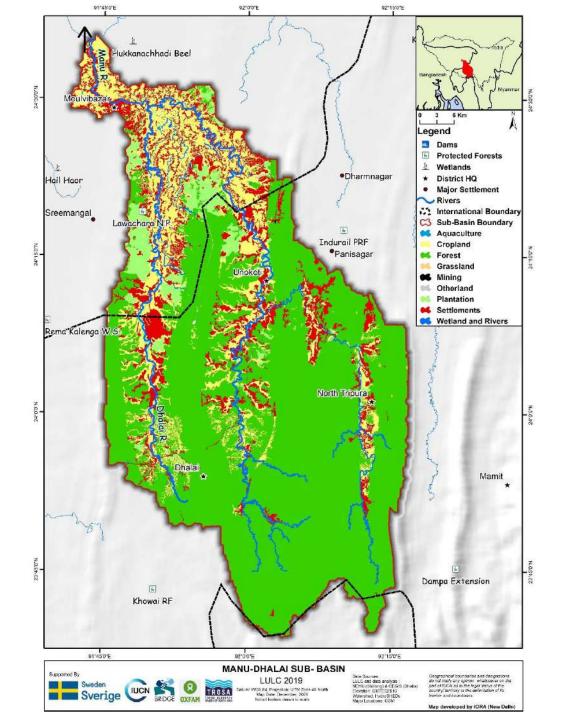


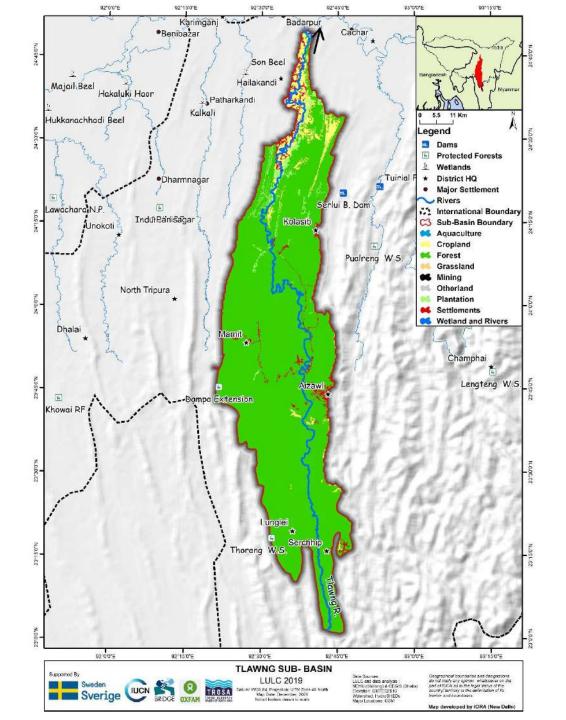


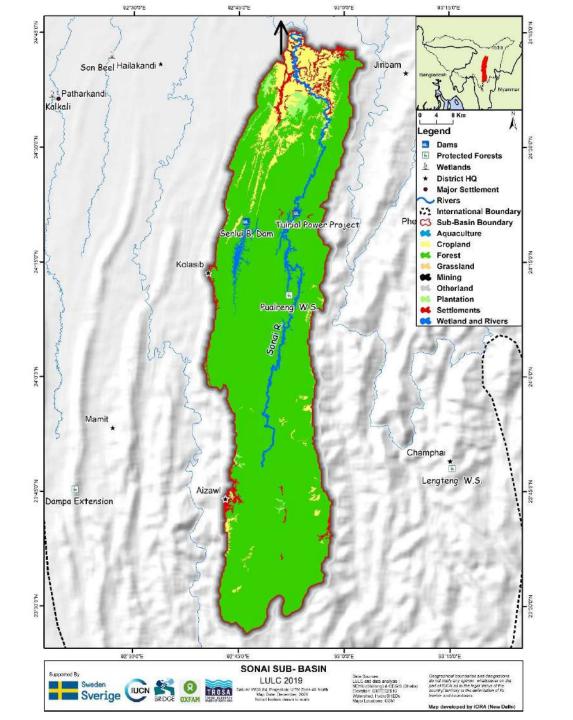
2019 Land Use Maps – Meghna Sub-basins (fully in India)





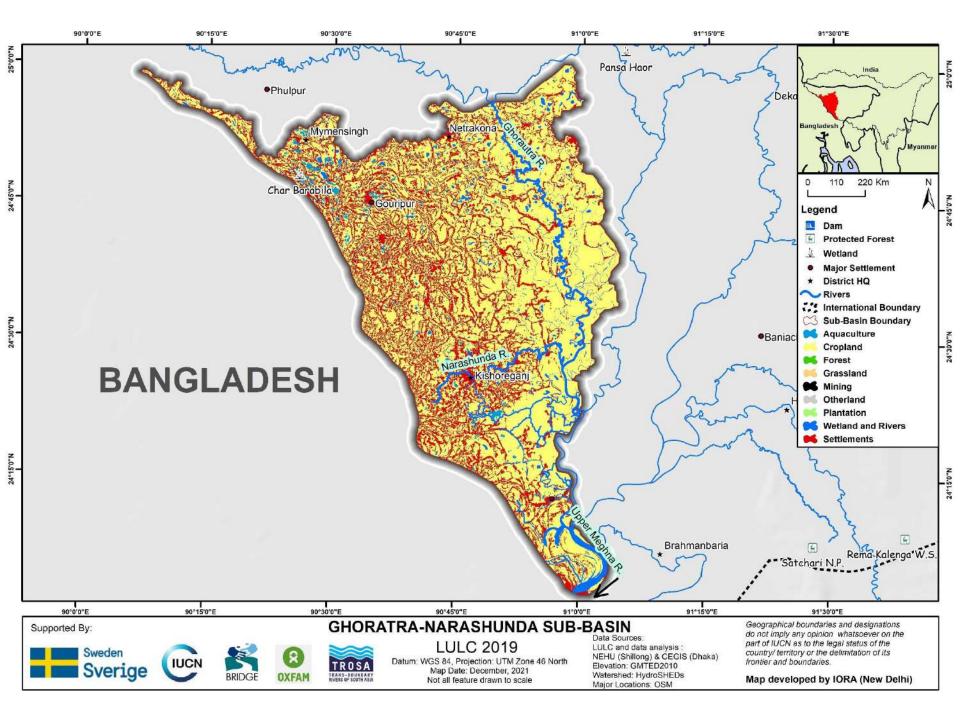


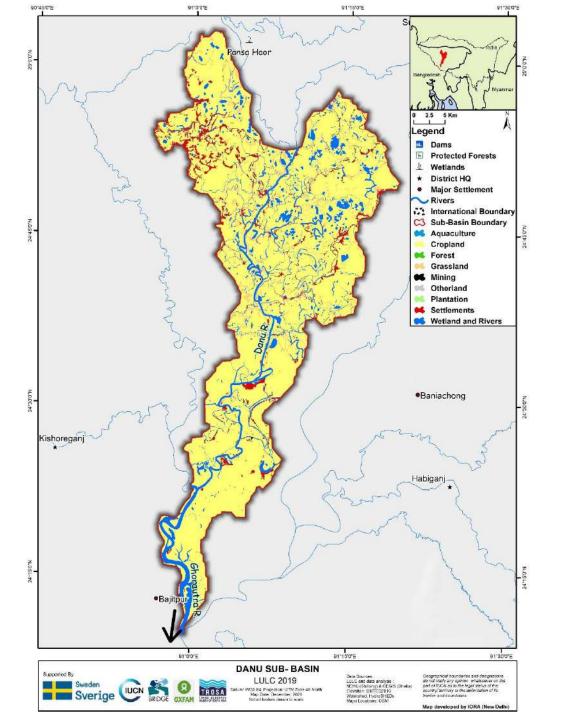


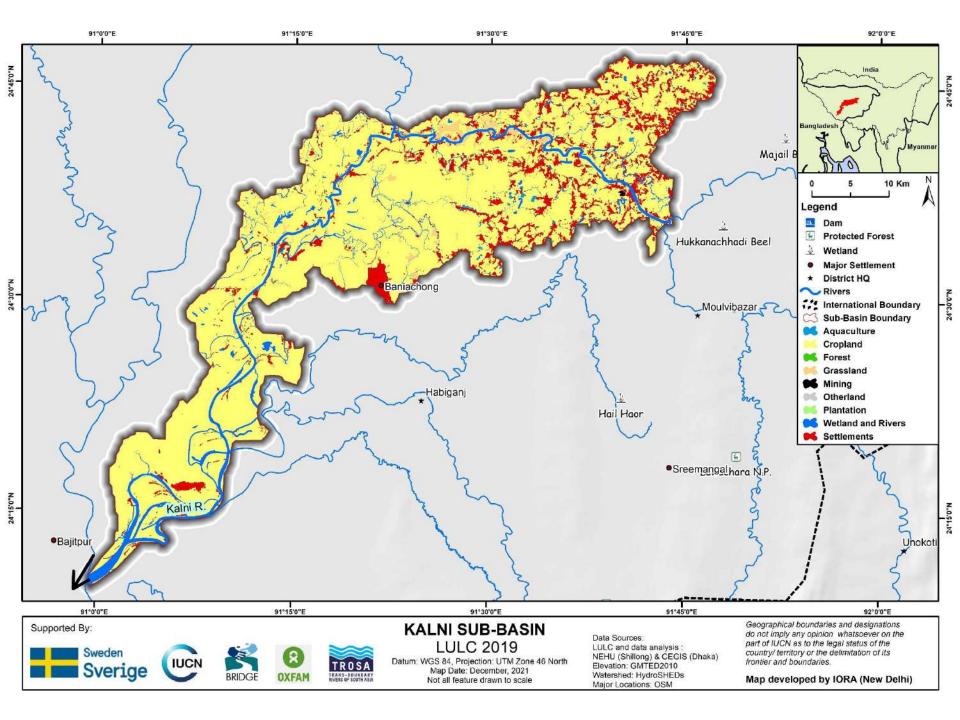




2019 land use maps - Meghna sub-basins (fully in Bangladesh)







Thank you!

