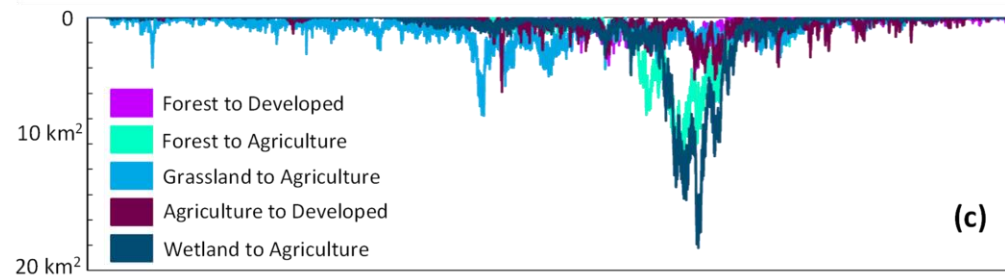
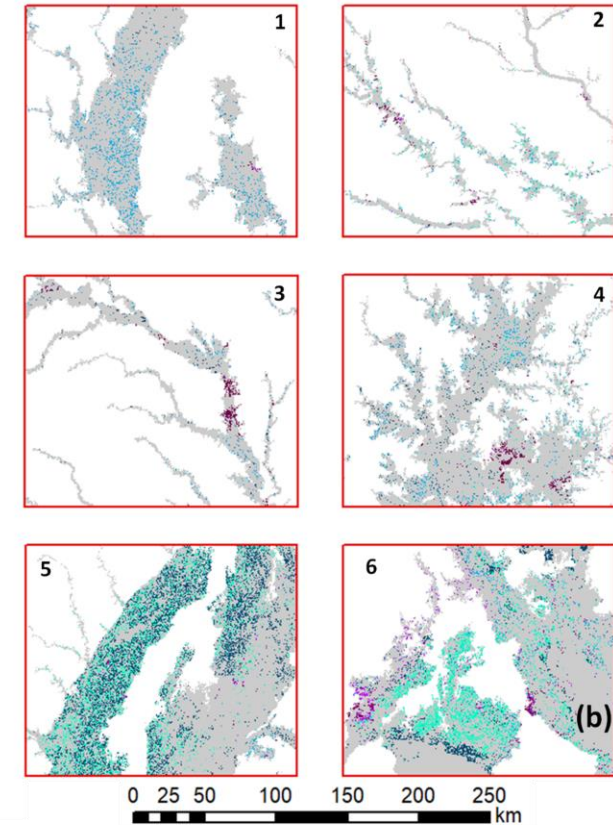
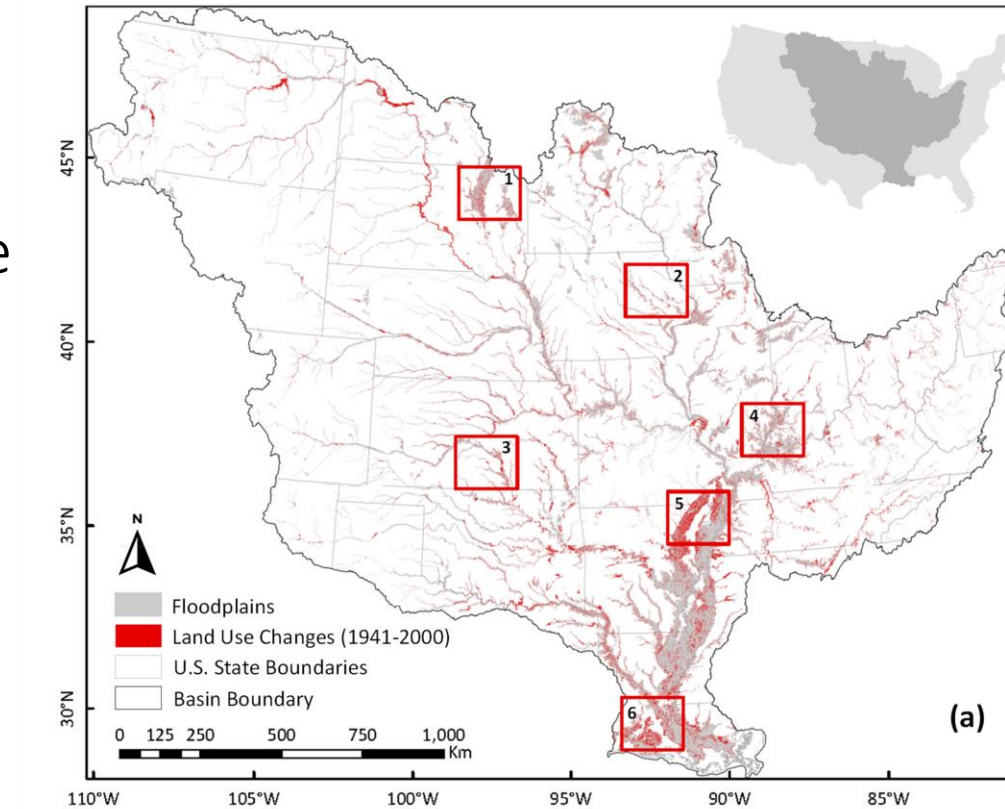


# Significant alterations of the Mississippi floodplains(1941-2000)

- The first data to quantify land use change along the Mississippi floodplains at 250-m resolution
- Nearly **35,000 km<sup>2</sup>** loss of natural floodplains within 60 years
- Irreversible transitions



Major Transitions		Change Area (km <sup>2</sup> )
Forest to Developed		2,883
Forest to Agriculture		7,971
Grassland to Agriculture		9,074
Agriculture to Developed		4,325
Wetland to Agriculture		10,284

(d)

# Achieving Open Science of Floodplain Land Use Change by Developing New Data Products

- Google Earth Engine interactive map: <https://gishub.org/mrb-floodplain>
- HydroShare repository: [DOI: 10.4211/hs.41a3a9a9d8e54cc68f131b9a9c6c8c54](https://doi.org/10.4211/hs.41a3a9a9d8e54cc68f131b9a9c6c8c54)
- Online tutorial on python code: <https://serc.carleton.edu/hydromodules/steps/241489.html>

Rajib, A., Zheng, Q., Golden, H.E. *et al.* 2021. The changing face of floodplains in the Mississippi River Basin detected by a 60-year land use change dataset. *Nature Scientific Data* 8. DOI:10.1038/s41597-021-01048-w

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