

# Annual Maps of Eastern Redcedar Forests in Oklahoma during 1984-2010 at 30-m Resolution from Landsat and PALSAR Images

## Summary

Woody plant encroachment in grasslands has been rapidly increasing in Oklahoma. The researchers at the Earth Observation and Modeling Facility, University of Oklahoma carried out a pilot project to map and report the dynamics of eastern redcedar forest encroachment at 5-year interval (epoch) from 1984 to 2010 in Oklahoma.

## Data and Methods

We use images from PASAR at 25-m spatial resolution in 2010 and Landsat TM and ETM+ at 30-m spatial resolution during 1984-2010. Detailed information on the eastern redcedar forest mapping algorithm and annual maps of eastern redcedar forests are reported in Wang et al., (2017).

## Provisional Data Product for Eastern RedCedar Forests during 1984 - 2010

Figure 1 shows the spatial-temporal dynamics of eastern redcedar forests in Landsat P28/R35 tile

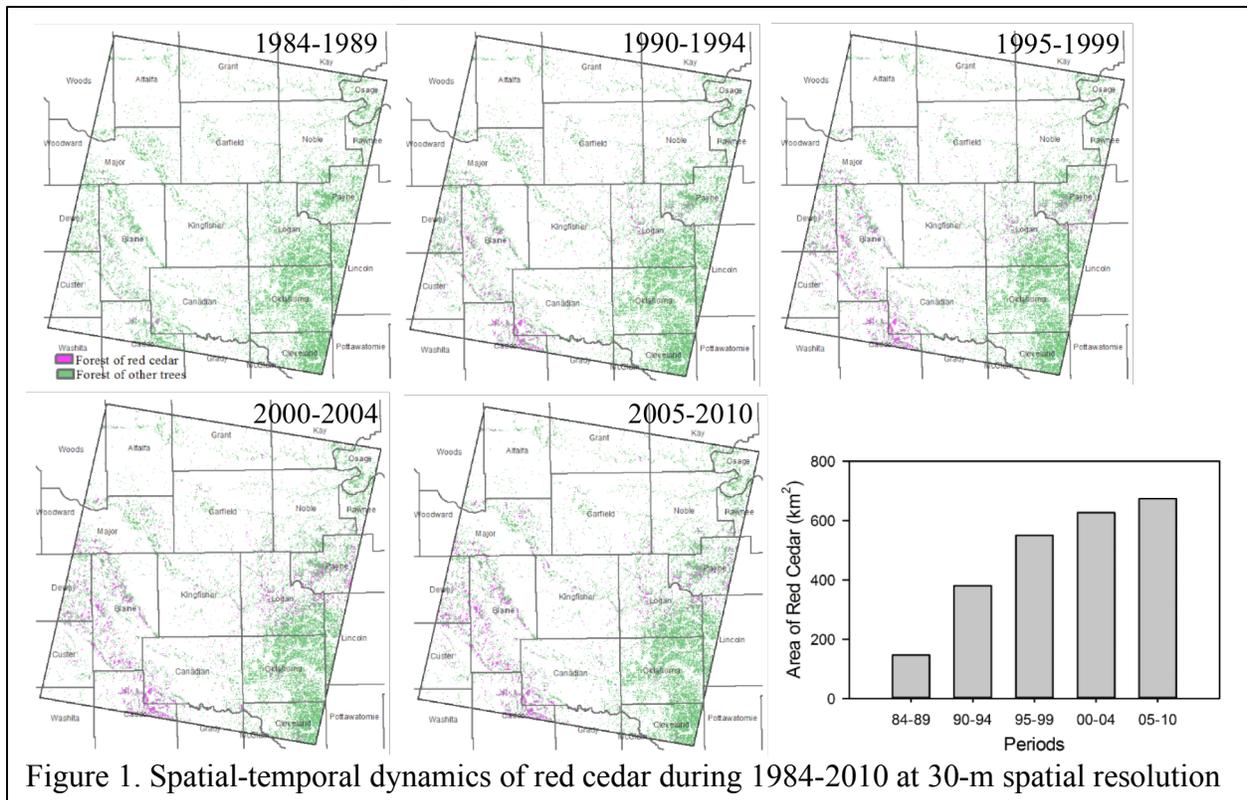


Figure 1. Spatial-temporal dynamics of red cedar during 1984-2010 at 30-m spatial resolution

## Reference

Wang, J., et al., 2017, Mapping the dynamics of eastern redcedar encroachment into grasslands during 1984-2010 through PALSAR and time series Landsat images, *Remote Sensing of Environment*, 190: 233-246.

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