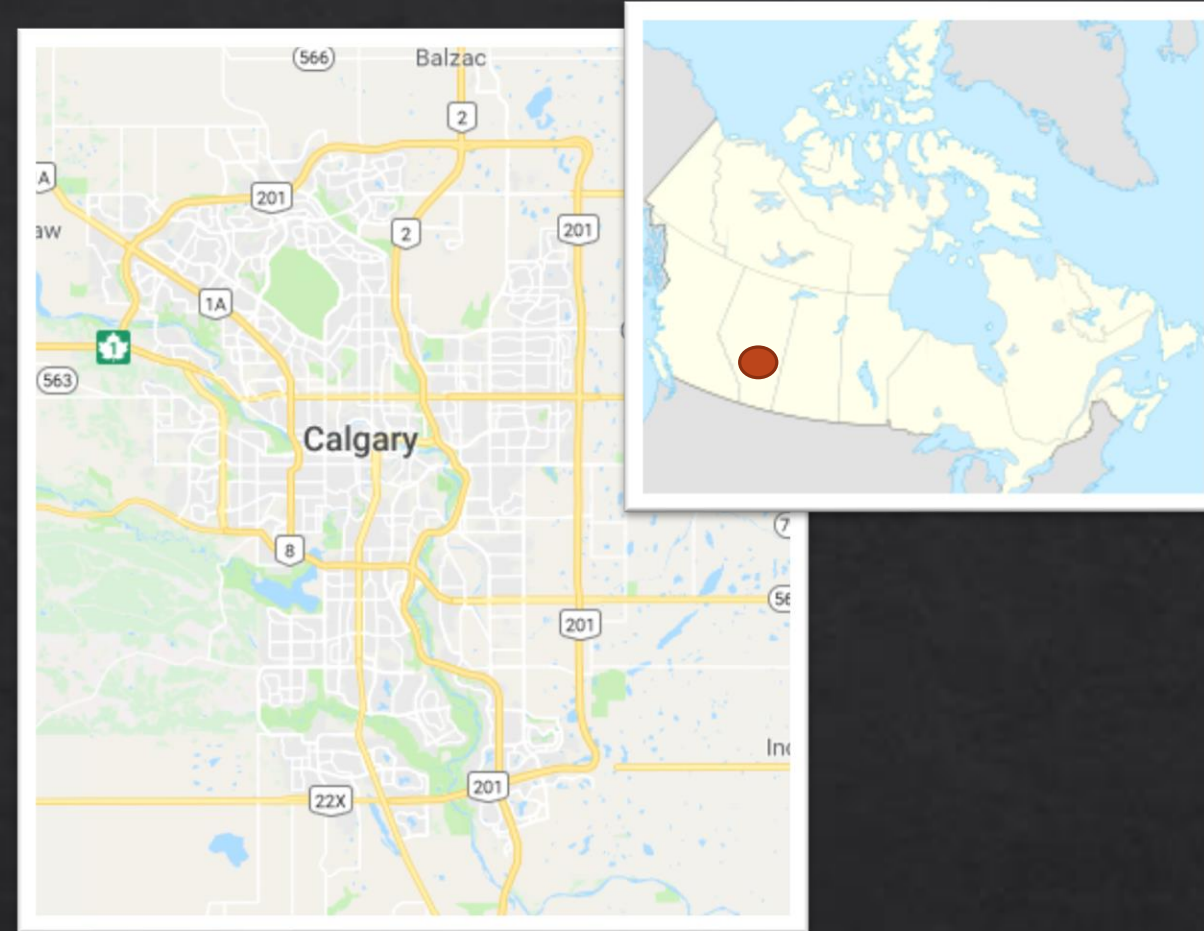
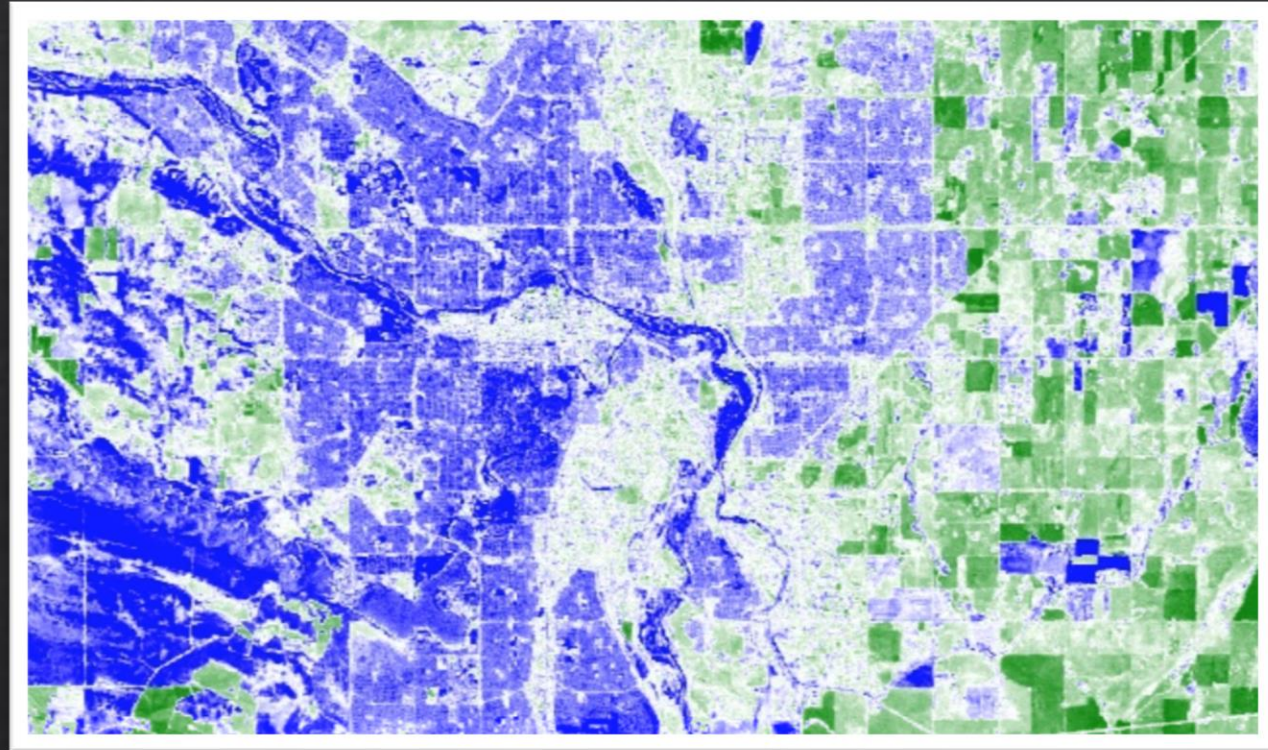
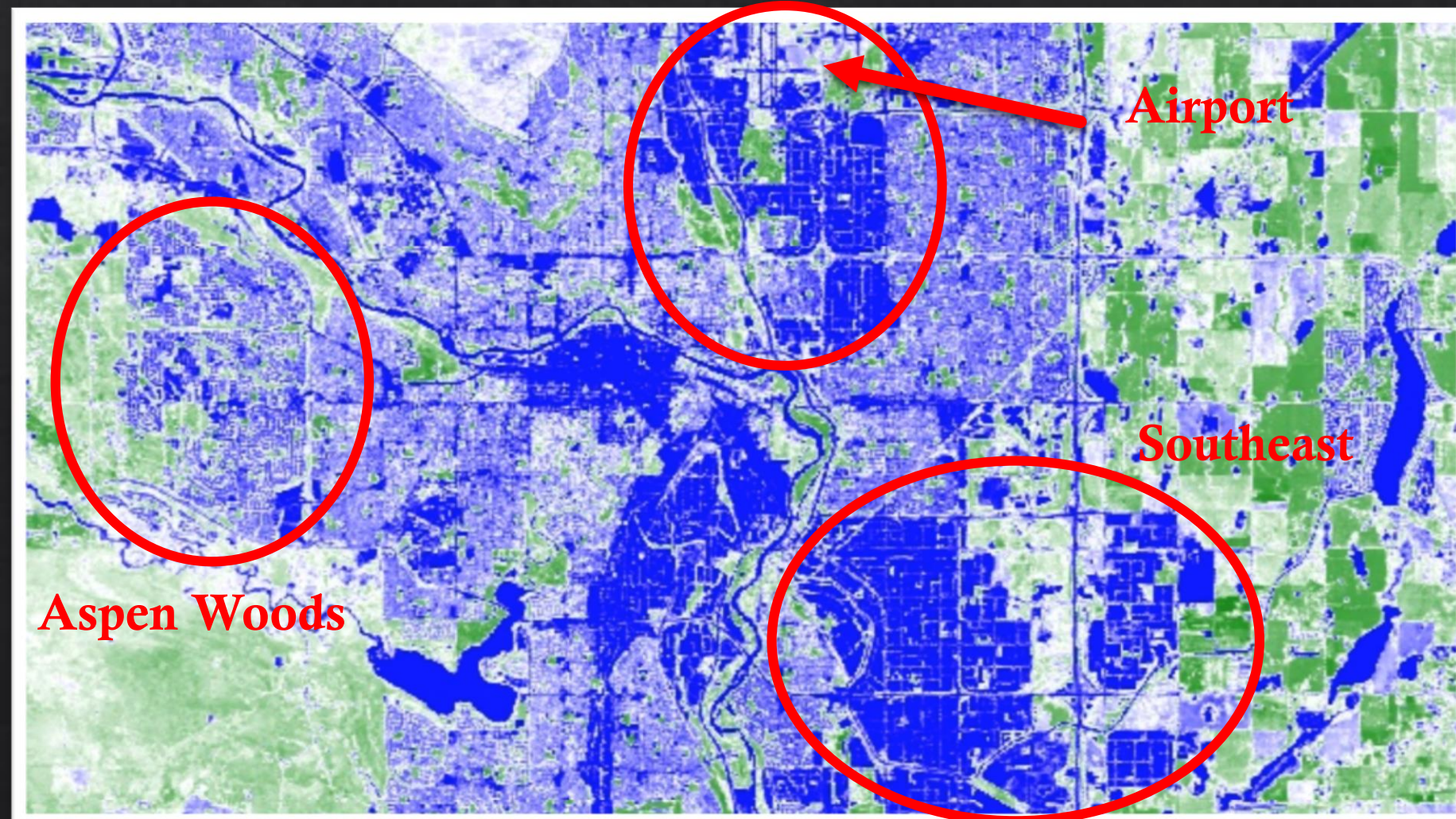


# Urban Growth, Calgary AB, Canada 1988 - 2016



The 1988 true color images from Landsat 4 & 5 show the lack of development in the Northeast (airport) area, and only limited growth in the Southeast. The Aspen Woods neighborhood to the west of downtown is virtually non-existent

The top image is 1988 NDVI imagery collected from Landsat 5. Bands 4 & 5 were isolated and color corrected to differentiate urban areas v. vegetation. The blue grids of urban development are obvious.



The image to the right is 2016 data from Landsat 8, manipulated in the same manner. Increased urban areas are immediately recognizable in the Aspen Woods, Southeast, and Airport areas.



The 2017 true color image shows dramatic differences to those neighborhoods. Moreover, the industrial district (at center) has changed, either in density, building type, or both.

View the Earth Engine Code: <https://tinyurl.com/ycozorge>

Sources: Google Earth Engine, Google Earth Engine Timelapse, Landsat 4,5,8.  
[https://developers.google.com/earth-engine/tutorial\\_api\\_06](https://developers.google.com/earth-engine/tutorial_api_06)