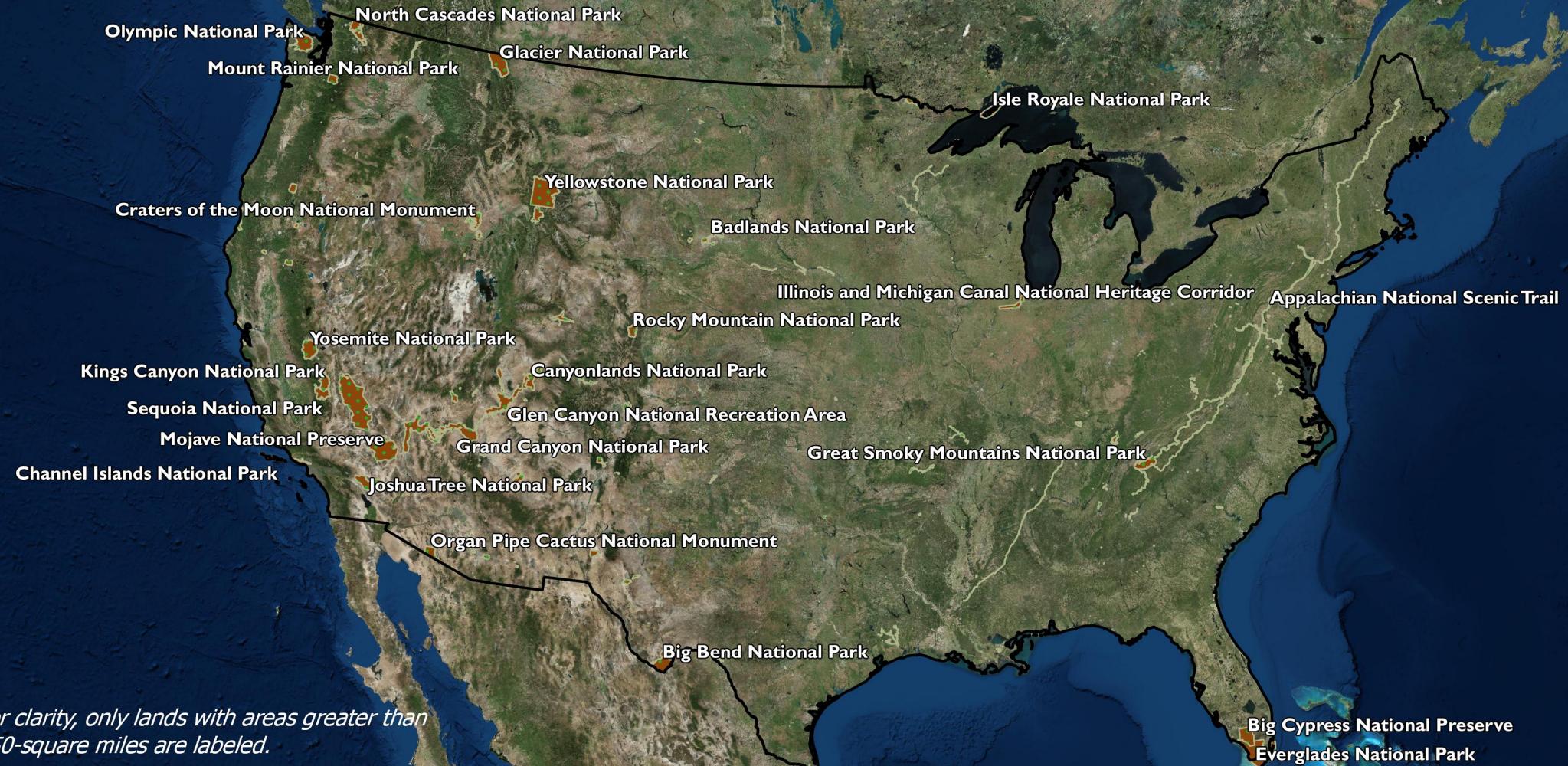


Public Lands in the Continental United States



For clarity, only lands with areas greater than 350-square miles are labeled.

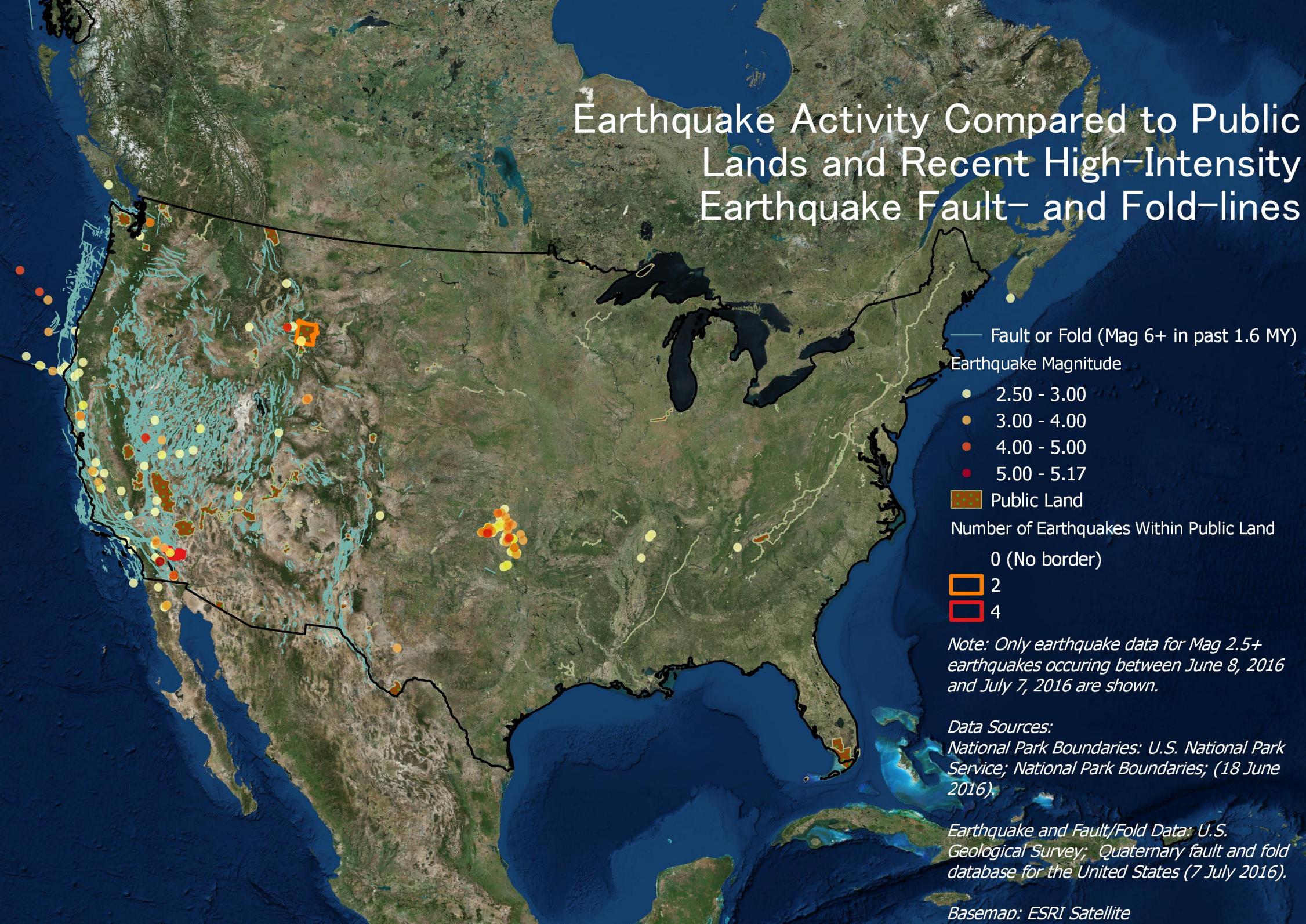
Data Sources:

National Park Boundaries:

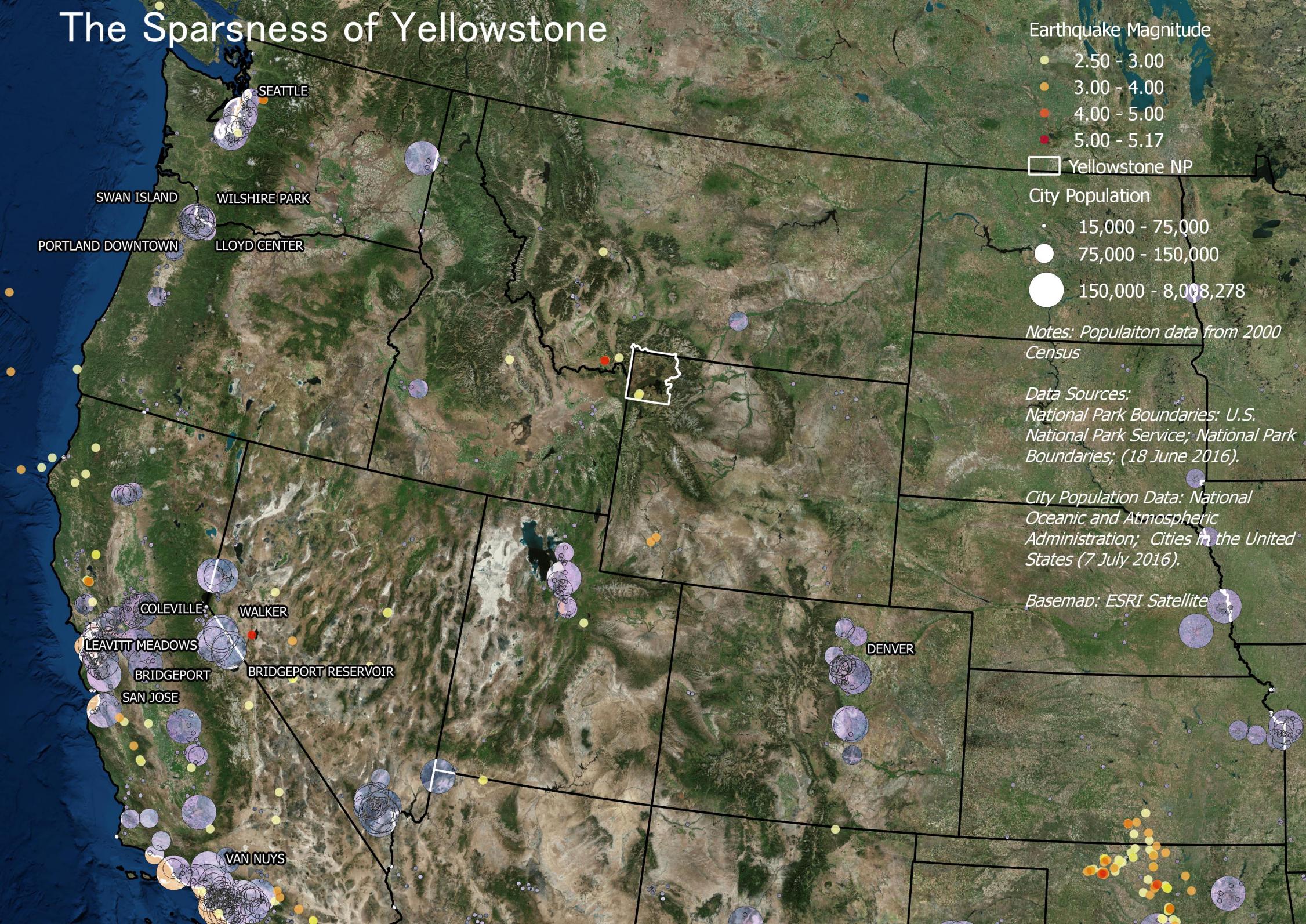
U.S. National Park Service; National Park Boundaries; (18 June 2016).

Basemap: ESRI Satellite

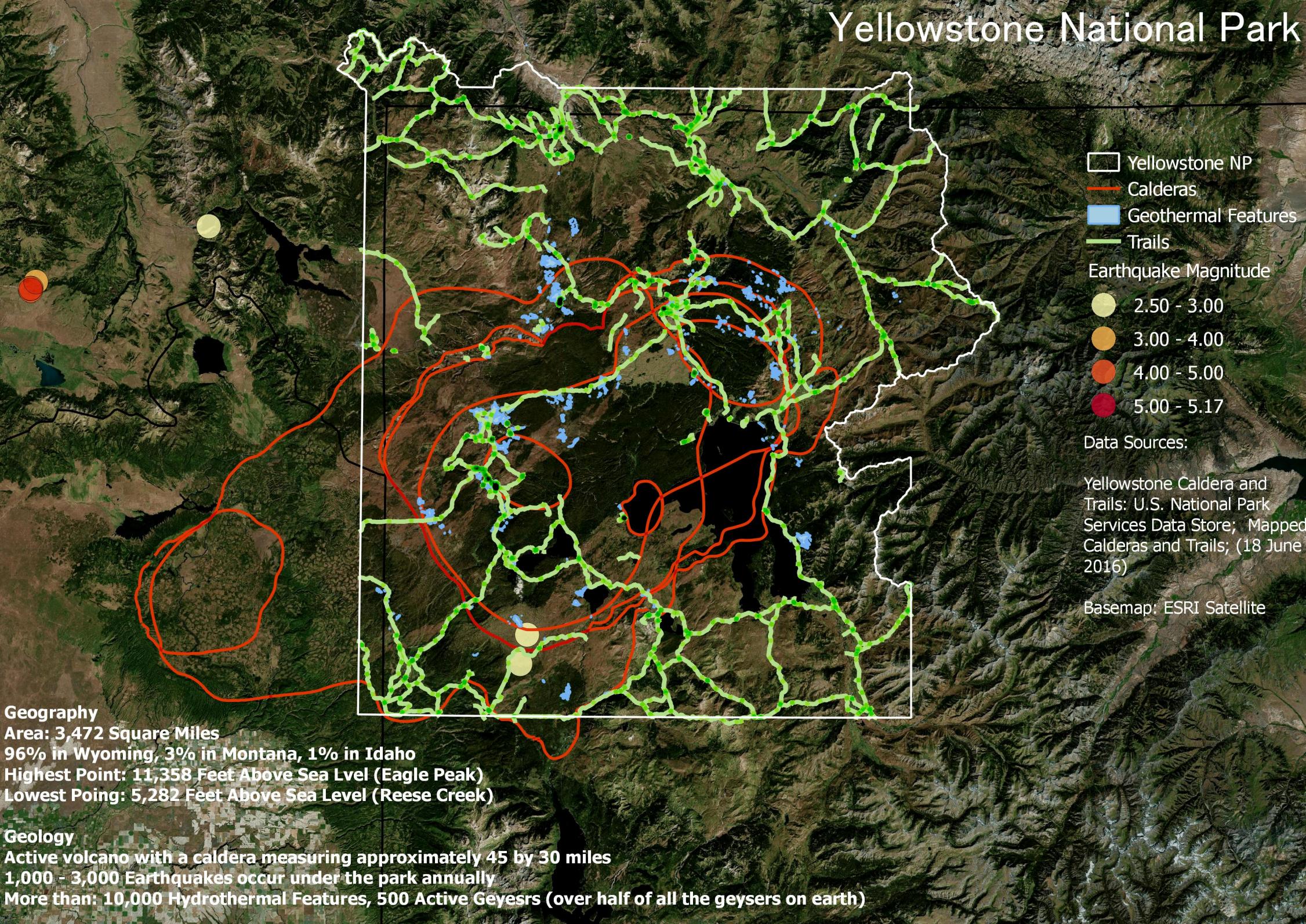
Earthquake Activity Compared to Public Lands and Recent High-Intensity Earthquake Fault- and Fold-lines



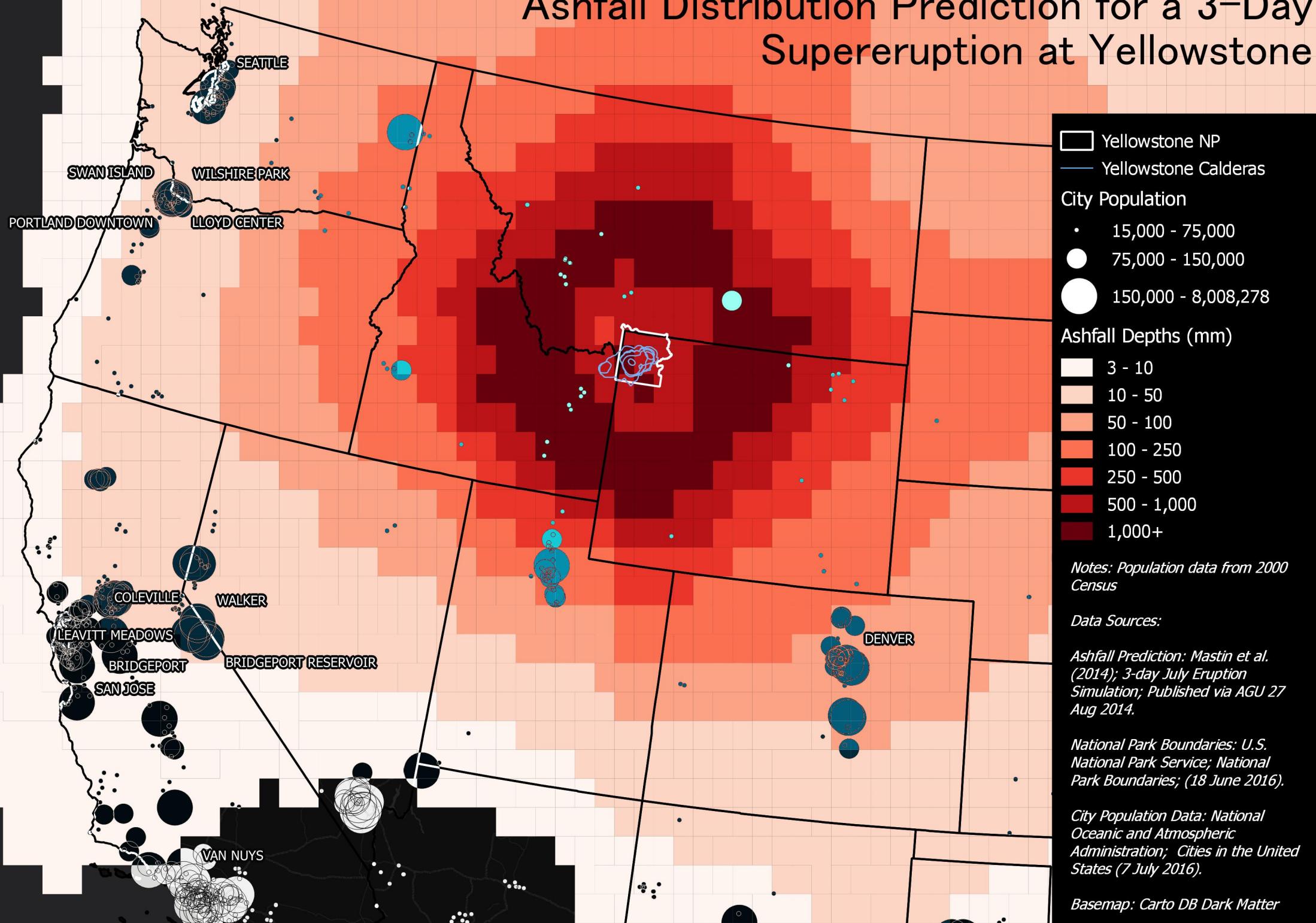
The Sparseness of Yellowstone



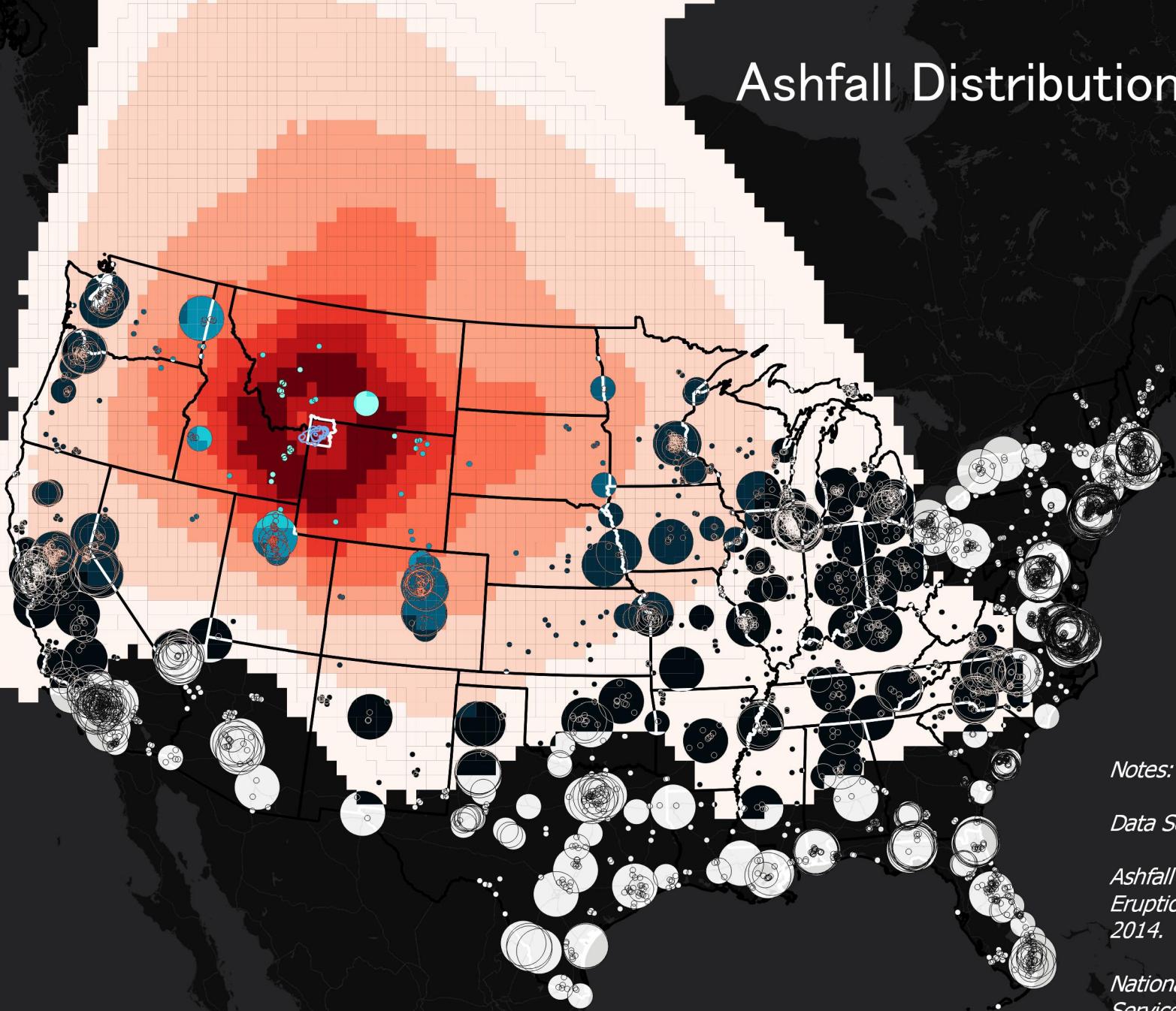
Yellowstone National Park



Ashfall Distribution Prediction for a 3-Day Supereruption at Yellowstone



Ashfall Distribution on National Scale



Notes: Population data from 2000 Census

Data Sources:

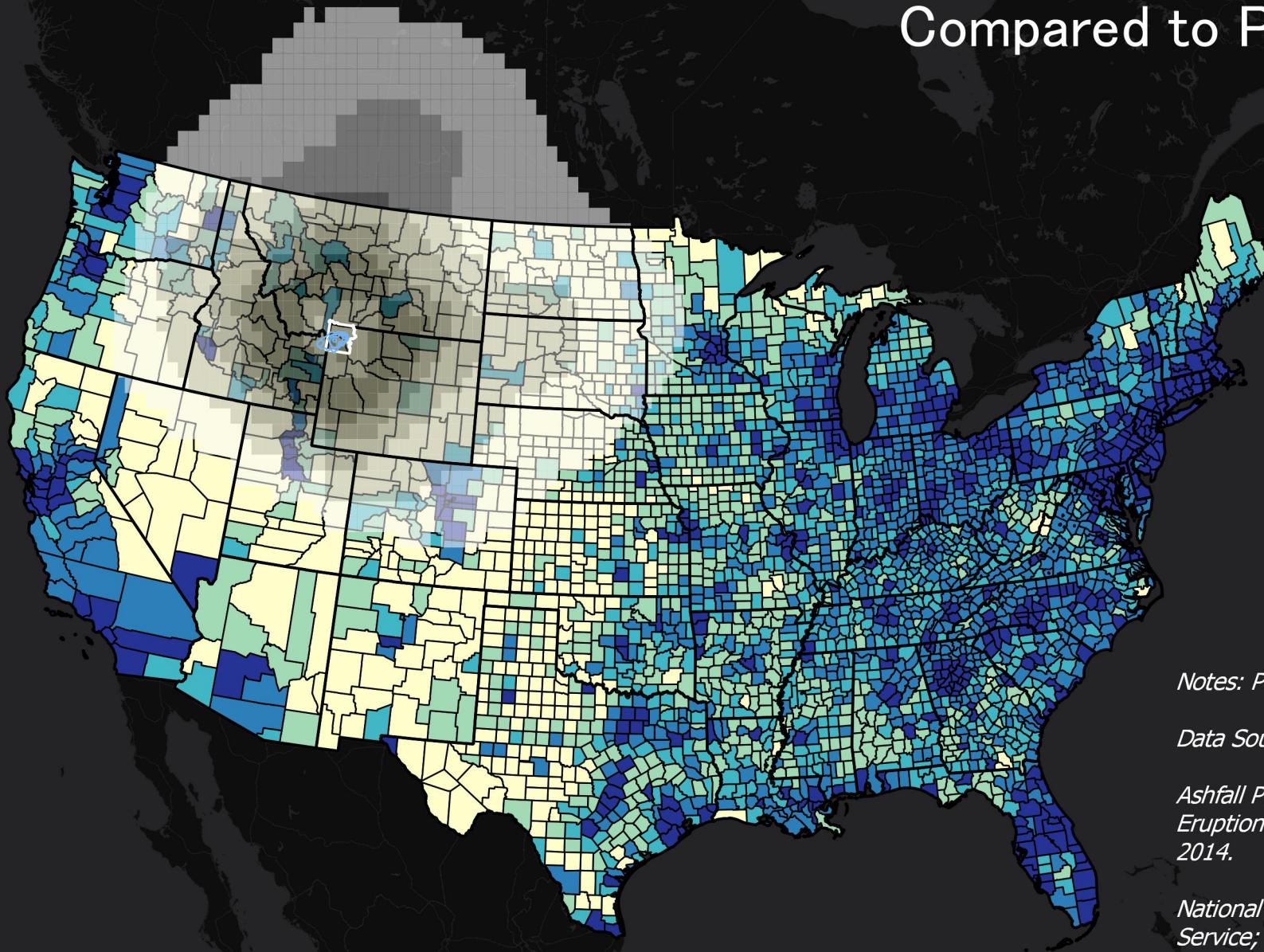
Ashfall Prediction: Mastin et al. (2014); 3-day July Eruption Simulation; Published via AGU 27 Aug 2014.

National Park Boundaries: U.S. National Park Service; National Park Boundaries; (18 June 2016).

City Population Data: National Oceanic and Atmospheric Administration; Cities in the United States (7 July 2016).

Basemap: Carto DB Dark Matter

Ashfall Distribution on a National Scale Compared to Population Density



Yellowstone NP
Yellowstone Calderas

Population Per Square Mile

<10
10 to 30
30 to 60
60 to 200
>200

Ashfall Depth (mm)

50 - 100
100 - 250
250 - 500
500 - 1,000
1,000+

Notes: Population data from 2010 Census

Data Sources:

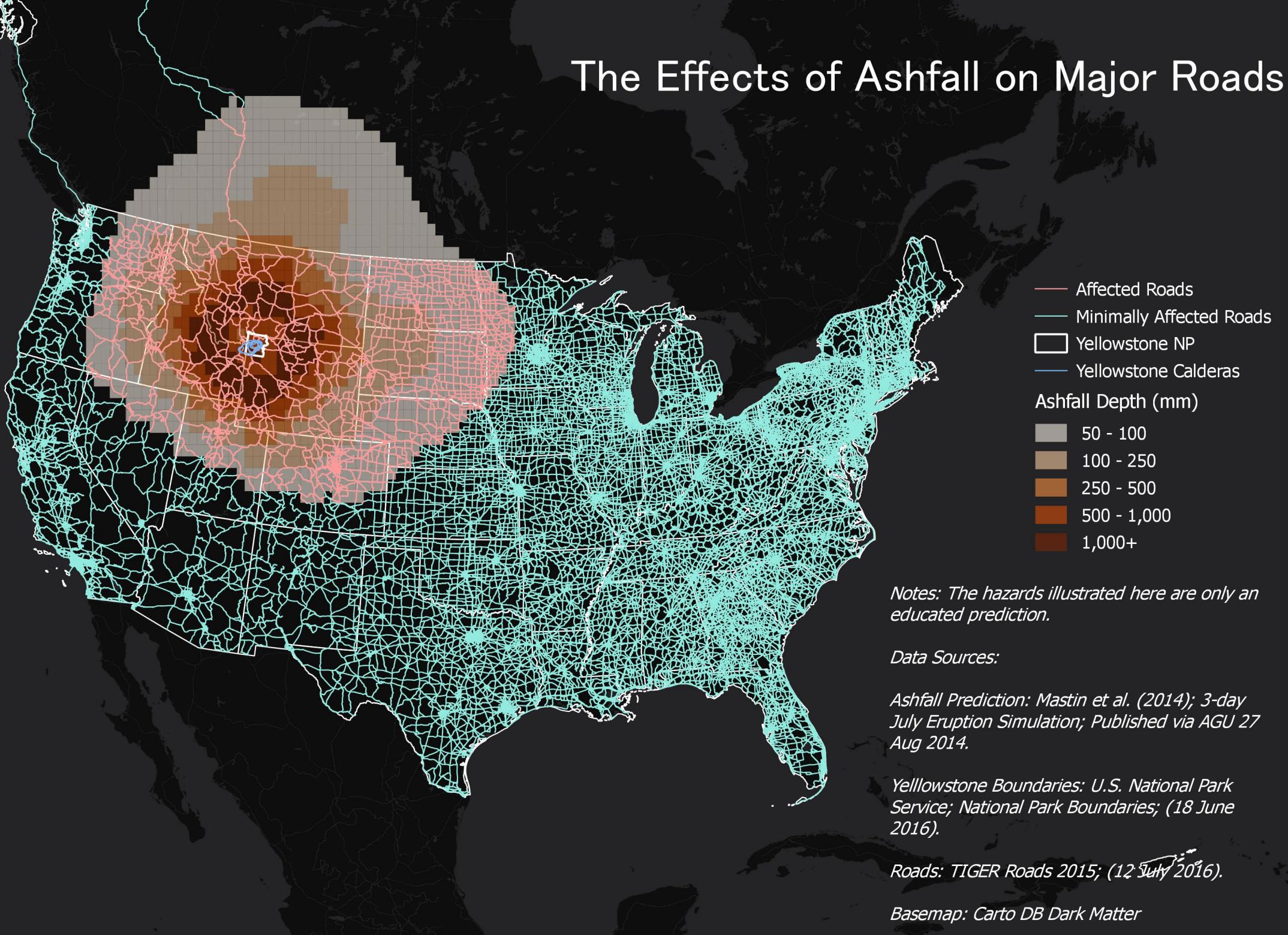
Ashfall Prediction: Mastin et al. (2014); 3-day July Eruption Simulation; Published via AGU 27 Aug 2014.

National Park Boundaries: U.S. National Park Service; National Park Boundaries; (18 June 2016).

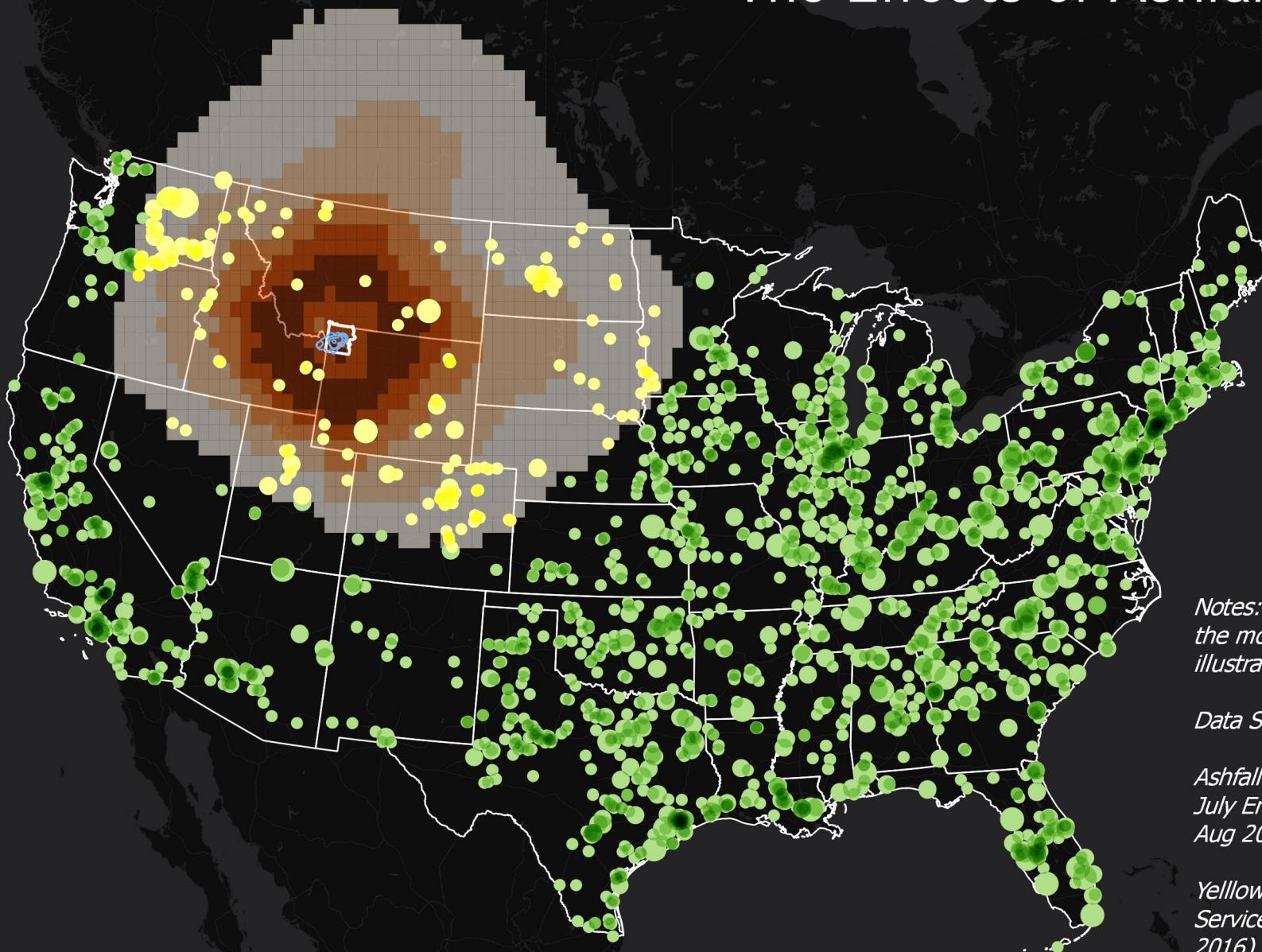
City Population Data: American Fact Finder; Population by County, 2010 Census (7 July 2016).

Basemap: Carto DB Dark Matter

The Effects of Ashfall on Major Roads



The Effects of Ashfall on Power Plants



Power Plant Output (MW)

- 100 - 750
- 750 - 2,000
- 2,000 - 4,000
- 4,000+

Yellowstone NP

Yellowstone Calderas

Ashfall Depth (mm)

- 50 - 100
- 100 - 250
- 250 - 500
- 500 - 1,000
- 1,000+

Notes: Power plant generation output shown for the month of November 2015. The hazards illustrated here are only an educated prediction.

Data Sources:

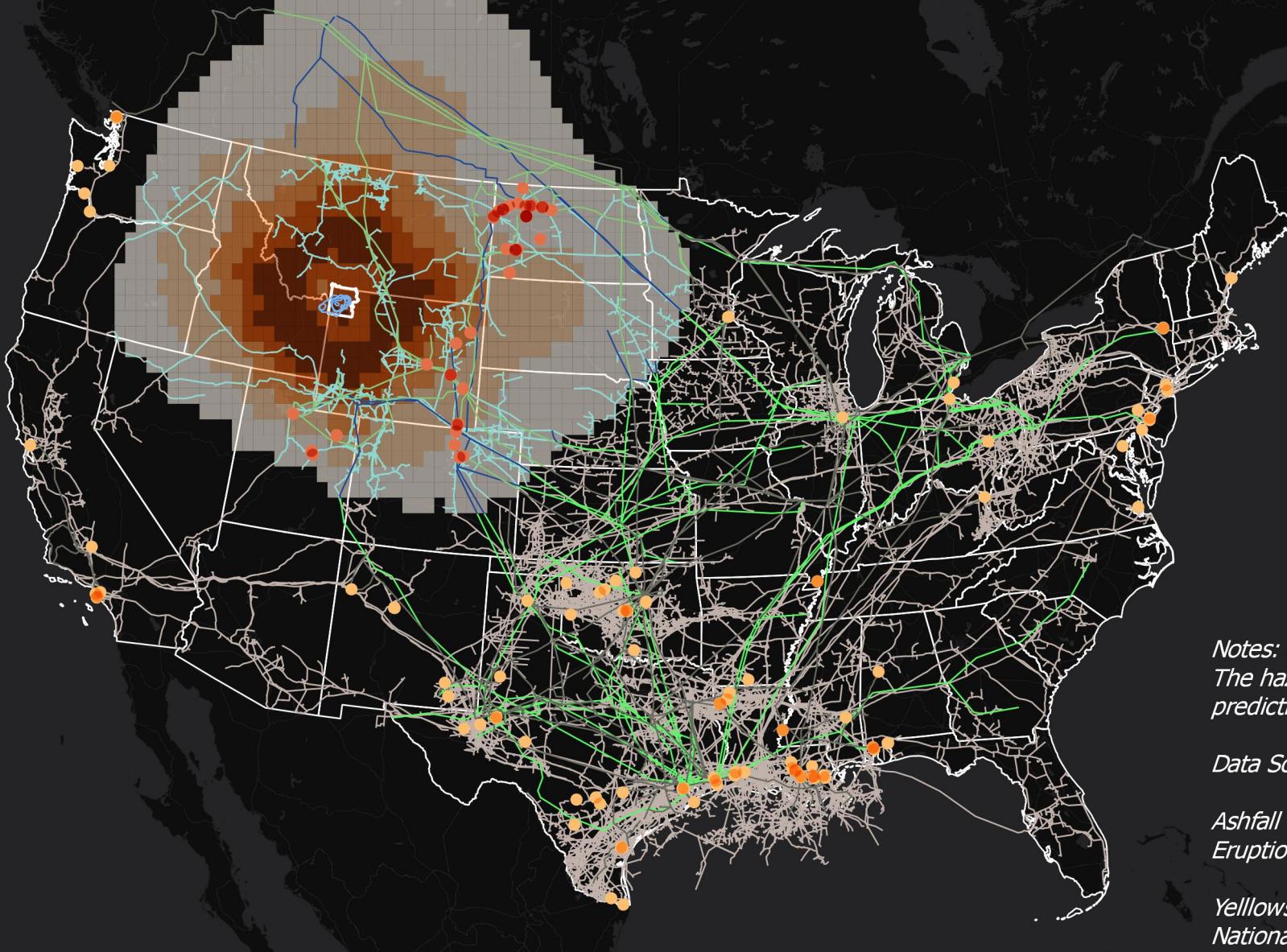
Ashfall Prediction: Mastin et al. (2014); 3-day July Eruption Simulation; Published via AGU 27 Aug 2014.

Yellowstone Boundaries: U.S. National Park Service; National Park Boundaries; (18 June 2016).

Powerplants: U.S. Energy Information Administration Monthly Records for 11/2015; (07 July 2016).

Basemap: Carto DB Dark Matter

The Effects of Ashfall on Domestic Oil Transportation



Notes: Pipeline and Rail data from November 2014. The hazards illustrated here are only an educated prediction.

Data Sources:

Ashfall Prediction: Mastin et al. (2014); 3-day July Eruption Simulation; Published via AGU 27 Aug 2014.

Yellowstone Boundaries: U.S. National Park Service; National Park Boundaries; (18 June 2016).

Various Pipeline and Rail Data: U.S. Energy Information Administration Records Current as 11/2014; (07 July 2016).

Basemap: Carto DB Dark Matter

At Risk Roads and Energy Infrastructure

