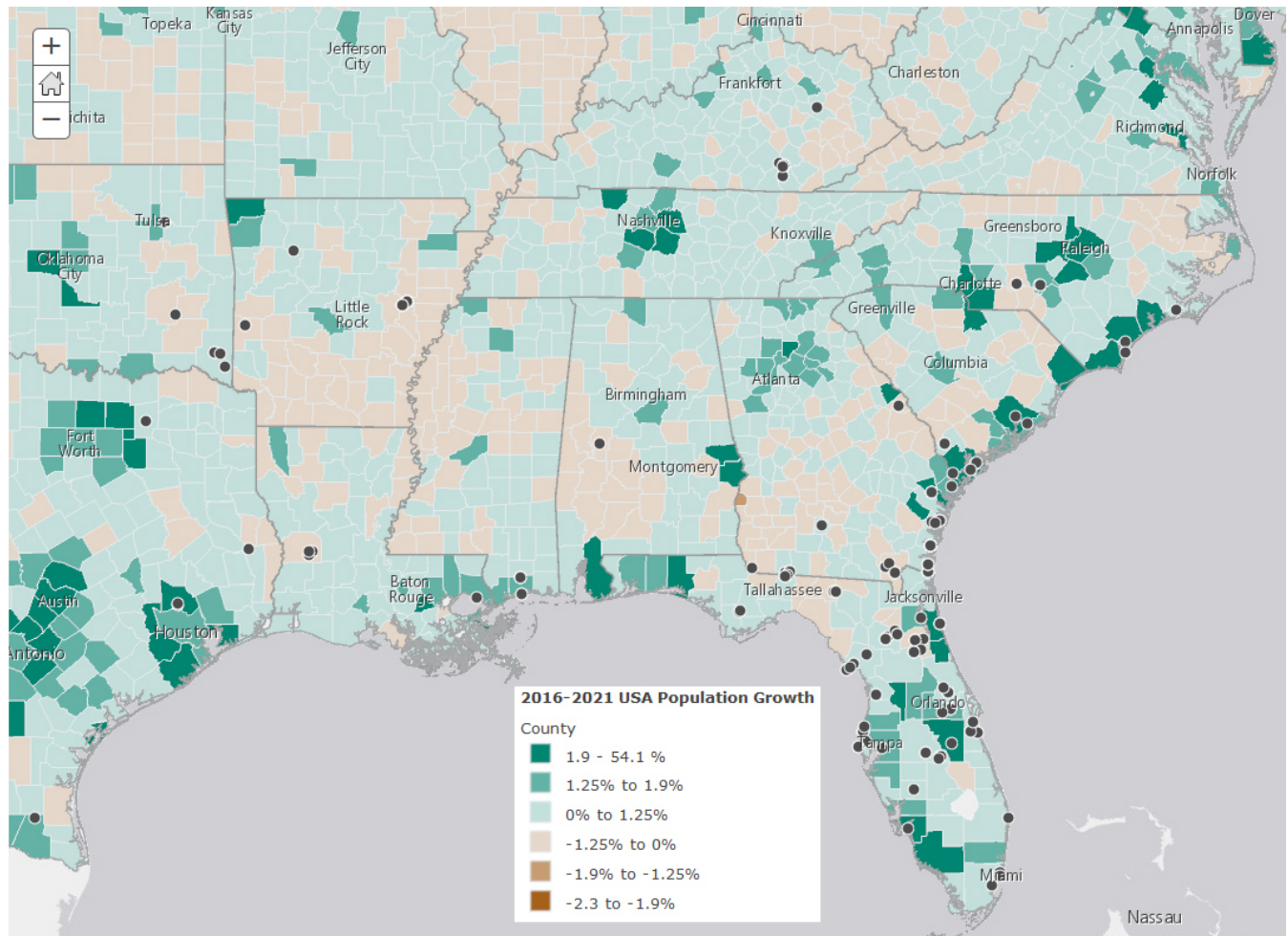**Fantastic Birds and Where to Find Them: Create a Reserve Worksheet**
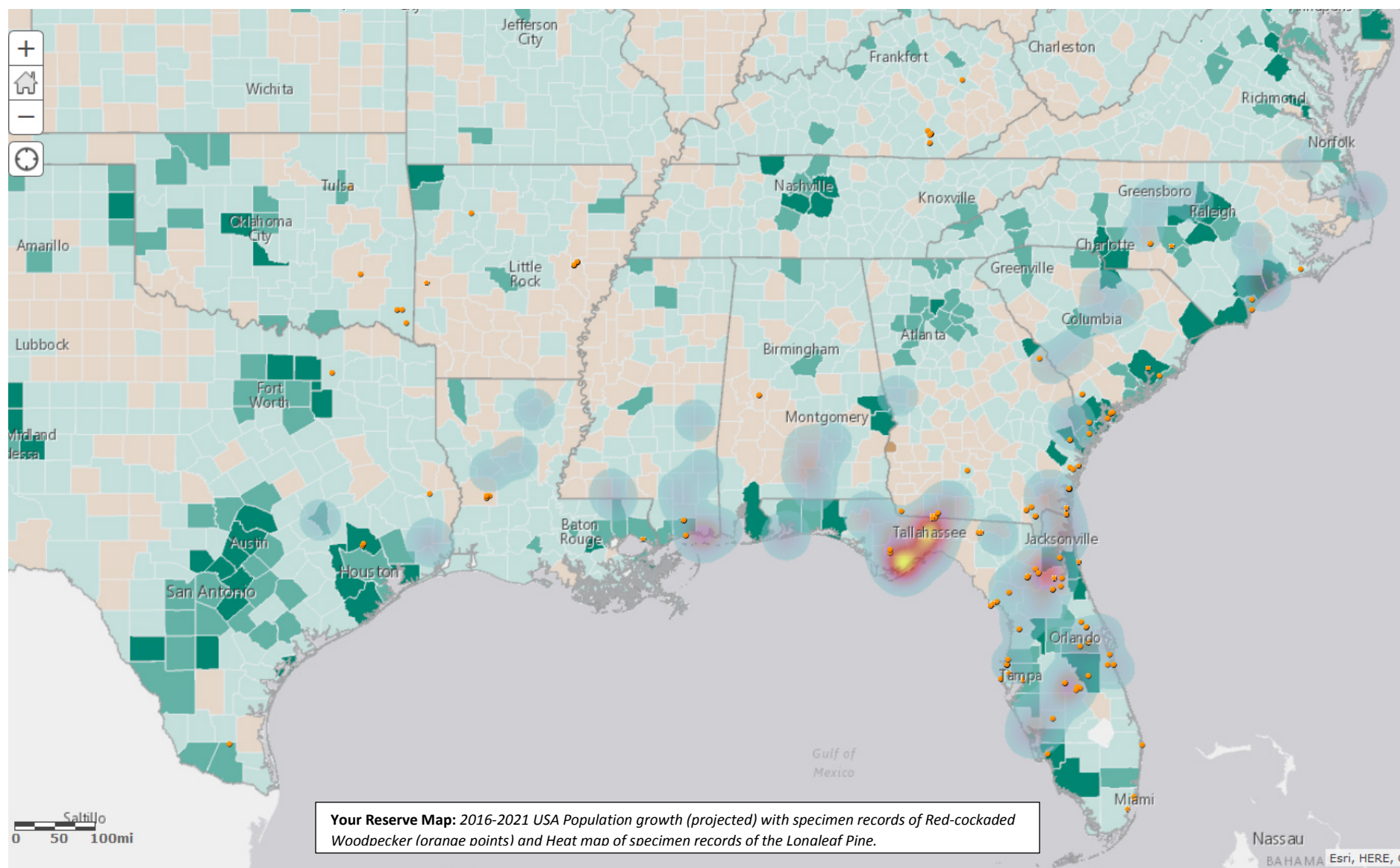
The Red-cockaded Woodpecker is an endangered species and is declining throughout its range. The primary reason for the decline is loss of habitat resulting from deforestation and fire suppression, which have altered much of the southern pine forest ecosystems. Both fire suppression and deforestation are directly related to human population.

Map 5: *2016-2021 USA Population growth (projected) with specimen records of Red-cockaded Woodpecker (orange points).*

9. Circle areas on Map 5 that you would predict to see increased human-woodpecker conflicts in the future based on the projected increase in human population.

Finally, based on the information you have received about Red-cockaded Woodpecker range and distribution (map 1), habitat selection (maps 2, 3 and 4) and current threats (map 5) draw in where you would suggest creating Red-cockaded Woodpecker reserves in the map below. As a guide this map displays projected population growth, Longleaf Pine records (heat map) as well as woodpecker specimen records (orange points). You can also look back at any of the other maps for reference. Keep in mind feasibility and use the scale bar to envision realistically sized reserve areas. Choose up to three.

Your Reserve Map: *2016-2021 USA Population growth (projected) with specimen records of Red-cockaded Woodpecker (orange points) and Heat map of specimen records of the Longleaf Pine.*

10. Explain why you chose the areas you chose.

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What are some of the benefits to using natural history collections data to evaluate distribution? Are there drawbacks?

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Explain to a lawmaker why they should consider creating a reserve for Red-cockaded Woodpeckers. Why should they care?

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