science for a changing world

EXAMINING NEAR TERM HYDROLOGIC FORECASTS FOR THE GREATER EVERGLADES

Key Takeaways

EverForecast performs best within the first 2 months of the forecast

EverForecast shows variation in individual gage performance between wet and dry seasons and between water years Largest percent exceedances (EDEN falls outside EverForecast) in the upland areas of Everglades National Park

EverForecast

Objectives

*Caitlin E. Hackett*¹

Saira M. Haider³

Gregory Guillory⁴

Stephanie S. Romañach²

¹U.S. Geological Survey, Davie, FL, USA

to the U.S. Geological Survey, LA, USA

Everglades Management Area

²U.S. Geological Survey, Gainesville, FL, USA

³U.S. Geological Survey, Columbus, OH, USA

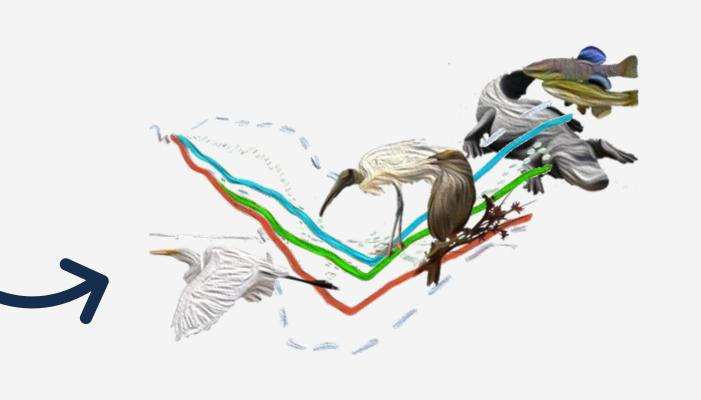
⁴Cherokee Nation System Solutions, contracted

Hydrologic and multi-species web tool designed to support natural resource management in the Everglades



Center's 3-month average precipitation outlooks

Historical stages from the **Everglades Depth Estimation** Network (EDEN)



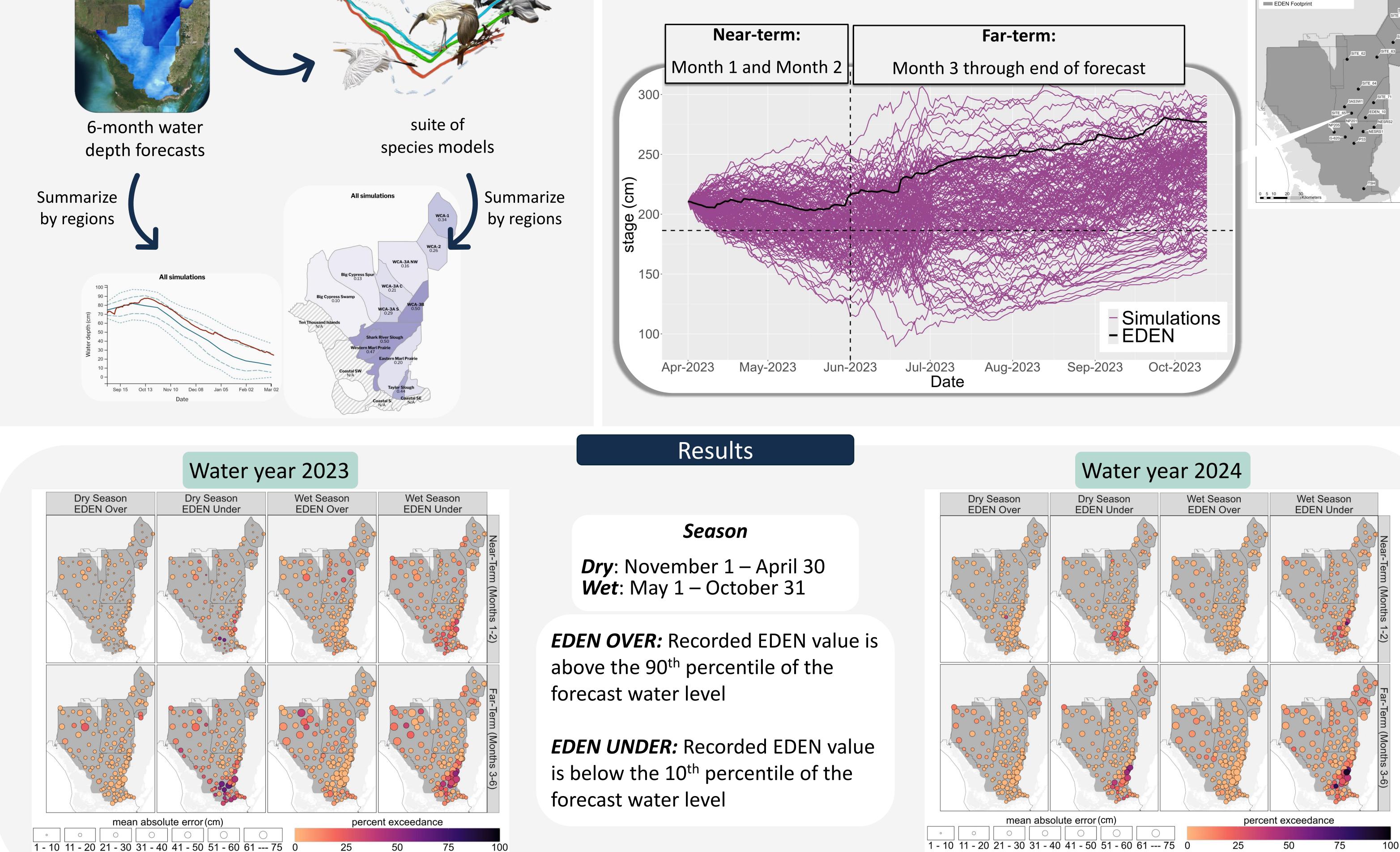
Evaluate EverForecast's performance under ongoing ecosystem restoration and changing climatic conditions

Provide users with insights into the accuracy of EverForecast's predictions for different seasons and at each gage

Methods

1) Does EverForecast capture natural variation in water levels? **Percent Exceedance** – percent EDEN falls outside forecast

2) How closely does EverForecast predict recorded water levels? *Mean Absolute Error* – distance between EDEN and forecast



U.S. Department of the Interior U.S. Geological Survey

