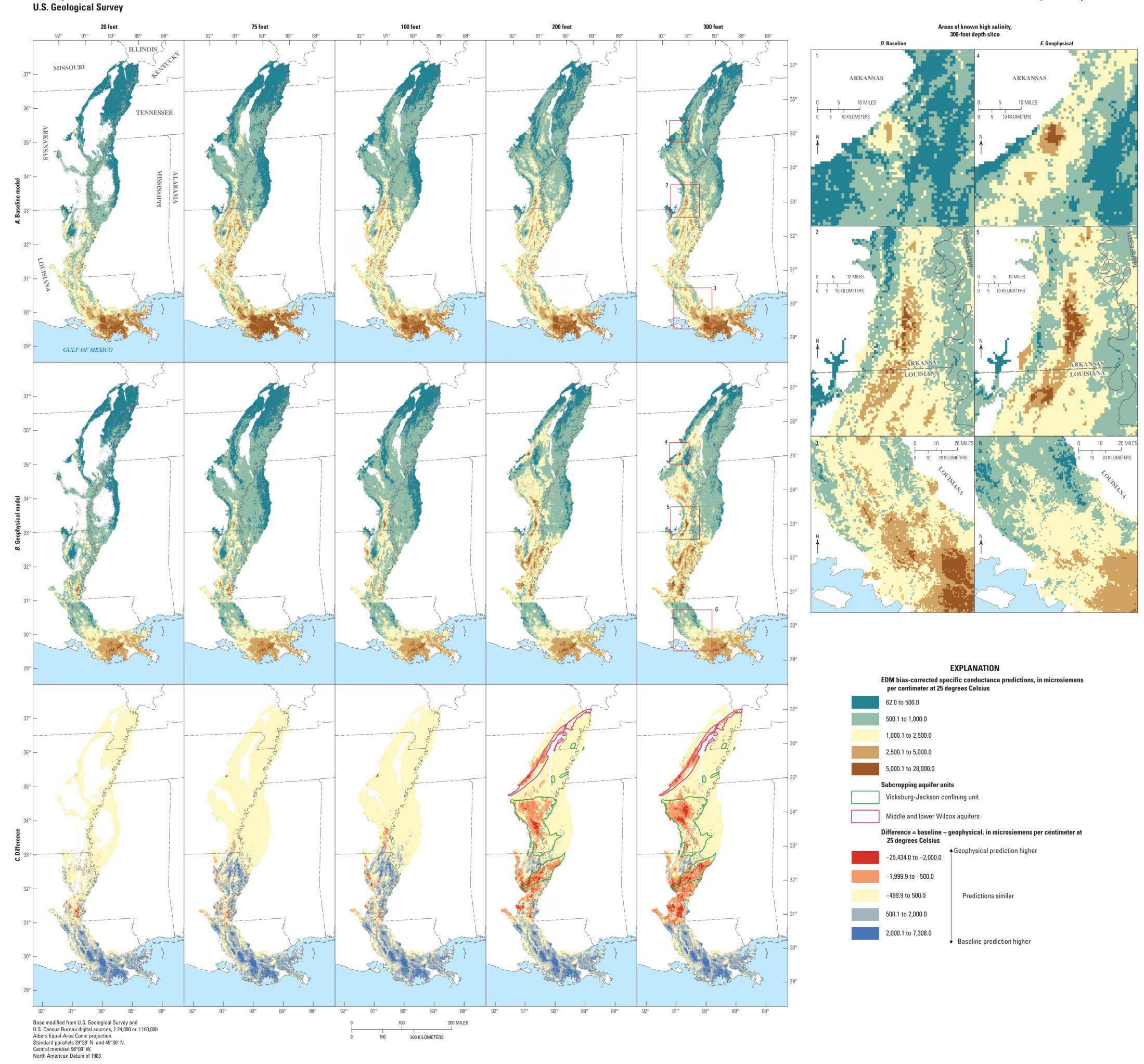
U.S. Department of the Interior

Scientific Investigations Report 2023–5099



Raster Predictions of Specific Conductance at Groundwater Wells by Depth in the Mississippi Alluvial Plain Region

Plate 1. Raster predictions of specific conductance at groundwater wells by depth slice for the A, baseline and B, geophysical models; C, of the difference between the predictions by the baseline and geophysical models; and of the predictions at the 300-foot depth slice by the D, baseline and E, geophysical models for areas of known high salinity in the Mississippi Alluvial Plain region. Model datasets (1942–2020) from U.S. Geological Survey (2021) and Killian and Knierim (2023); EDM, empirical distribution matching.

By
Courtney D. Killian and Katherine J. Knierim
2023

Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

This map or plate is offered as an online-only, digital publication. Users should be aware that, because of differences in rendering processes and pixel resolution, some slight distortion of scale may occur when viewing it on a computer screen or when printing it on an electronic plotter, even when it is viewed or printed at its intended publication scale.

Digital files available at https://doi.org/10.3133/sir20235099 and https://doi.org/10.5066/P9WSE8JS

Suggested citation: Killian, C.D., and Knierim, K.J., 2023, Machine-learning predictions of groundwater specific conductance in the Mississippi Alluvial Plain, south-central United States, with evaluation of regional geophysical aerial electromagnetic data as explanatory variables: U.S. Geological Survey Scientific Investigations Report 2023–5099, 36 p., 1 pl., https://doi.org/10.3133/sir20235099.

Associated data for this publication: Killian, C.D., and Knierim, K.J., 2023, Machine-learning model predictions and rasters of groundwater salinity in the Mississippi Alluvial Plain: U.S. Geological Survey data release, https://doi.org/10.5066/P9WSE8JS.

https://doi.org/10.3133/sir20235099