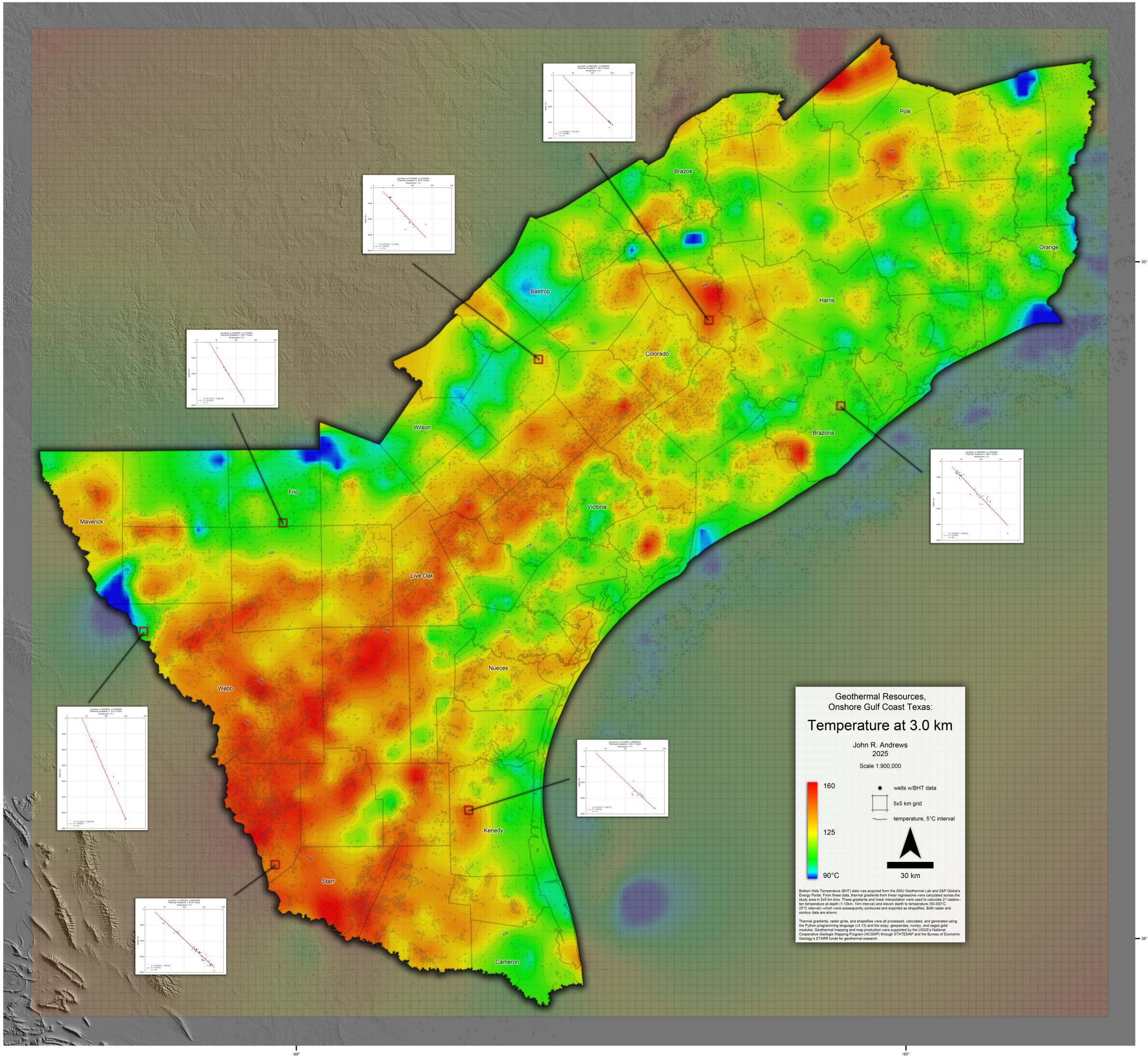


In cooperation with the State of Texas Advanced Resource Recovery (STARR) Program  
and the U.S. Geological Survey National Cooperative Geologic Mapping Program  
under STATEMAP award No. G24AC00505, 2024.



**Geothermal Resources,  
Onshore Gulf Coast Texas:  
Temperature at 3.0 km**

John R. Andrews  
2025

Scale 1:900,000

160  
125  
90°C

● wells w/BHT data  
□ 5x5 km grid  
— temperature, 5°C interval

30 km

Bottom Hole Temperature (BHT) data was acquired from the SMU Geothermal Lab and S&P Global's Energy Portal. From these data, thermal gradients from linear regressions were calculated across the study area in 5x5 km bins. These gradients and linear interpolation were used to calculate 21 raster-ten temperature at depth (1-10km, 1km interval) and eleven depth to temperature (50-300°C, 25°C interval)-which were subsequently contoured and exported as shapefiles. Both raster and contour data are shown.

Thermal gradients, raster grids, and shapefiles were all processed, calculated, and generated using the Python programming language (v3.13) and the `scipy`, `geopandas`, `numpy`, and `osgeo` gis modules. Geothermal mapping and map production were supported by the USGS's National Cooperative Geologic Mapping Program (NCGMP) through STATEMAP and the Bureau of Economic Geology's STARR funds for geothermal research.