



Carbon Storage Survey Update

DECEMBER 8, 2024

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In March 2024, Research Professor Tip Meckel led a marine seismic acquisition project offshore of San Luis Pass on south Galveston Island. The project is part of the ongoing carbon storage surveying research happening at the Gulf Coast Carbon Center at the Bureau of Economic Geology.

The researchers revisited a site where in 2013, Meckel and collaborators found shallow gas anomalies while collecting a high-resolution 3D seismic dataset. These gas anomalies are analogs for potential carbon dioxide (CO₂) leakages from deep storage reservoirs that could be considered for CO₂ emissions storage.

The data from the most recent survey, which was supported by the U.S. Department of Energy, will allow for a 4D time lapse analysis of the gas. Meckel has used this type of analysis in a range of offshore carbon capture and storage projects, including pre-injection site assessment, risk reduction and monitoring.

Other UT participants involved with the seismic acquisition projection include Dallas Dunlap, a research scientist associate at the bureau; Dan Duncan, an engineering scientist at the University of Texas Institute for Geophysics; and graduate student Previna Arumugam

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A view from the survey vessel. Credit: Tip Meckel.

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The UT City Climate CoLab has released its Winter Outlook for 2025, and is forecasting a season that is warmer than normal.

See previous reports and more information about the CoLab here: <http://www.austintexas.gov/department/office-resilience-init...> (<http://www.austintexas.gov/department/office-resilience-initiatives>)  (<https://twitter.com/txgeosciences/status/1875262146550104243>)

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This year, the Jackson School launched a new major in climate system science – a first for the state of Texas.

Learn more about our newest major and how climate expertise at the school and the growth in climate careers helped make it a reality.

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Drone and VR technology is changing how geoscientists see the world – both above and below the ground.

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