"GOMCARB" PARTNERSHIP

Offshore Gulf of Mexico Partnership for Carbon Storage Resources and Technology Development

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Texas BEG, GCCC

Partnership for carbon capture & offshore geologic storage
GoMCarb

GCCC
Gulf Coast Carbon Center

Bureau of Economic Geology

NETL
National Energy Technology Laboratory

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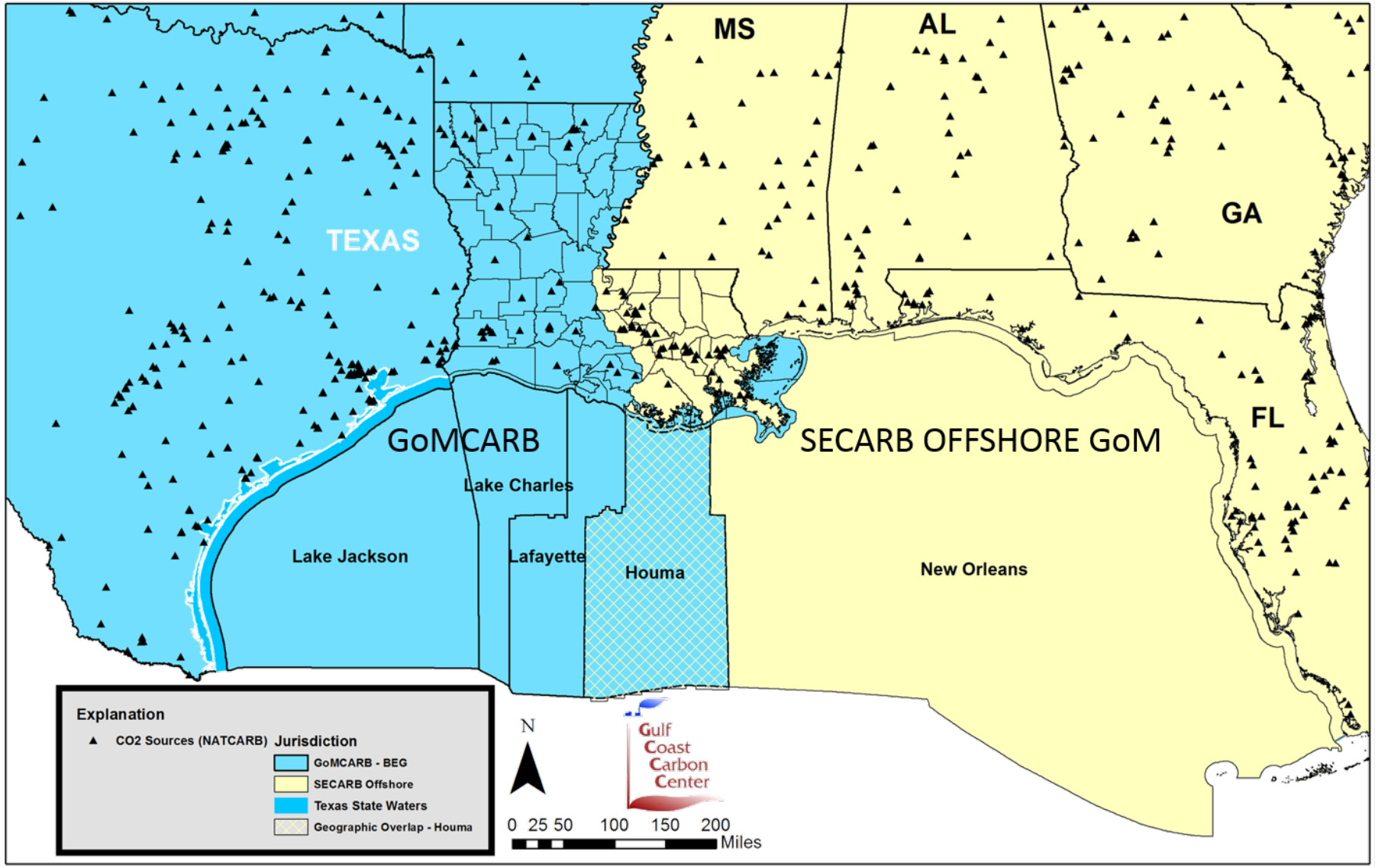
Overview

- Basics – Geography, Scope, Team
- Legacy – Regional Databases / Geology
- Storage Assessment – Regional → Analogs
- MVA – Improving Data Quality

GoMCarb

Areas of Interest

- Onshore (CO_2 sources)
- Offshore (storage & related topics)
  - All Texas & Louisiana state waters
  - Texas & western Louisiana federal waters



GoMCarb Scope of Work (Tasks)

2. Offshore Storage Resource Assessment
3. Risk Assessment, Simulation, and Modeling
4. Monitoring, Verification, and Assessment (MVA)
5. Infrastructure, Operations, and Permitting
6. Knowledge Dissemination
   - Advisory Committee

Technical Team Member Organizations

Institution	Location	Expertise
GCCC (Gulf Coast Carbon Center)	Austin, TX	Project Lead; All Tasks
GBDS (Gulf Basin Depositional Synthesis)	Austin, TX	GoM Basin Geology; Resource Assessment
PGE (Petroleum & Geosystems Engineering)	Austin, TX	Reservoir Simulation & Knowledge Dissemination
Moody College of Communications	Austin, TX	Knowledge Dissemination
Aker Solutions	Houston, TX	Infrastructure Technologies
Fugro USA Marine, Inc.	Houston, TX	Marine MVA Technologies
Lamar University	Beaumont, TX	Risk Assessment & Knowledge Dissemination
Lawrence Berkeley Nat. Lab	Berkeley, CA	Risk Assessment & MVA Technologies
Lawrence Livermore Nat. Lab	Livermore, CA	Risk Assessment
Louisiana Geologic Survey (LSU)	Baton Rouge, LA	Resource Assessment & Database Development
TDI-Brooks, Int.	College Station, TX	MVA Technologies (HR3D seismic deployment)
Texas A&M GERG (Geochemical and Environmental Research Group)	College Station, TX	MVA Technologies (Marine Water Column Geoscience)
Trimeric Corp.	Buda, TX	Engineering; Infrastructure and Operations
USGS	Reston, VA	Resource Assessment

Available Regional 3D Seismic Datasets

Legacy from prev

- Texas Miocen
- TXLA
- CarbonSAFE

Many public dom
Waters)

Leased proprieta

1) Texas OBS /
2) TexLa Merge
3) Chandeleur

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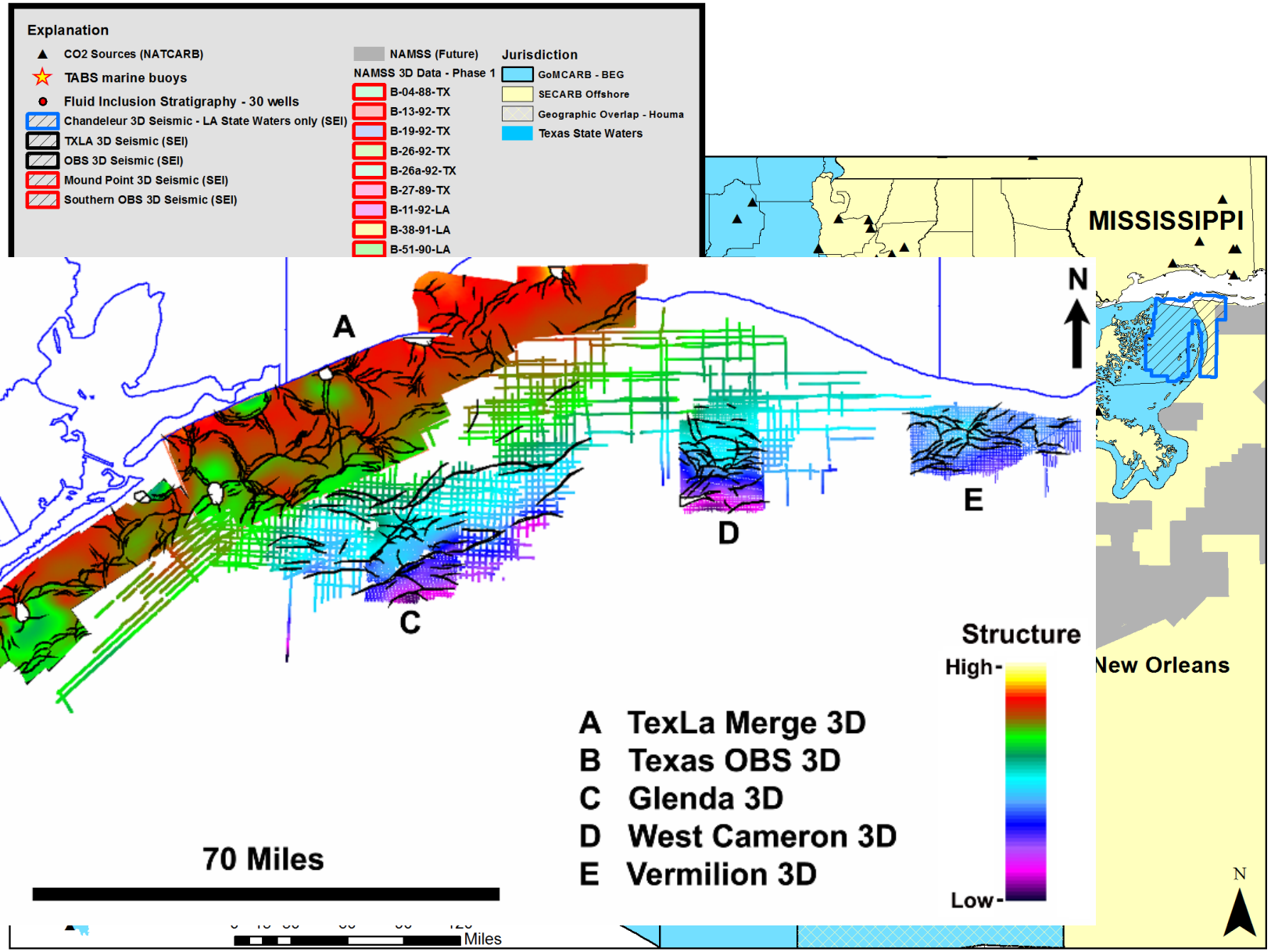
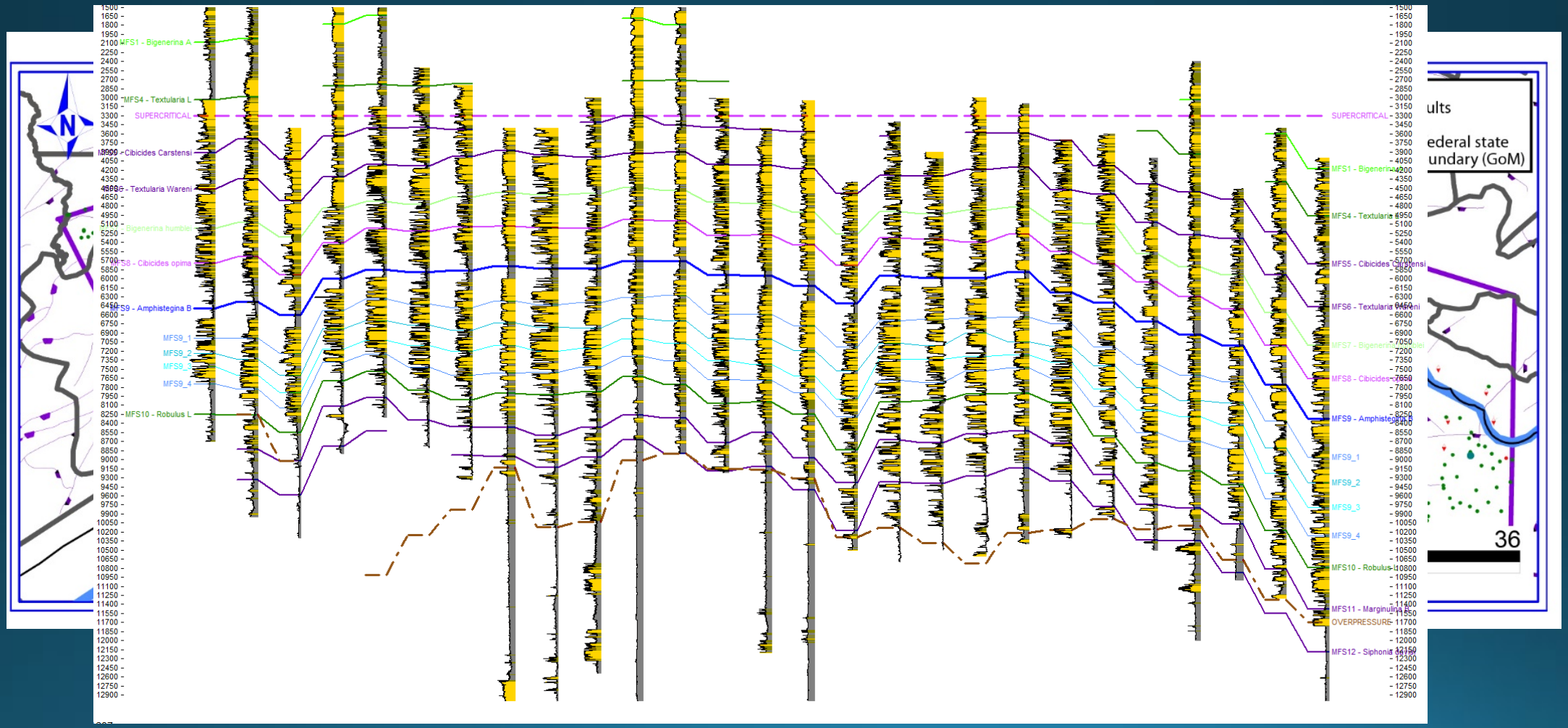
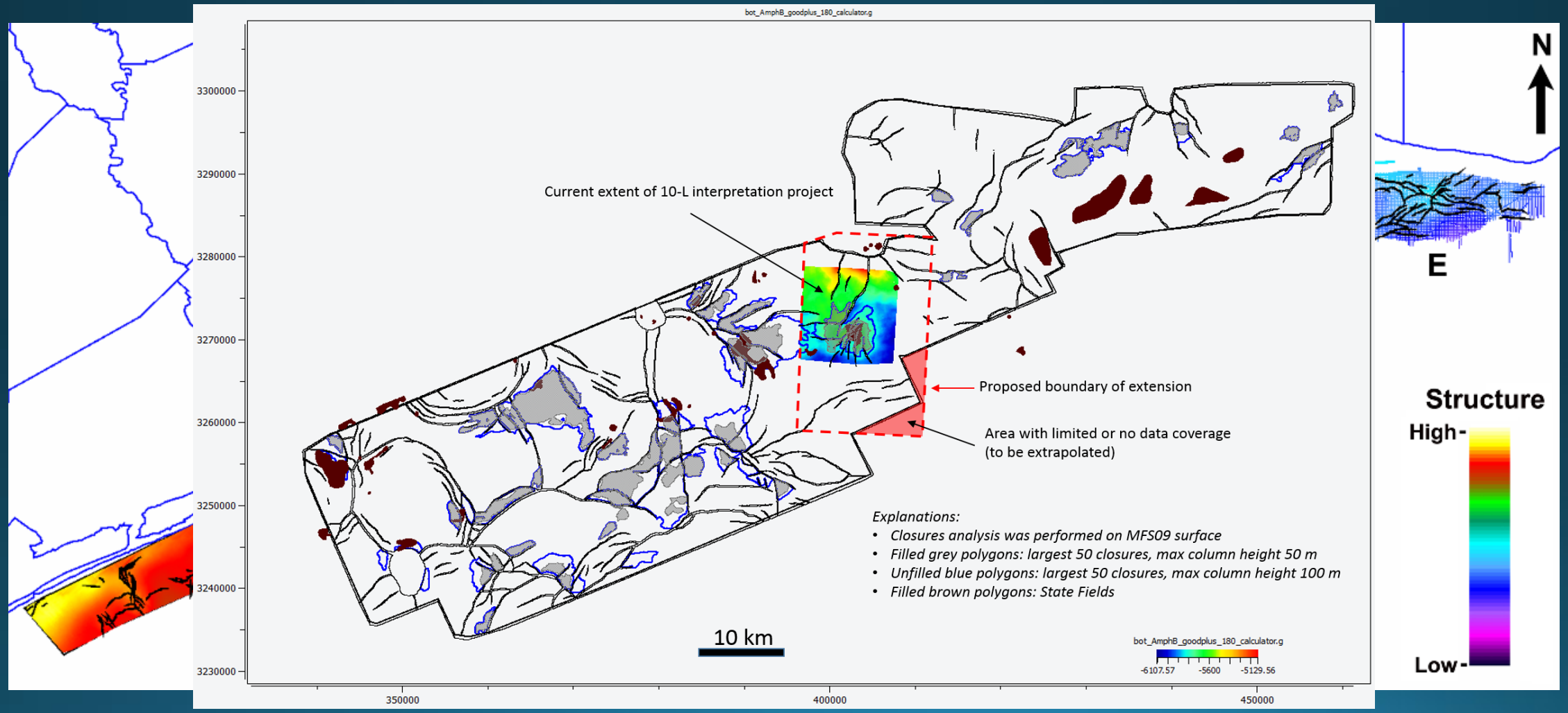
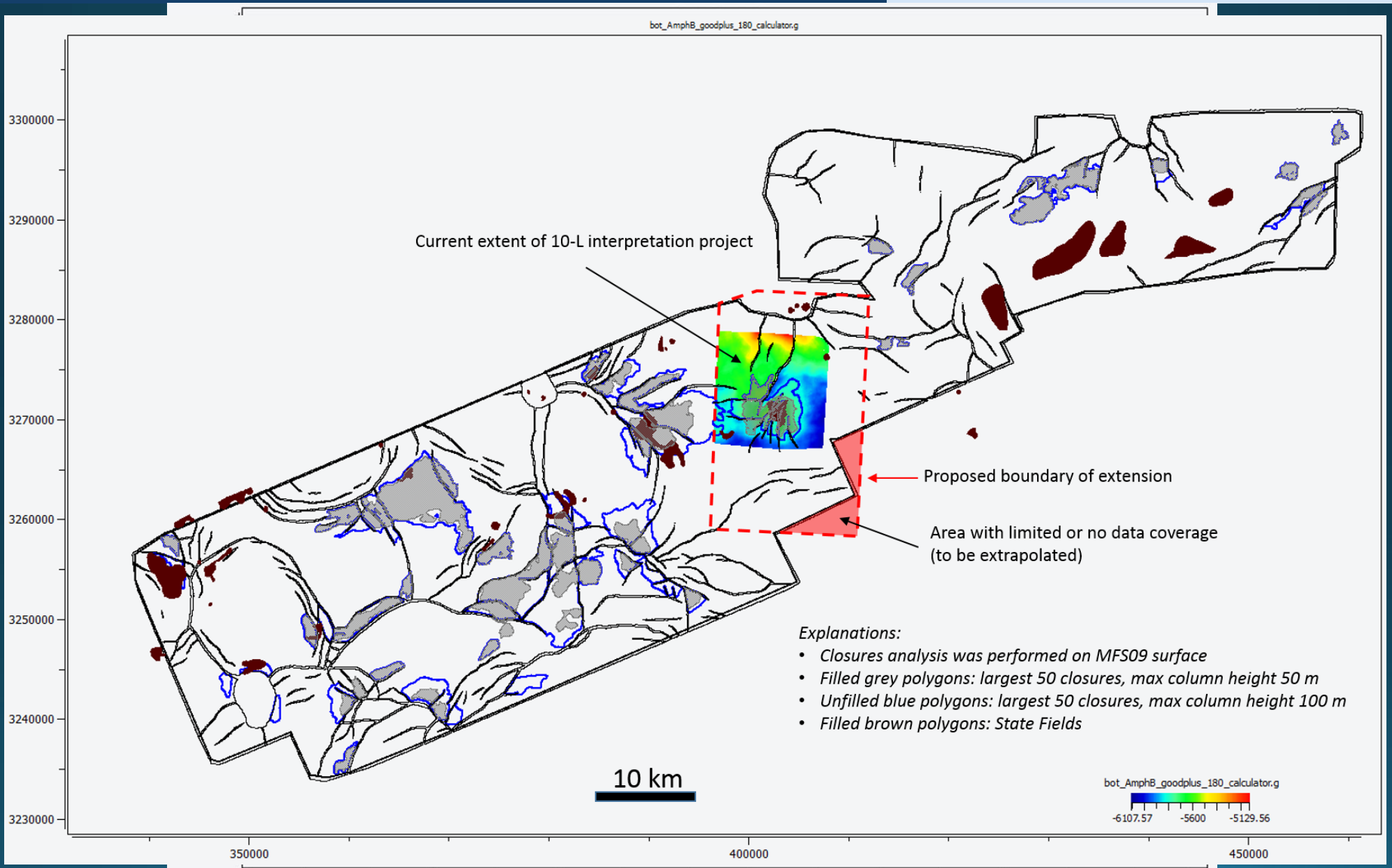


Regional Well Database also Advanced



Previous Work → GoMCarb

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Current extent of 10-L interpretation project
Proposed boundary of extension
Area with limited or no data coverage
(to be extrapolated)
Explanations:
• Closures analysis was performed on MFS09 surface
• Filled grey polygons: largest 50 closures, max column height 50 m
• Unfilled blue polygons: largest 50 closures, max column height 100 m
• Filled brown polygons: State Fields
10 km
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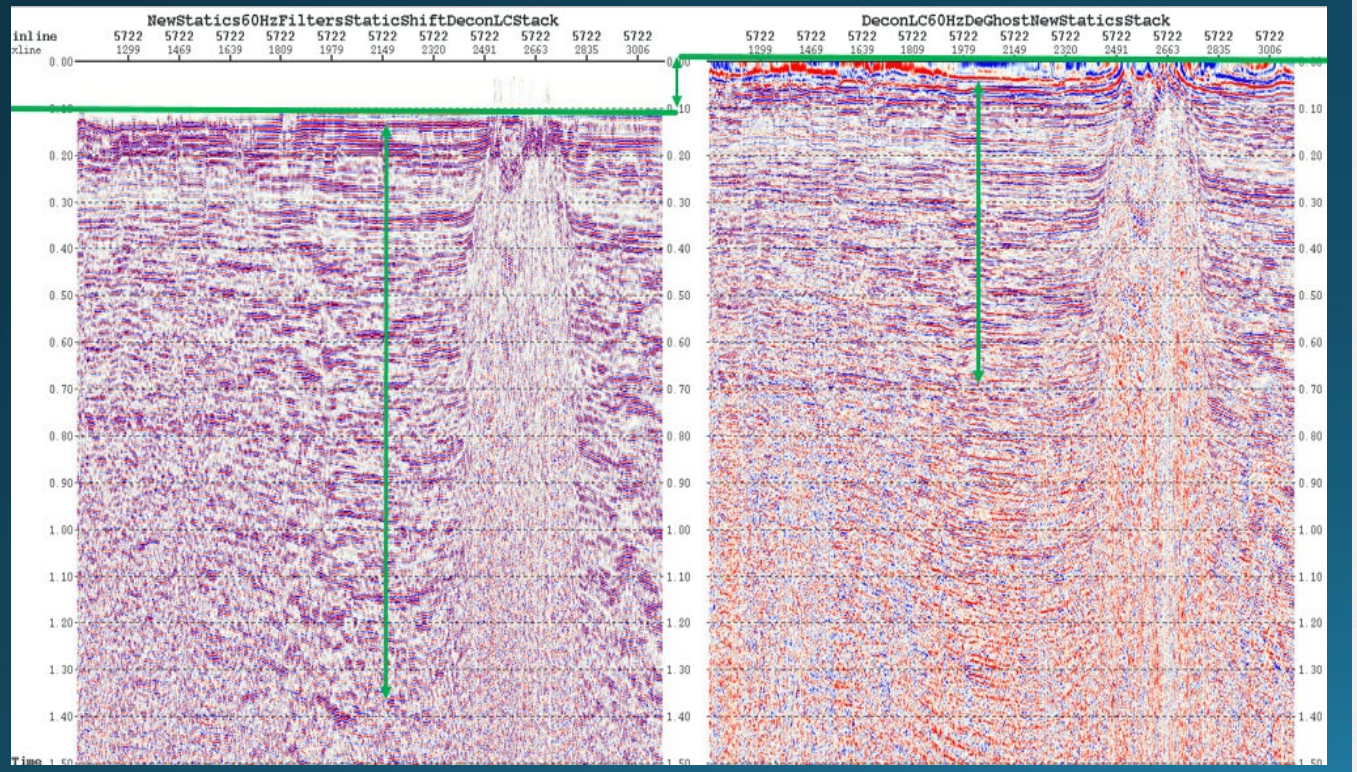
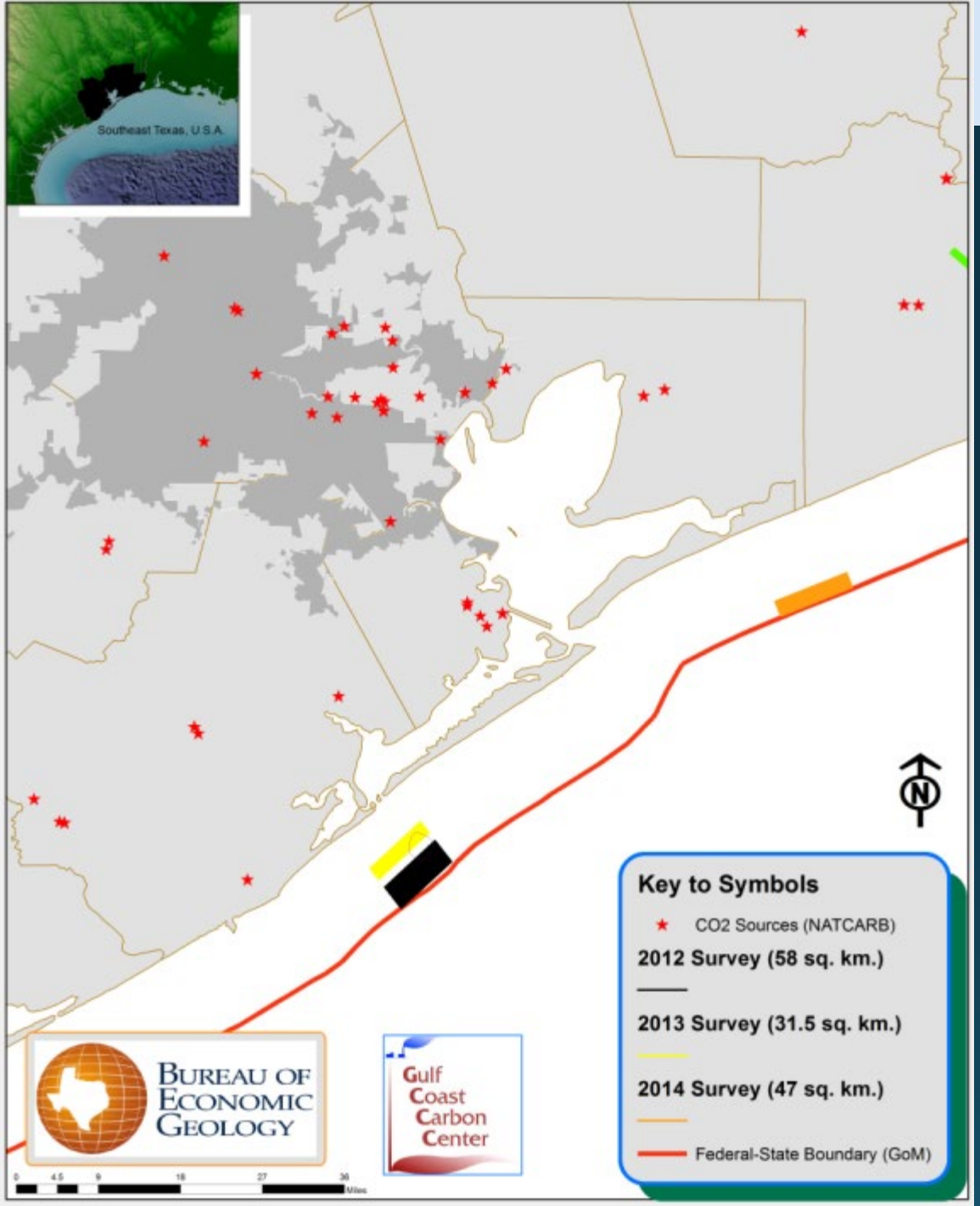
-6107.57
-5600
-5129.56

Statics Correction

- Left Panel = New Statics





Agenda – GoMCarb Updates

Reynaldy Fifariz (GCCC) – High Island Focus Area

Marcie Phillips (GBDS) – Chandeleur Sound Focus Area

Hilary Olson (UT) – Knowledge Dissemination

Lundeen / Sachde (Trimeric) -CO_2 Transport / Scenario Optimization

Curt Oldenburg (LBNL) – Well Risk / DAS MVA

THANK YOU

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