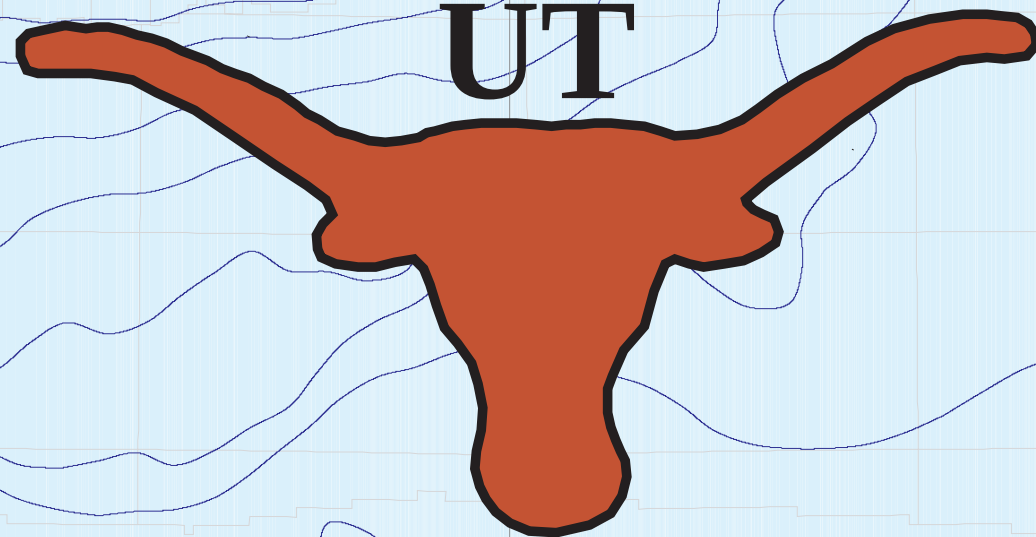


The University of Texas at Austin
UT



GBDS

Gulf Basin Depositional Synthesis

Phase I Project Atlas

Section I: Introduction and Description	Summary report and description of database Gulf of Mexico bathymetry map Location map of published well log cross sections GBDS well and seismic transect location map GBDS database well and shot point location map GBDS synthesis flow chart GBDS database organization in ArchInfo™
Section II: Symbology and Reference Charts	Stratigraphic correlation chart for basin margin and deep basin sequences GBDS stratigraphic unit color codes for cross sections Reference Chart for seismic facies definition and geologic interpretation Explanation of depositional framework facies association and feature codes Schematic illustration of generic deposystem geography Explanation of color codes and symbols for GBDS depositional system classification
Section III: Basin Margin Well Log Transects	Burgos Transect Genetic sequences Facies Associations Lithofacies Stratigraphic architecture South Texas transect Genetic sequences Facies Associations Lithofacies Stratigraphic architecture San Marcos transect Genetic sequences Facies Associations Lithofacies Stratigraphic architecture Sabine transect Genetic sequences Facies Associations Lithofacies Stratigraphic architecture Central Louisiana transect Genetic sequences Facies Associations Lithofacies Stratigraphic architecture East Louisiana transect Genetic sequences Facies Associations Lithofacies Stratigraphic architecture Alabama transect. Genetic sequences Facies Associations Lithofacies Stratigraphic architecture
Section IV: Basin Center Seismic Transect	Western Gulf Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations Western Central Gulf Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations East Central Gulf Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations West Mississippi Fan Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations East Mississippi Fan Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations North Deep Basin (west segment) Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations North Deep Basin (east segment) Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations West Deep Basin Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations West Deep Basin Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations Central Deep Basin (west segment) Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations Central Deep Basin (east segment) Seismic sequence correlations Seismic facies association Compressed seismic line with sequence correlations

Section V: Genetic Sequence Data and Interpretation Maps

Pleistocene Sangamon (PS-R)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Pleistocene *Trimosina* A (PTA-R)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Pliocene *Angulogerina* B (PAB-P, Q)

Depositional Framework (PAB-Q)

Total thickness (PAB-P)

Sand thickness

Deposystems

Pliocene *Lenitculina* 1 (PL1-O)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Pliocene *Globquadrina altispira* (PGa-M, N)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Mio-Pliocene *Bulminella* 1 (PB1-L)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Upper Miocene (UM-J, K)

Depositional Framework (UM-K)

Total thickness (UM-J)

Sand thickness

Deposystems

Middle Miocene (MM –I, H)

Depositional Framework (MM-I)

Depositional Framework (MM-H)

Total thickness

Sand thickness

Deposystems

Lower Miocene 2 (LM2-G)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Lower Miocene 1 (LM1-G)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Oligocene Frio–Vicksburg (OF-F, E)

Depositional Framework (OF-F)

Depositional Framework (OF-E)

Total thickness

Sand thickness

Deposystems

Jackson/Yazoo (JS-D)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Yegua/Cockfield (YC-D)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Sparta (SP-C)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Queen City (QC-C)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Upper Wilcox/Carrizo (UW-C)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Middle Wilcox (MW-B)

Depositional Framework

Total thickness

Sand thickness

Deposystems

Lower Wilcox (LW-B)

Depositional Framework

Total thickness

Sand thickness

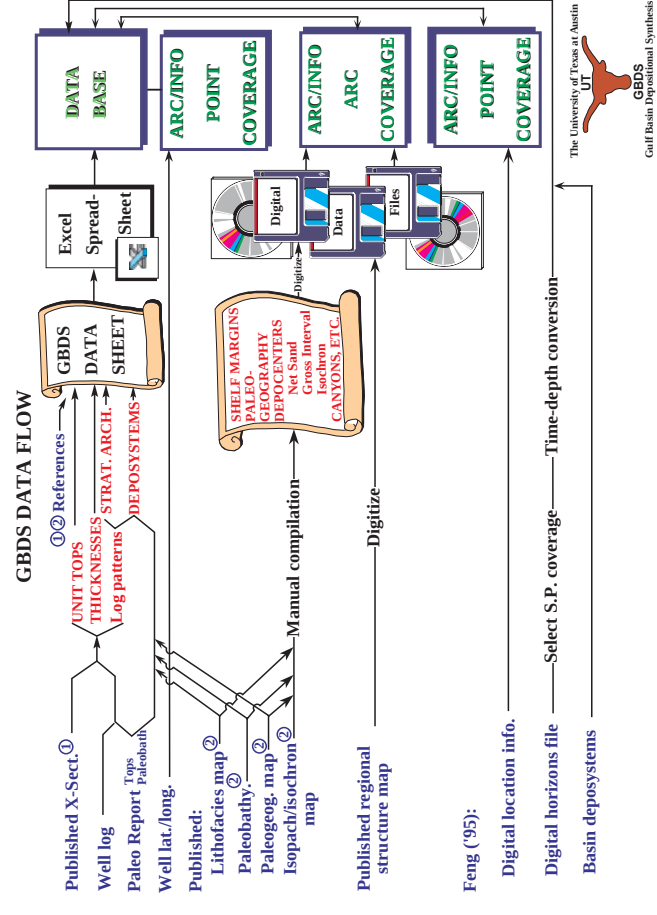
Deposystems

- b. The thick mass transport complex within sequence N correlates closely in time and space with the megaslide within the PGa sequence described by Morton (1993, GBDS #516).
- c. The very low rate of sediment supply during the PGa depisode correlates well with the thin composite thickness of sequences M and N.
- d. The shift from west-dominant sediment supply to the Gulf basin during the Paleogene to the central and east-dominated input of the early Miocene is reflected in the depocenter shift between basin sequences F and G.
- e. The similar depocenters and seismic facies patterns, concentrated along the west Gulf floor in front of the marginal Veracruz, Tampico-Misantla, and Burgos-Rio Grande basins, of sequences E and F suggest their formation during the early Oligocene surge of volcanism and rapid uplift (of several km) of the Mexican interior (Yurewicz et al., 1997, GBDS #581). The mass transport complex at the base of sequence E records initial instability and margin failure associated with the rapid onset of uplift and attendant seismicity.

Sequence Chronology

Genetic sequence boundaries are dated by correlation of key Gulf Basin benthonic and planktonic Foraminifera and calcareous nannoplankton datums to the Berggren (1995, GBDS #459) time scale. Oligocene and Neogene paleontologic correlations are based on Paleo-Data's "Biostratigraphic Chart, Gulf of Mexico" versions 9610, 9703, and 9708. Paleogene correlations are based on syntheses by Lawless et al. (1997, GBDS #529) and Jiang (1997, GBDS #588).

Figure 2. Flow chart for creation of the database.



GBDS database Sources

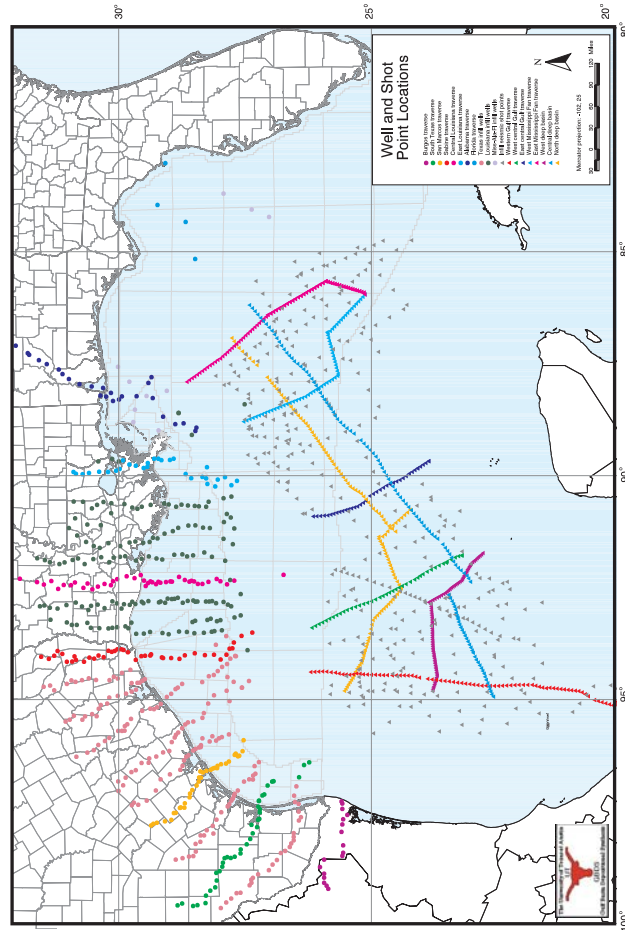
This project data primarily compiled and synthesized information from existing sources (Figure 2). Primary sources include published cross section folios that contain traced logs and base maps, published maps, papers, and monographs, and theses and dissertations (including those of the Texas A&M GMS3 and University of Colorado industry consortia programs). Sources for interpretations were compiled and are included as a GBDS bibliography, and well data tabulations include a list of references used for correlation and environmental interpretation. Additional data sources include original well logs for the outer shelf and slope, where published data are scarce, paleontologic reports provided by Paleo-Data, and digital off-shore well location file provided by Exxon.

A GBDS well data sheet was compiled for each well. Data were then encoded onto an Excel™ spreadsheet. The spreadsheet data were then transferred to ArcInfo™, creating a suite of point coverages. Figure 3 shows locations of all wells included in the database. Latitude and longitude for wells from published cross sections and other sources were calculated by digitizing plotted locations on the base maps included in the folios. Locations for original offshore wells were taken from the digital file provided by Exxon.

Basin center seismic sequence correlations and interpretations were transferred from original maps and seismic lines of Feng (1995, GBDS #179) onto select UTIG lines to create a network of interpreted seismic traverses (Figure 3) using Schlumberger GeoQuest IESX™ software. Original maps were used to generate sequence time-depth, time-thickness, and seismic facies files at a network of select shot points on the complete seismic grid (Figure 3). A regional time-depth curve was then applied to convert two-way travel time (twtt) to depth and thickness (ft). The shot point data matrix creates a second suite of point coverages. Shot point locations were calculated from original seismic navigation files.

Geographic feature and depositional system locations create a family of arc and polygon coverages. Features were digitized where large, cartographically accurate maps were the source. However, most features were compiled from illustrations that provide no information regarding map projection. For these, variable xerography was used to bring all figures to a common scale, and they were traced by hand onto a base map, which was then digitized.

Figure 3. Datapoint locations



GBDS database Contents

The GBDS database consists of two basic types of information. GIS layers consist of geographically defined data. A supporting database contains tables, text, and a bibliography. Information can be accessed independently or may be attached to a geographic feature found in the GIS layers. GIS layers consist of points, lines (called arcs), and enclosed areas (called polygons). A well or shot point location defines a point. Mapped features such as a shelf margin define a line. Paleogeographic features, such as a depositional system, define an area, or polygon.

The GBDS project used ArcInfo™. Here, Arc is used to manipulate the GIS layers, and Info is used to manipulate the database. Information of a particular type is called a coverage. Thus, the GIS database consists of a suite of coverages that may be individually selected and grouped for display on a geographic plan.

The GIS contains the following coverages:

1. Political and geographic base maps.
 - national boundaries and coastlines
 - states
 - counties
 - MMS areas and tracts
 - bathymetry
 - topography
2. Stratigraphic information at well control points for each penetrated genetic sequence.
 - well latitude and longitude
 - sequence top (depth subsea)
 - sequence thickness
 - thickness of sand-bearing interval (gross sand)
 - thickness of carbonate-bearing interval
 - sequence bedding architecture(s)
 - interpreted depositional facies association(s)
 - list of pertinent references
3. Stratigraphic information at selected basin-floor seismic shot points for each defined seismic sequence.
 - shot point latitude and longitude
 - sequence top (twtt)
 - sequence thickness (twtt)
 - sequence top (ft)
 - sequence thickness (ft)
 - seismic reflection facies
4. Bounding shelf margin position and type.
 - shelf margin position and type at the beginning of depositional episode
 - shelf margin position and type at the end of depositional episode
5. Depositional and structural features.
 - submarine canyons, megaslumps and slides
 - slope embayments created by outer shelf and slope subsidence or collapse
 - mapped sand depocenter
 - mapped interval depocenter (ft)
 - mapped interval depocenter (twtt)
 - onlap, erosional, and non-depositional edges
 - carbonate reefs
 - submarine scarps
 - major structural features that effect regional depositional patterns
 - depositional system outlines

Some of these coverages warrant further description.

Thickness of sand-bearing interval (gross sand): Use of published well logs, which are commonly highly reduced, precluded net sand calculation. Instead, a general measurement (rounded to tens of feet) that sums all intervals containing sand beds or bodies was calculate and tabulated (see Figure 4). Carbonate-bearing intervals were tabulated similarly.

Determining Thickness of Sand-Bearing Interval

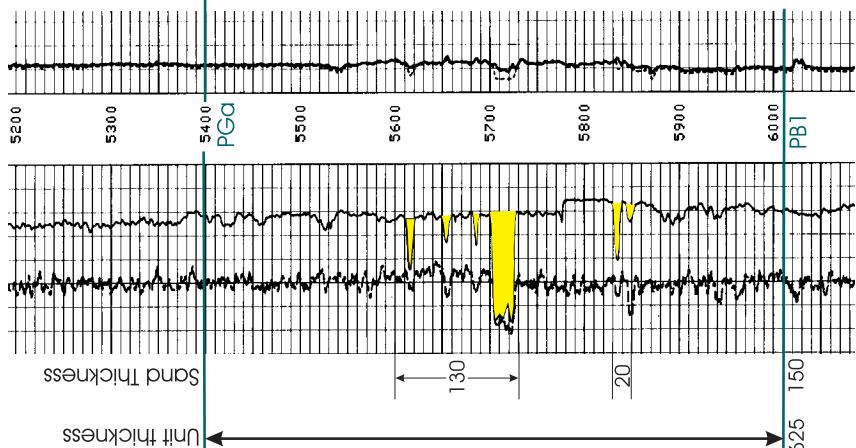


Figure 4. Sand Count

Interpreted depositional facies association(s): Basin margin sequences are subdivided into 13 facies associations. Figure 5 illustrates the classification, typical attributes, and criteria used for identification. Fluvial facies are further subdivided into bed-load, mixed-load, and suspended-load associations. Platform and shelf-margin delta successions are distinguished in both wave and fluvial-dominated delta systems.

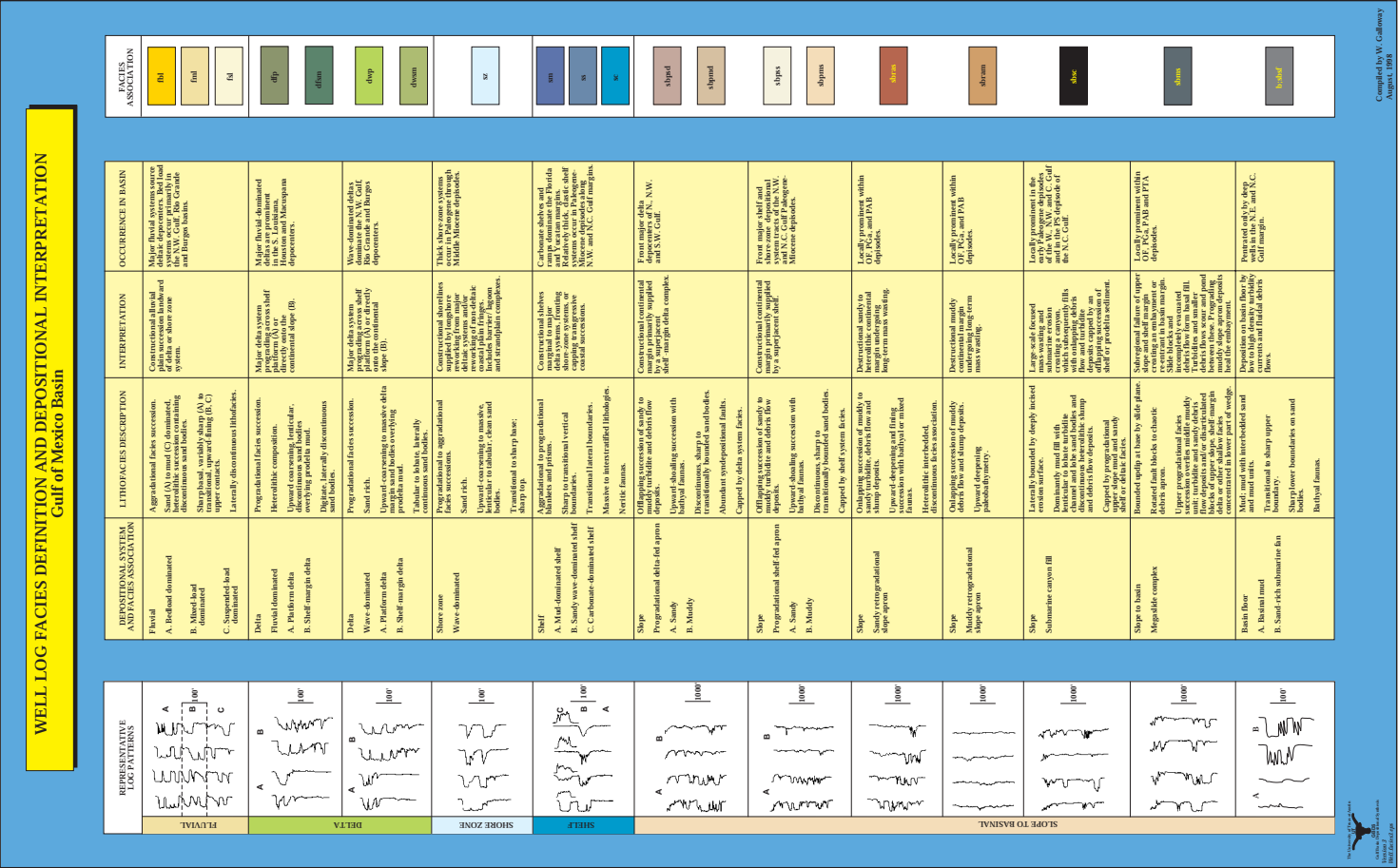


Figure 5. Well Log Chart

Muddy, sandy, and carbonate-dominated shelf associations are distinguished. Slope systems are subdivided into progradational and retrogradational facies successions (see Galloway and Hobday, 1995, GBDS #590, and Galloway, 1998, GBDS #591, for slope system classification) and described as either sandy or muddy. Where possible, associations were assigned based on published interpretations and paleogeographic reconstructions. Where no other information was available, log pattern, location within the larger facies tract, and relationship of the facies association to surrounding deposits of the sequence were used.

Facies association data are tabulated using a mnemonic code (Figure 5, right column). Within each genetic sequence, one to three facies associations are recorded. Where two or three associations are interpreted, the youngest facies association is listed first (on the left); the oldest last.

List of pertinent references: References used in both sequence correlation and interpretation are listed by a unique GBDS number. The GBDS bibliography exists as an EndNote™ file that is part of the database.

Seismic reflection facies: Seismic reflection facies (Figure 6)

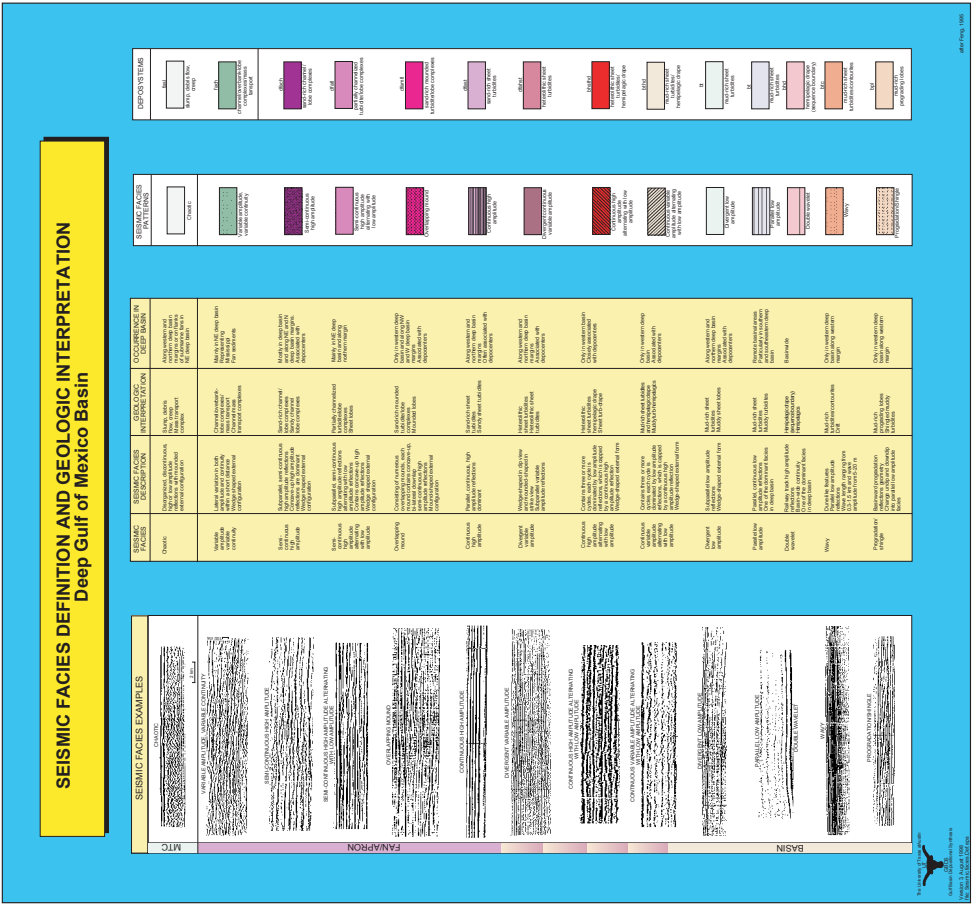


Figure 6. Seismic Facies Chart

remain as mapped by Feng (1995). Geologic interpretation has been slightly modified for consistency to reflect the GBDS facies association and depositional system classification scheme. Also, the divergent low amplitude and parallel low amplitude facies have been combined. Thus, twelve seismic facies are tabulated and mapped using mnemonic codes shown in the right column of Figure 6.

Shelf margin position and type at the beginning of depositional episode: This margin reflects the basinward extent of the depositional platform as inherited at the beginning of the new depisode. It may be the shelf margin created by the previous depisode or a relict of an earlier episode.

Shelf margin position and type at the end of depositional episode: This shows the position of the shelf margin at maximum offlap of the depisode. Additionally, erosional and bed rock margins are distinguished. The Lower Cretaceous margin forms a persistent bathymetric scarp around much of the eastern and southern Gulf and is shown on many maps.

Submarine canyons, megaslumps and slides: Large canyons, slump complexes, and slide scars have been mapped by several authors around the basin margin. Outlines of these features, which may collect and transport sand basinward are grouped as a separate coverage.

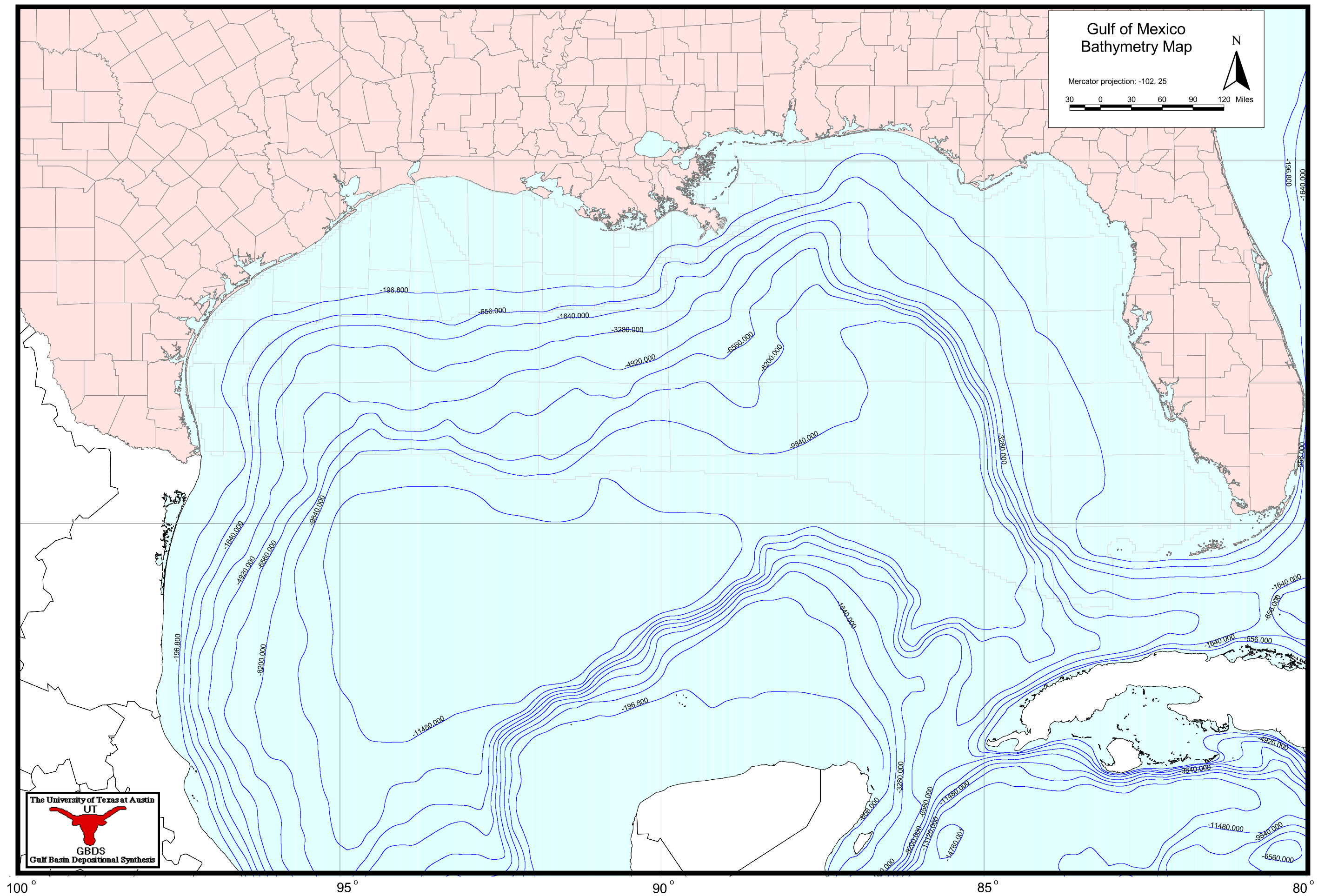
Slope embayments: Sub-regional retreat of the depositional shelf margin reflect areas of sub-regional excavation and/or salt withdrawal. Several, including the Hackberry and Planulina embayments are well mapped. Others are suggested by individual authors or the GBDS synthesis. Updip outlines of such embayments are combined into a coverage.

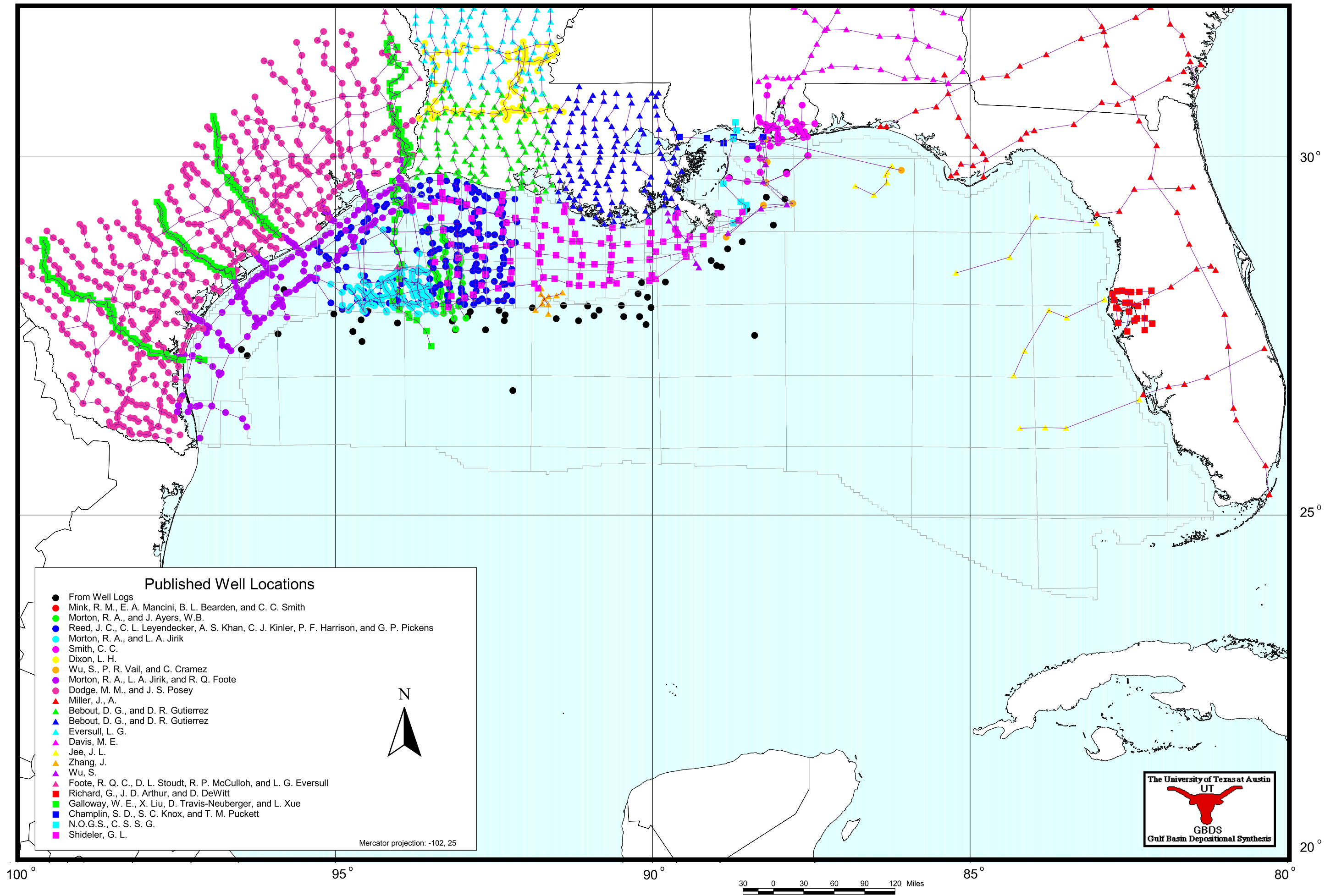
Mapped sand and interval depocenters (ft): Outlines of net sand depocenters and total thickness depocenters were compiled from published isolith and isopach maps where available. Depocenter thickness varies from depisode to depisode; the outline simply defines the area of thickest sand or sediment accumulation for that unit.

Mapped interval depocenters (twt): Time-thickness-defined depocenters were also compiled from numerous published and unpublished sources. Depocenter thickness varies from depisode to depisode; the outline simply defines the area of thickest sand accumulation for that unit.

Onlap, erosional, and non-depositional edges: A few maps located areas where entire sequences terminate. These are included as a separate coverage.

Submarine scarps: Steep, largely non-depositional scarps form





30°

25°

20°

100°

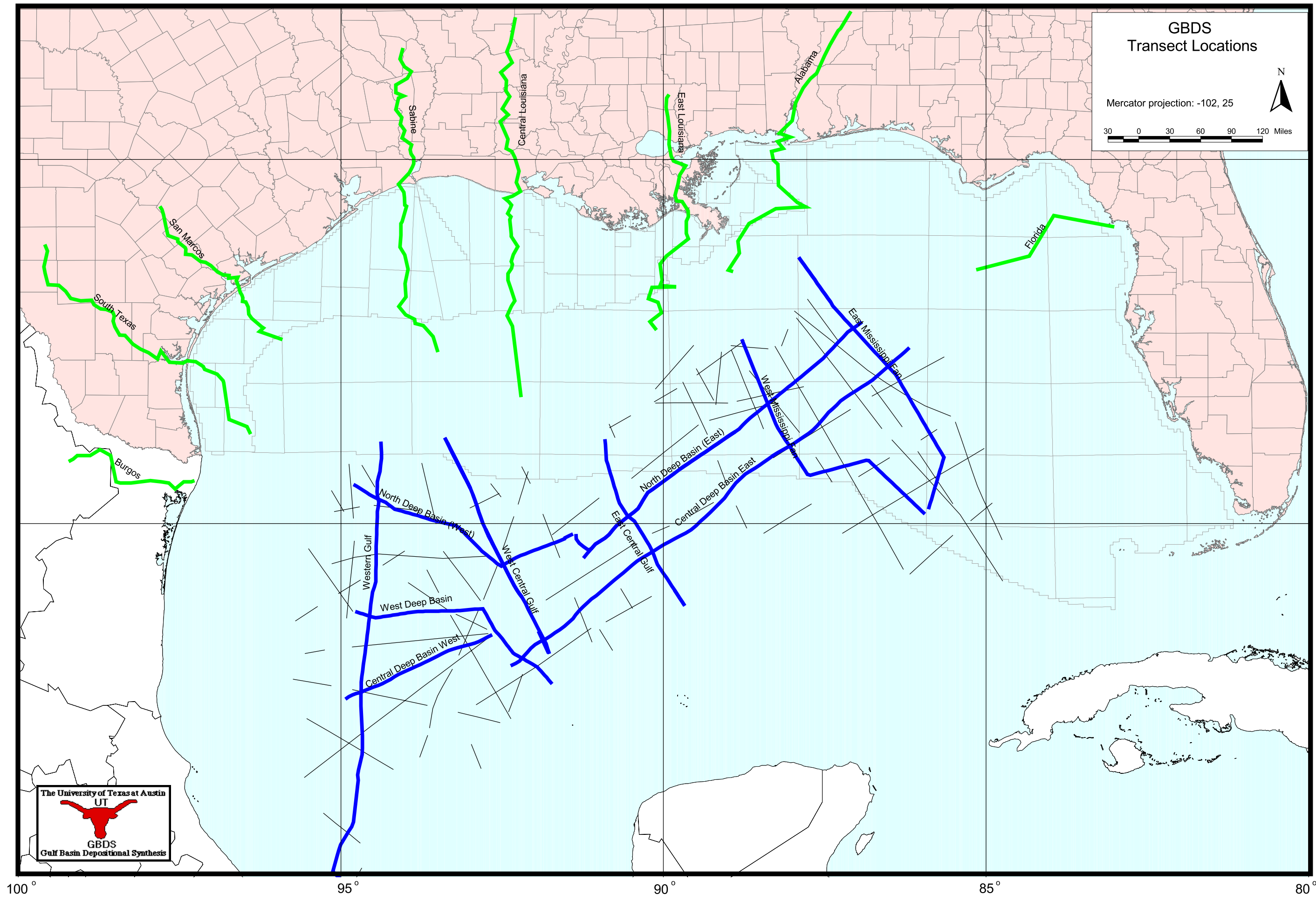
95°

90°

85°

80°

30 0 30 60 90 120 Miles



30°

25°

20°

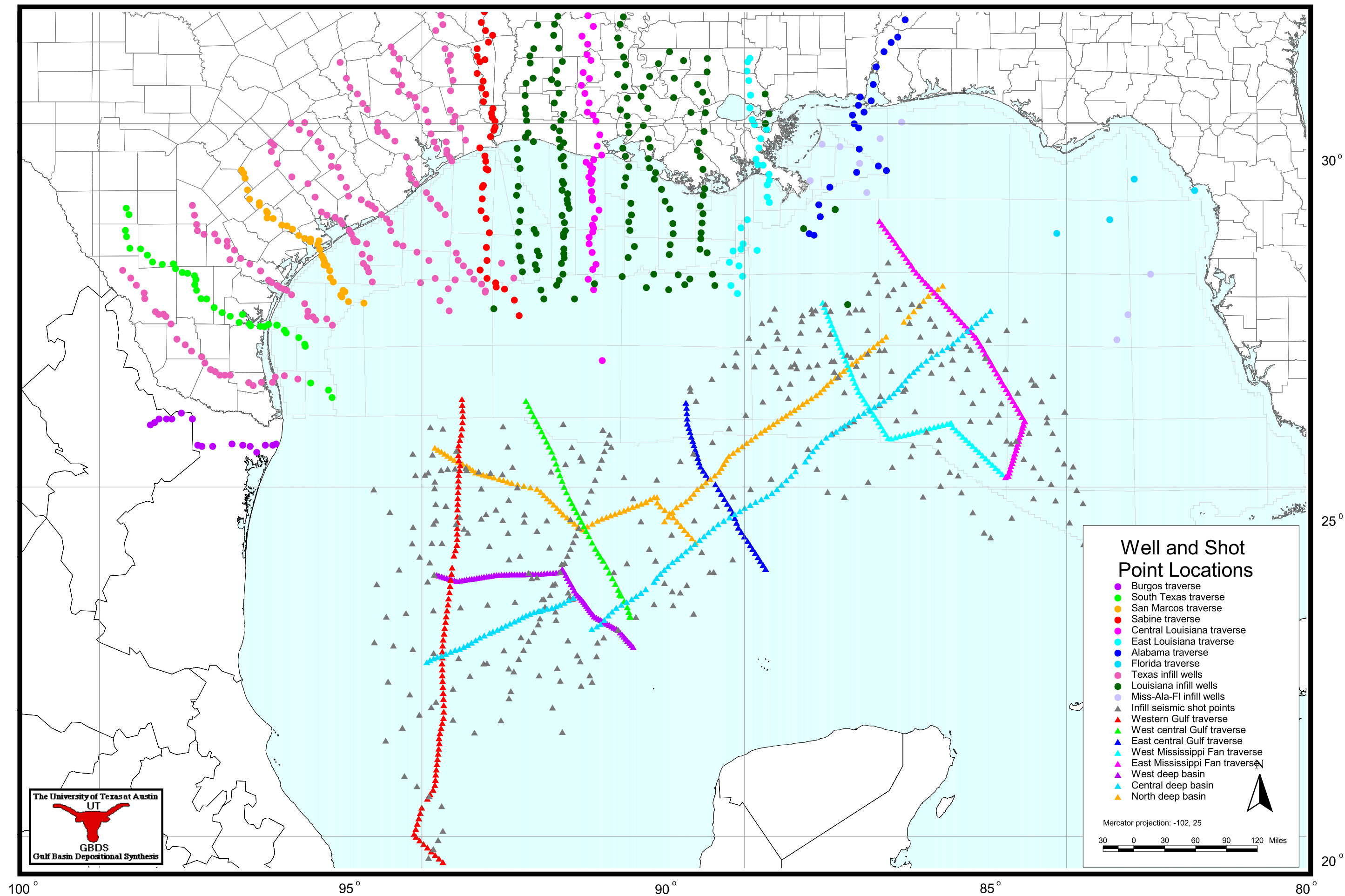
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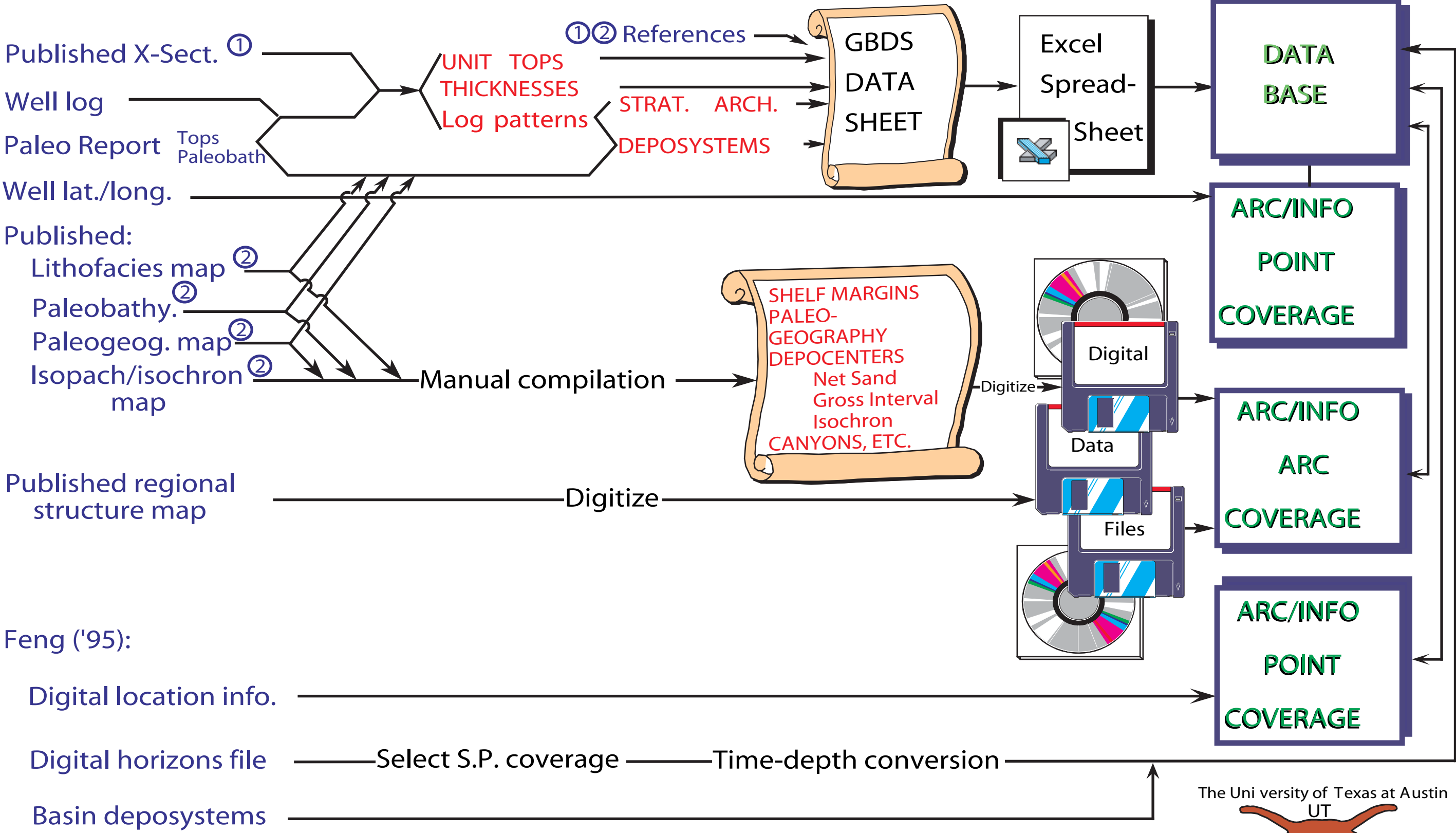
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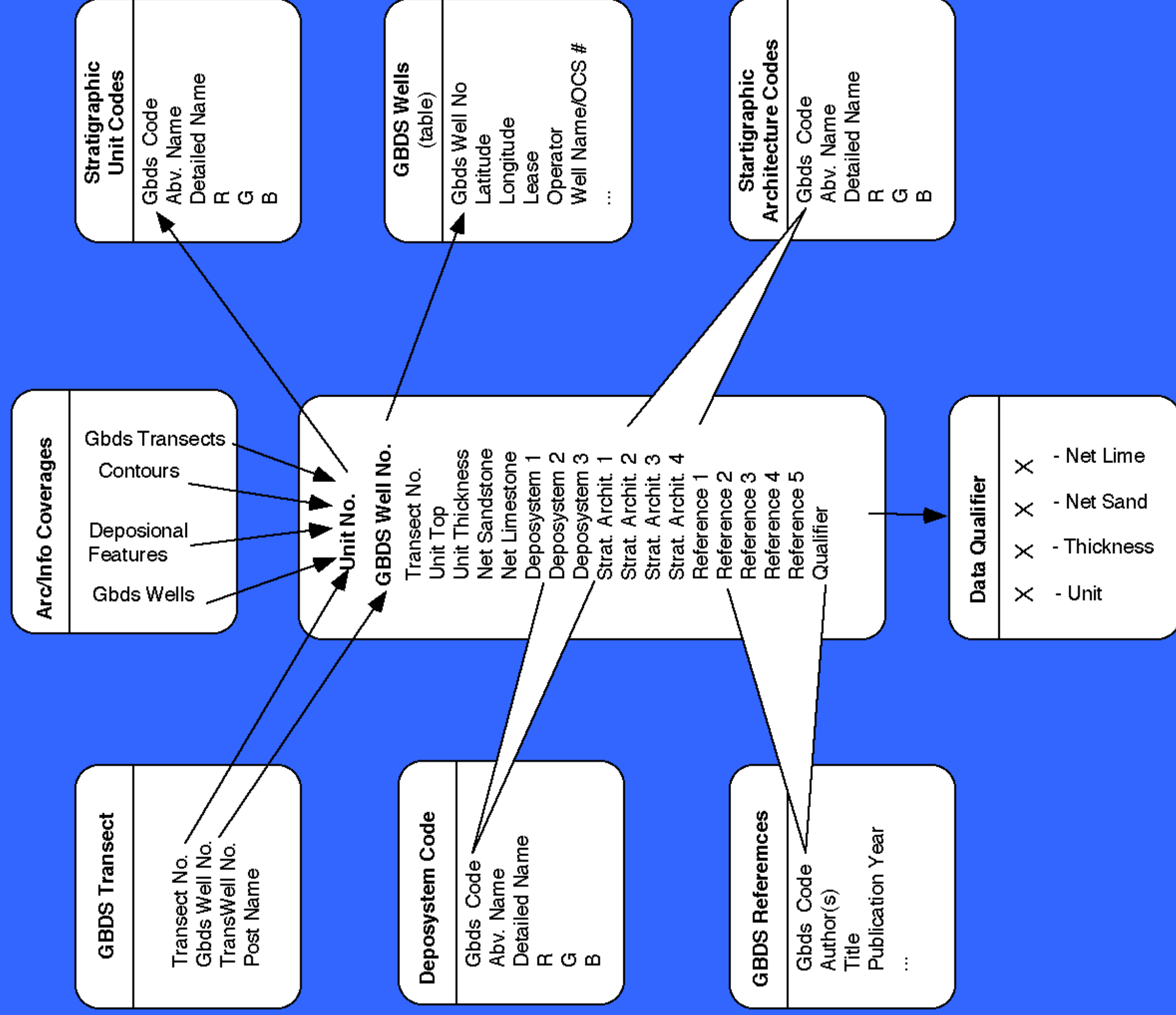
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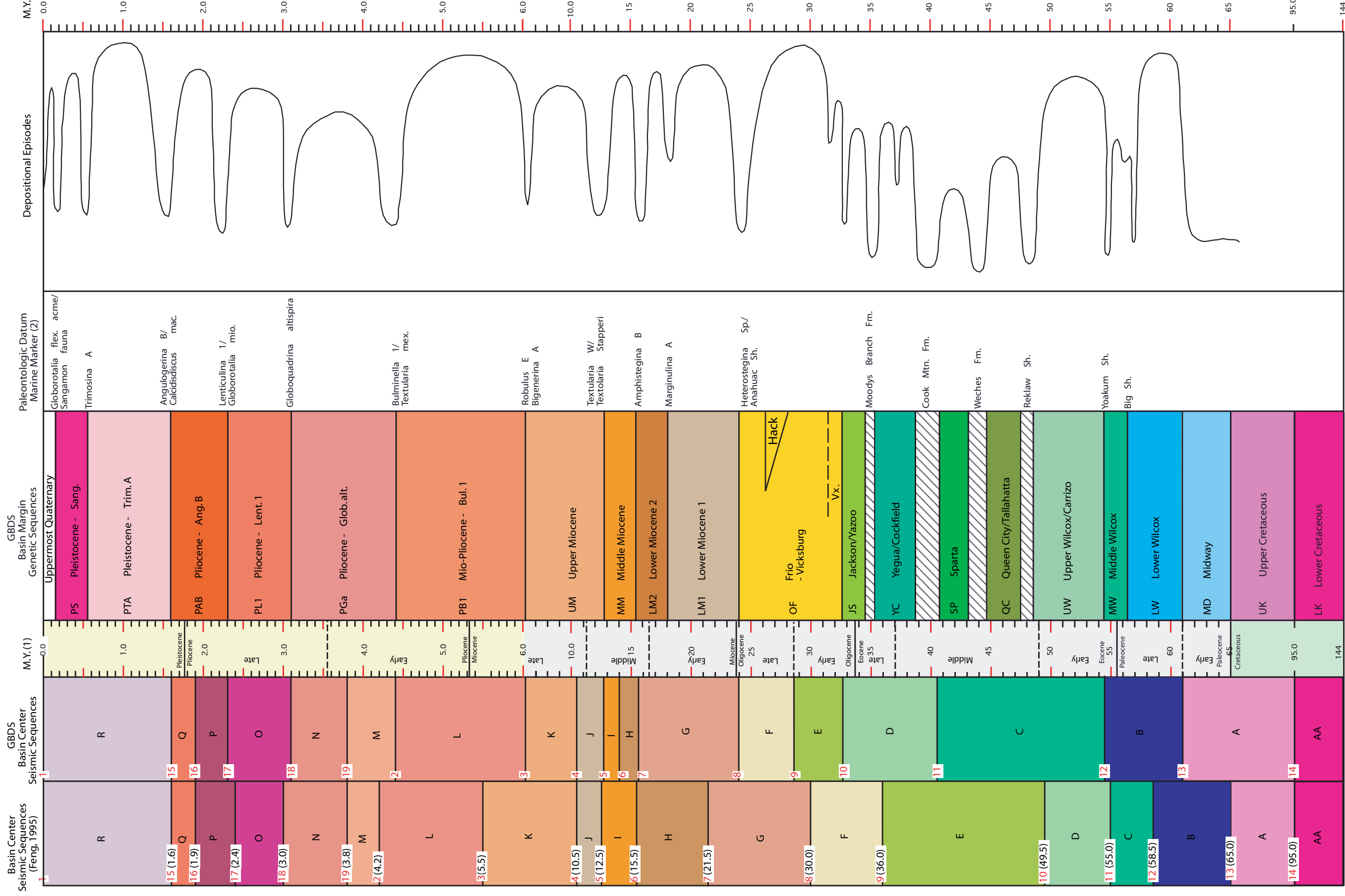
GBDS DATA FLOW



GBDS Data Organization in Arc/Info™



Stratigraphic Correlation Chart Gulf of Mexico Basin (Version 3, July 1998)



Code	Definition
12(5.5)	Basin Center Seismic Sequence Boundary Number (Age) Code (Feng, 1995)
A	Basin Center Seismic Sequence Letter Code (Feng, 1995)
PB1	Basin Margin Genetic Sequence Code (This study)

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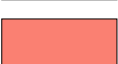
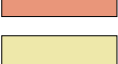
Gulf Basin Depositional Synthesis

References

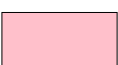
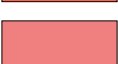
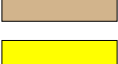
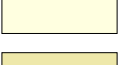
(1) Time scale of Berggren et al., 1995 (GBDS #459)
(2) Paleontologic and Maximum Flooding Surface Dates:
Neogene - Paleo-Data, Inc., Unpublished Biostratigraphic Charts 9610-9708
Paleogene - Paleo-Data, Inc., Gulf Coast Cenozoic Strat. Chart., 1989 (GBDS#420)
Lawless et.al., 1997 (GBDS #529)
Jiang, 1997 (GBDS #588)

Color Codes for GBDS Stratigraphic Units

Basin Center Seismic Sequences of Feng (1995)

	1: Sequence R
	15: Sequence Q
	16: Sequence P
	17: Sequence O
	18: Sequence N
	19: Sequence M
	2: Sequence L
	3: Sequence K
	4: Sequence J
	5: Sequence I
	6: Sequence H
	7: Sequence G
	8: Sequence F
	9: Sequence E
	10: Sequence D
	11: Sequence C
	12: Sequence B
	13: Sequence A
	14: AA: Early Cretaceous

GBDS Basin Margin Genetic Sequences

	100: PP: Plio-Pleistocene		400: EO: Eocene
	101: QU: Quaternary - Uppermost undifferentiated		401: JS: Jackson
	102: PS: Pleistocene - Sang. fauna		402: YC: Yegua/Cockfield
	103: PTA: Pleistocene - Trim. A.		403: SP: Sparta
	104: PAB: Pleistocene - Angulogerina B		404: QC: Queen City
	105: PL1: Pliocene - Lent. 1		405: UW: Upper Wilcox
	106: PGa: Pliocene - Glob. alt.		406: MW: Middle Wilcox
	107: PB1: Pliocene - Bul. 1		500: PA: Paleocene
	200: MI: Miocene		501: LW: Lower Wilcox
	201: UM: Upper Miocene		502: MD: Midway
	202: MM: Middle Miocene		600: UK: Upper Cretaceous
	203: LM2: Lower Miocene 2		601: UK3: Upper Cretaceous 3
	204: LM1: Lower Miocene 1		602: UK2: Upper Cretaceous 2
	300: OL: Oligocene		603: UK1: Upper Cretaceous 1
	310: OF: Frio - Vicksburg		604: LK: Lower Cretaceous
	311: OFu: Upper Frio *		
	312: HB: Hackberry *		
	313: OFI: Lower Frio - Vicksburg *		

* not used in current database

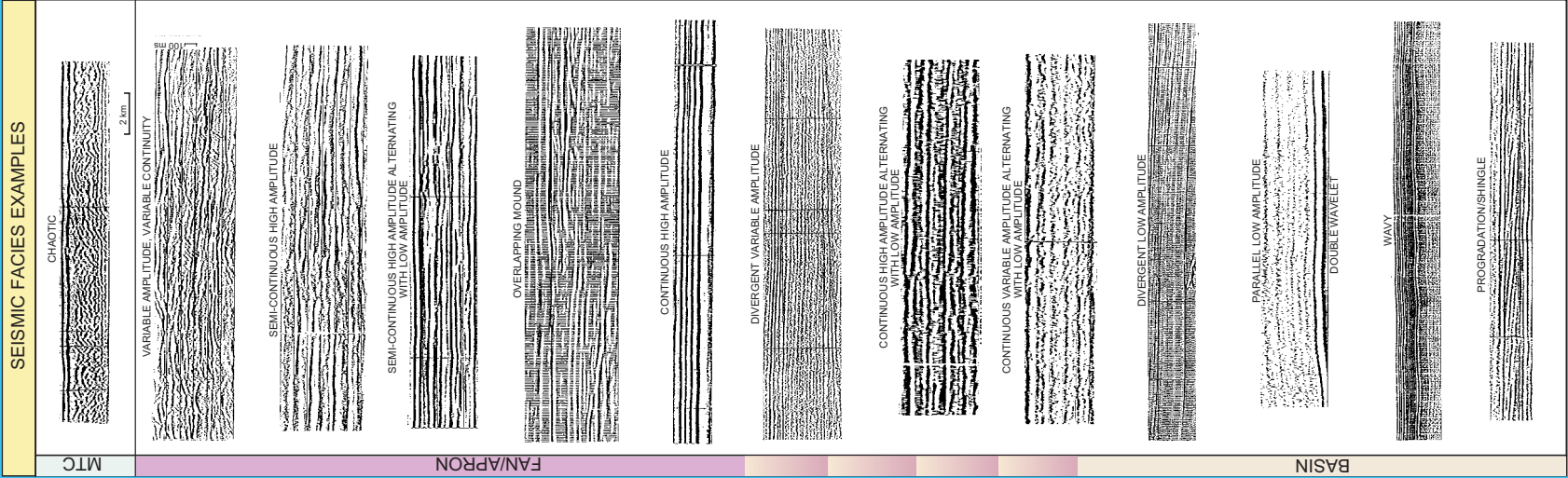


WELL LOG FACIES DEFINITION AND DEPOSITIONAL INTERPRETATION
Gulf of Mexico Basin

REPRESENTATIVE LOG PATTERNS		DEPOSITIONAL SYSTEM AND FACIES ASSOCIATION	LITHOFACIES DESCRIPTION	INTERPRETATION	OCCURRENCE IN BASIN	FACIES ASSOCIATION
FLUVIAL						
		Fluvial A. Bedload dominated B. Mixed-load dominated C. Suspended-load dominated	Aggradational facies succession. Sand (A) to mud (C) dominated, heterolithic succession containing discontinuous sand bodies. Sharp basal, variably sharp (A) to transitional, upward-fining (B, C) upper contacts. Laterally discontinuous lithofacies.	Constructional alluvial plain succession landward of delta or shore zone system.	Major fluvial systems source deltaic depocenters. Bed load systems occur primarily in the N.W. Gulf, Rio Grande and Burgos basins.	fbl fml fsl
		Delta Fluvial dominated A. Platform delta B. Shelf-margin delta	Progradational facies succession. Heterolithic composition. Upward coarsening, lenticular, discontinuous sand bodies overlying prodelta mud. Digitate, laterally discontinuous sand bodies.	Major delta system prograding across shelf platform (A) or directly onto the continental slope (B).	Major fluvial-dominated deltas are prominent in the S. Louisiana, Houston and Macuspana depocenters.	dflp dfsm
		Delta Wave-dominated A. Platform delta B. Shelf-margin delta	Progradational facies succession. Sand rich. Upward-coarsening to massive delta margin sand bodies overlying prodelta mud. Tabular to lobate, laterally continuous sand bodies.	Major delta system prograding across shelf platform (A) or directly onto the continental slope (B).	Wave-dominated deltas dominate the N.W. Gulf, Rio Grande and Burgos depocenters.	dwp dwsml
		Shore zone Wave-dominated	Progradational to aggradational facies successions. Sand rich. Upward-coarsening to massive, lenticular to tabular, clean sand bodies. Transitional to sharp base; sharp top.	Constructional shorelines supplied by longshore reworking from major deltaic systems and/or coastal plain fringes. Includes barrier/ lagoon and strandplain complexes.	Thick shore-zone systems occur in Paleogene through Middle Miocene depisodes.	sz
		Shelf A. Mud-dominated shelf B. Sandy wave-dominated shelf C. Carbonate-dominated shelf	Aggradational to progradational blankets and prisms. Sharp to transitional vertical boundaries. Transitional lateral boundaries. Massive to interstratified lithologies. Neritic faunas.	Constructional shelves marginal to major delta systems, fronting shore-zone systems, or capping transgressive coastal successions.	Carbonate shelves and ramps dominate the Florida and Yucatan margins. Relatively thick, elastic shelf systems occur in Paleogene-Miocene depisodes along N.W. and N.C. Gulf margins.	sm ss sc
		Slope Progradational delta-fed apron A. Sandy B. Muddy	Offlapping succession of sandy to muddy turbidite and debris flow deposits. Upward-shoaling succession with bathyal faunas. Discontinuous, sharp to transitionally bounded sand bodies. Abundant syndepositional faults. Capped by delta system facies.	Constructional continental margin primarily supplied by a superjacent shelf -margin delta complex.	Front major delta depocenters of N., N.W. and S.W. Gulf.	sbpsd sbpmd
		Slope Progradational shelf-fed apron A. Sandy B. Muddy	Offlapping succession of sandy to muddy turbidite and debris flow deposits. Upward-shoaling succession with bathyal faunas. Discontinuous, sharp to transitionally bounded sand bodies. Capped by shelf system facies.	Constructional continental margin primarily supplied by a superjacent shelf.	Front major shelf and shore-zone depositional system tracts of the N.W. and N.C. Gulf Paleogene-Miocene depisodes.	sbps sbpms
		Slope Sandy retrogradational slope apron	Onlapping succession of muddy to sandy turbidite, debris flow and slump deposits. Upward-deepening and fining succession with bathyal or mixed faunas. Heterolithic interbedded, discontinuous facies association.	Destructional sandy to heterolithic continental margin undergoing long-term mass wasting.	Locally prominent within OF, PGA, and PAB depisodes.	sbras
		Slope Muddy retrogradational slope apron	Onlapping succession of muddy debris flow and slump deposits. Upward deepening paleobathymetry.	Destructional muddy continental margin undergoing long-term mass wasting.	Locally prominent within OF, PGA, and PAB depisodes.	sbram
		Slope Submarine canyon fill	Laterally bounded by deeply incised erosion surface. Dominantly mud fill with lenticular to lobate turbidite channel and lobe sand bodies and discontinuous heterolithic slump and debris flow deposits. Capped by progradational upper slope mud and sandy shelf or deltaic facies.	Large-scale focused mass-wasting and submarine erosion creating a canyon, which subsequently fills with onlapping debris flow and turbidite deposits capped by an offlapping succession of shelf or prodelta sediment.	Locally prominent in the early Paleogene depisodes of the W., N.W. and C. Gulf and in the PS depisode of the N.C. Gulf.	sbsc
		Slope to basin Megaslide complex	Bounded updip at base by slide plane. Rotated fault blocks to chaotic debris apron. Upper progradational facies succession overlies middle muddy unit; turbidite and sandy debris flow deposits and/or disarticulated blocks of upper slope, shelf-margin delta or other shallow facies concentrated in lower part of wedge.	Subregional failure of upper slope and shelf margin creating an embayment or re-entrant in basin margin. Slide blocks and incompletely evacuated debris flow form basal fill. Turbidites and smaller debris flows scour and pond between these. Prograding muddy slope apron deposits heal the embayment.	Locally prominent within OF, PGA, PAB and PTA depisodes.	sbrms
		Basin floor A. Basinal mud B. Sand-rich submarine fan	Mud; mud with interbedded sand and mud units. Transitional to sharp upper boundary. Sharp lower boundaries on sand bodies. Bathyal faunas.	Deposition on basin floor by low to high density turbidity currents and fluidal debris flows.	Penetrated only by deep wells in the N.E. and N.C. Gulf margin.	b-sbssf

SEISMIC FACIES DEFINITION AND GEOLOGIC INTERPRETATION

Deep Gulf of Mexico Basin



SEISMIC FACIES	SEISMIC FACIES DESCRIPTION	GEOLOGIC INTERPRETATION	OCCURRENCE IN DEEP BASIN
Chaotic	Disorganized, discontinuous, high or low amplitude reflections within a short distance external configuration	Slump, debris flow, creep mass transport complex	Along western and northern deep basin margins. Associated with NE deep basin
Variable amplitude, variable continuity	Lateral variation in both amplitude and continuity. Wedge shaped external configuration	Channel/overbank-mass transport Channel/mass transport complexes	Mainly in NE deep basin margins. Associated with Mississippi Fan sediments
Semi-continuous high amplitude	Subparallel, semi-continuous high amplitude reflections. Continuous high amplitude reflections are dominant. Wedge shaped external configuration	Sand-rich channel/lobe complexes. Sand-rich sheet turbidites. Sand-rich lobe complexes	Mostly in deep basin margins. Along NE and N margins. Associated with depocenters
Semi-continuous high amplitude alternating with low amplitude	Subparallel, semi-continuous high amplitude reflections alternating with low amplitude reflections. Continuous concave-up high amplitude reflections. Wedge shaped external configuration	Partially channelized lobe complexes. Sheet lobes	Mainly in NE deep basin margins. Along northern margin
Overlapping mound	Consisting of numerous small, rounded, high amplitude mounds. Mound contains concave-up, bi-lateral downlap. Semi-continuous high amplitude reflections. Mound-shaped external configuration	Sand-rich rounded lobe complexes. Mounded lobes	Only in western deep basin margins. Along NW and W deep basin margins. Associated with depocenters
Continuous high amplitude	Parallel, continuous, high amplitude reflections dominant	Sand-rich sheet turbidites. Sandy sheet turbidites	Along western and northern deep basin margins. Often associated with depocenters
Divergent variable amplitude	Wedge shaped in dip view and rounded-shaped in strike view. Subparallel variable amplitude reflections	Heterolithic sheet turbidites. Heterolithic sheet turbidites	Along western and northern deep basin margins. Associated with depocenters
Continuous high amplitude alternating with low amplitude	Contains three or more cycles, each cycle is dominated by low amplitude reflections, which is capped by a continuous high amplitude reflection. Wedge shaped external form	Heterolithic sheet turbidites. Sheet turbid-drape	Only in western basin margins. Closely associated with depocenters
Continuous variable amplitude alternating with low amplitude	Contains three or more cycles, each cycle is dominated by low amplitude reflections, which is capped by a continuous high amplitude reflection. Wedge-shaped external form	Mud-rich sheet turbidites. Muddy turb-hempelags	Only in western deep basin margins. Associated with depocenters
Divergent low amplitude	Subparallel low amplitude reflections. Wedge-shaped external form	Mud-rich sheet turbidites. Muddy sheet lobes	Along western and northern deep basin margins. Associated with depocenters
Parallel low amplitude	Parallel, continuous low amplitude reflections. One of the dominant facies in deep basin	Mud-rich sheet turbidites. Muddy turbidites	Remote basin/d areas. Particularly in southern and southeastern deep basin
Double wavelet	Railway track high amplitude reflections. Basin-wide continuity. One of the dominant facies in deep basin	Hempelagic drapes (sequence boundary). Hempelags	Basinwide
Wavy	Dune-like features. Parallel low amplitude reflections. Wave length ranging from 100 to 500 m. Amplitude 0.5-2.0 m	Mud-rich channels/contourites. Drift	Only in western deep basin along western margin
Progradation/shingle	Basinward progradation reflections geometry. Shingle into parallel low amplitude facies	Mud-rich prograding lobes. Shingle turbidites	Only in western deep basin along western margin

SEISMIC FACIES PATTERNS	DEPOSYSYSTEMS
Chaotic	fsal slump, debris flow, creep
Variable amplitude, variable continuity	fchl channel/overbank-mass transport
Semi-continuous high amplitude	dfchl sand-rich channel/lobe complexes
Semi-continuous high amplitude alternating with low amplitude	dfall partially channelized turbidite/lobe complexes
Overlapping mound	dfentl sand-rich mound turbidite/lobe complexes
Continuous high amplitude	dfsl sand-rich sheet turbidites
Divergent continuous variable amplitude	dfshet heterolithic sheet turbidites
Continuous high amplitude alternating with low amplitude	bshad heterolithic sheet turbidites/hempelagic drape
Continuous variable amplitude alternating with low amplitude	bhd mud-rich sheet turbidites/hempelagic drape
Divergent low amplitude	bt mud-rich sheet turbidites
Parallel low amplitude	bt mud-rich sheet lobes
Double wavelet	bld hempelagic drape (sequence boundary)
Wavy	btc mud-rich sheet turbidites/contourites
Progradation/shingle	bpl mud-rich prograding lobes

after Feng, 1995

Depositional Framework Explanation

BASIN MARGIN FACIES ASSOCIATIONS

- 10: f: Fluvial System
- 11: fbl: Fluvial System - Bed-load dominated
- 12: fml: Fluvial System - Mixed-load dominated
- 13: fsl: Fluvial System - Suspended-load dominated
- 20: d: Delta System
- 21: dfp: Delta System - Fluvial-dominated platform
- 22: dfs: Delta System - Fluvial-dominated shelf margin
- 23: dwp: Delta System - Wave-dominated platform
- 24: dwsm: Delta System - Wave-dominated shelf margin
- 30: sz: Shore-Zone System - Wave-dominated shore zone
- 40: s: Shelf System
- 41: sm: Shelf System - Mud-dominated
- 42: ss: Shelf System - Sandy wave-dominated
- 43: sc: Shelf System - Carbonate-dominated
- 49: sbcr: Slope to Basin System - Carbonate ramp
- 50: sb: Slope to Basinal System
- 51: sbpsd: Slope to Basinal System - Progradational apron sandy delta-fed
- 52: sbpmd: Slope to Basinal System - Progradational apron muddy delta-fed
- 53: sbpss: Slope to Basinal System - Progradational apron sandy shelf-fed
- 54: sbpms: Slope to Basinal System - Progradational apron muddy shelf-fed
- 55: sbras: Slope to Basinal System - Retrogradational apron sandy
- 56: sbram: Slope to Basinal System - Retrogradational apron muddy

- 57: sbssc: Slope to Basinal System - Submarine canyon fill
- 58: sbms: Slope to Basinal System - Megaslide complex
- 59: sbssf: Slope to Basinal System - Sand-rich fan

BASIN CENTER FACIES ASSOCIATIONS

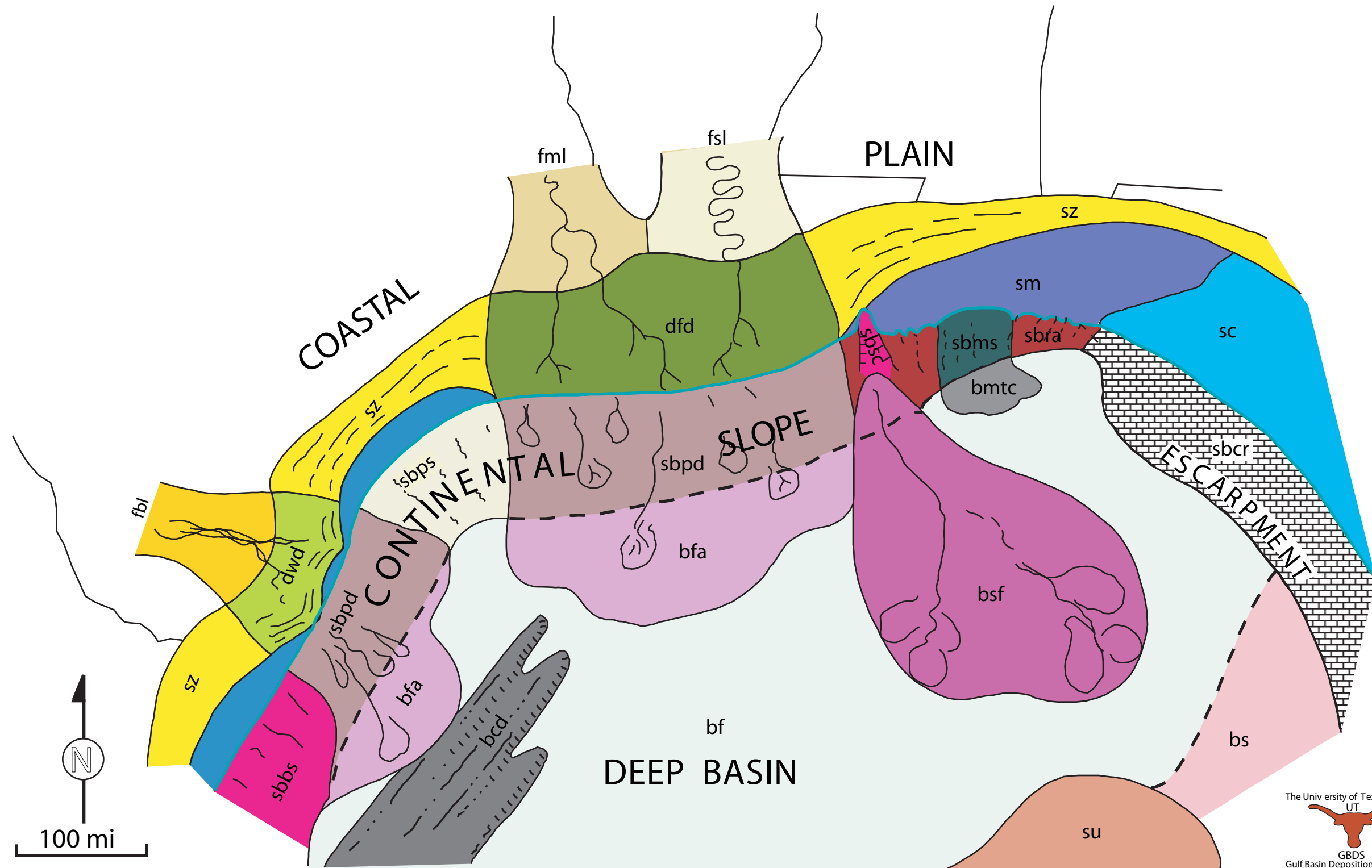
- 60: fa: Fan/Apron
- 61: fasl: Fan/Apron - Slump/debris flow/creep
- 62: fach: Fan/Apron - Channel/overbank-lobe/complexes
- 70: dfa: Distal Fan/Apron
- 71: dfach: Distal Fan/Apron - Sand-rich channel/lobe complexes
- 72: dfatl: Distal Fan/Apron - Partially channelized turbidite/lobe complexes
- 73: dfamtl: Distal Fan/Apron - Sand-rich mounded turbidite/lobe complexes
- 74: dfast: Distal Fan/Apron - Sand-rich sheet turbidites
- 75: dfahst: Distal Fan/Apron - Heterolithic sheet turbidites
- 80: b: Basin
- 81: bhsthd: Basin - Heterolithic sheet turbidites/hemipelagic drape
- 82: bthd: Basin - Mud-rich sheet turbidites/hemipelagic drape
- 83: bt: Basin - Varibly thick mud-rich sheet turbidites
- 84: bt: Basin - Mud-rich sheet turbidites
- 85: bhd: Basin - Hemipelagic drape (sequence boundary)
- 86: btc: Basin - Mud-rich turbidites/contourites
- 87: bpl: Basin - Mud-rich prograding lobes

FEATURES

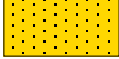
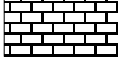
- Relict shelf margin of underlying depisode
- Other relict shelf margin
- Shelf margin at maximum progradation
- Relict L-M Cretaceous shelf margin
- Relict U. Cretaceous shelf margin
- Erosional margin
- Bedrock margin
- Escarpment
- Mapped sand depocenter
- Mapped interval depocenter (time)
- Mapped interval depocenter (ft)
- Outline of submarine canyons, megaslides and embayments
- Pinchout or truncation
- Onlap or other depositional limit
- Carbonate reef
- Deposystem outline
- Schematic deposystem outline
- Salt overthrusts
- Thrust faults
- Vicksburg fault zone
- Regional structural axes
- Tuxpan platform
- Seismic facies boundary or limit of data
- Primary deposystem
- Topmost and underlying deposystem(s)

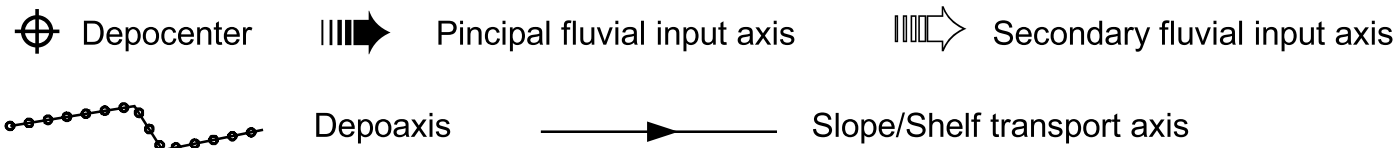


GOM GENERIC DEPOSYSYSTEM GEOGRAPHY

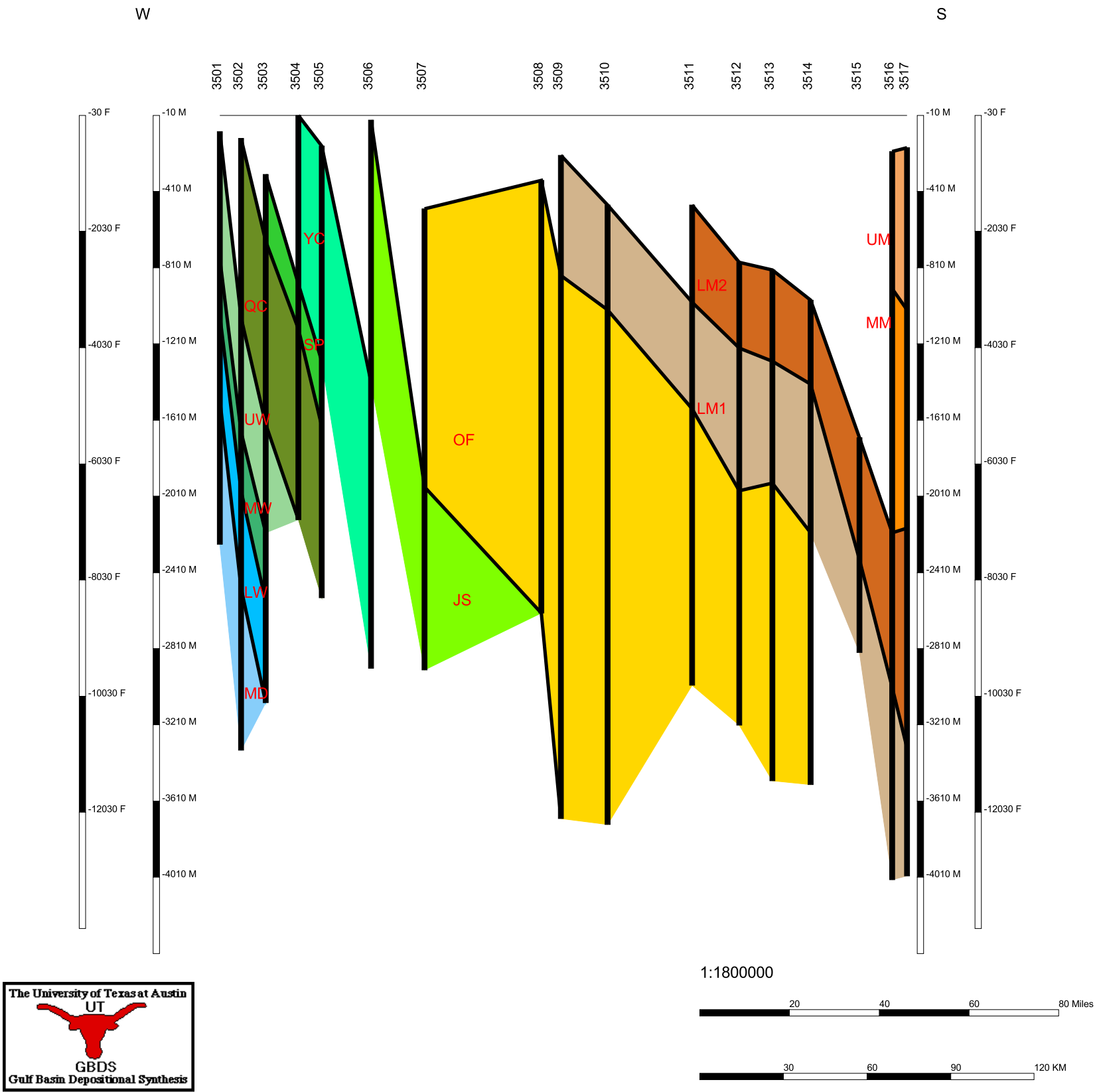


Color Codes and Symbols for GBDS Depositional Systems

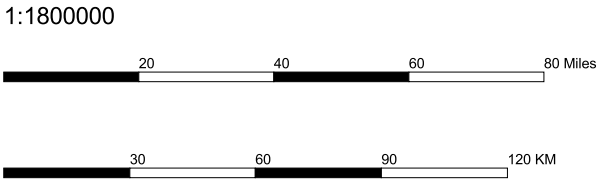
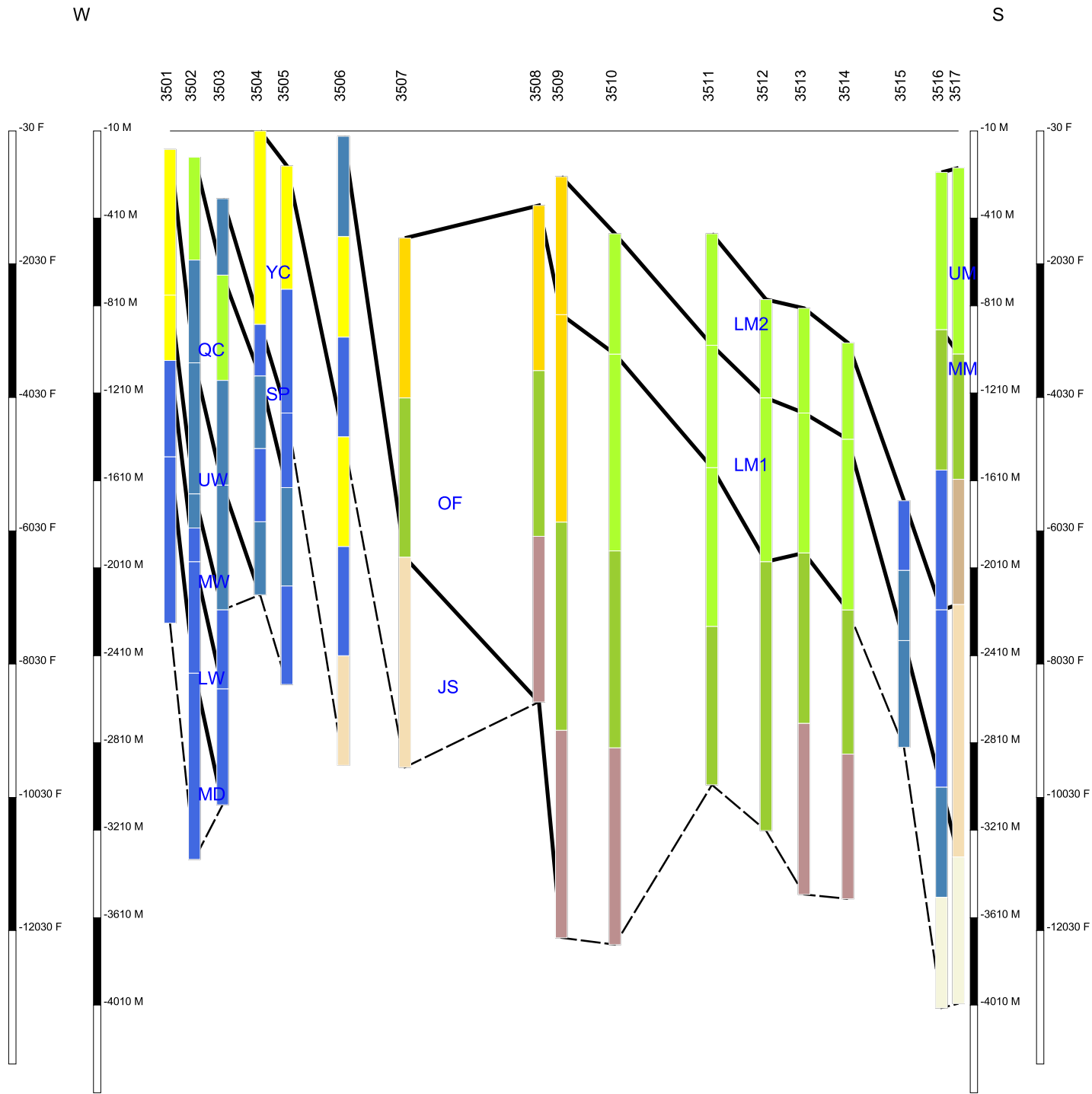
	10000: f: Fluvial System		51200: sbra: Slope System - Retrogradational apron
	10050: fbl: Fluvial System - Bed-load dominated		52980: sbcr: Slope System - Carbonate ramp
	10060: fml: Fluvial System - Mixed-load dominated		55400: sbbs: Slope System - Bypass slope
	10070: fsl: Fluvial System - Suspended-load dominated		58000: sbsc: Slope System - Submarine canyon
	20000: d: Delta System		59000: sbms: Slope System - Megaslides
	20010: dfd: Delta System - Fluvial-dominated delta		80000: bu: Basin System - Undifferentiated
	20030: dwd: Delta System - Wave-dominated delta		80090: bs: Basinal System - Starved basin
	30000: sz: Shore-Zone System - Wave-dominated shore zone		83700: bmtc: Basinal System - Mass transport complex
	40000: s: Shelf System		84009: bcd: Basinal System - Contourite drift
	40030: sm: Shelf System - Siliciclastic shelf		87000: bf: Basinal System - Basin floor
	40080: sc: Shelf System - Carbonate shelf		81060: bfa: Basin System - Basin floor apron
	50000: su: Slope System - Undifferentiated		81064: bfas: Basin System - Sandy basin floor apron
	51120: sbpd: Slope System - Progradational delta-fed apron		87001: bmf: Basin System - Muddy fan
	51121: sbpmd: Slope System - Progradational muddy delta-fed apron		87003: bsf: Basin System - Sand-rich fan
	51124: sbpsd: Slope System - Progradational sandy delta-fed apron		87004: bsyf: Basin System - Sandy fan
	51140: sbps: Slope System - Progradational shelf-fed apron		99999: none: Nondeposition - Nondeposition, erosion, or deposystem not defined



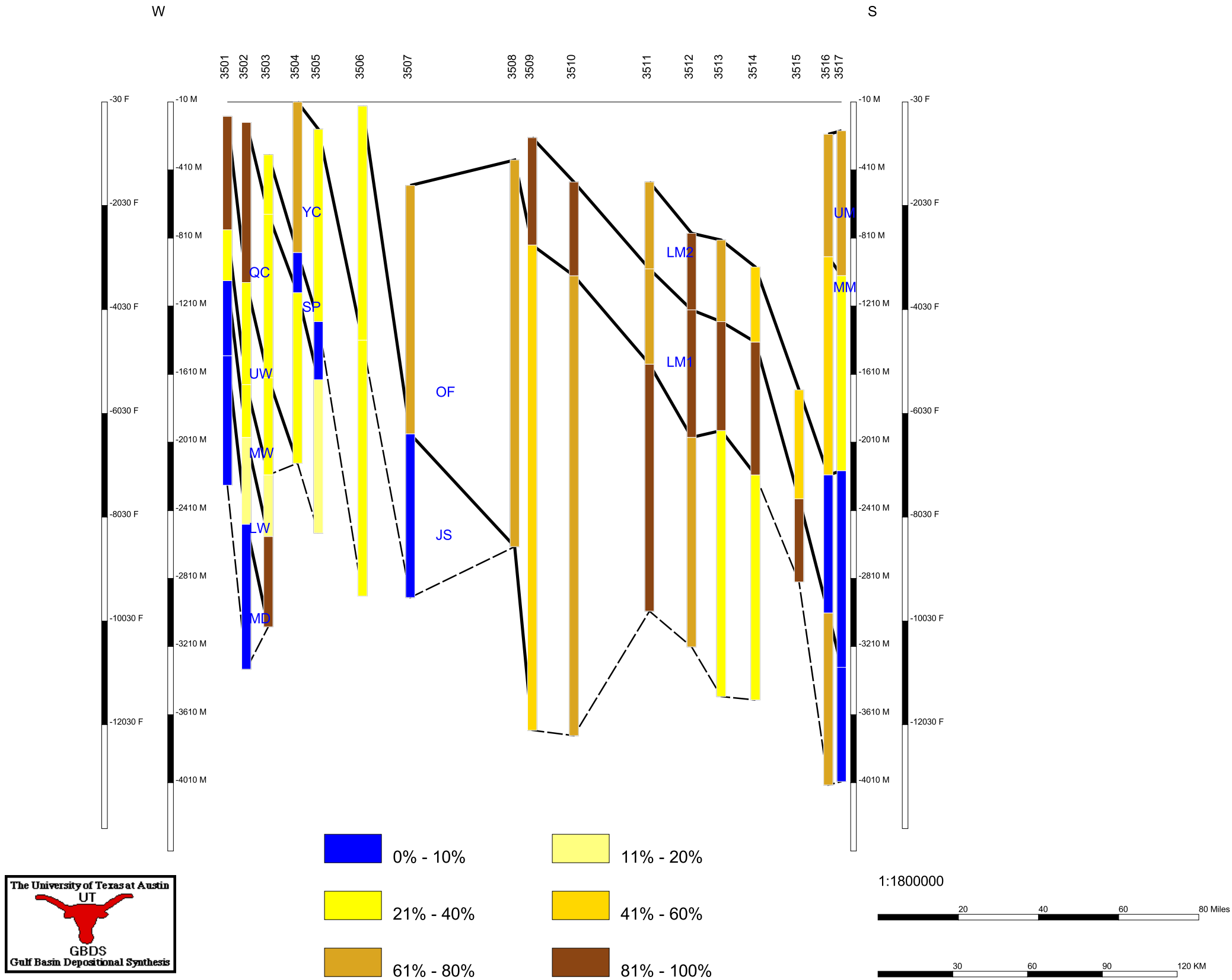
Burgos Well Transect Genetic Sequences



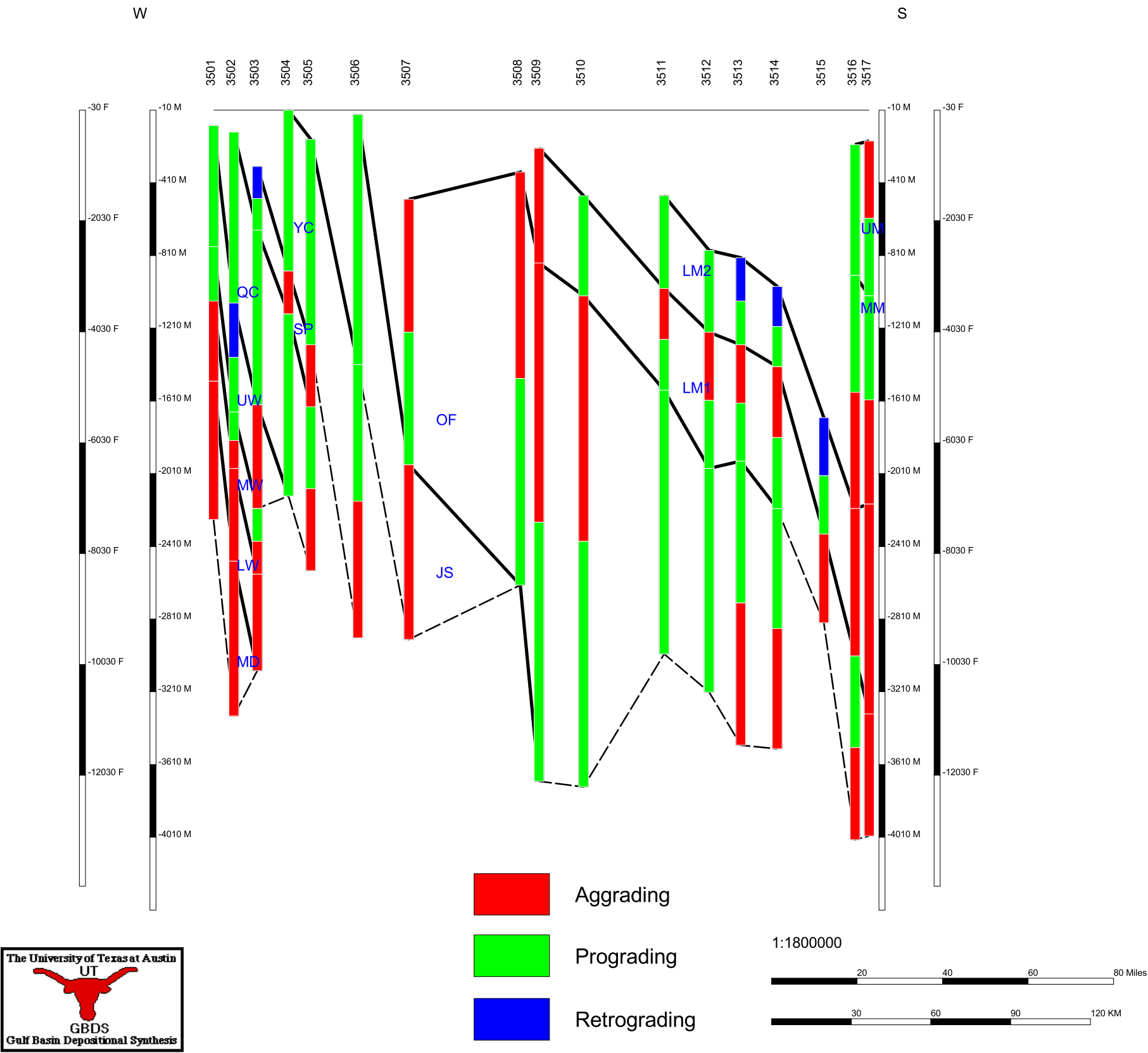
Burgos Well Transect Facies Associations



Burgos Well Transect Lithofacies



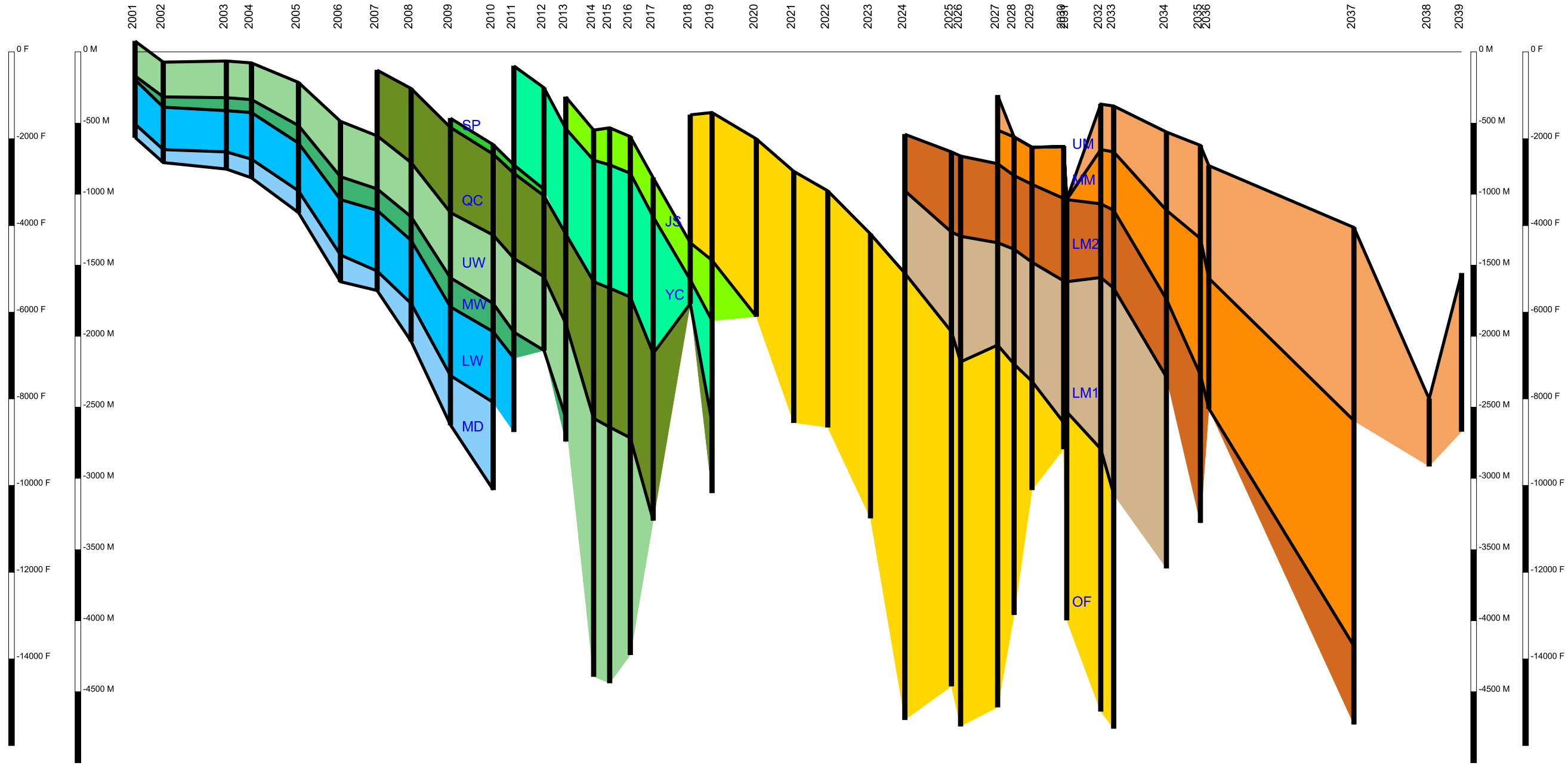
Burgos Well Transect Architecture



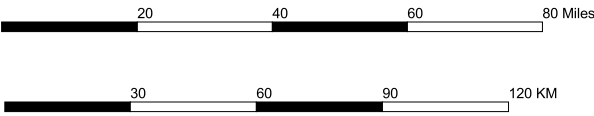
South Texas Well Transect Genetic Sequences

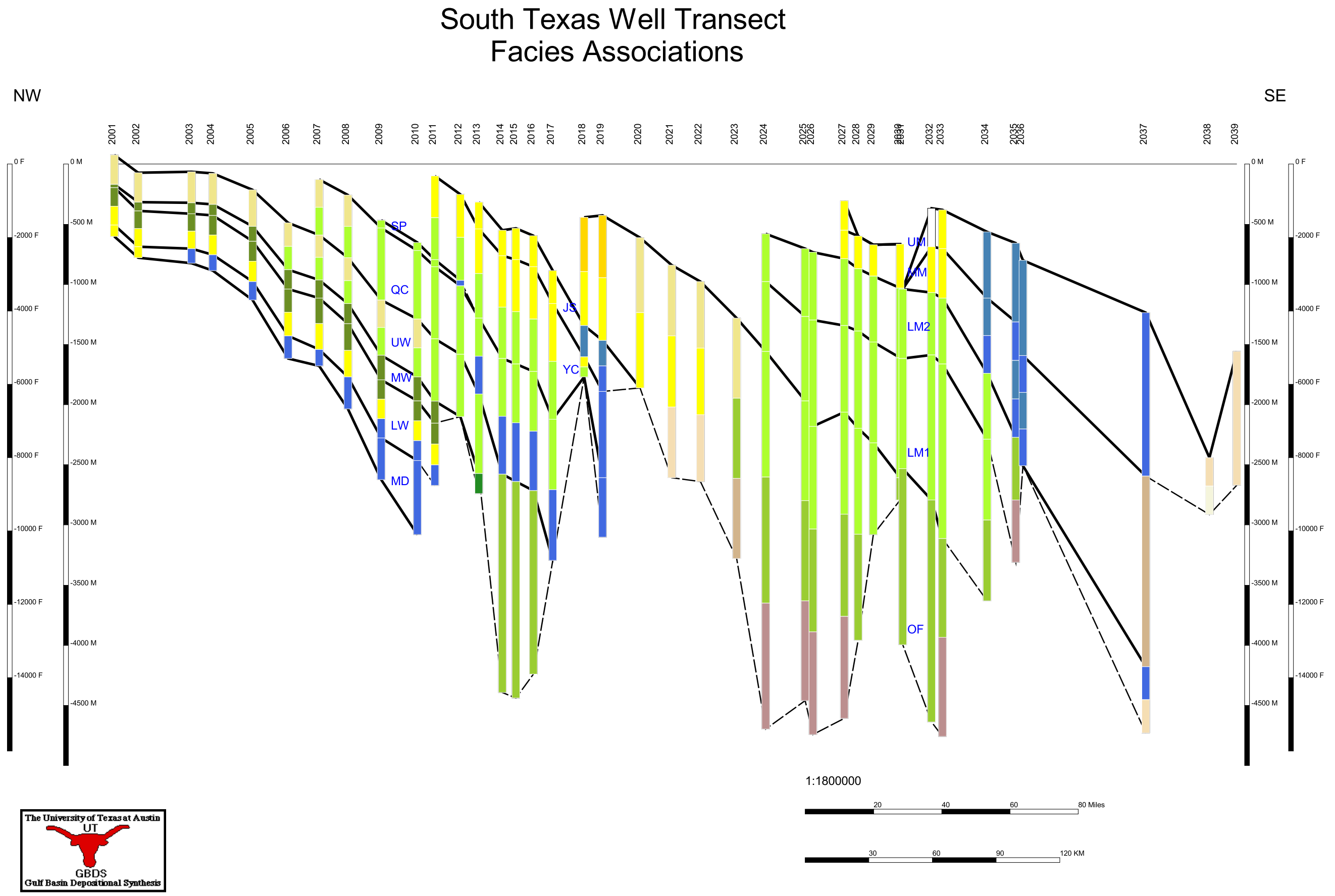
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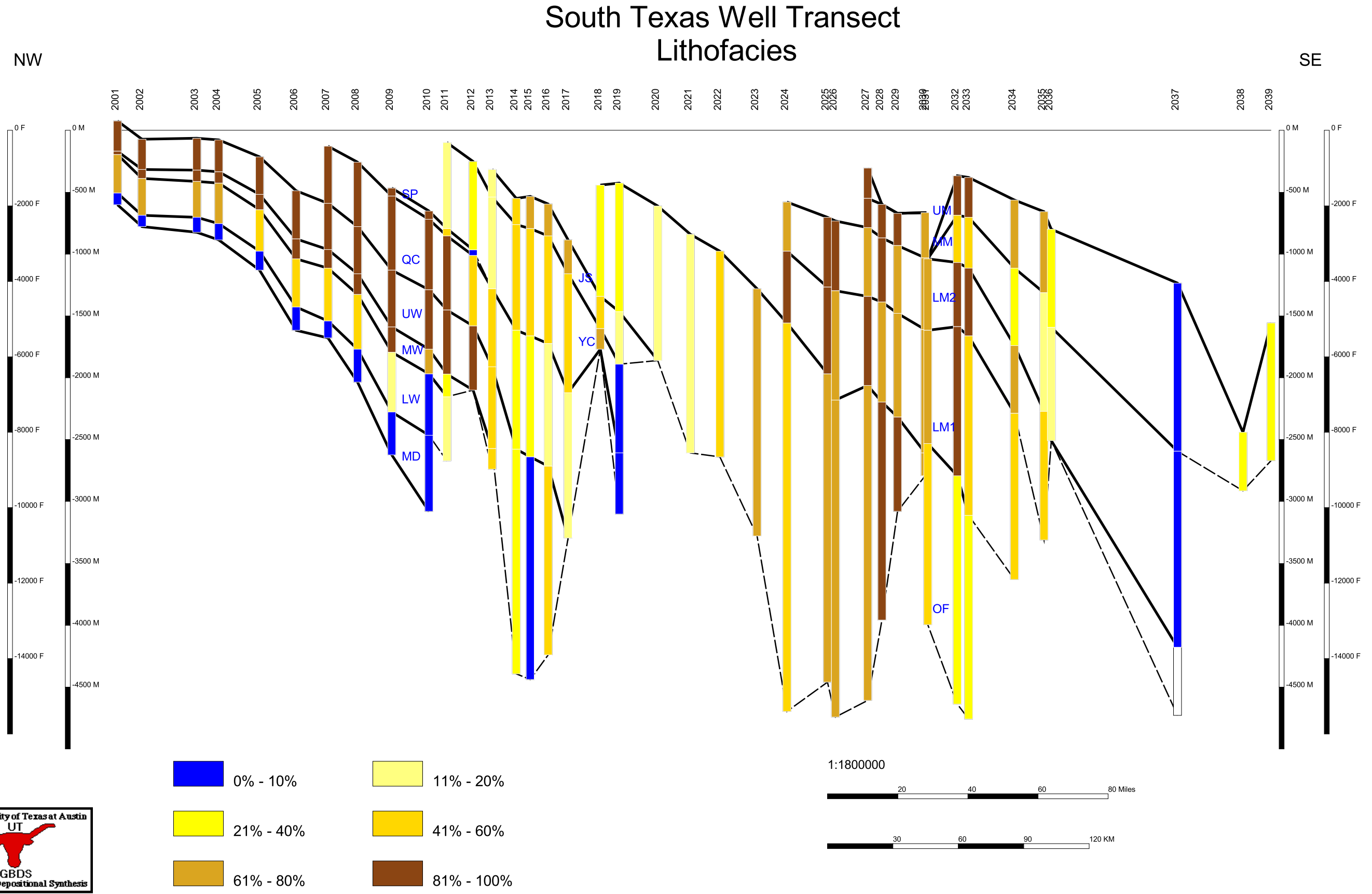
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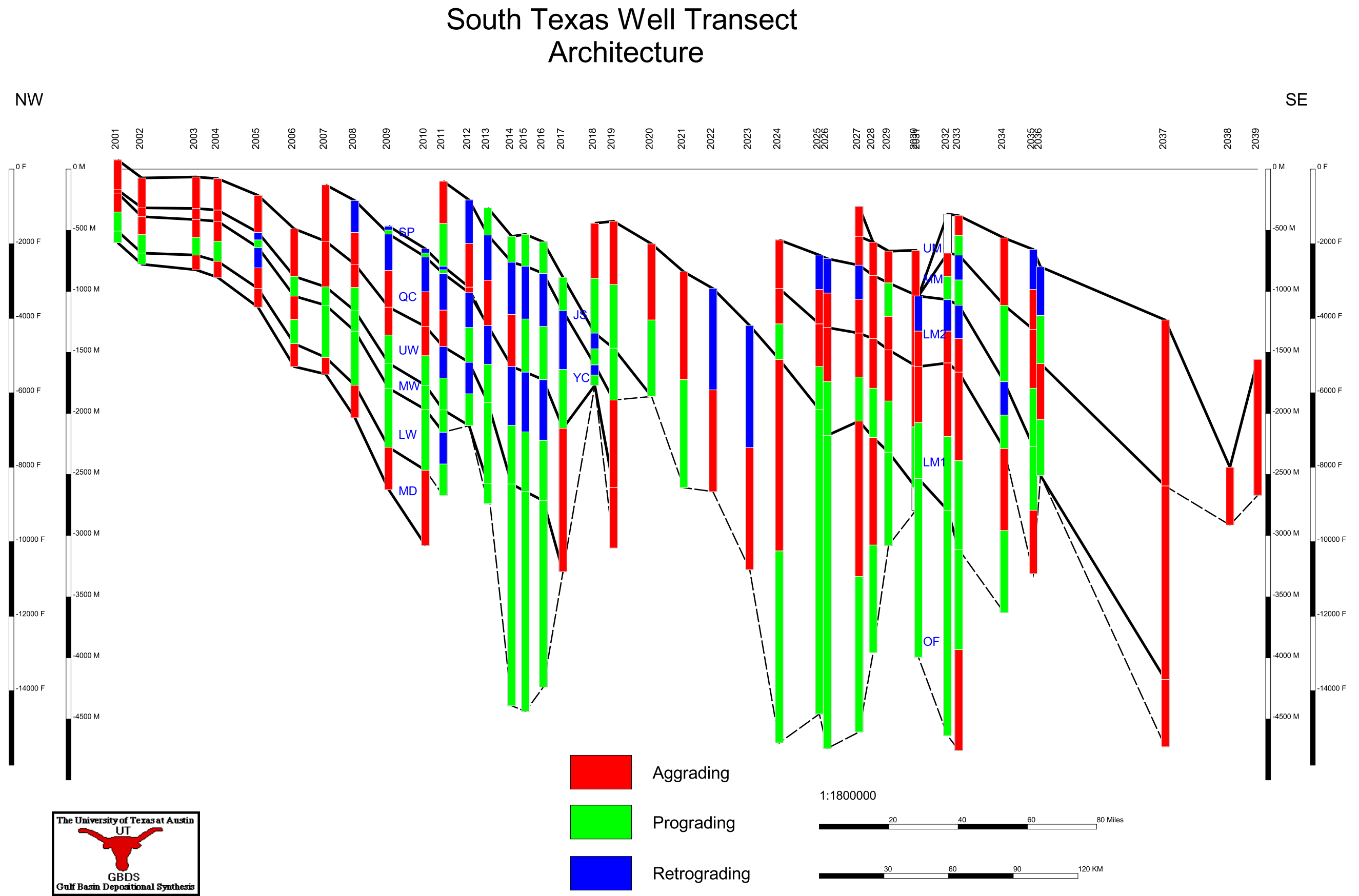


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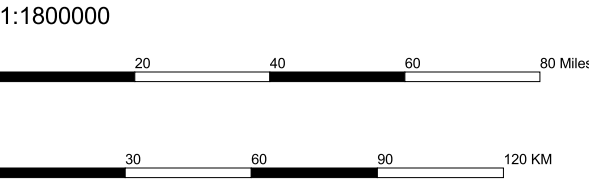
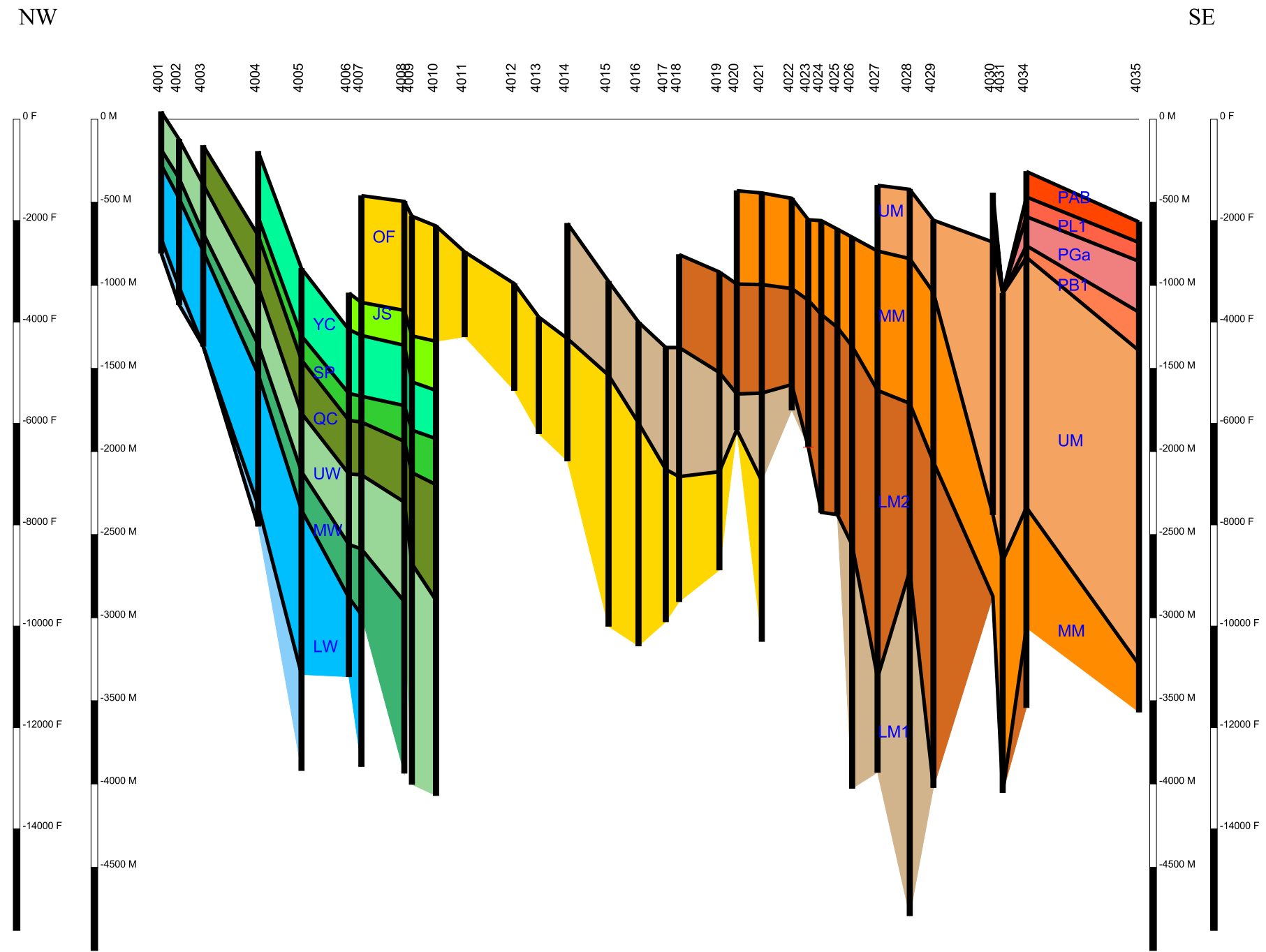








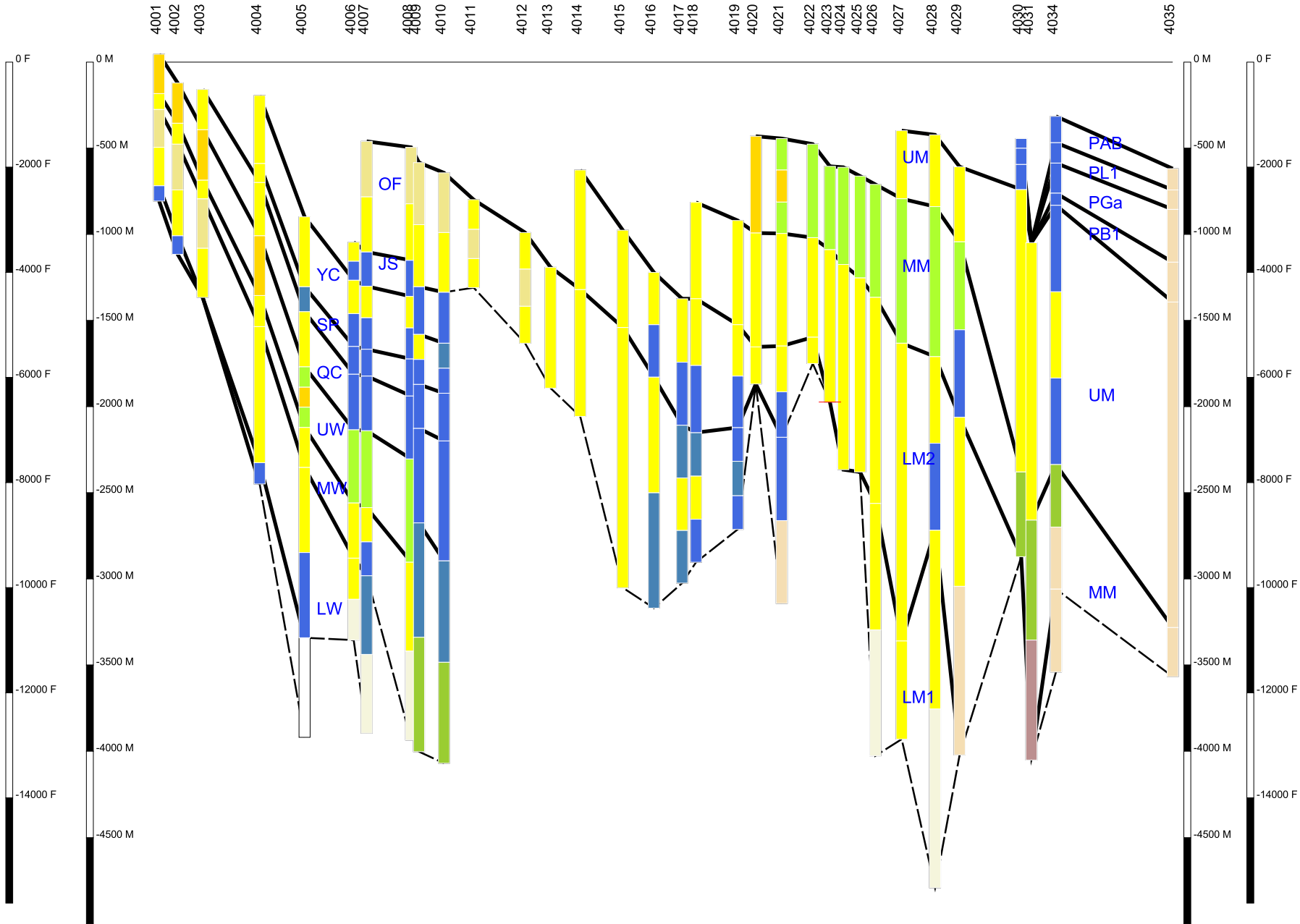
San Marcos Well Transect Genetic Sequences



San Marcos Well Transect Facies Associations

NW

SE



1:1800000

20 40 60 80 Miles

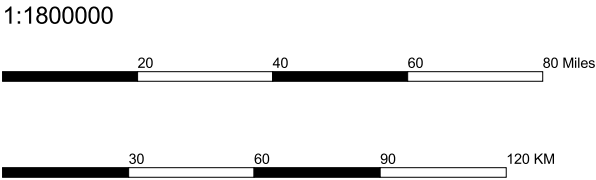
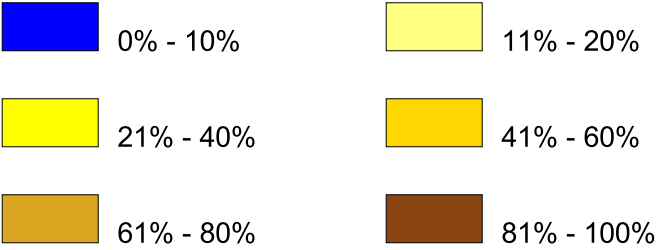
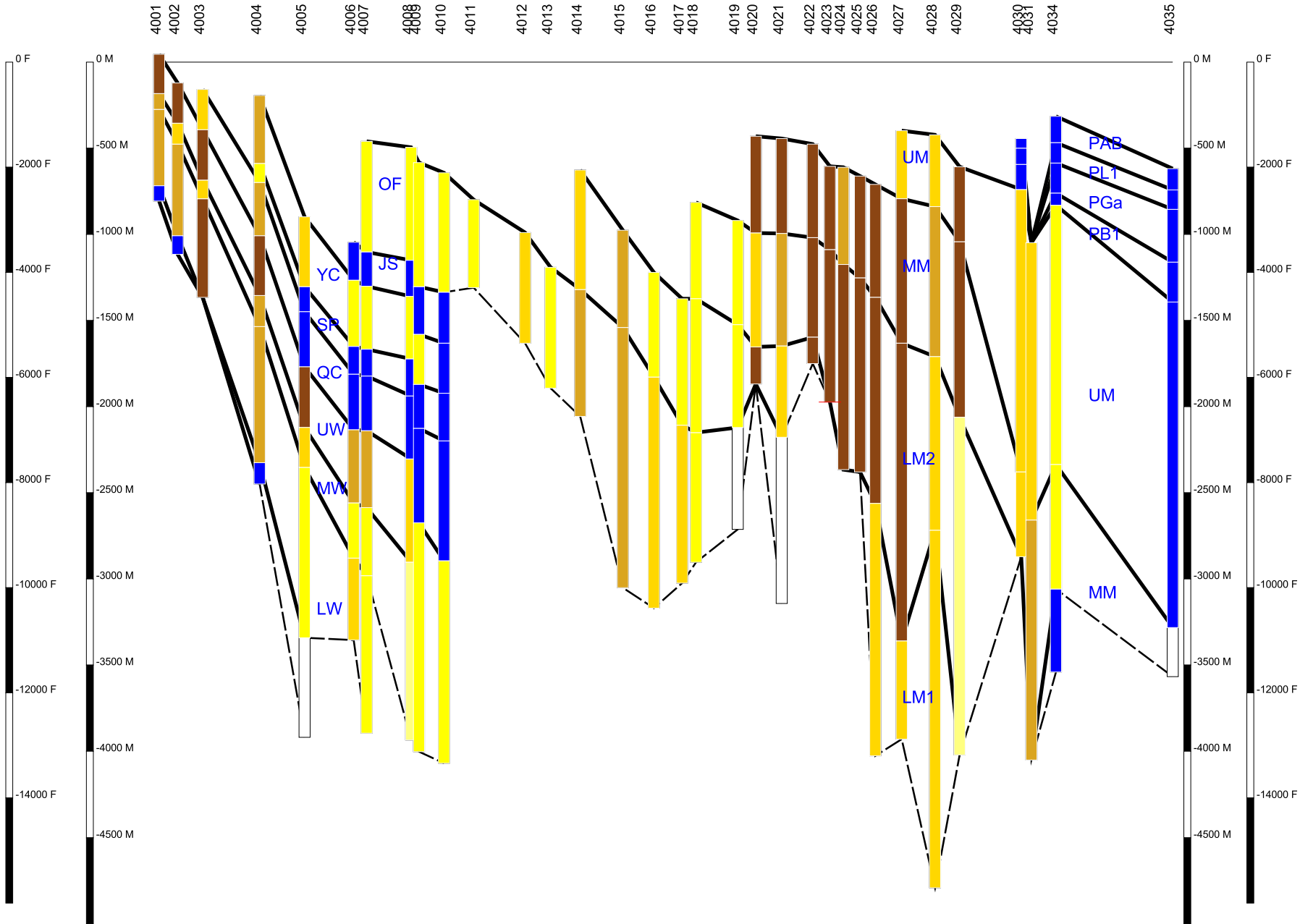
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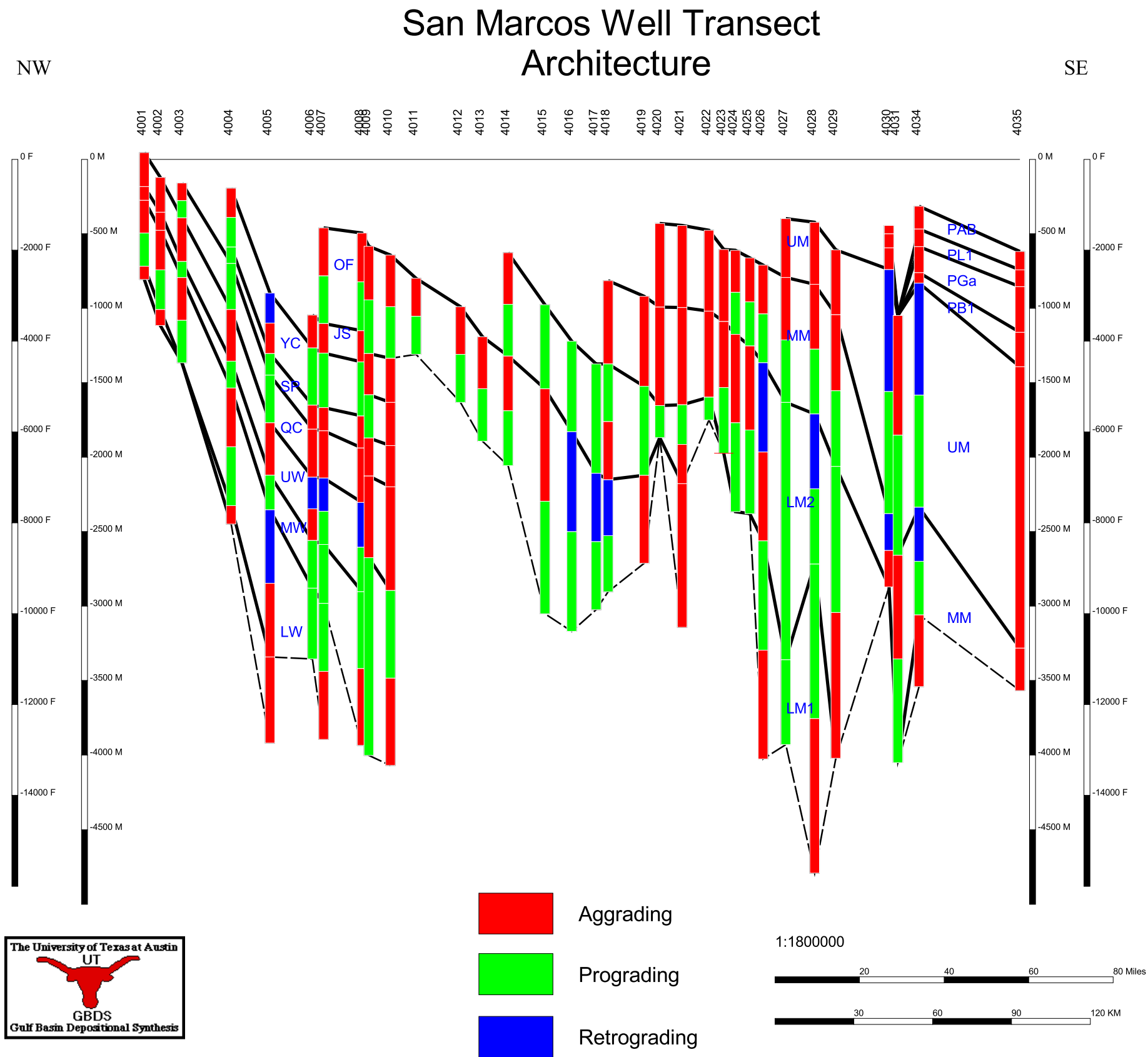


San Marcos Well Transect Lithofacies

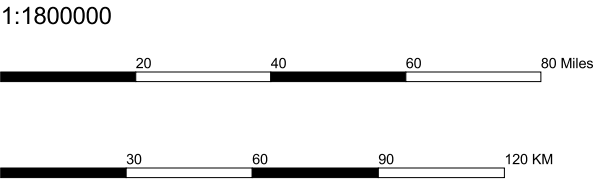
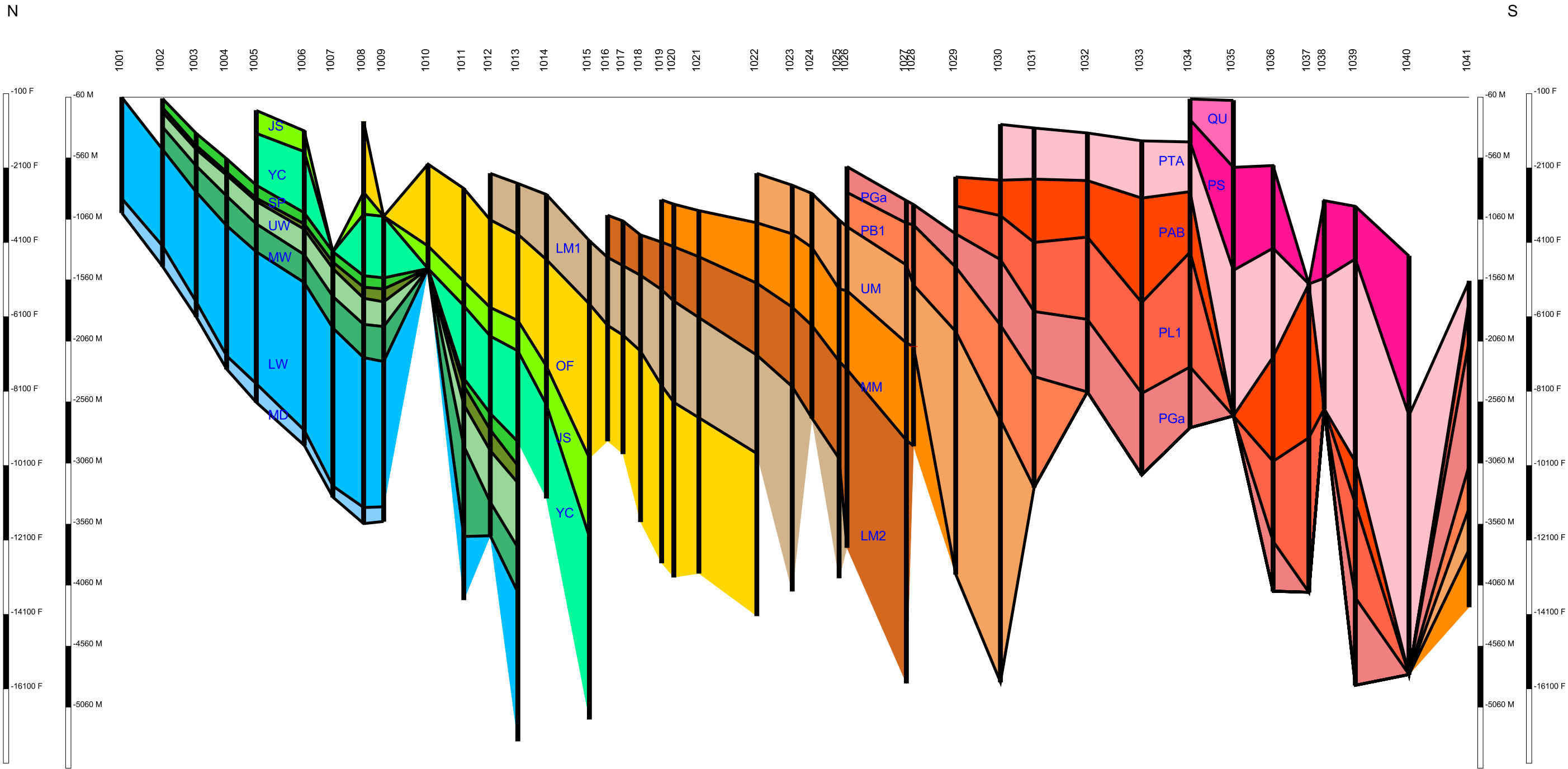
NW

SE

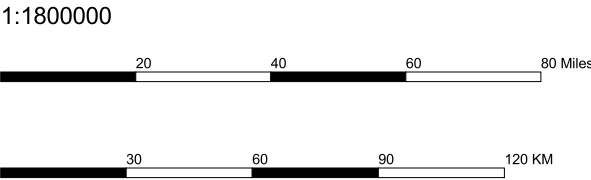
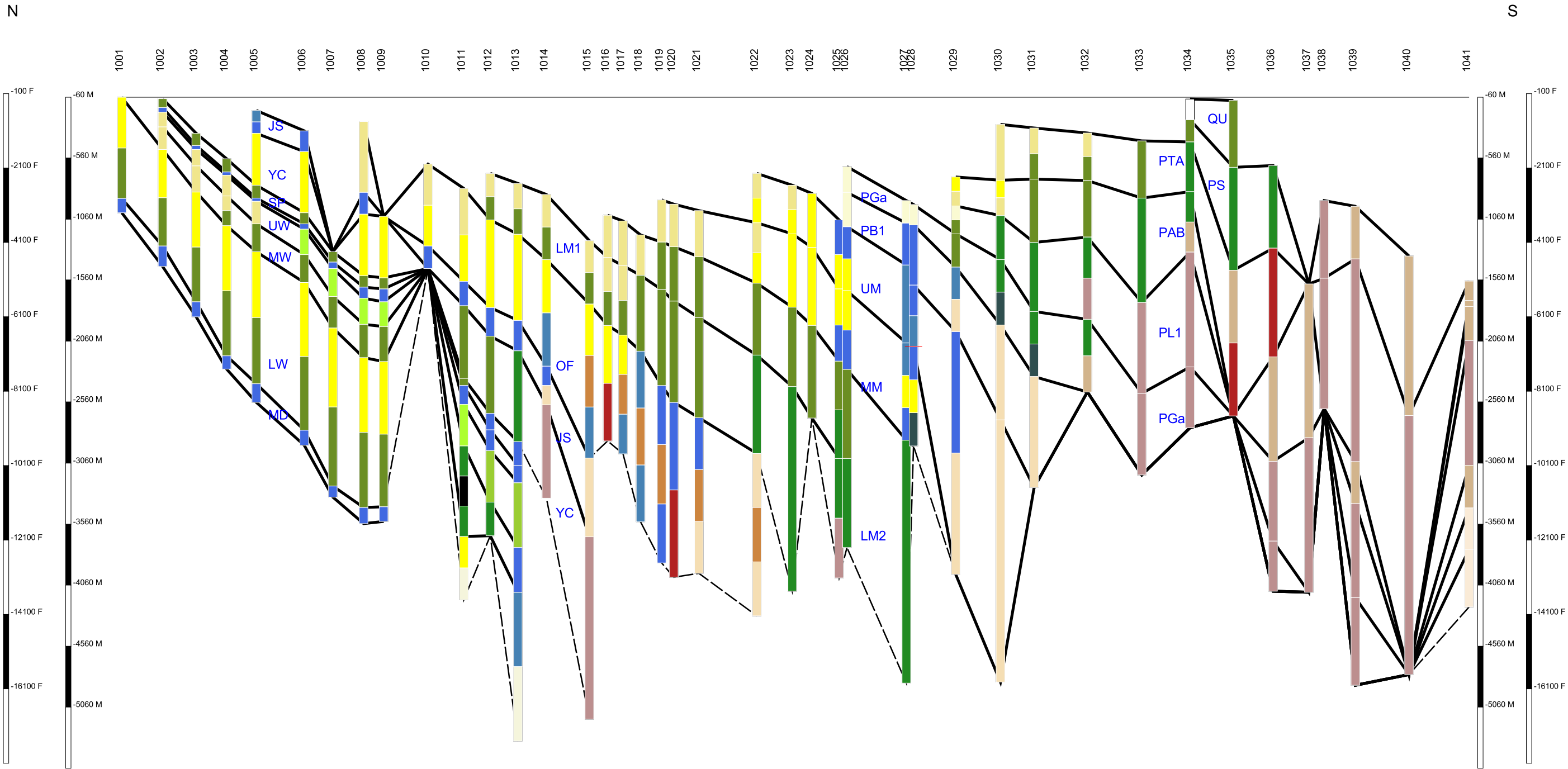




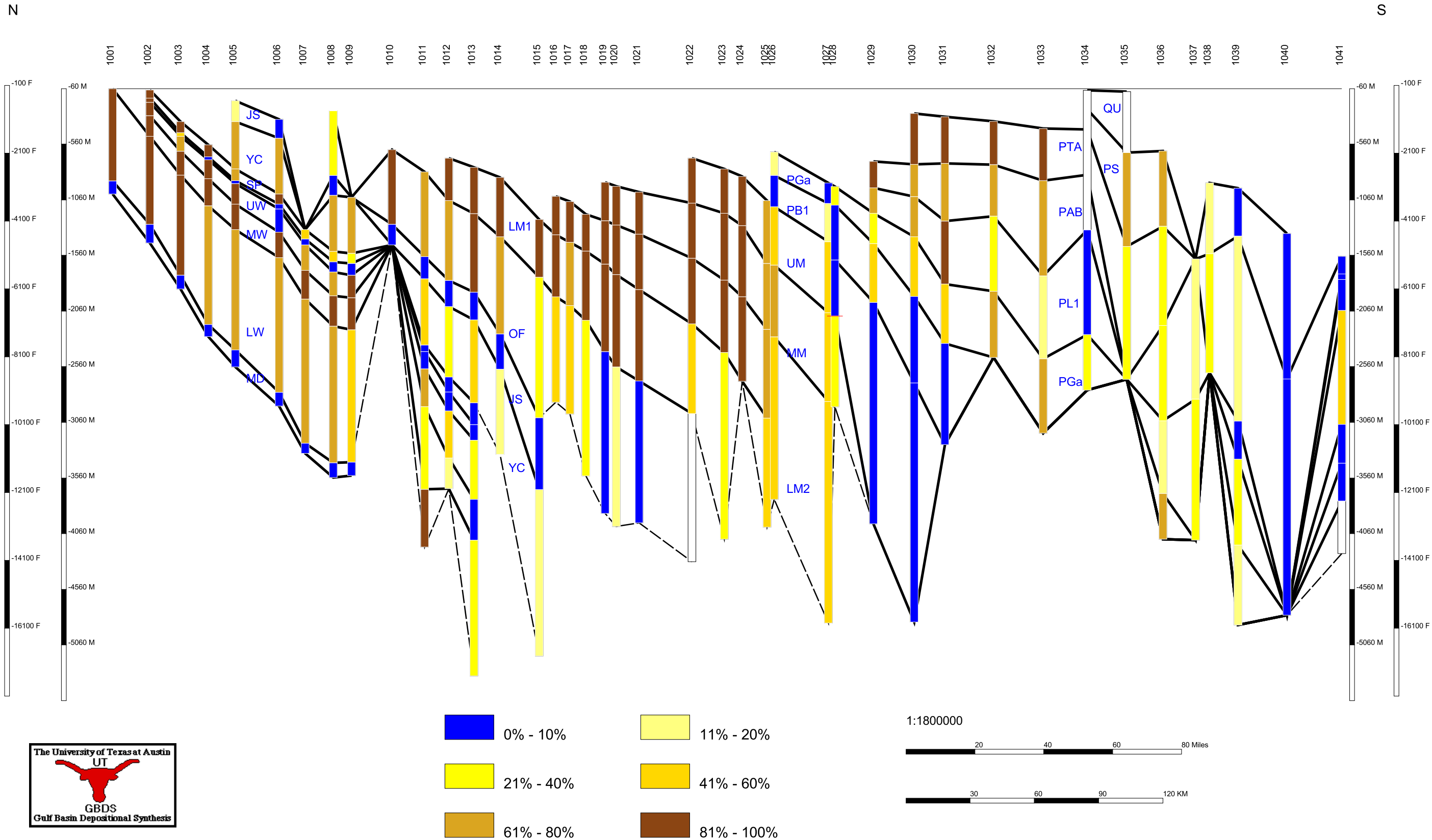
Sabine Well Transect Genetic Sequences



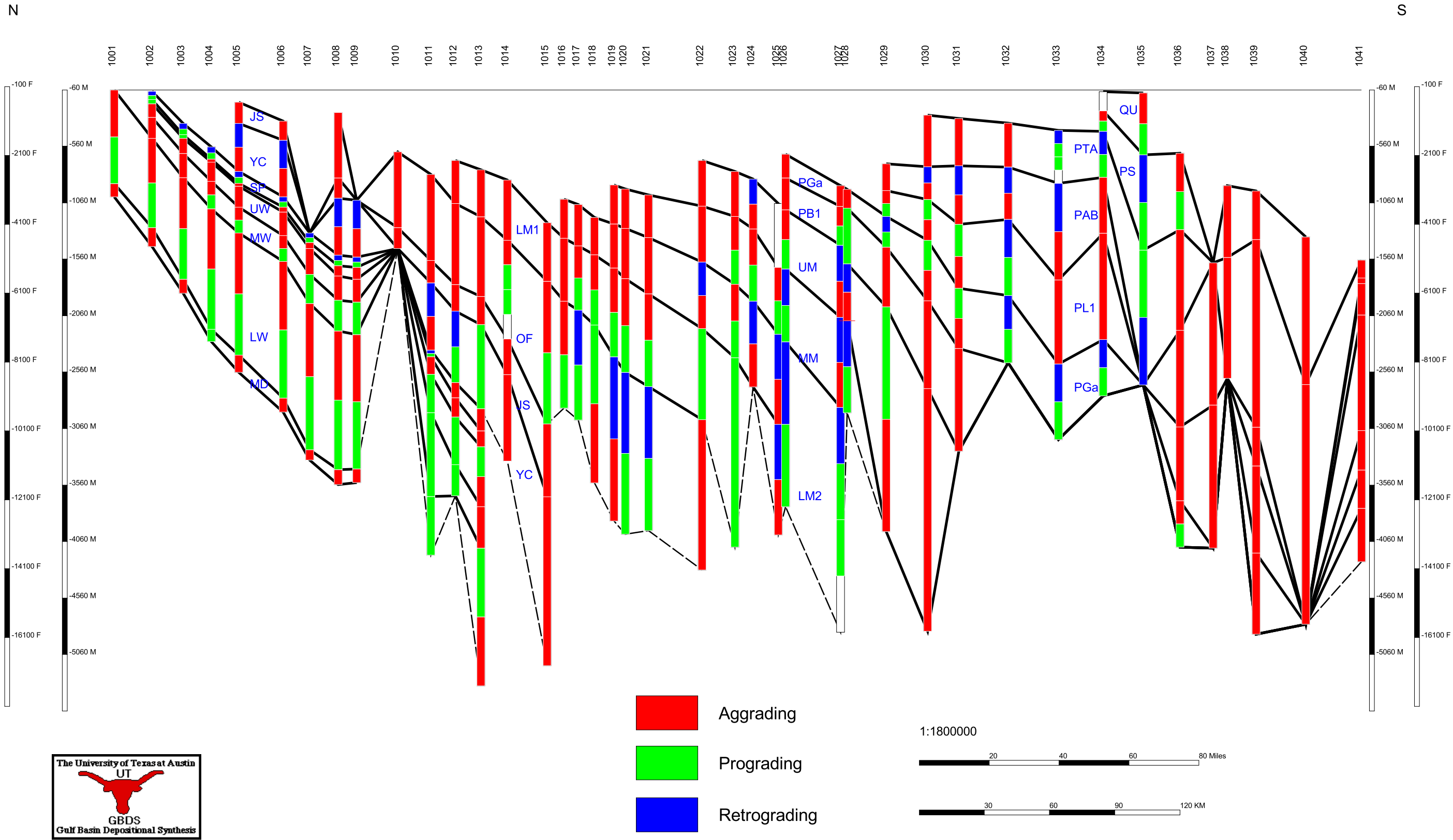
Sabine Well Transect Facies Associations



Sabine Well Transect Lithofacies



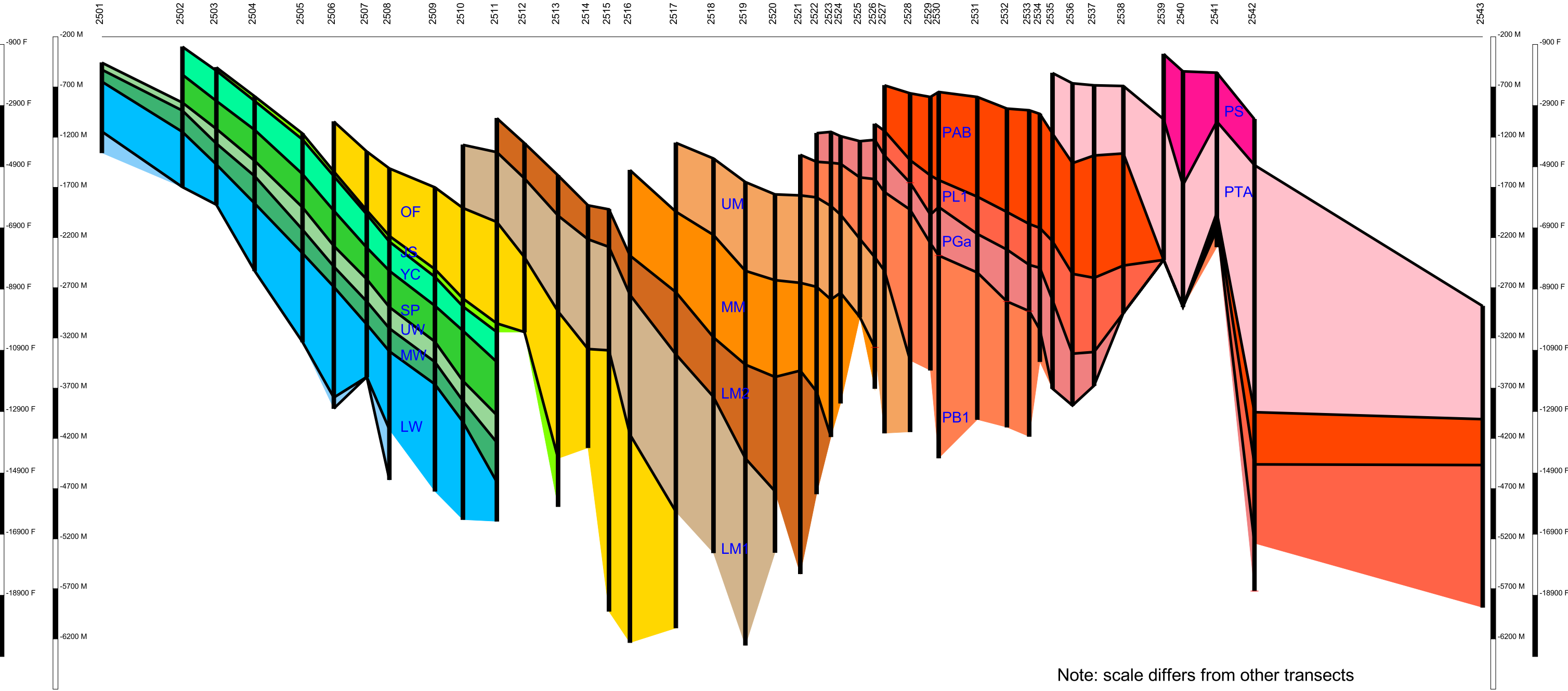
Sabine Well Transect Architecture



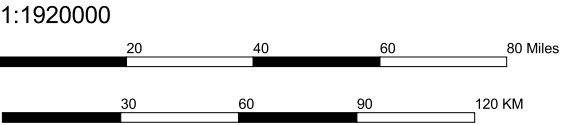
Central Louisiana Well Transect Genetic Sequences

N

S



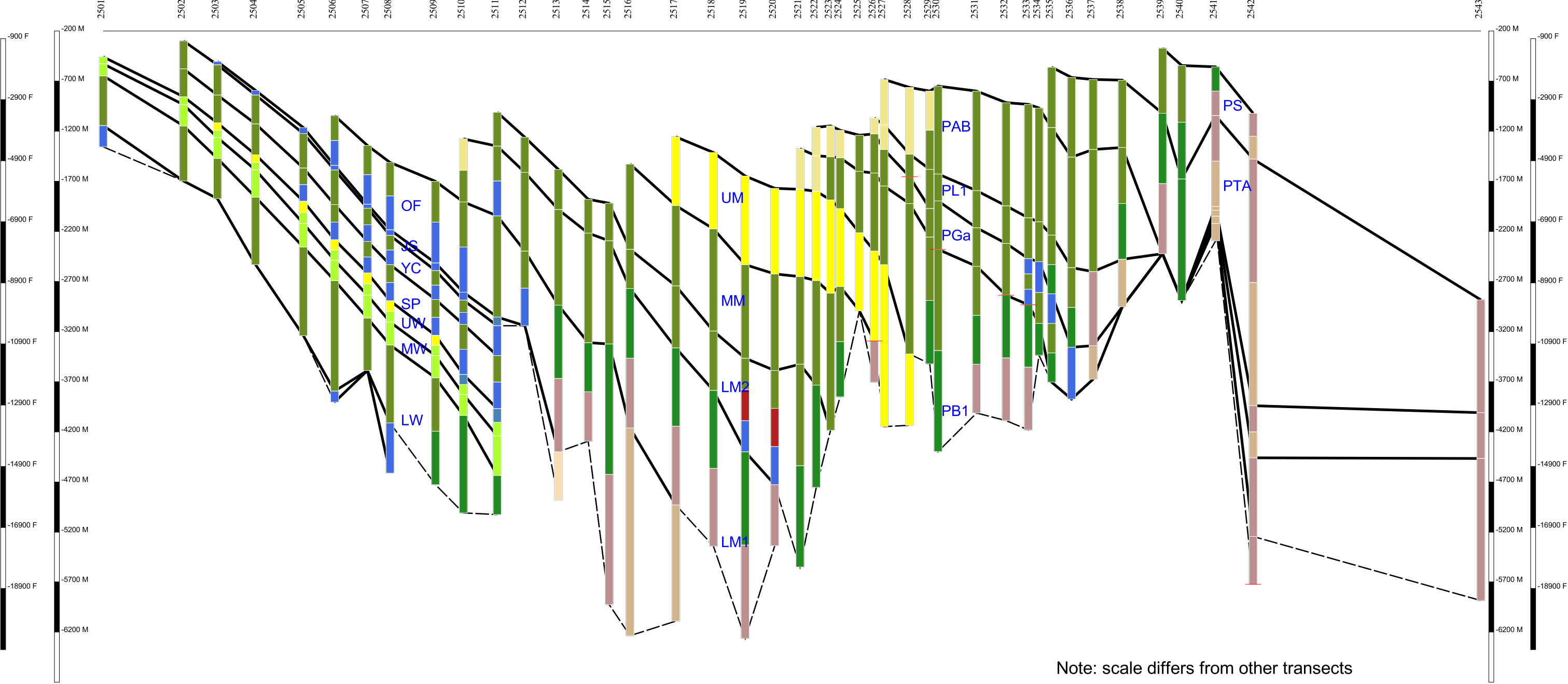
Note: scale differs from other transects



N

Central Louisiana Well Transect
Facies Associations

S



Note: scale differs from other transects
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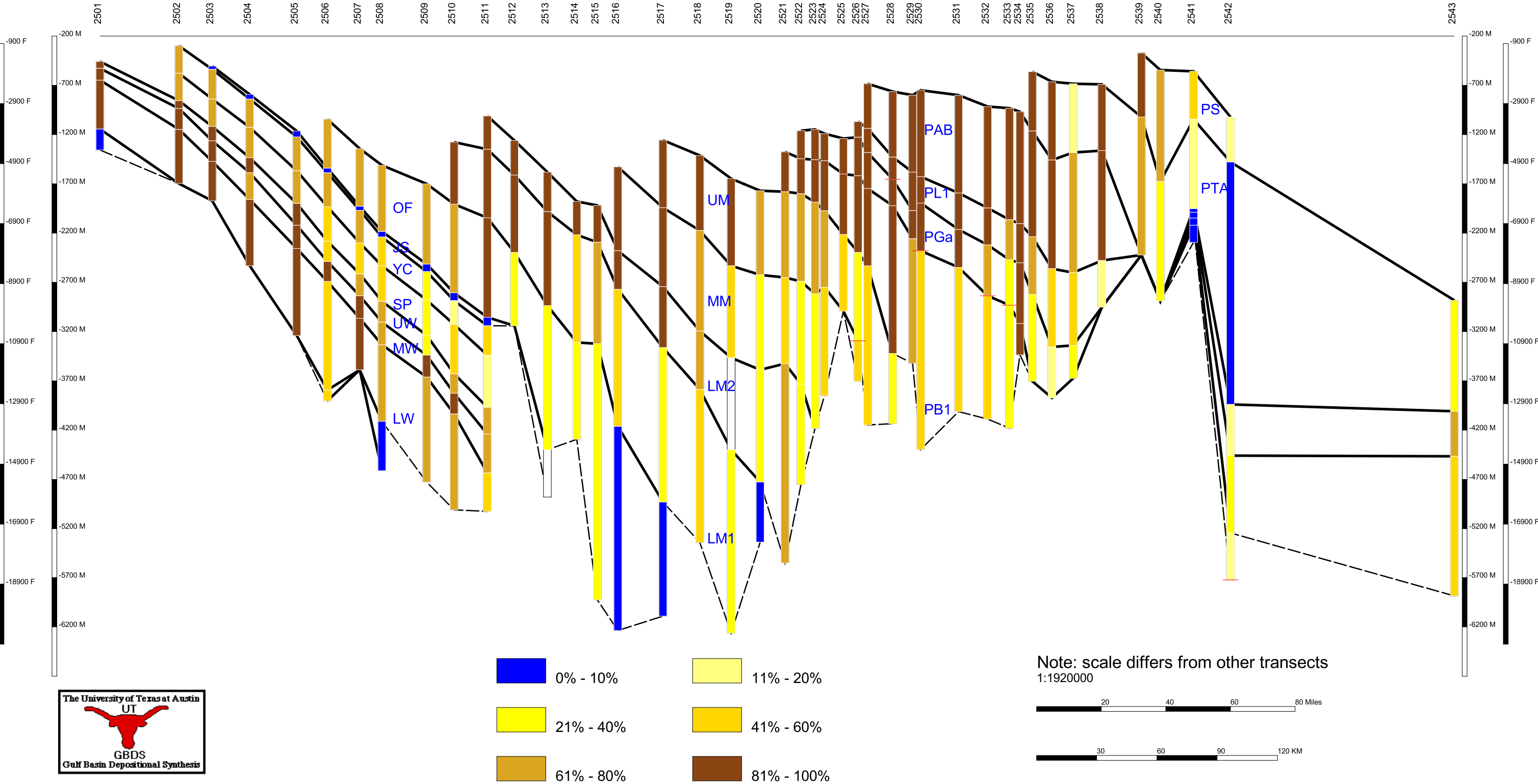
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306090120 KM

Central Louisiana Well Transect Lithofacies

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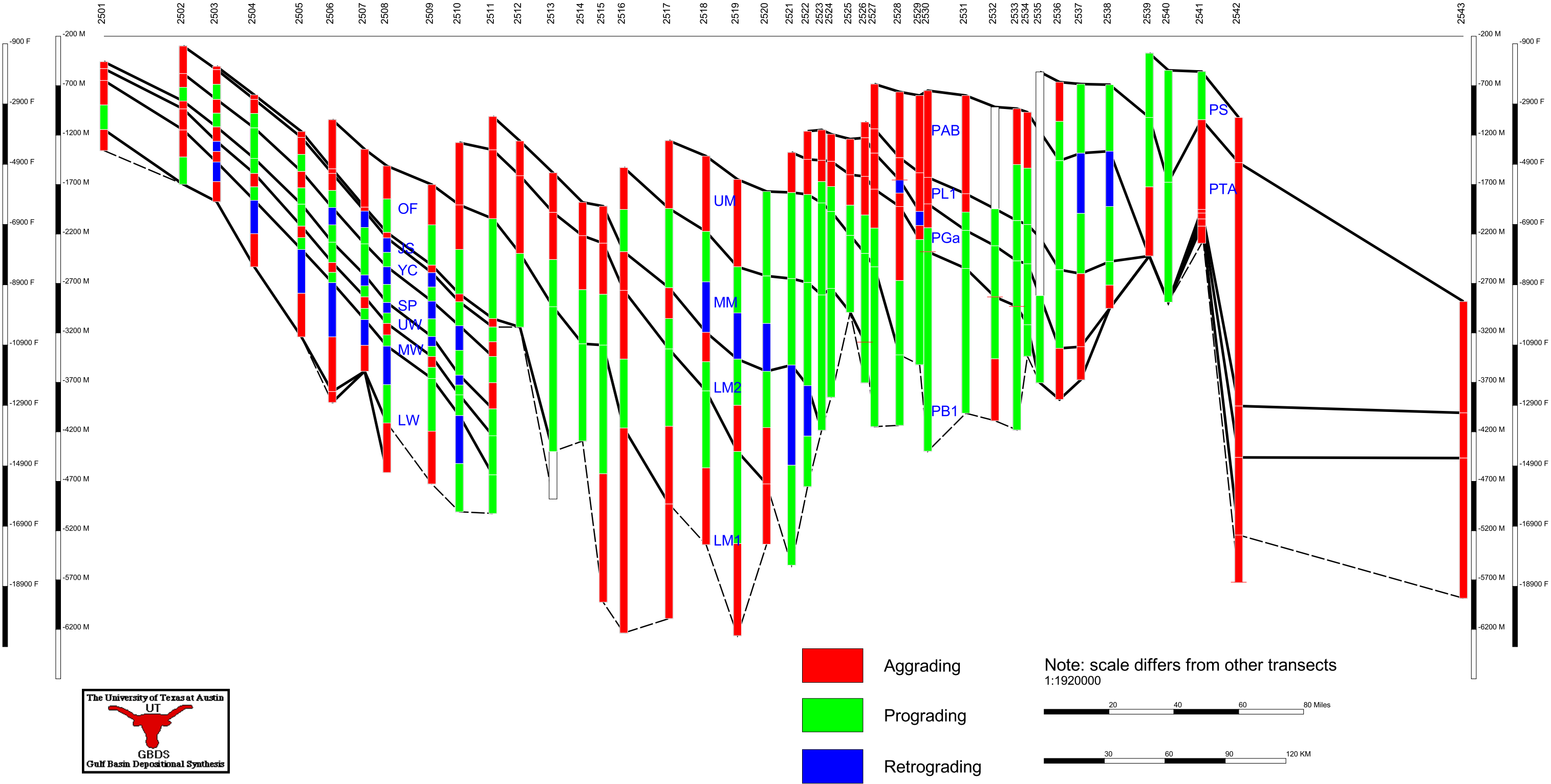
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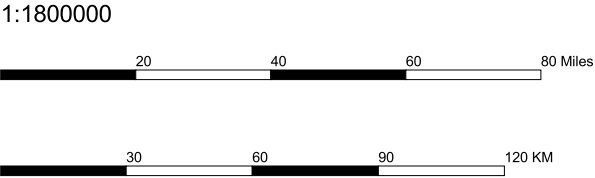
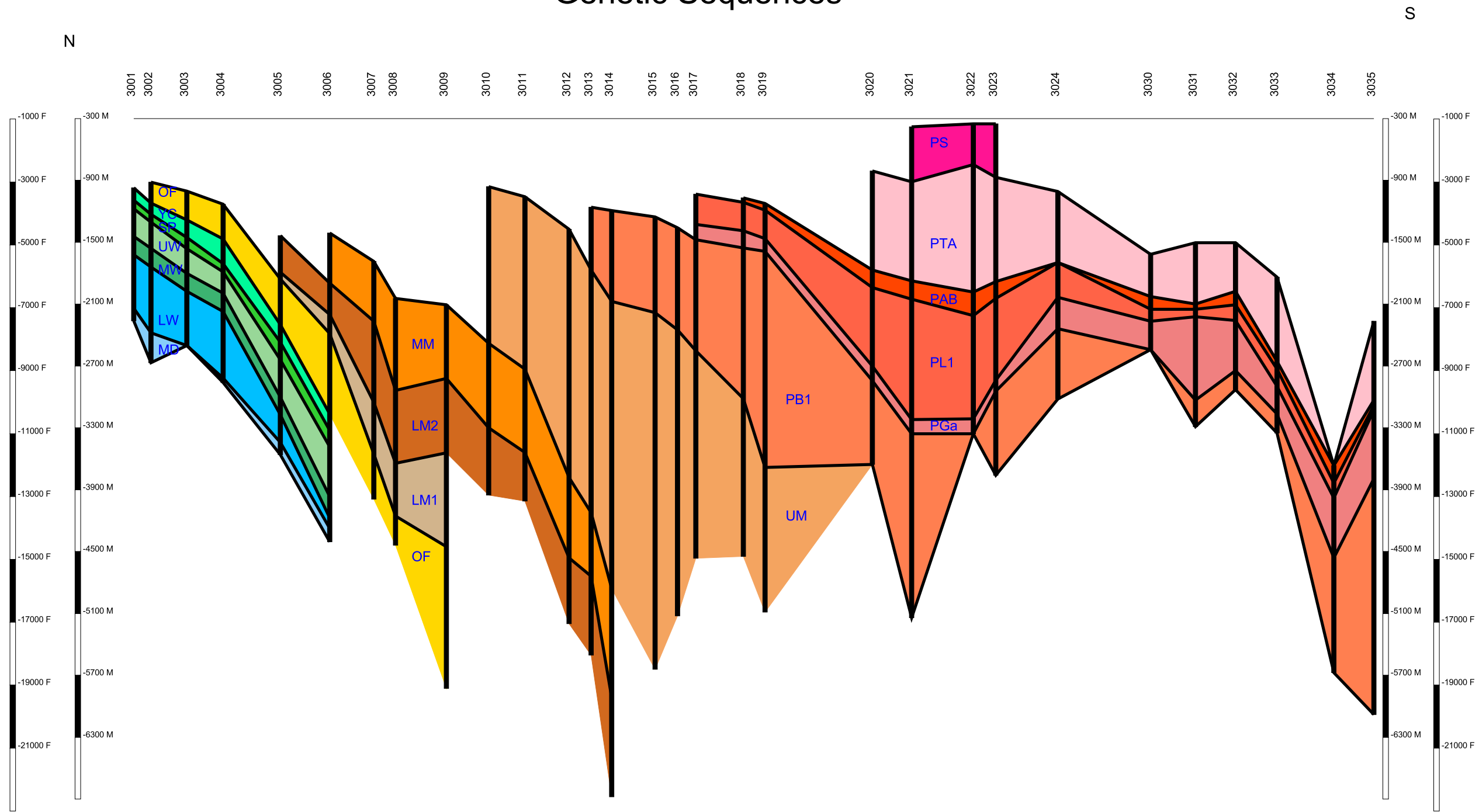
Central Louisiana Well Transect Architecture

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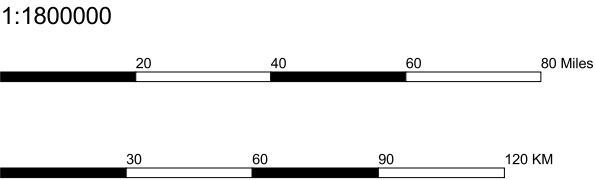
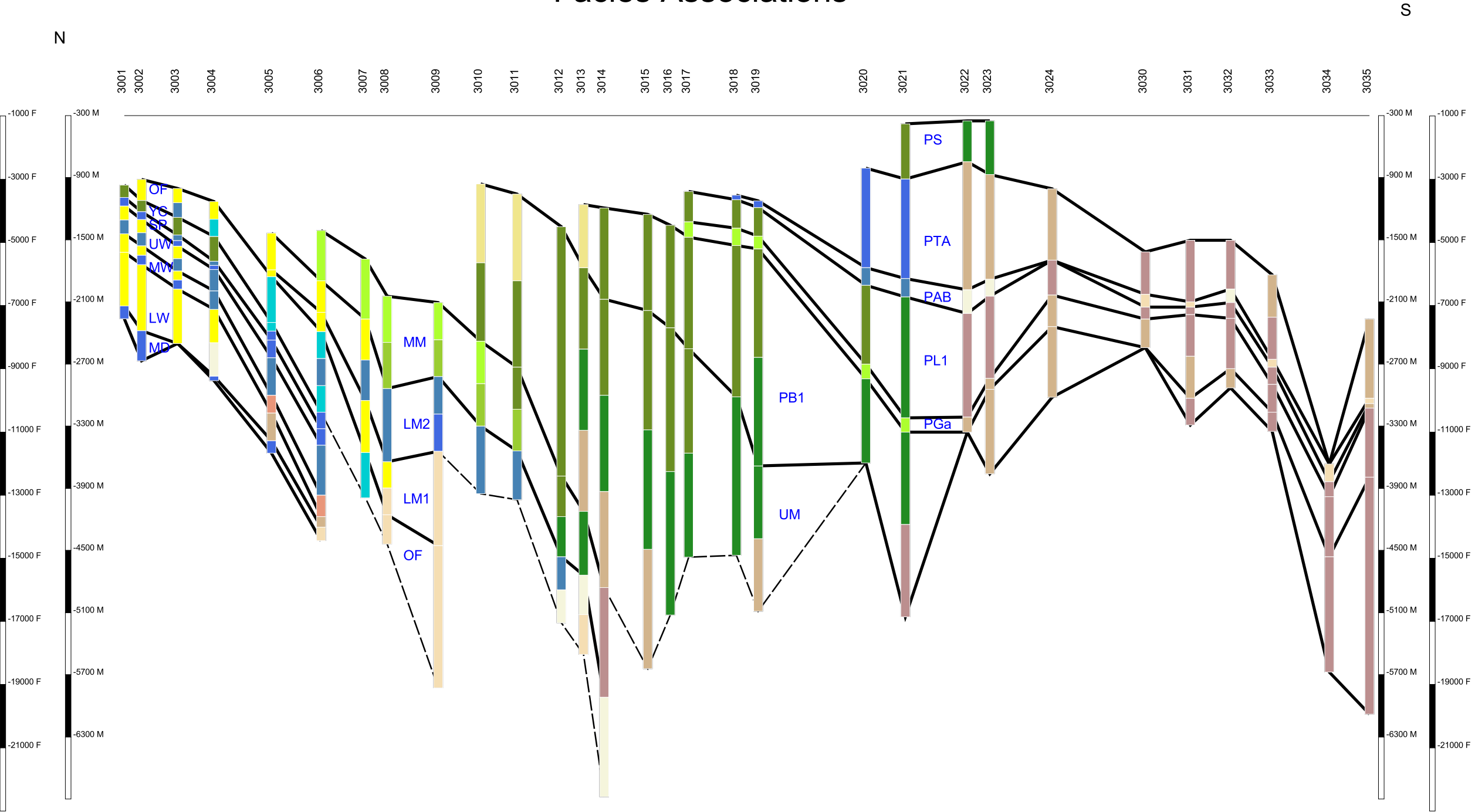
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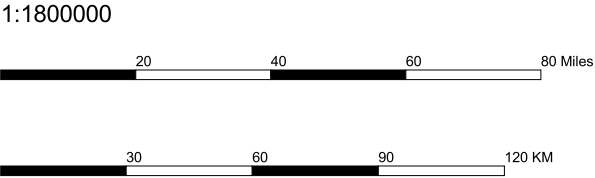
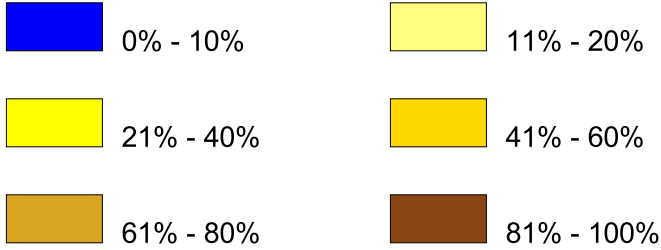
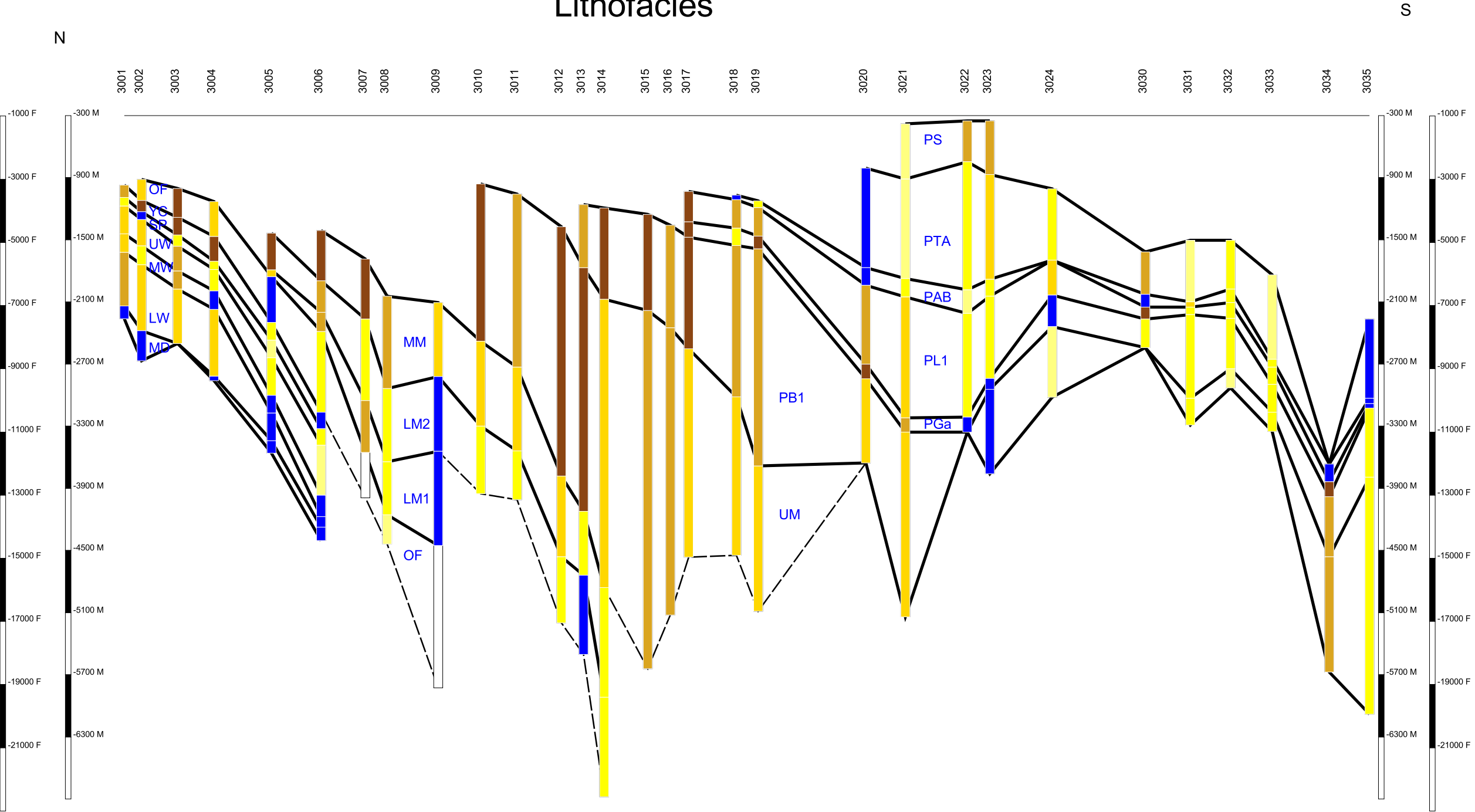
East Louisiana Well Transect Genetic Sequences

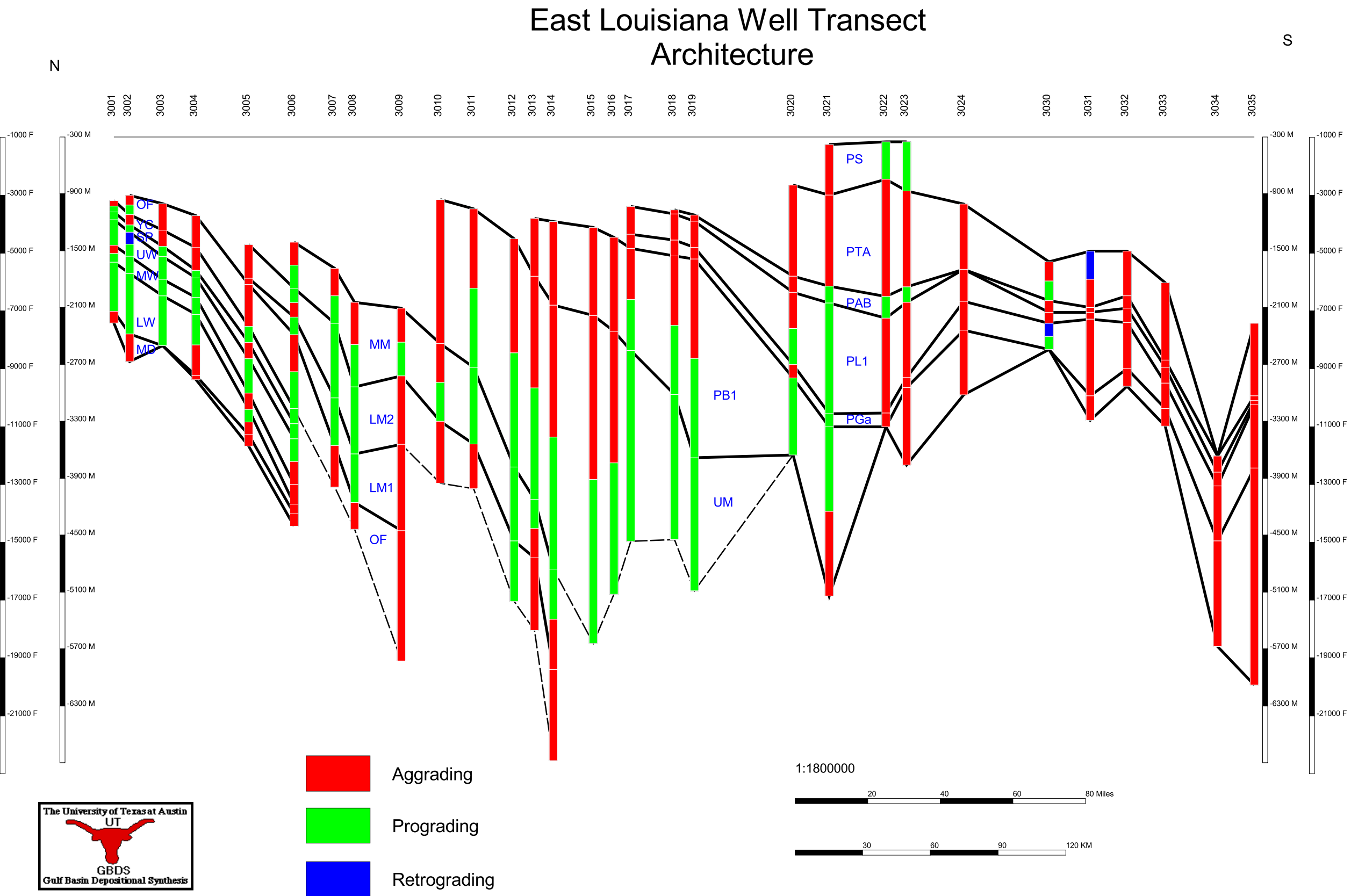


East Louisiana Well Transect Facies Associations

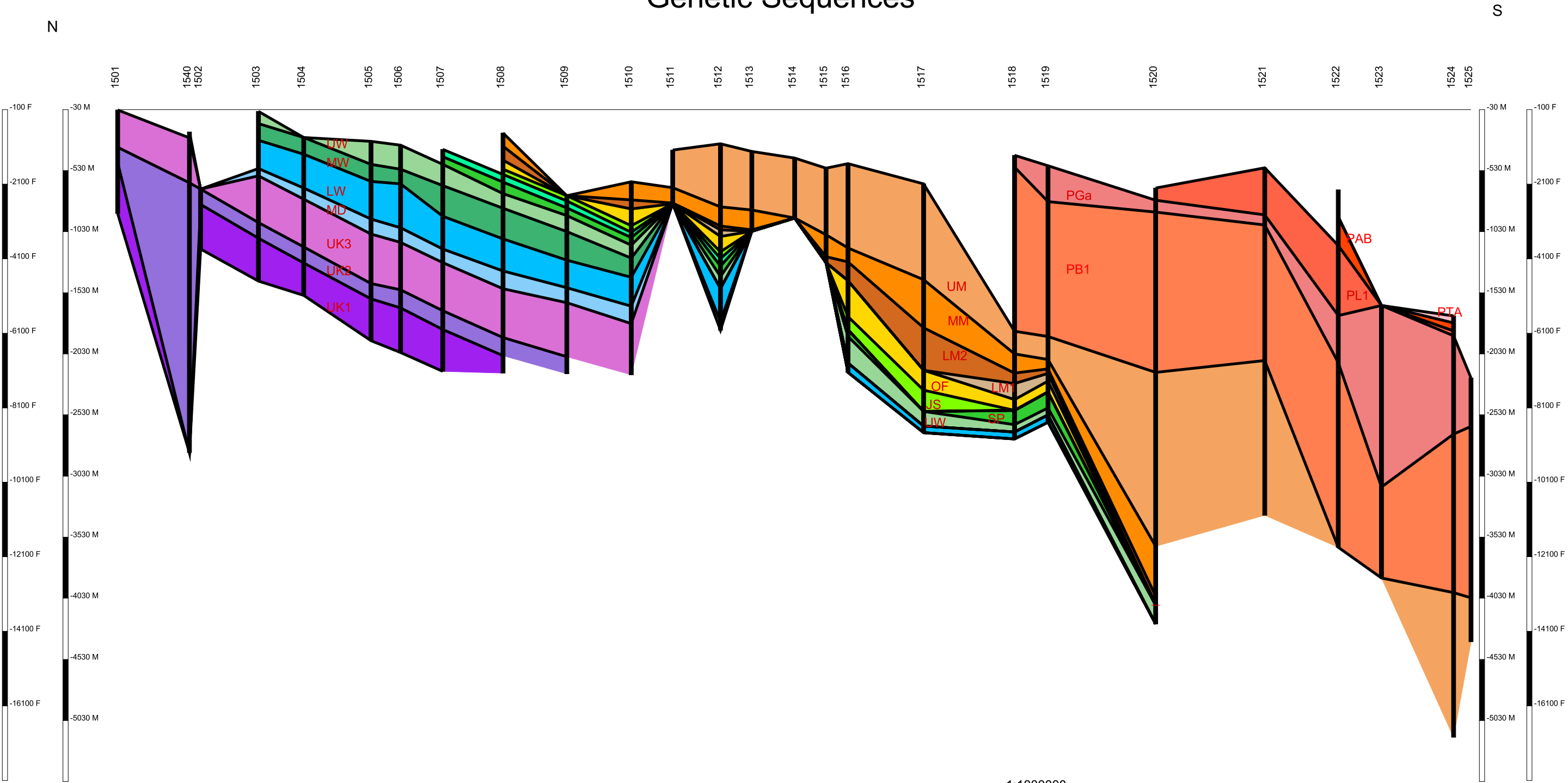


East Louisiana Well Transect Lithofacies

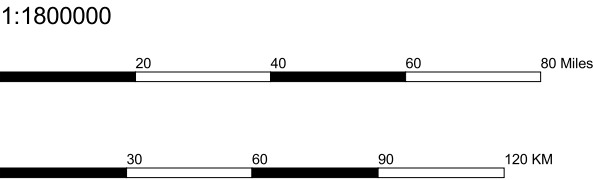
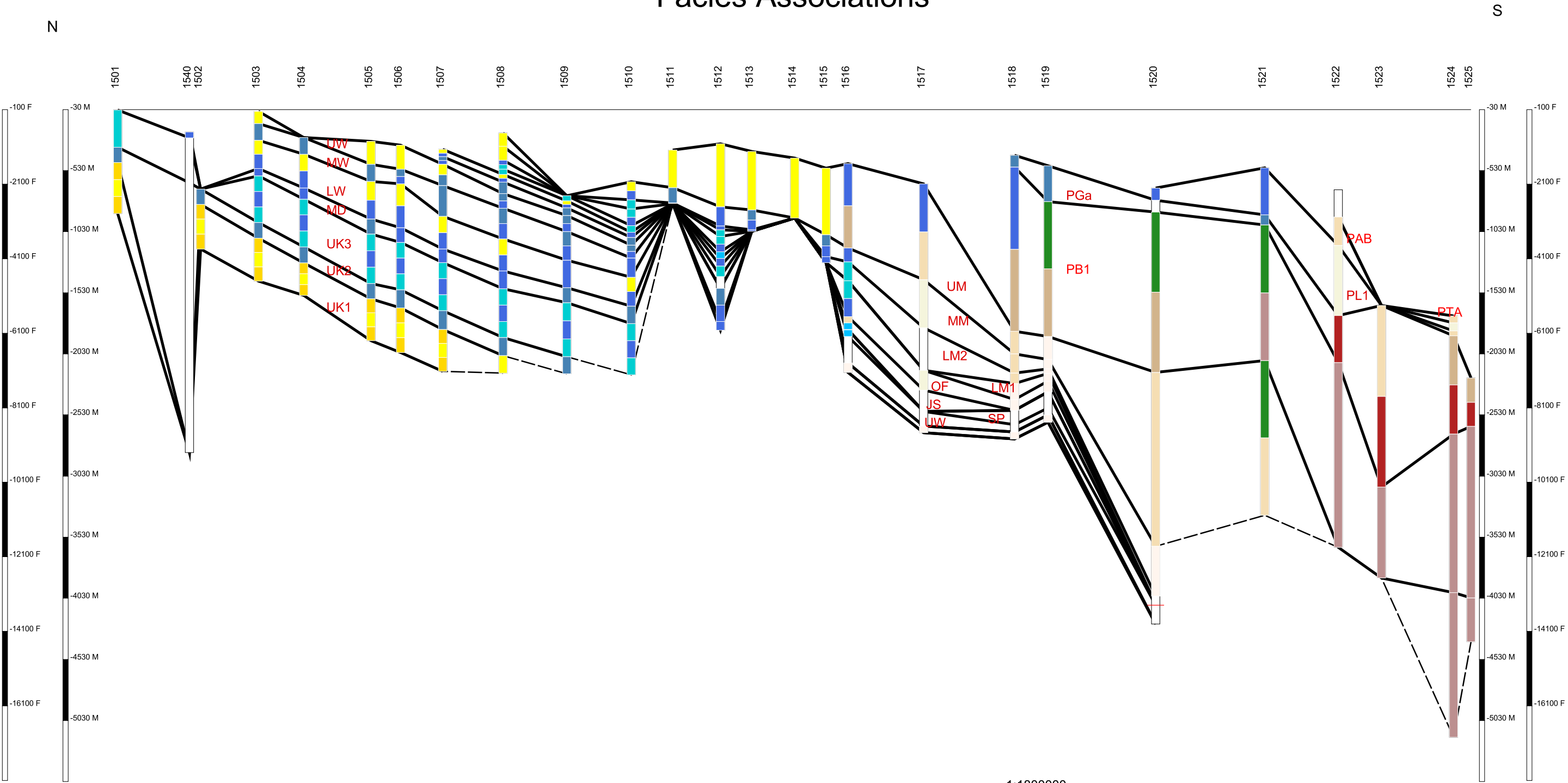




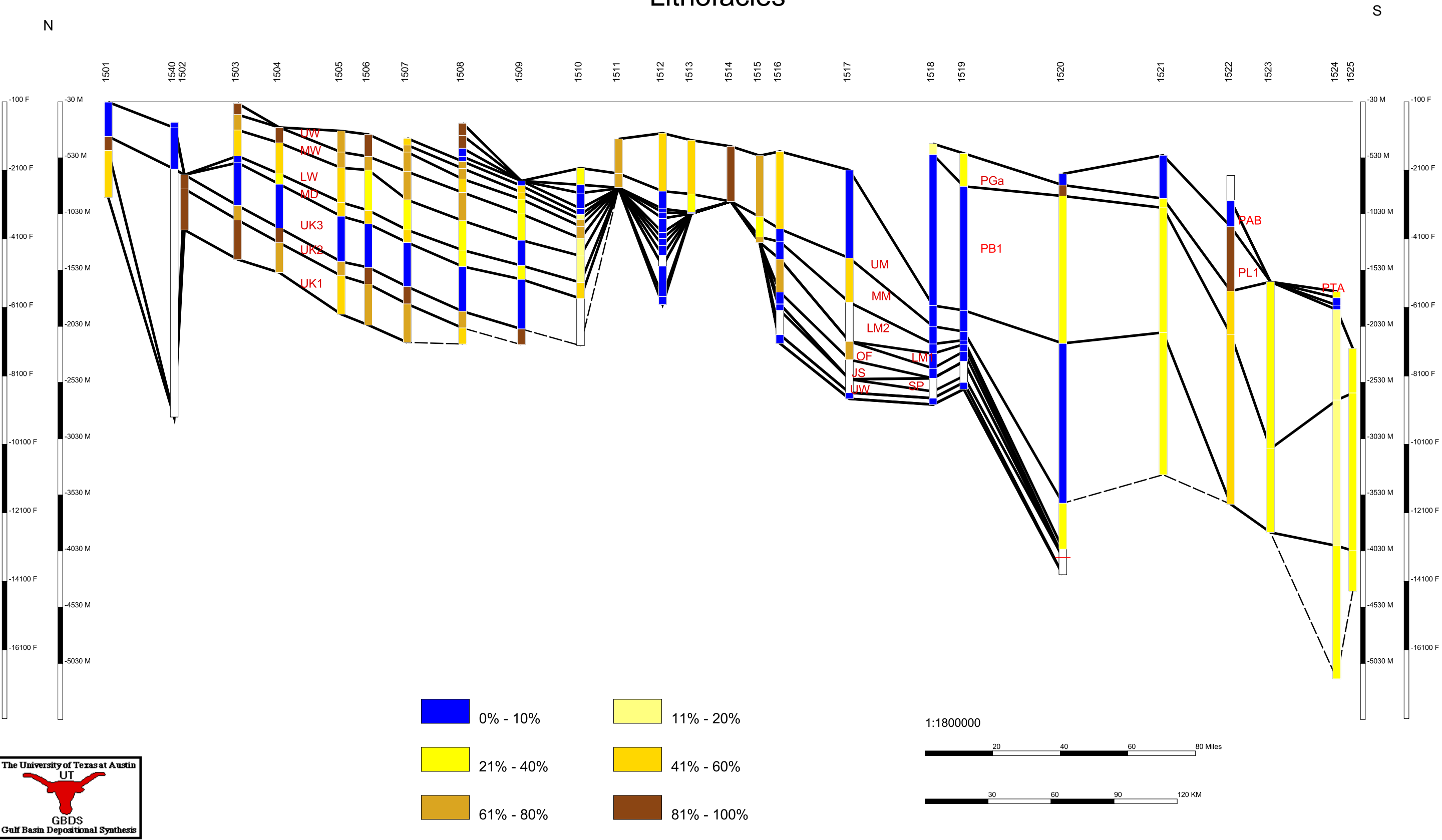
Alabama Well Transect Genetic Sequences



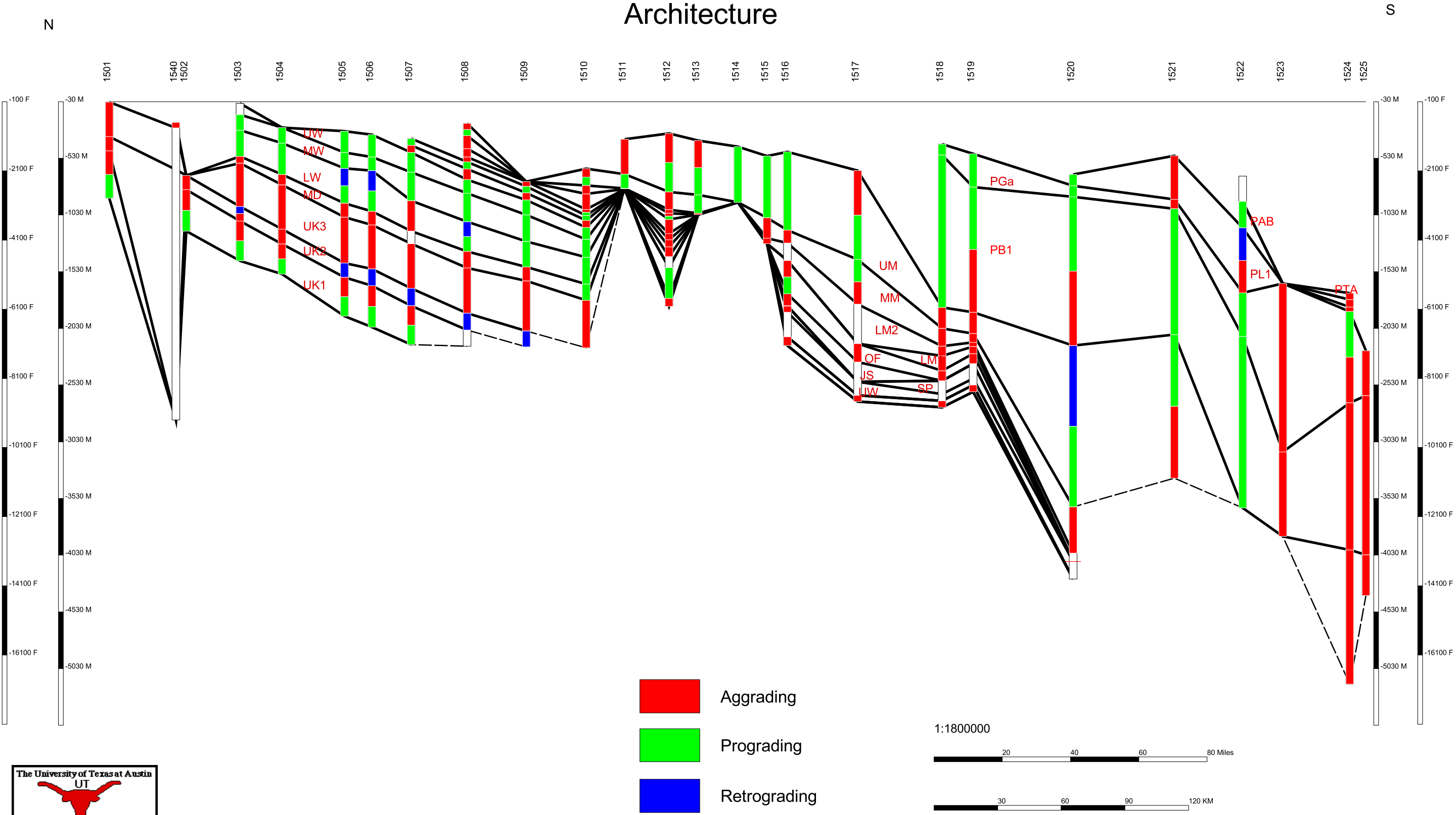
Alabama Well Transect Facies Associations



Alabama Well Transect Lithofacies



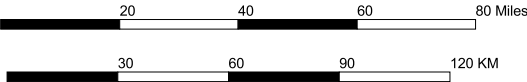
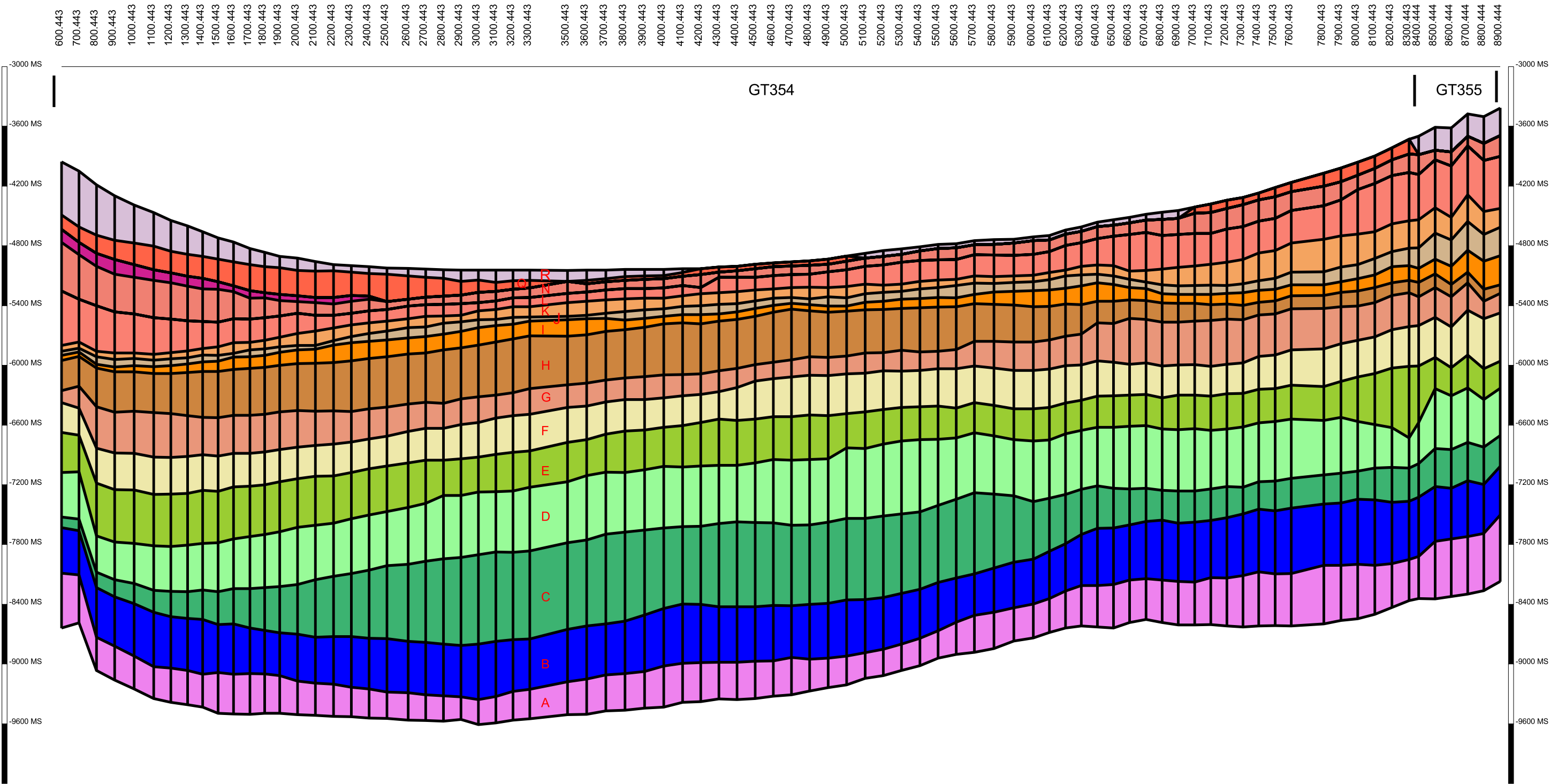
Alabama Well Transect Architecture



Western Gulf (Seismic) Sequences

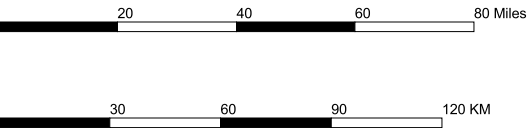
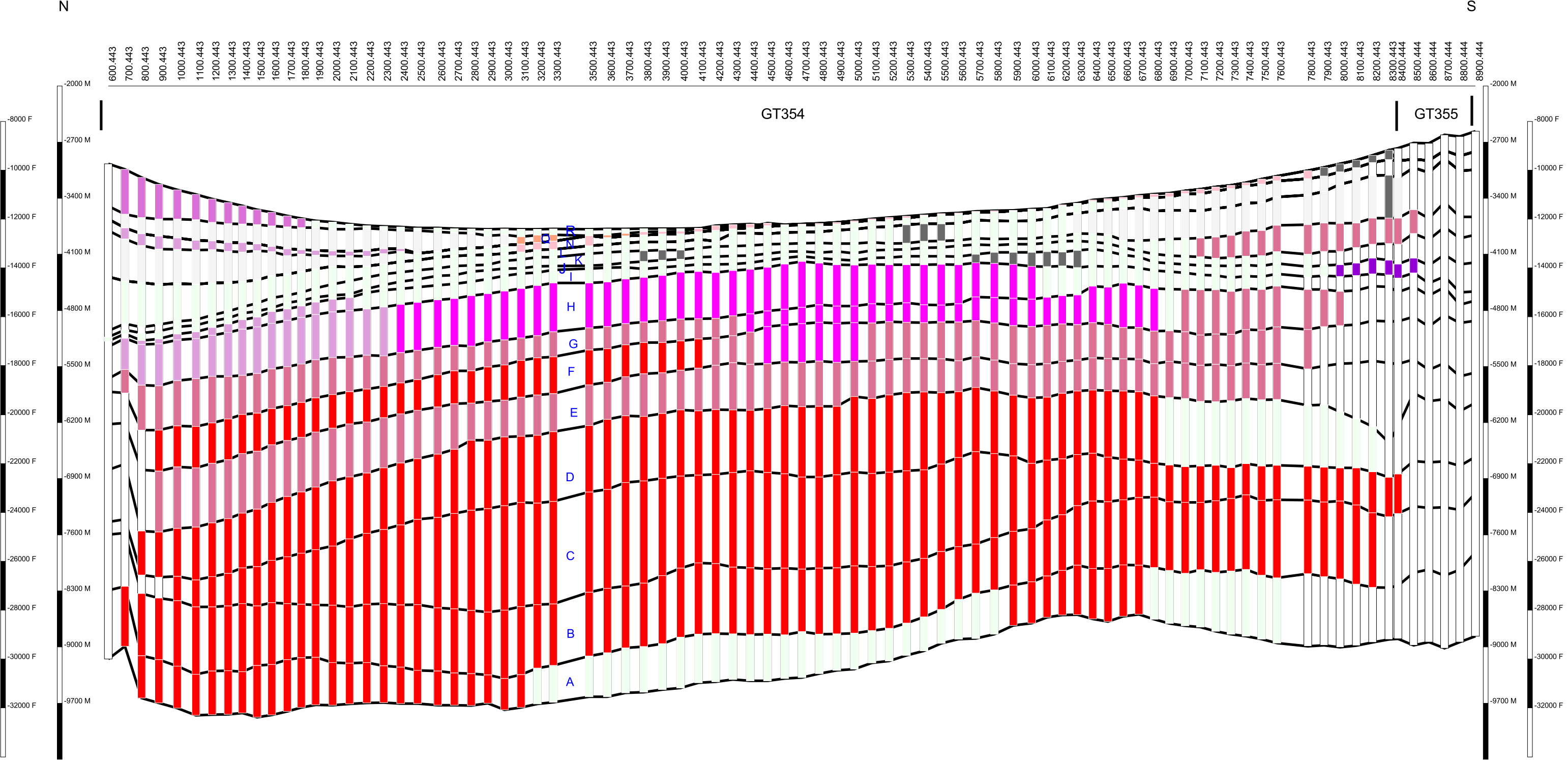
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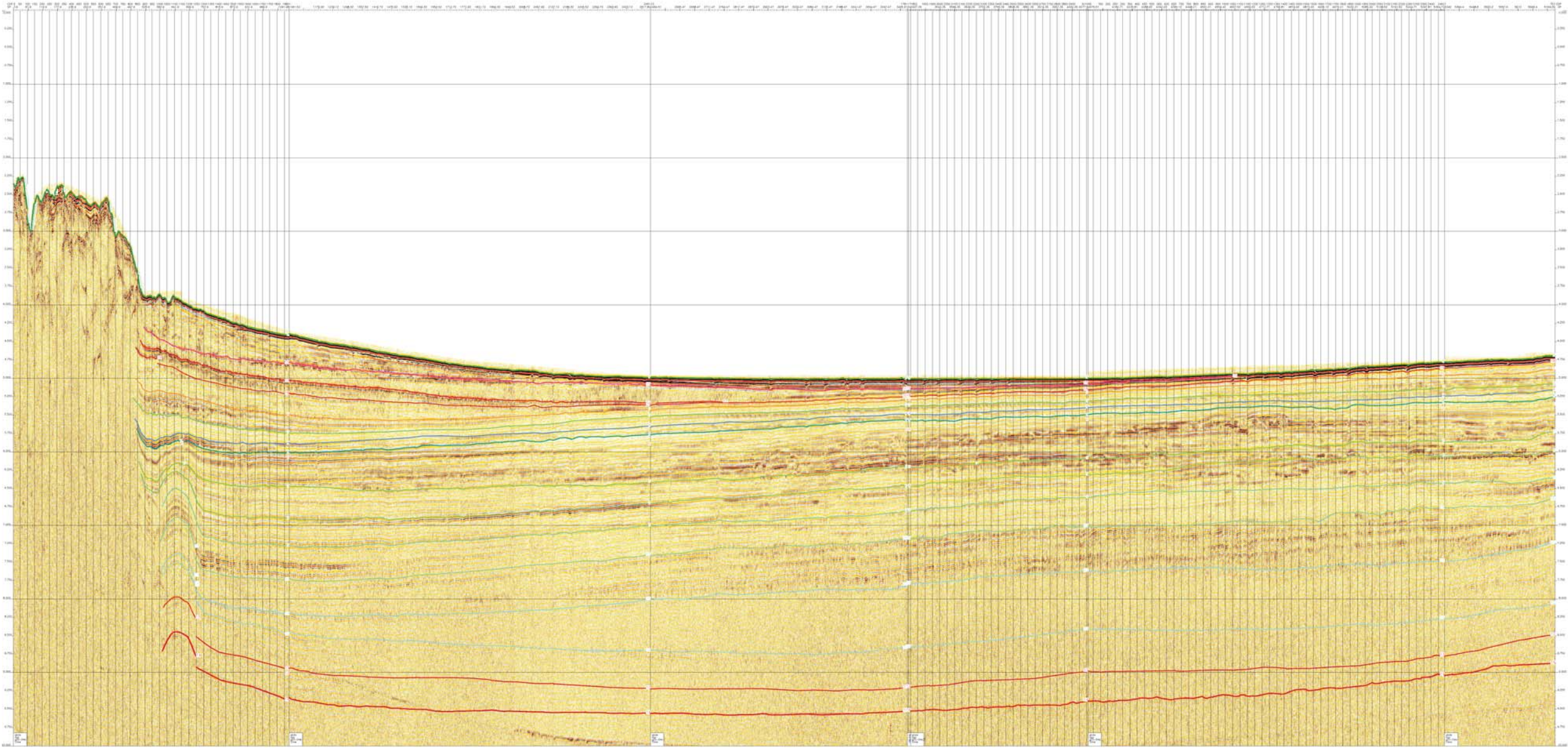


WGseq.eps

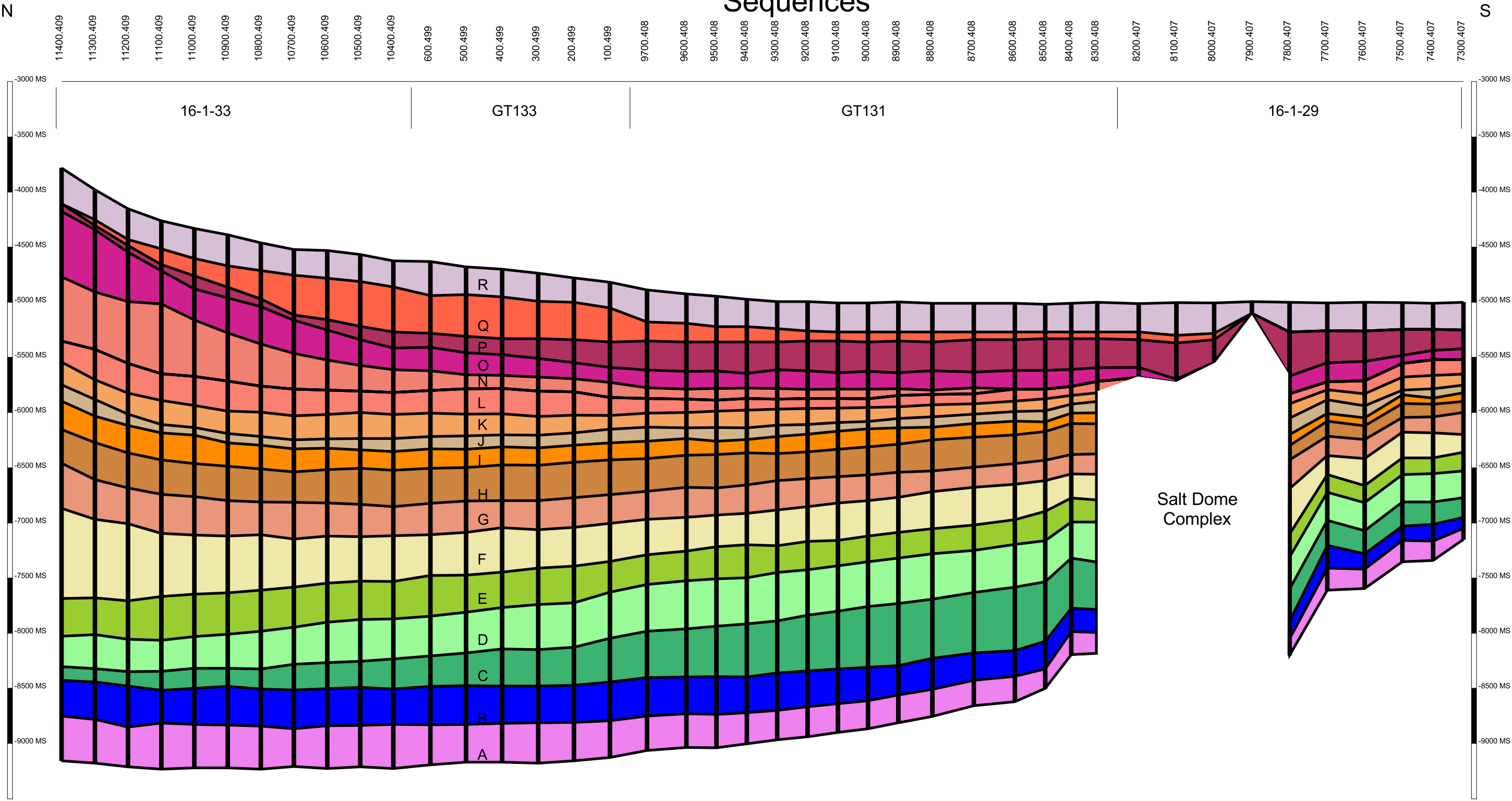
Western Gulf (Seismic) Facies Associations



GBDS Phase 1
Western Gulf
GT3-54a-f, GT3-55a



West Central Gulf (Seismic) Sequences

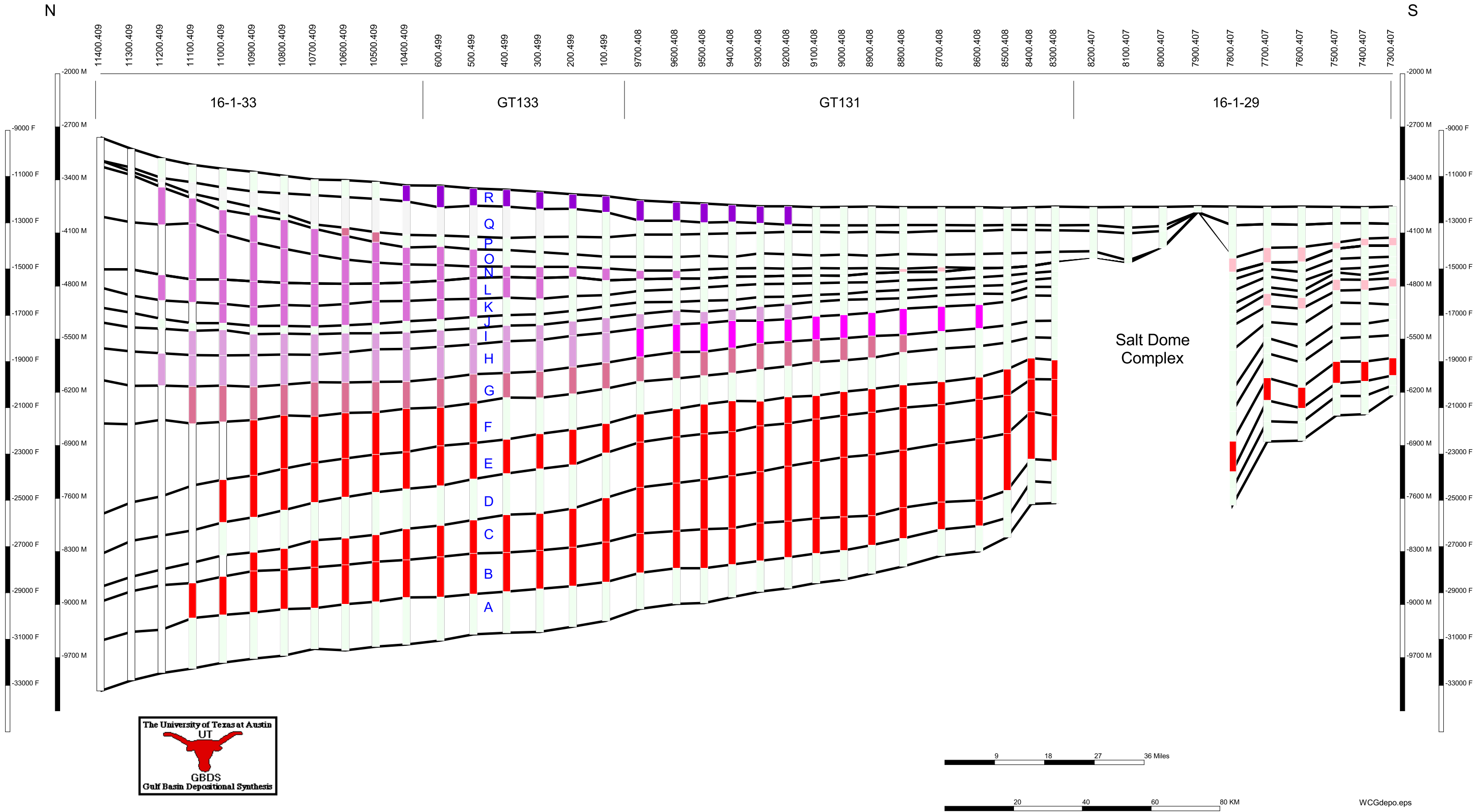


9 18 27 36 Miles

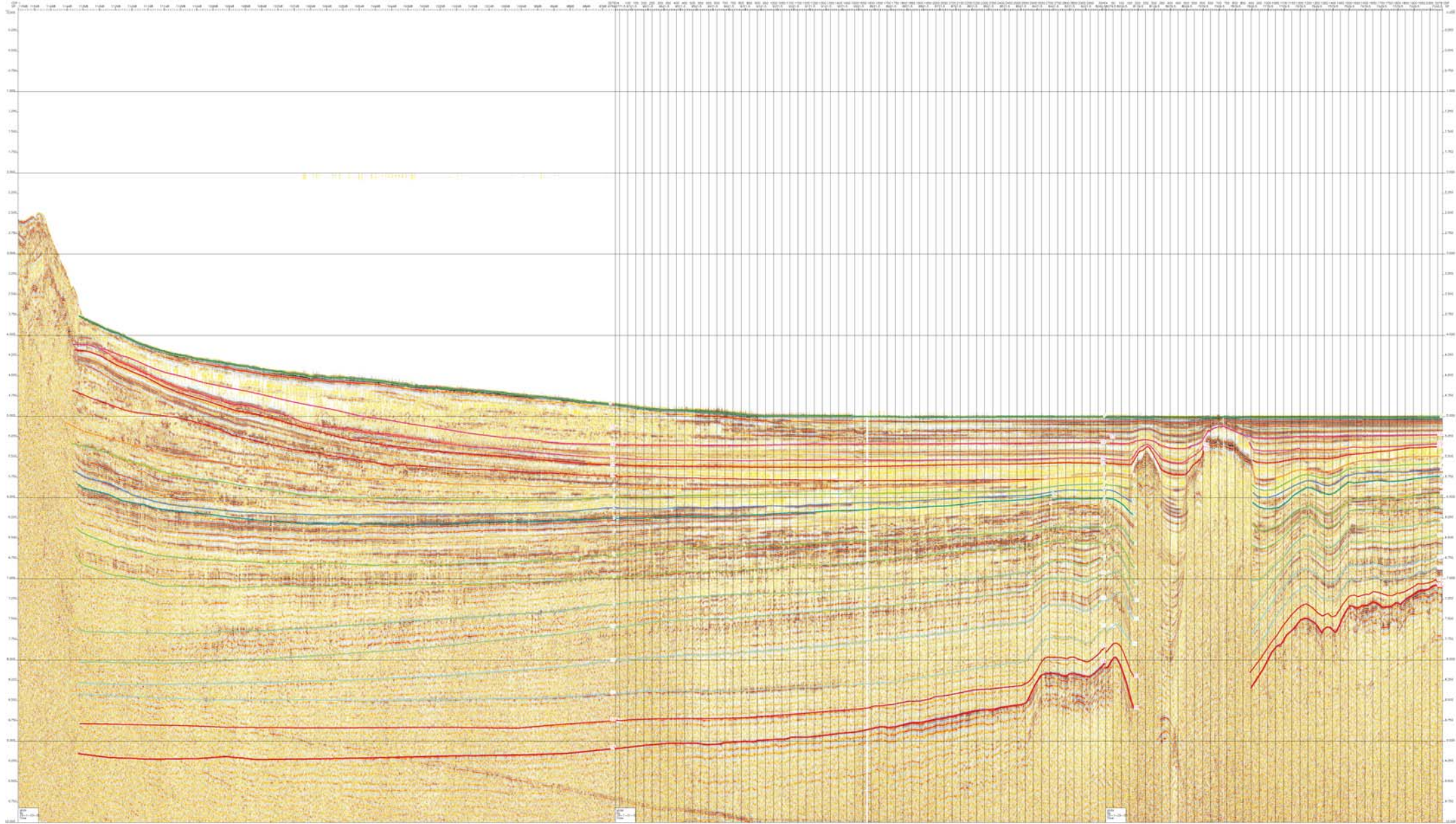
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WCGseq.eps

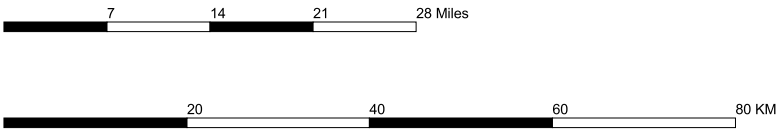
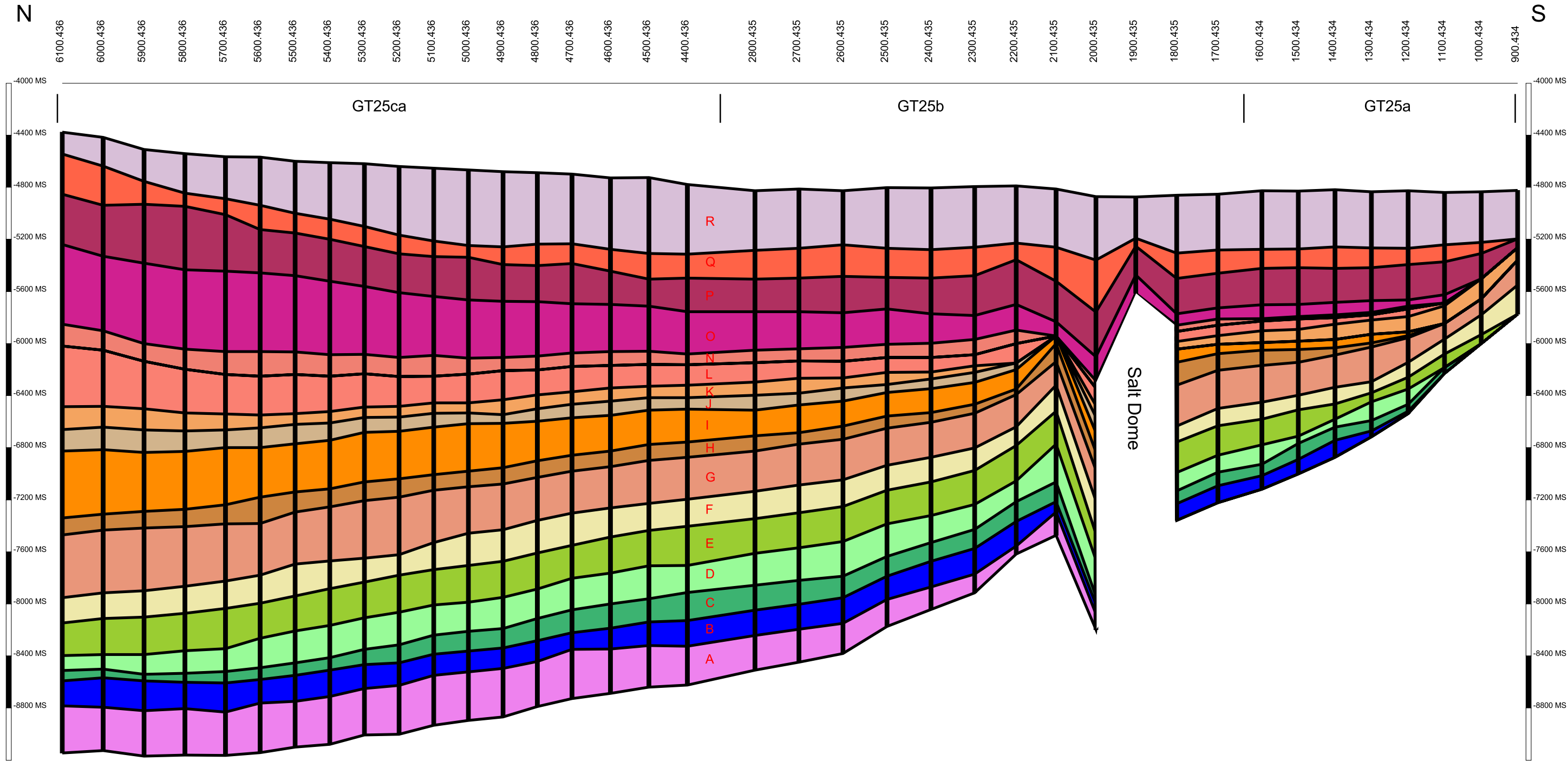
West Central Gulf (Seismic) Facies Associations



GBDS Phase 1
West Central Gulf
16-1-29 - 16-1-35



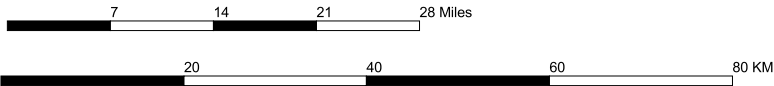
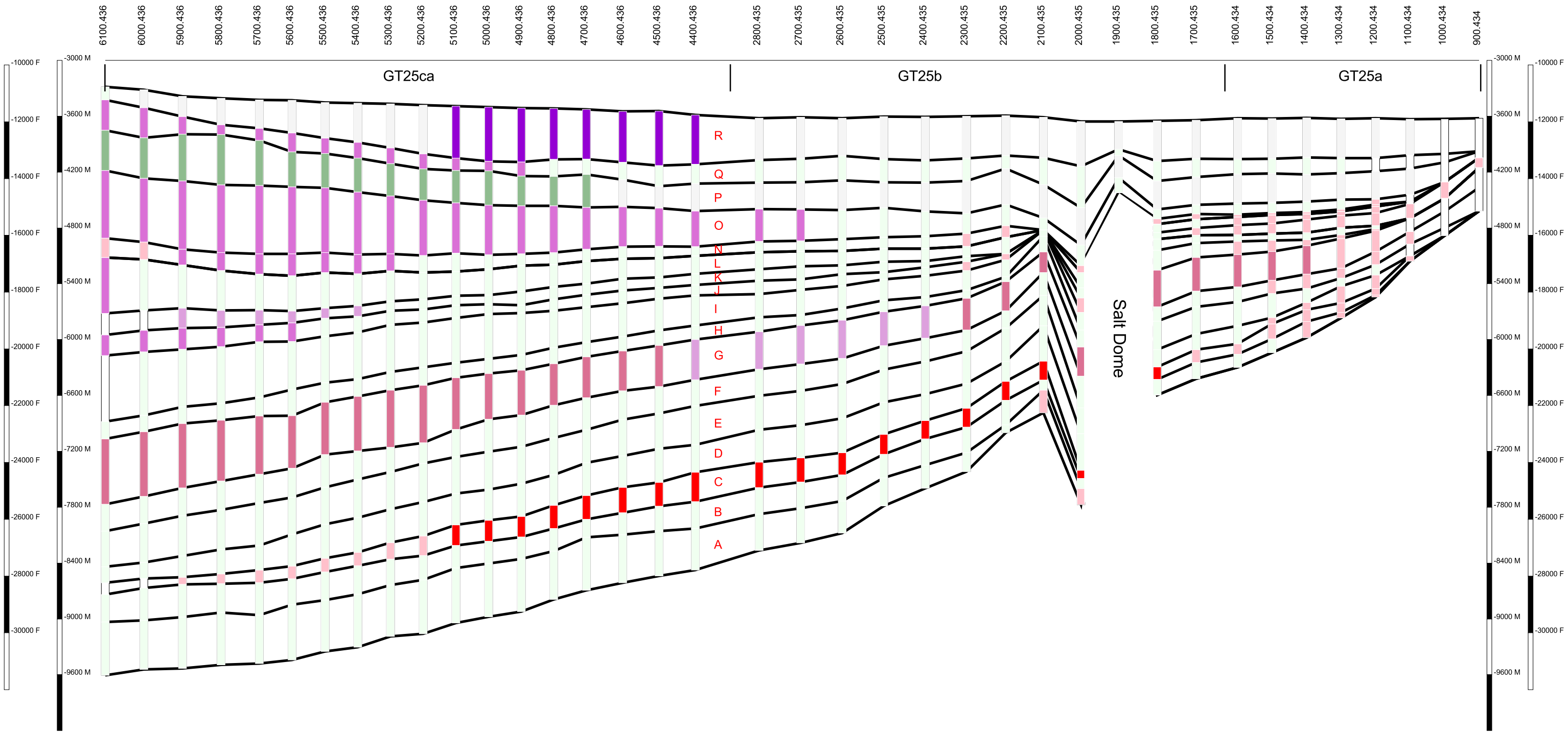
East Central Gulf (Seismic) Sequences



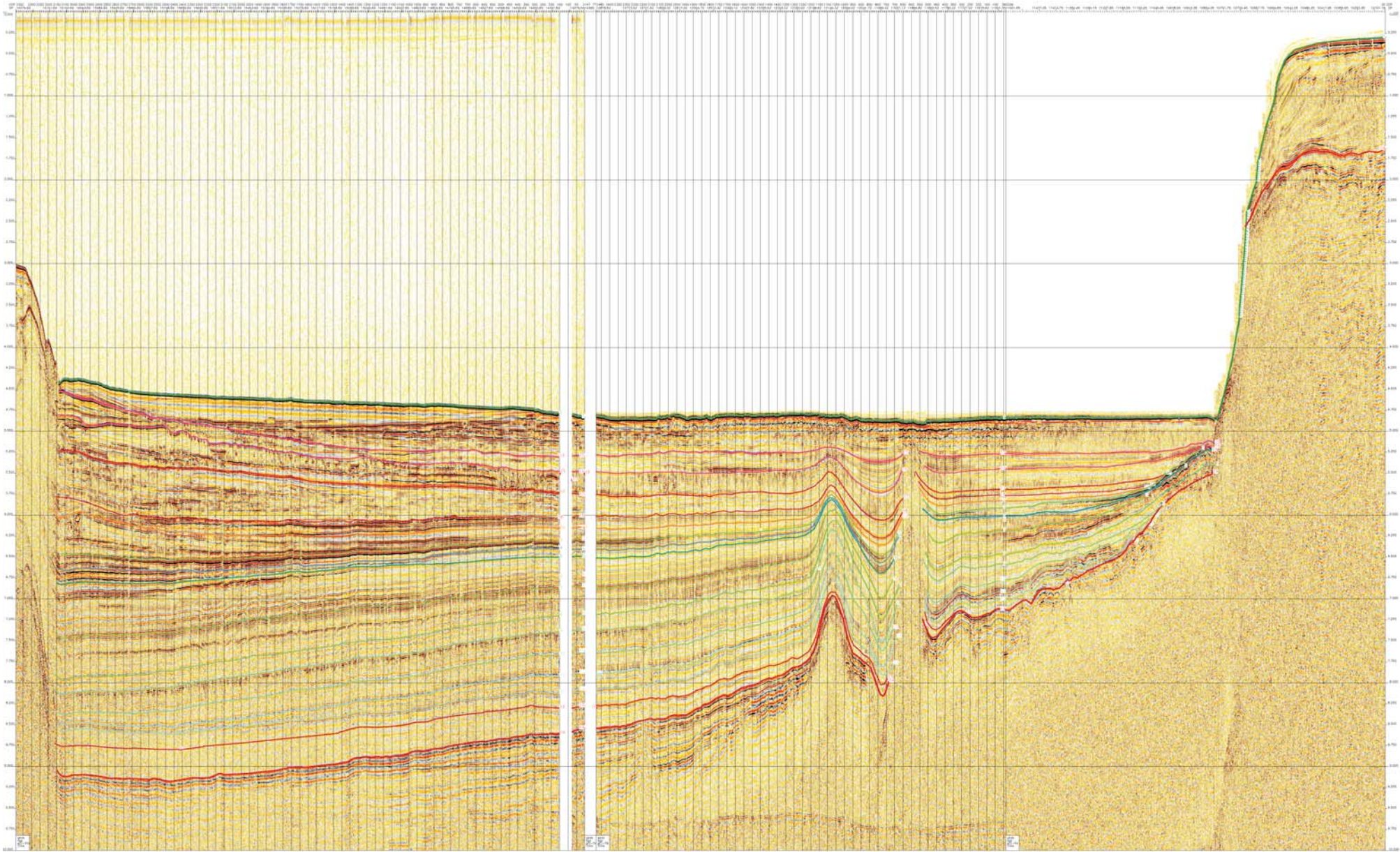
East Central Gulf (Seismic) Facies Associations

N

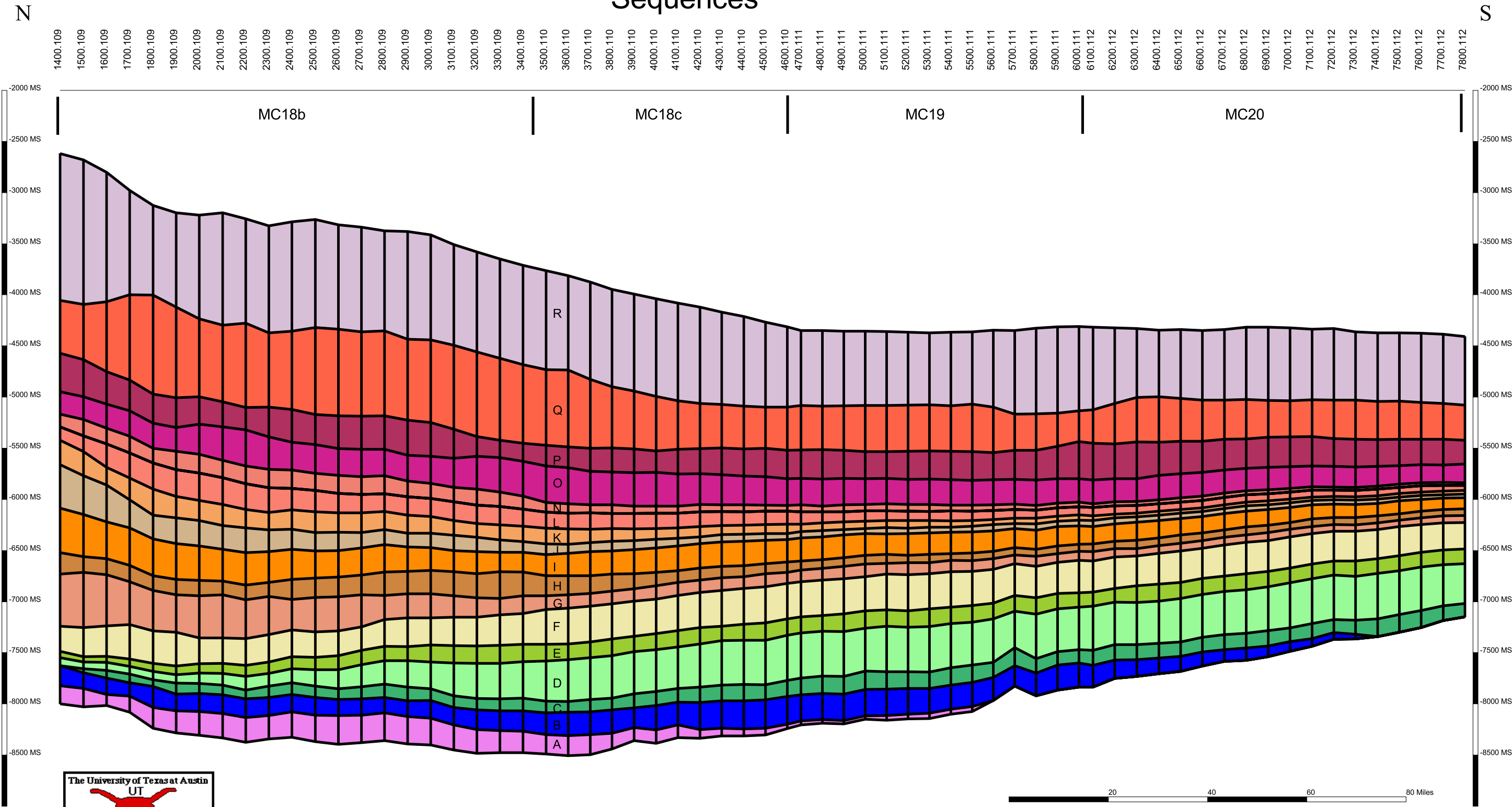
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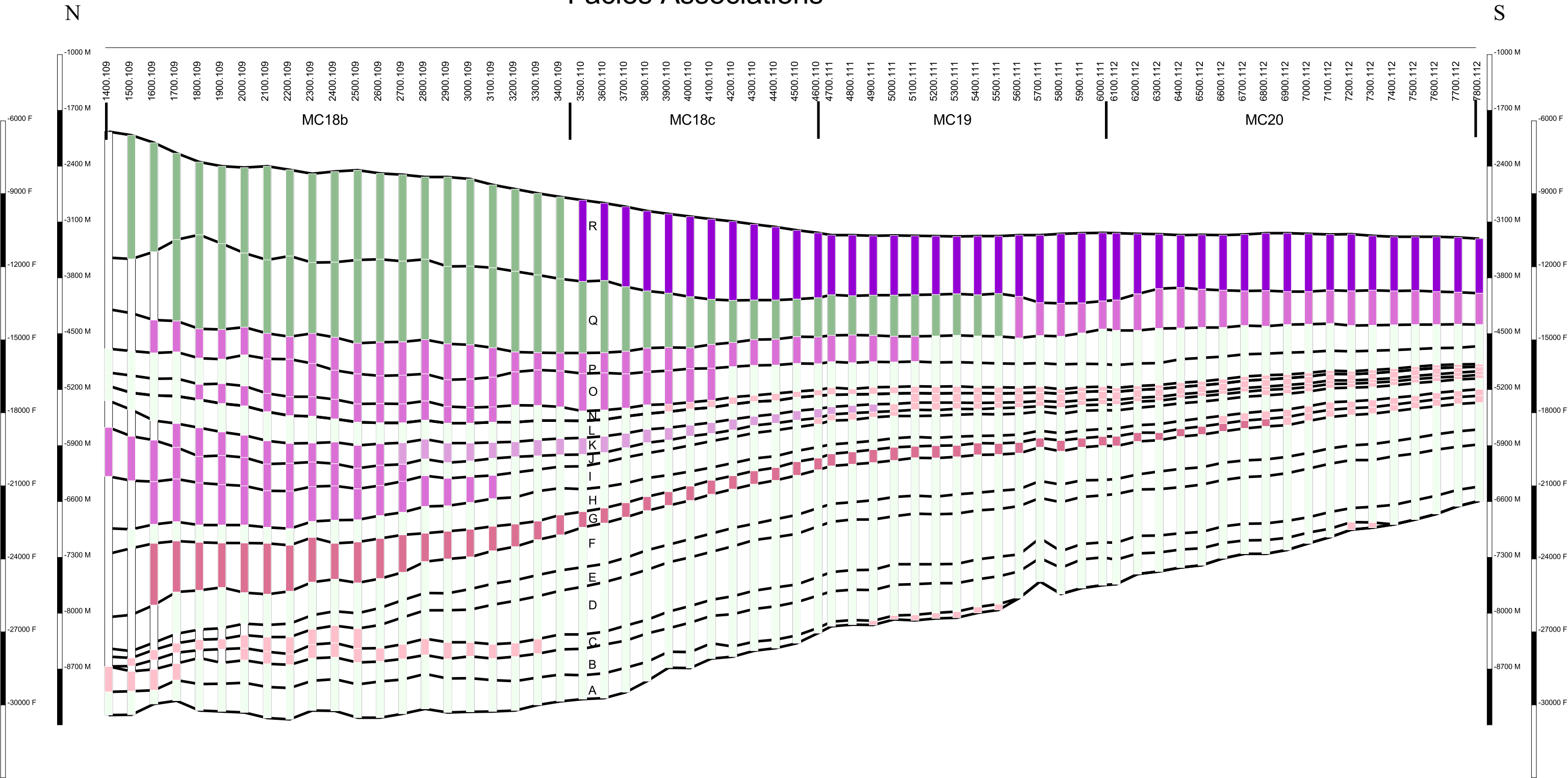
GBDS Phase 1
East Central Gulf
GT2-5a,b,c



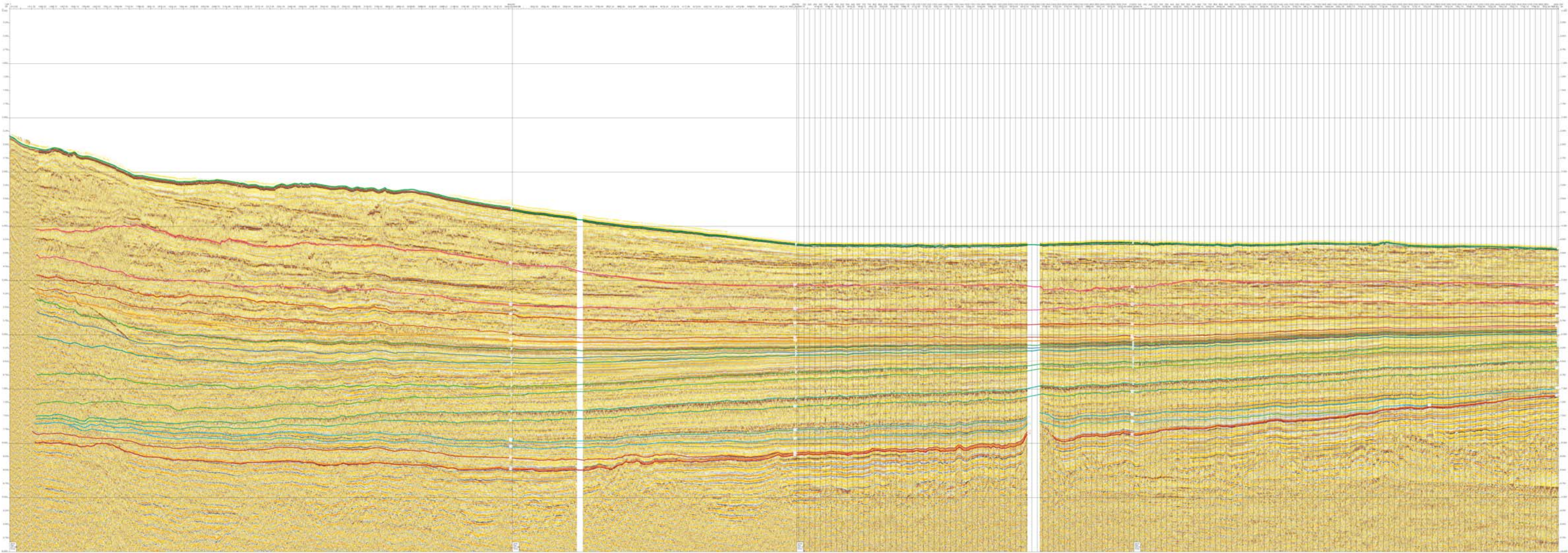
West Mississippi Fan (Seismic) Sequences



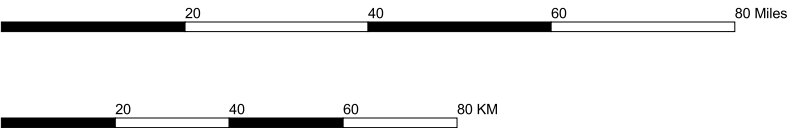
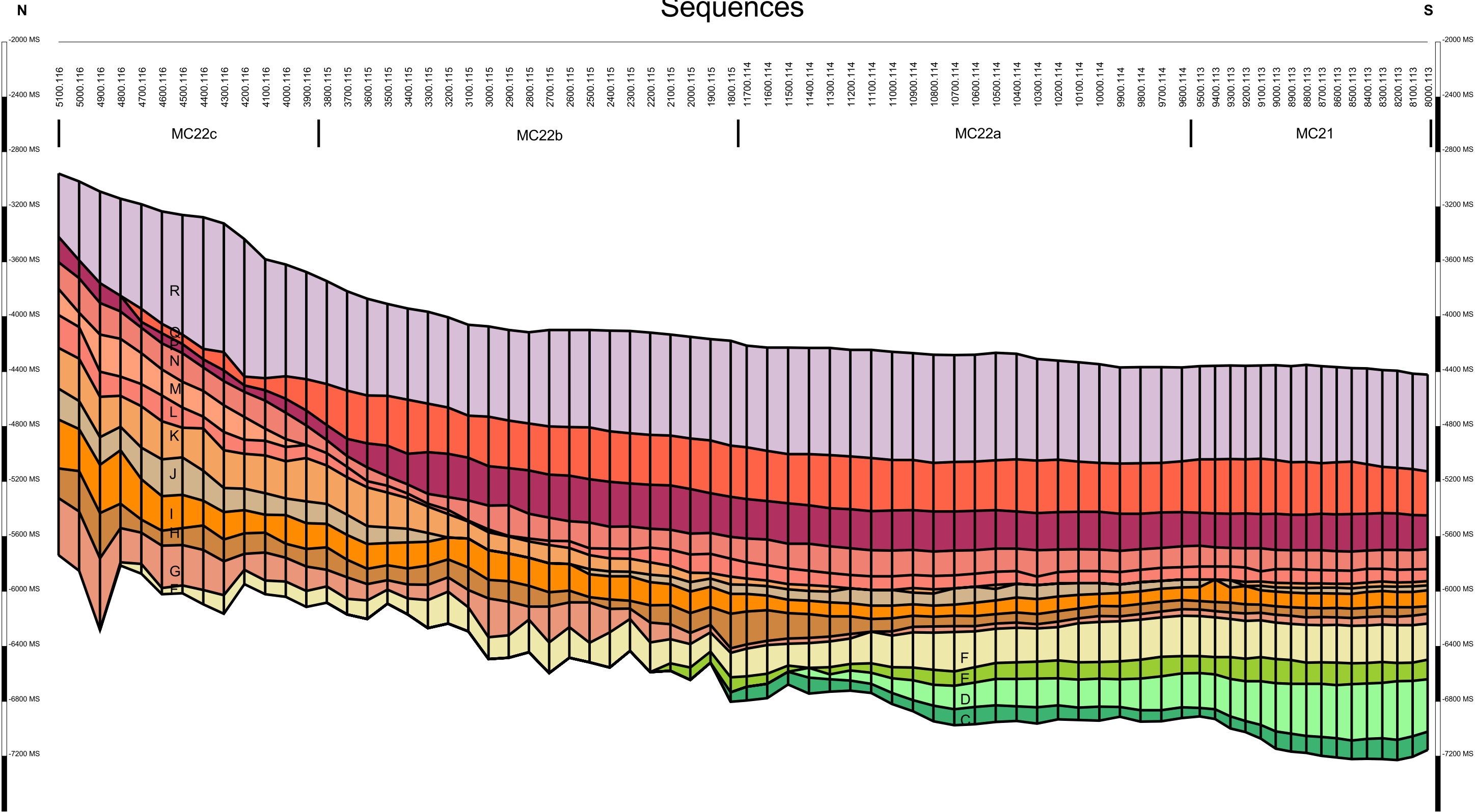
West Mississippi Fan (Seismic) Facies Associations



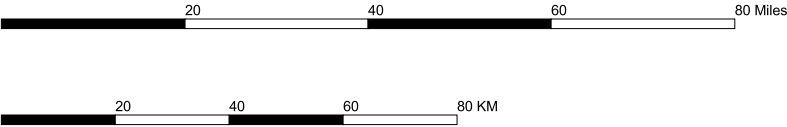
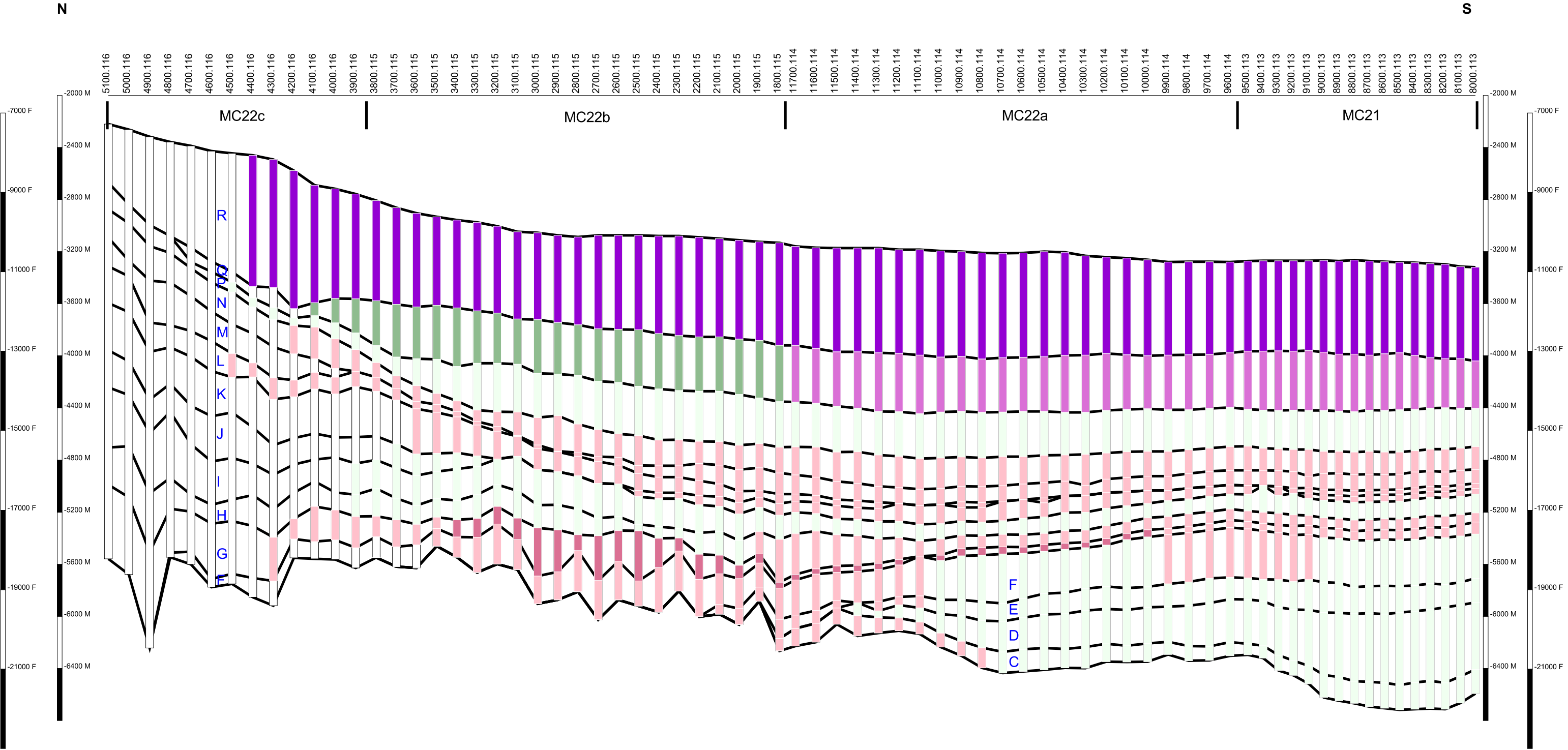
GBDS Phase I
West Mississippi Fan



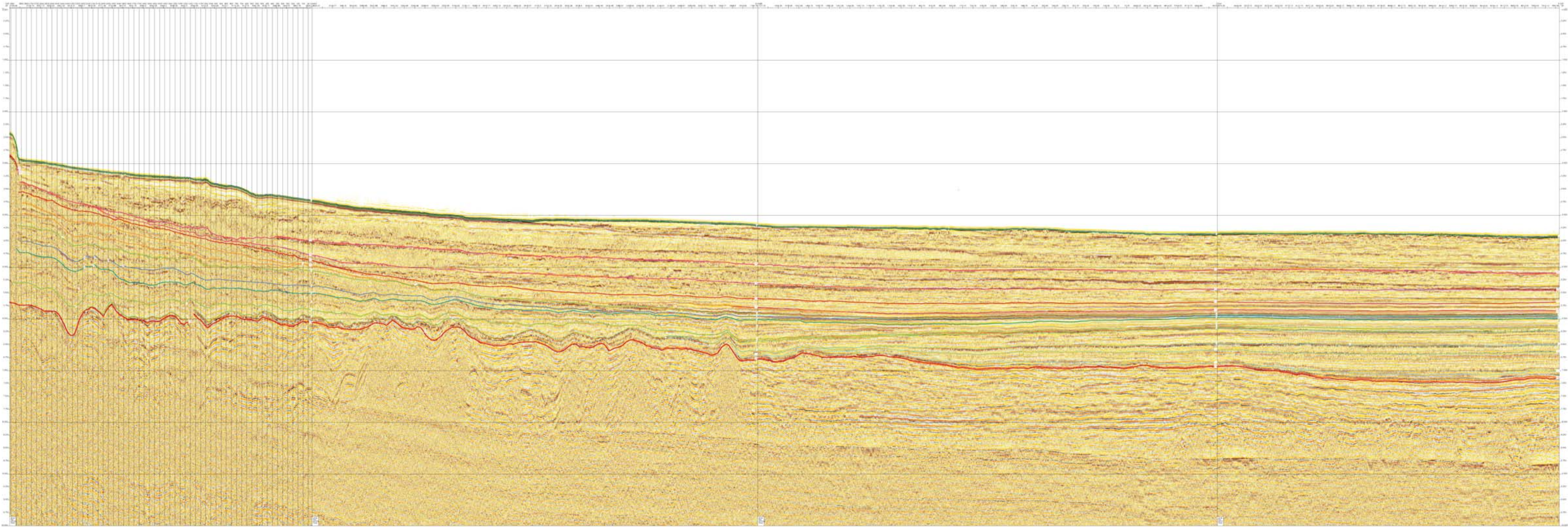
East Mississippi Fan (Seismic) Sequences



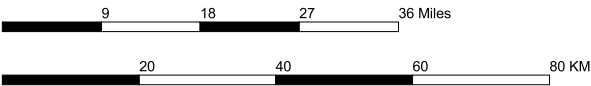
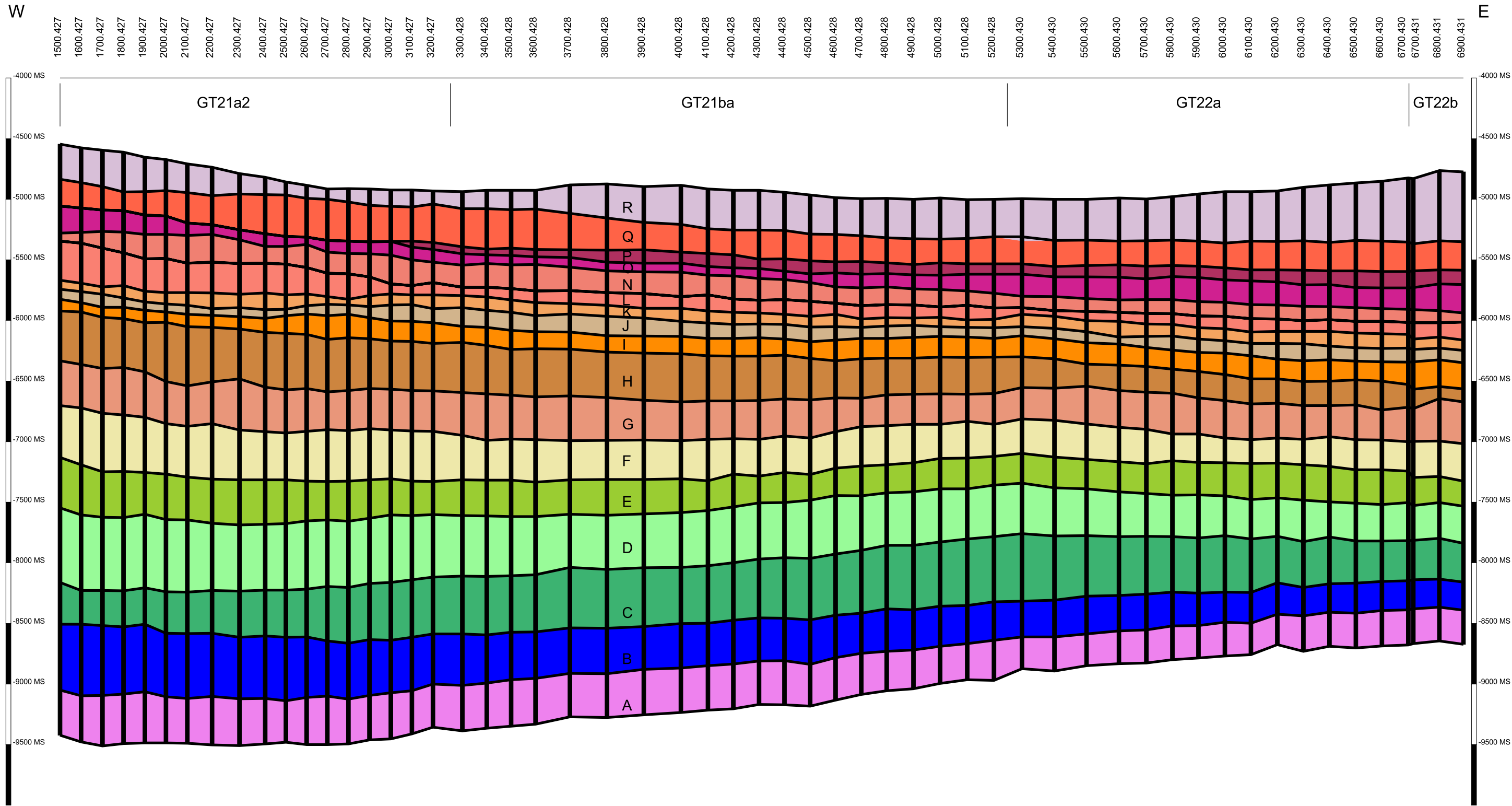
East Mississippi Fan (Seismic) Facies Associations



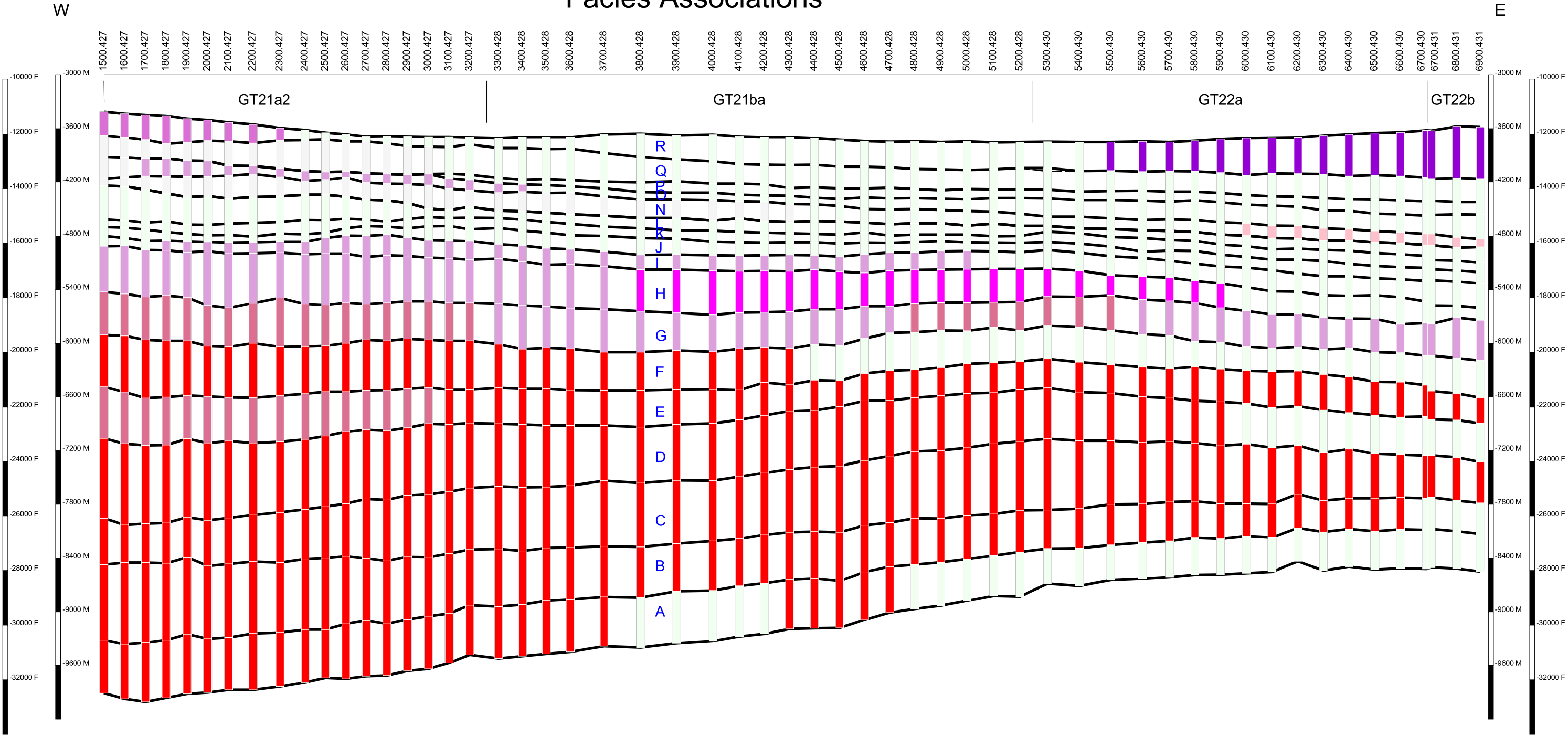
GBDS Phase 1
East Mississippi Fan
Mc21 - Mc22



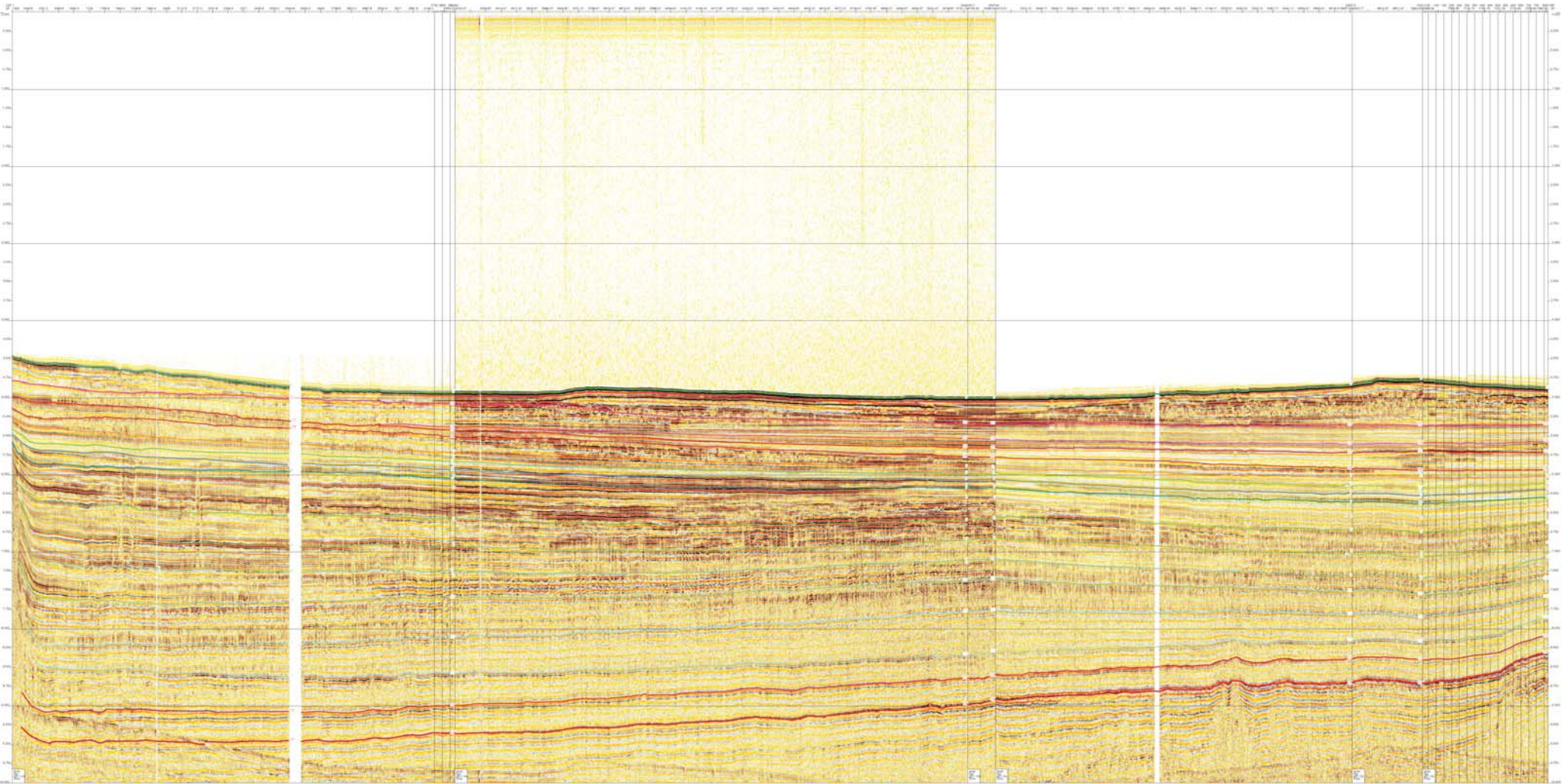
North Deep Basin (West) (Seismic) Sequences



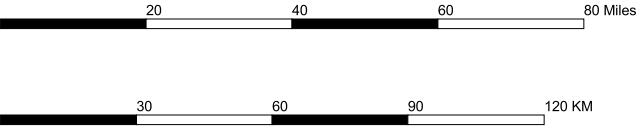
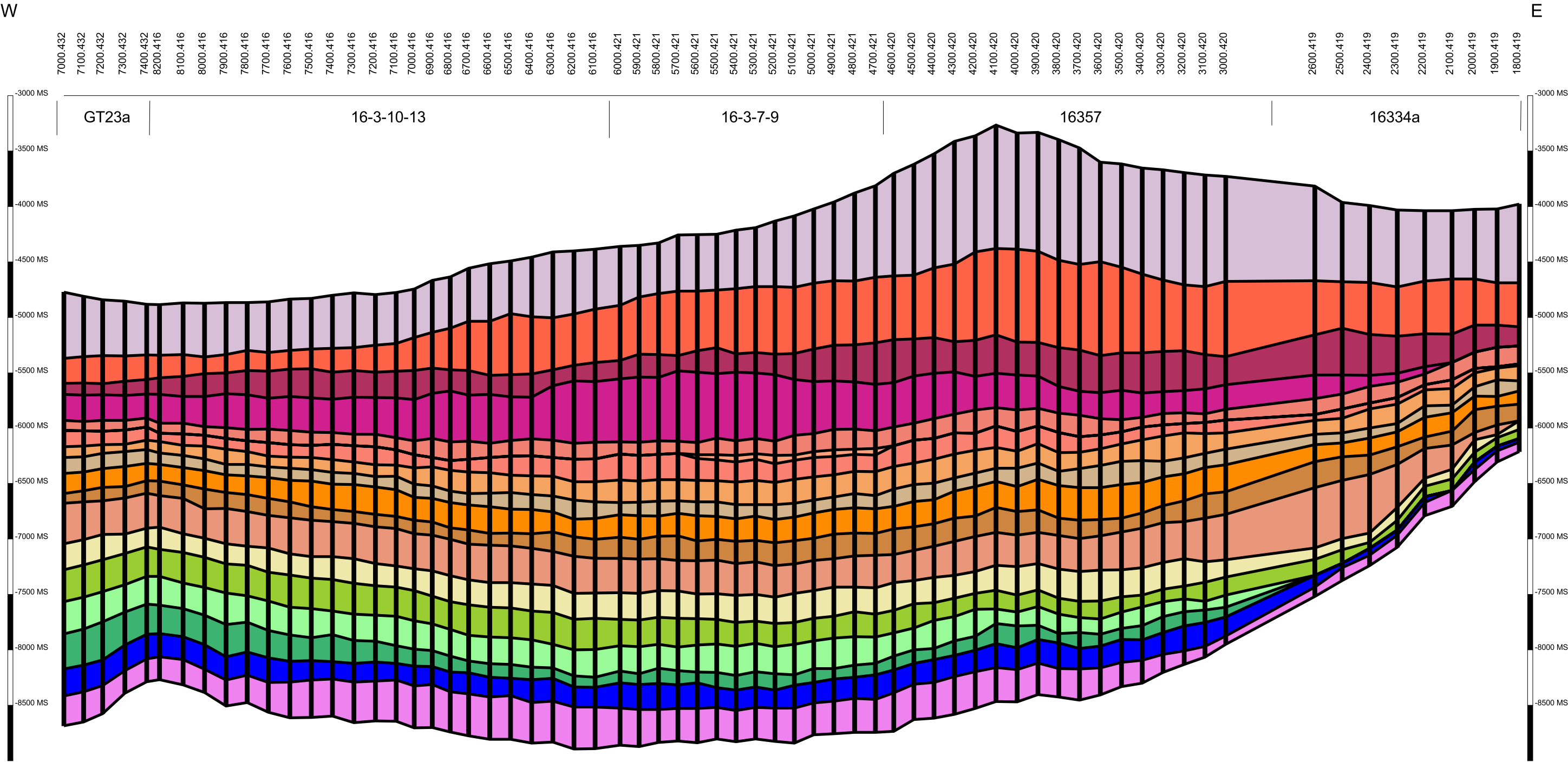
North Deep Basin (West) (Seismic) Facies Associations



GBDS Phase 1
North Deep Basin West
GT2-1 - GT2-3

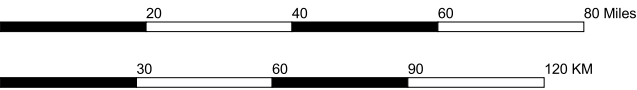
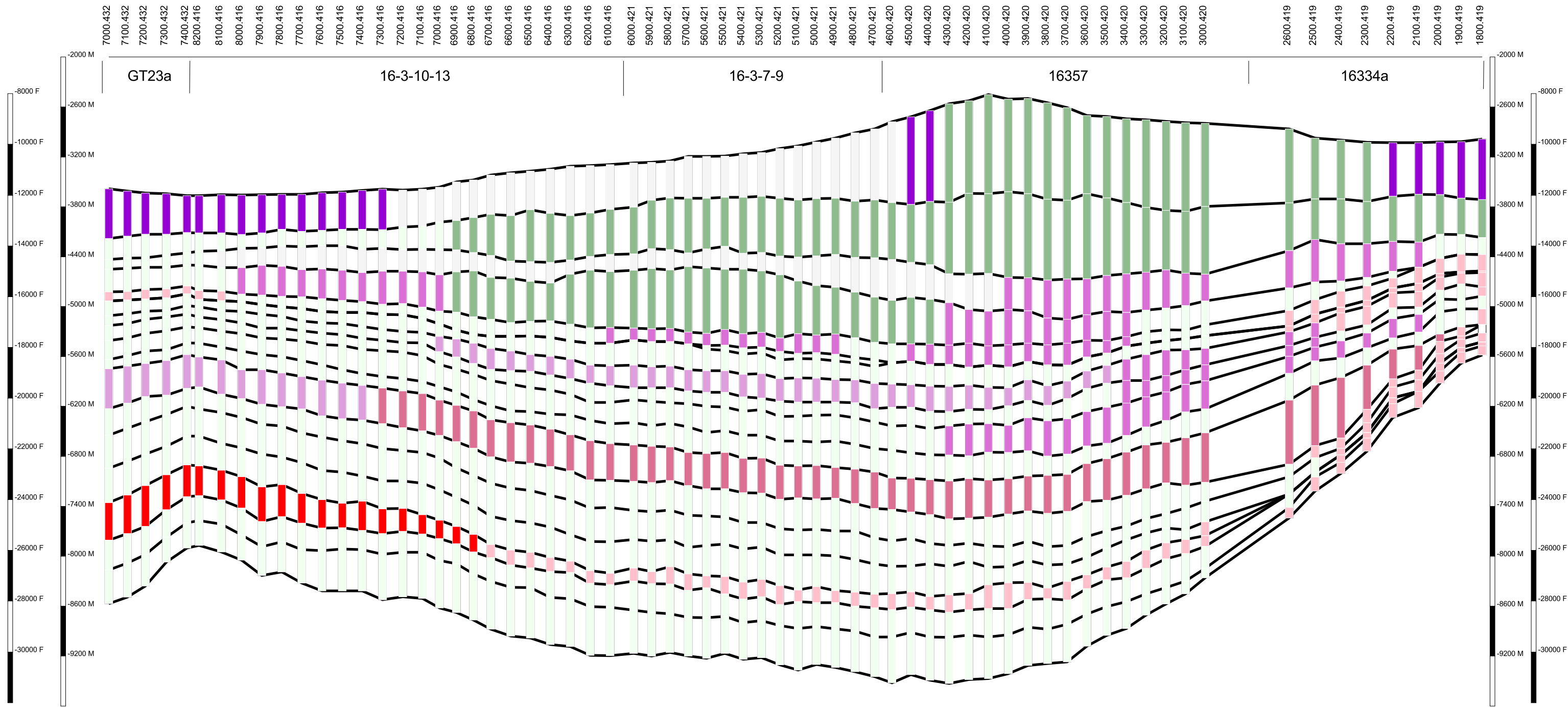


North Deep Basin (East) (Seismic) Sequences

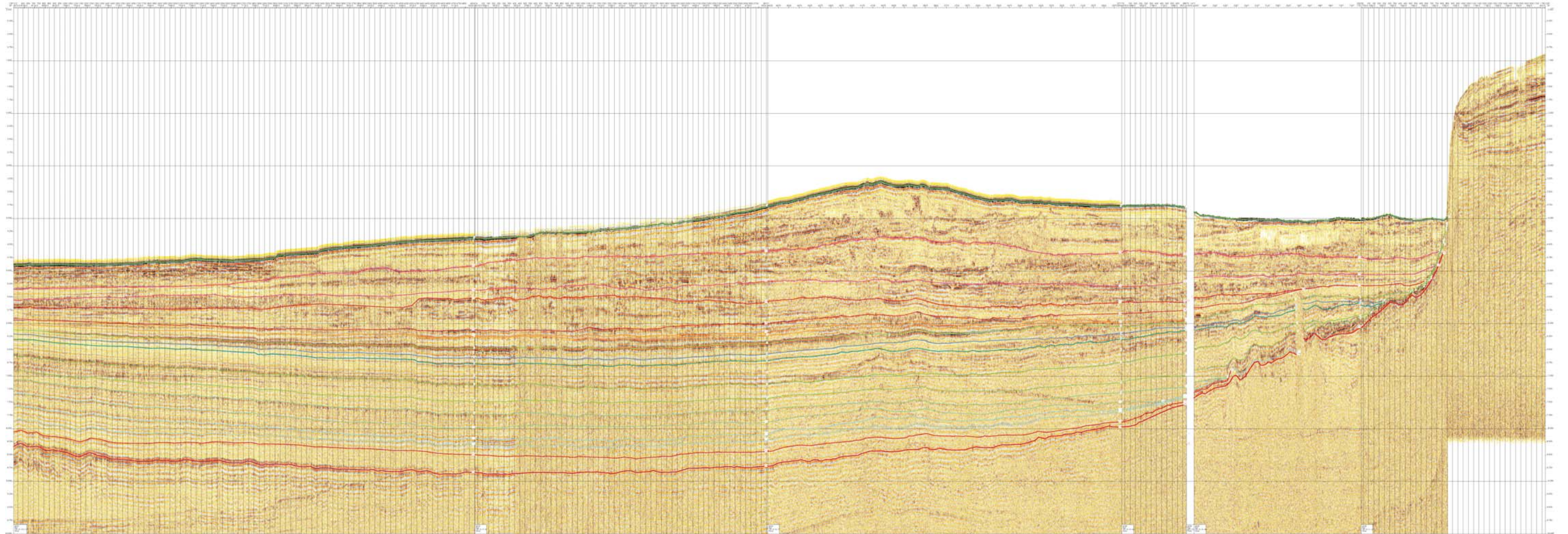


NDeepEseq.eps

North Deep Basin (East) (Seismic) Deposystems



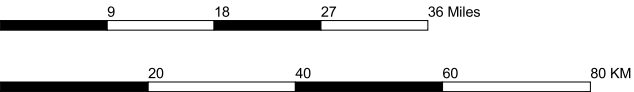
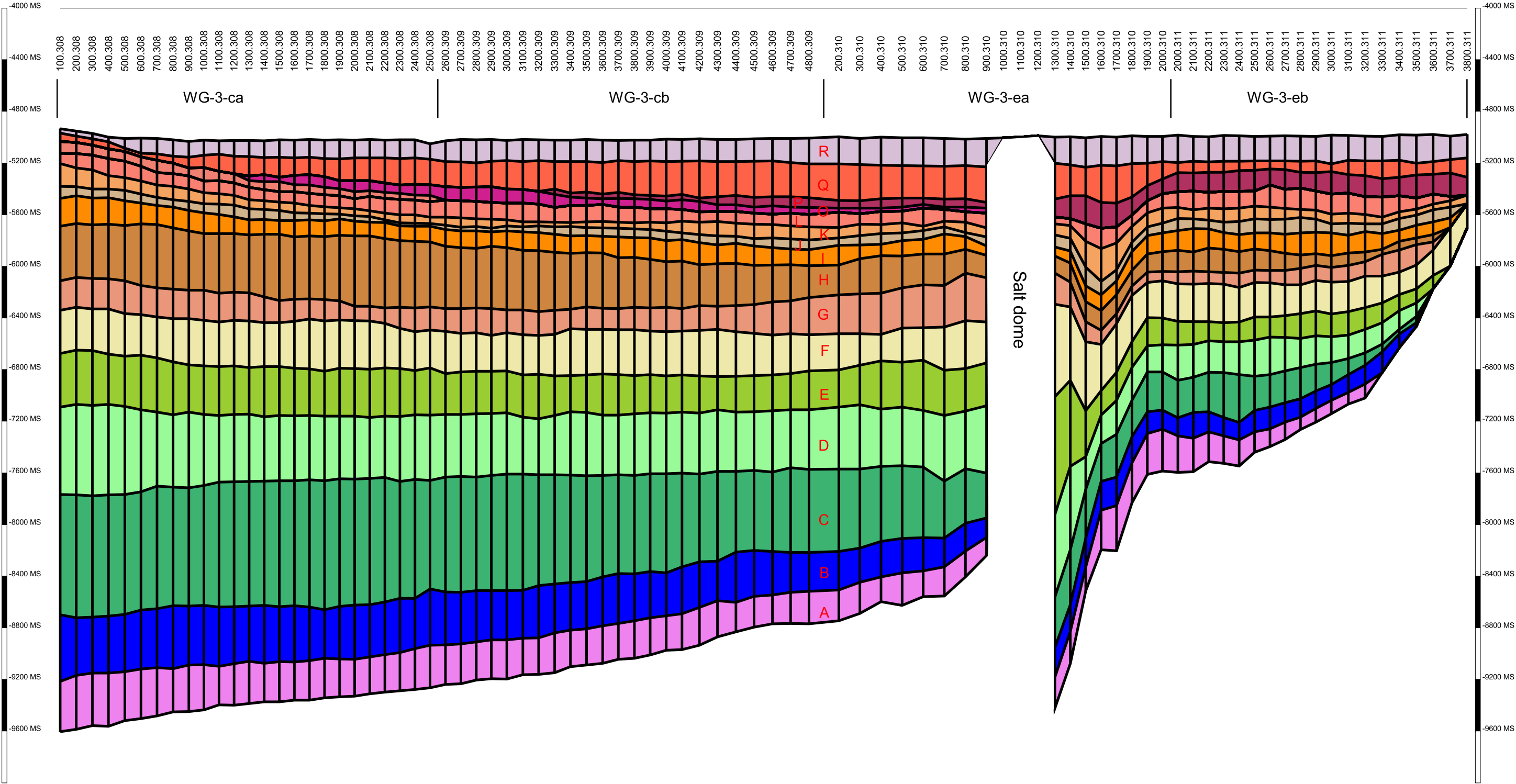
GBDS Phase 1
North Deep Basin East
16-3-1 – 16-3-13



West Deep Basin (Seismic) Sequences

W

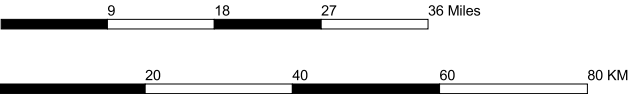
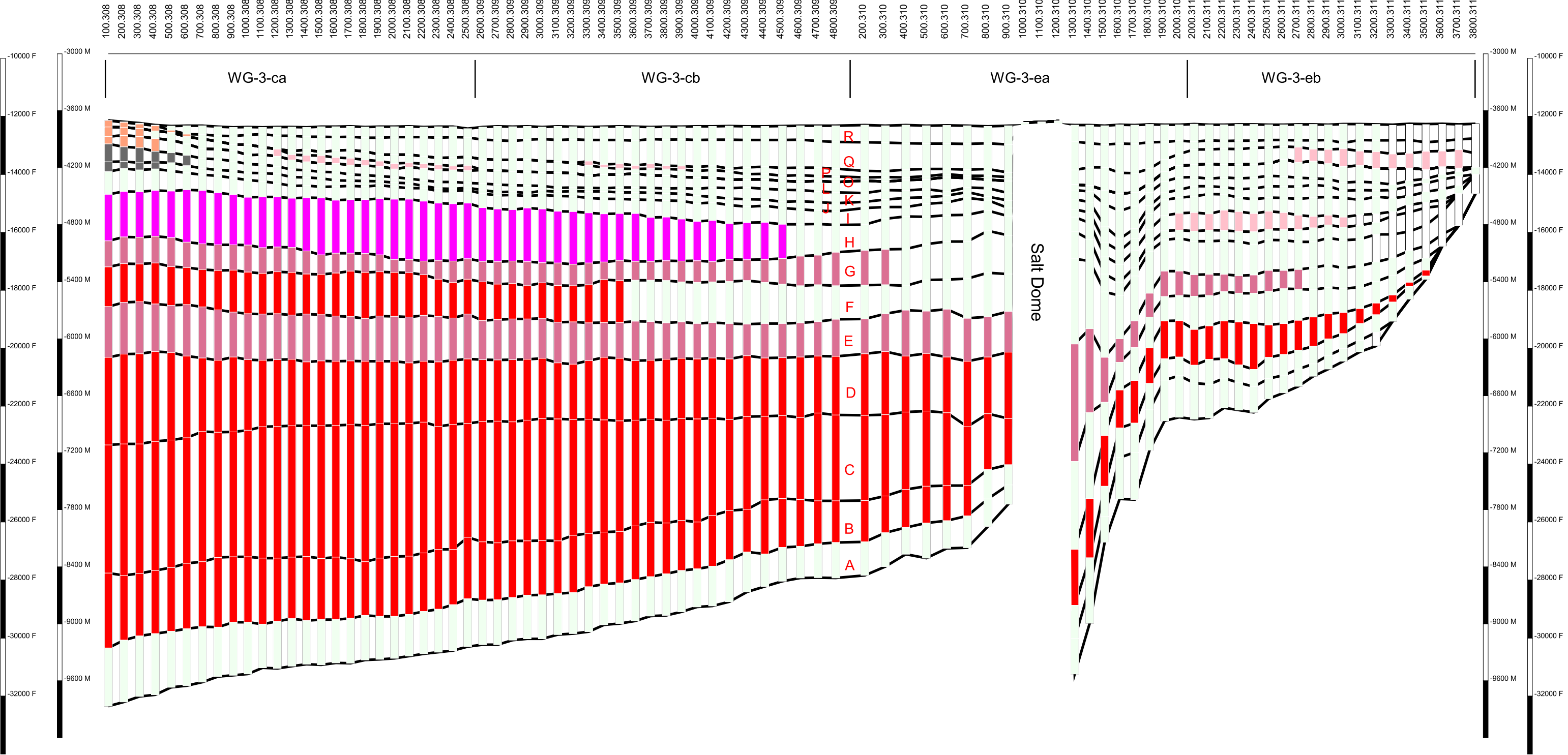
E



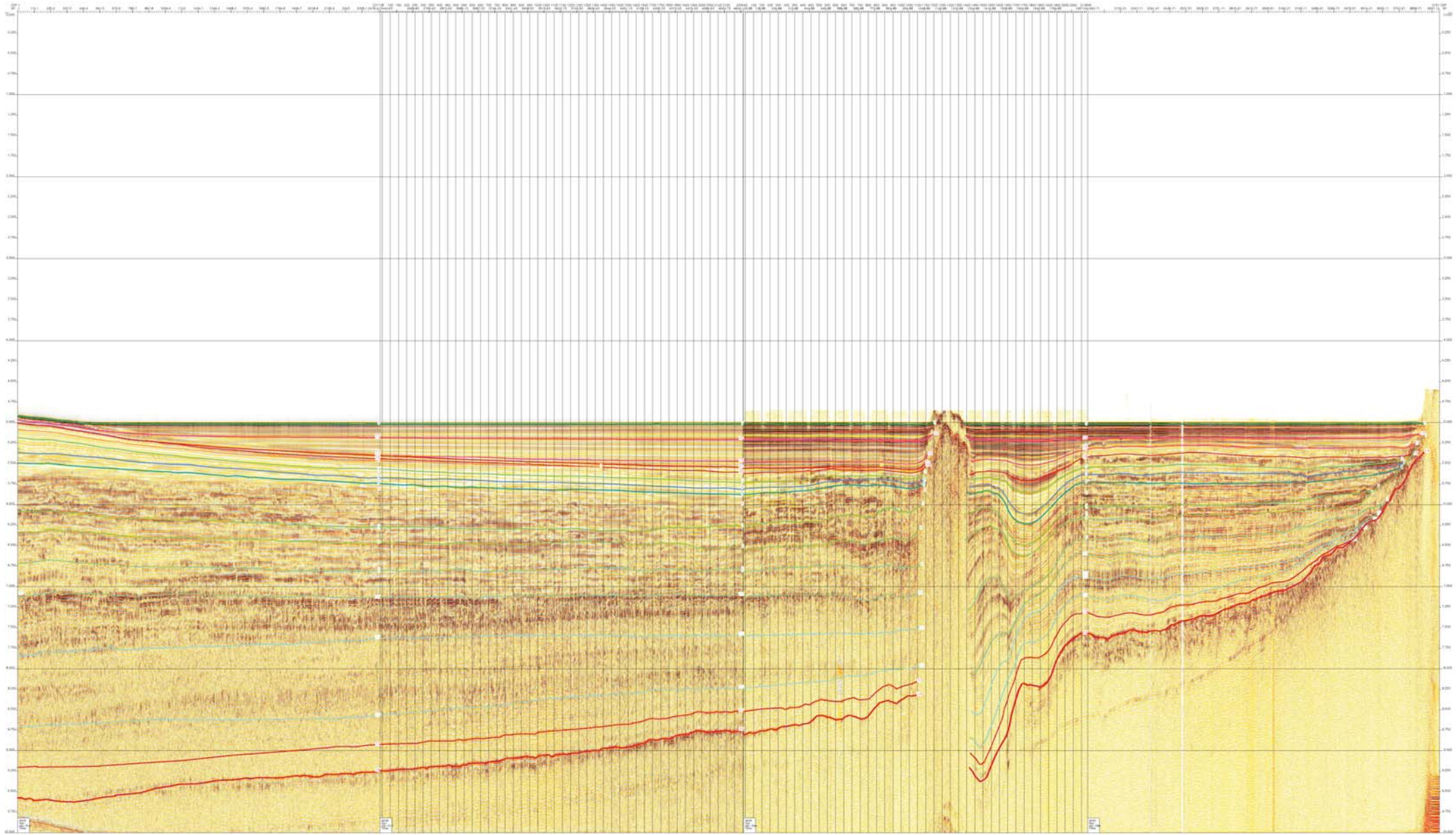
West Deep Basin (Seismic) Facies Associations

W

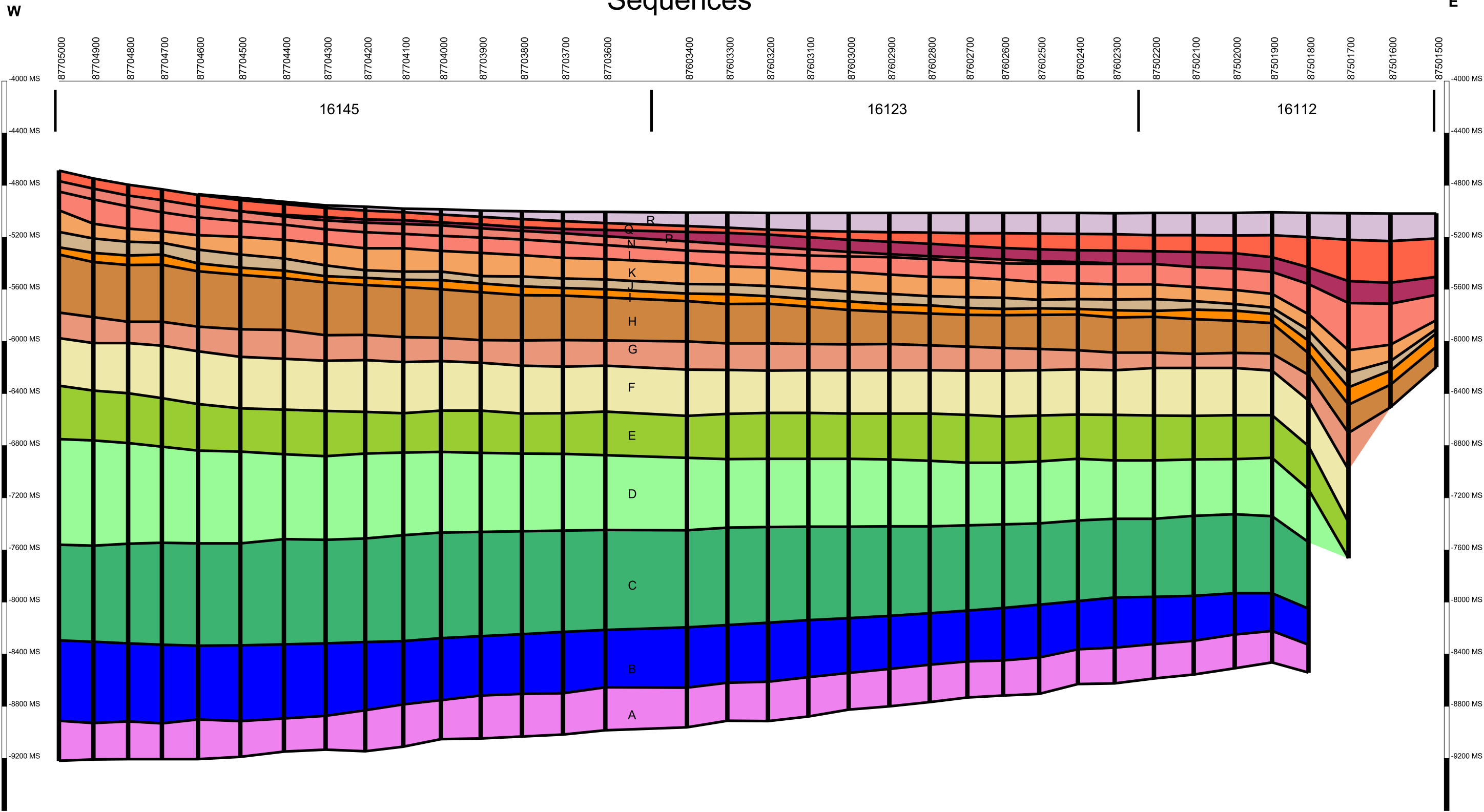
E



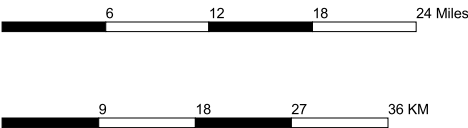
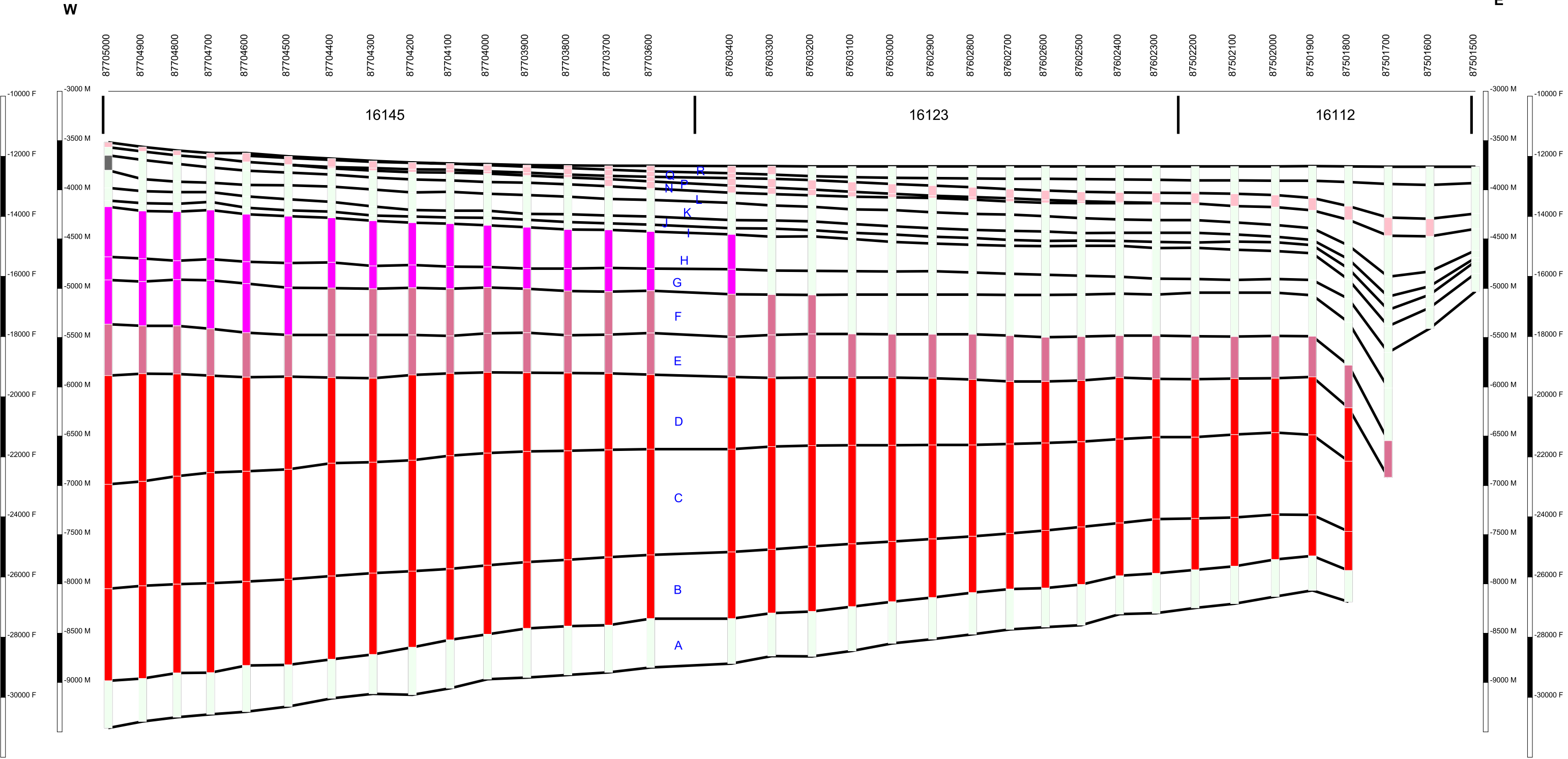
GBDS Phase 1
West Deep Basin
WG-3



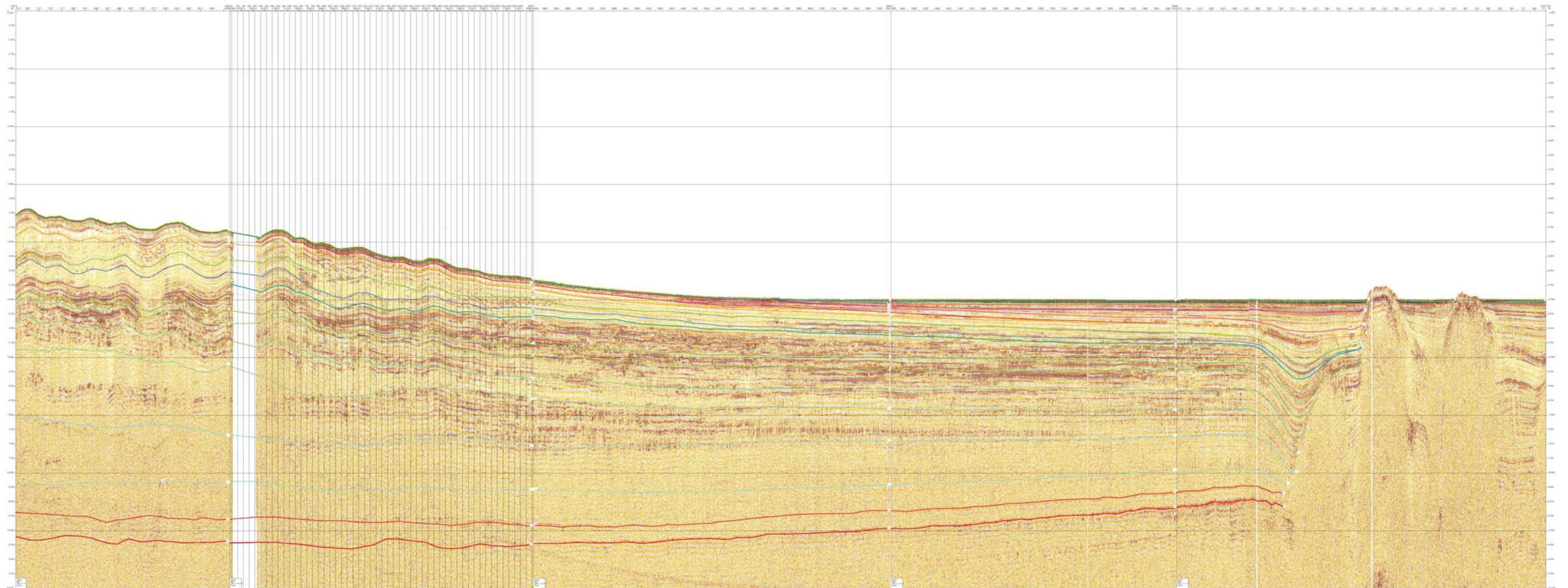
Central Deep Basin West (Seismic) Sequences



Central Deep Basin West (Seismic) Facies Associations



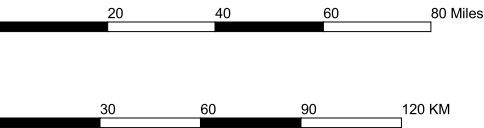
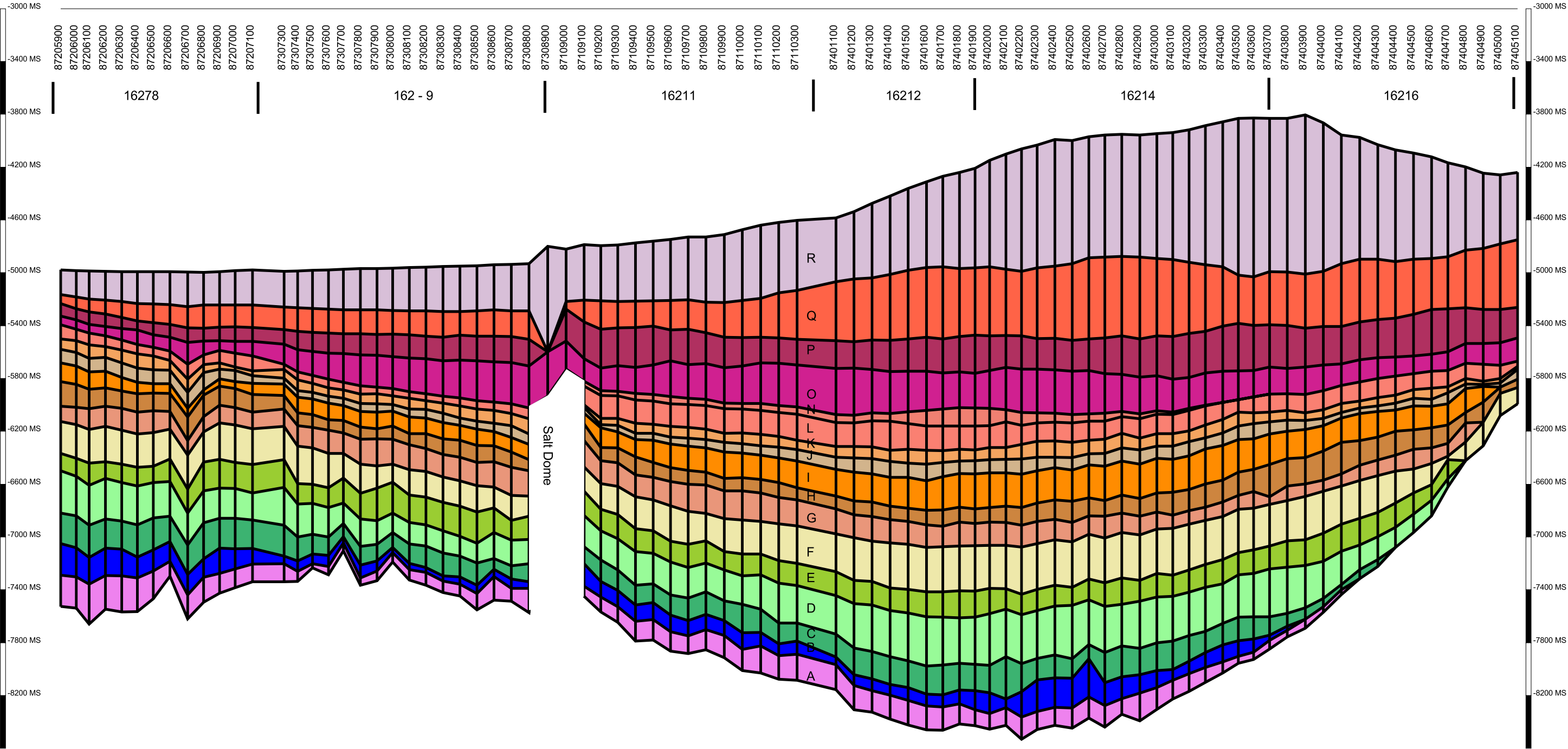
GBDS Phase 1
Central Deep Basin West
16-1-1 - 16-1-7



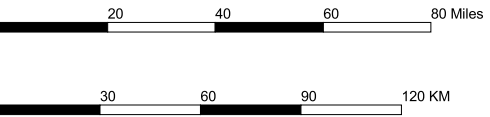
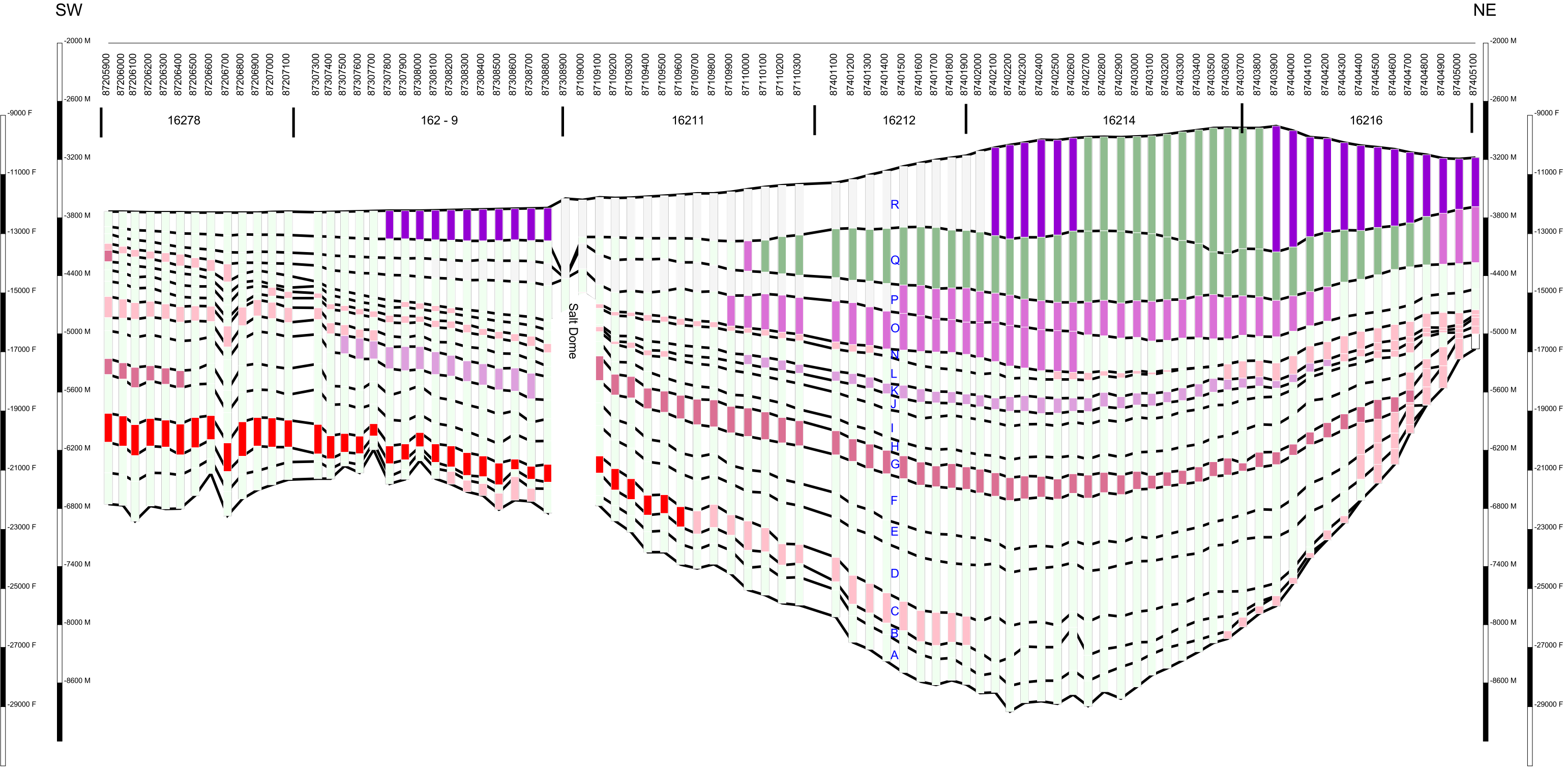
Central Deep Basin East (Seismic) Sequences

W

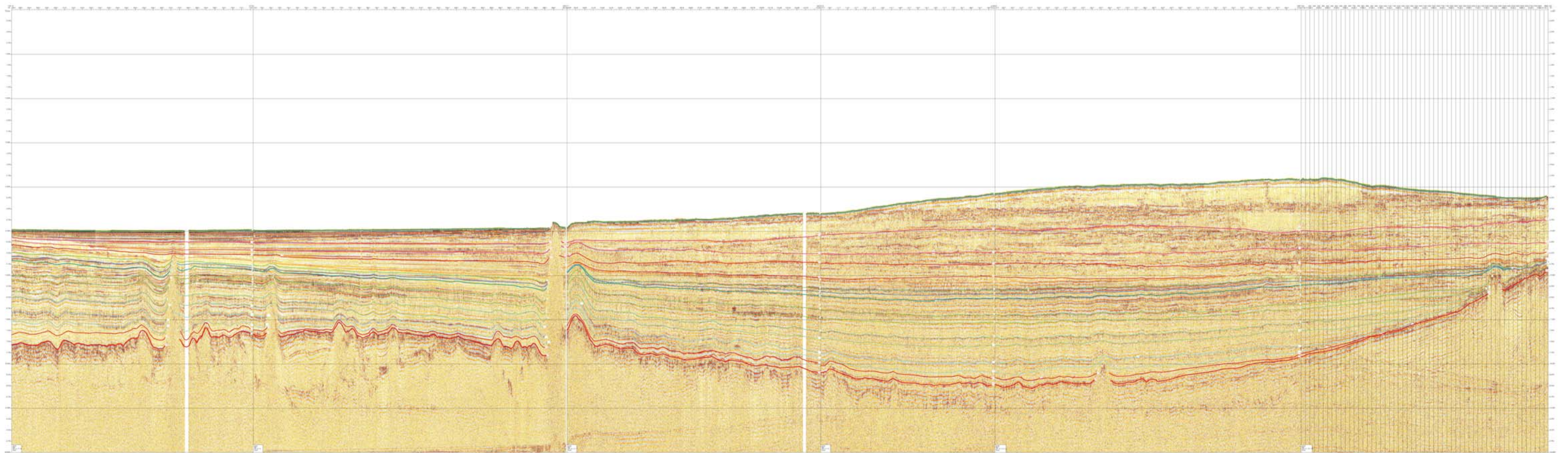
E



Central Deep Basin East (Seismic) Facies Associations



GBDS Phase 1
Central Deep Basin East
16-2-7 - 16-2-16



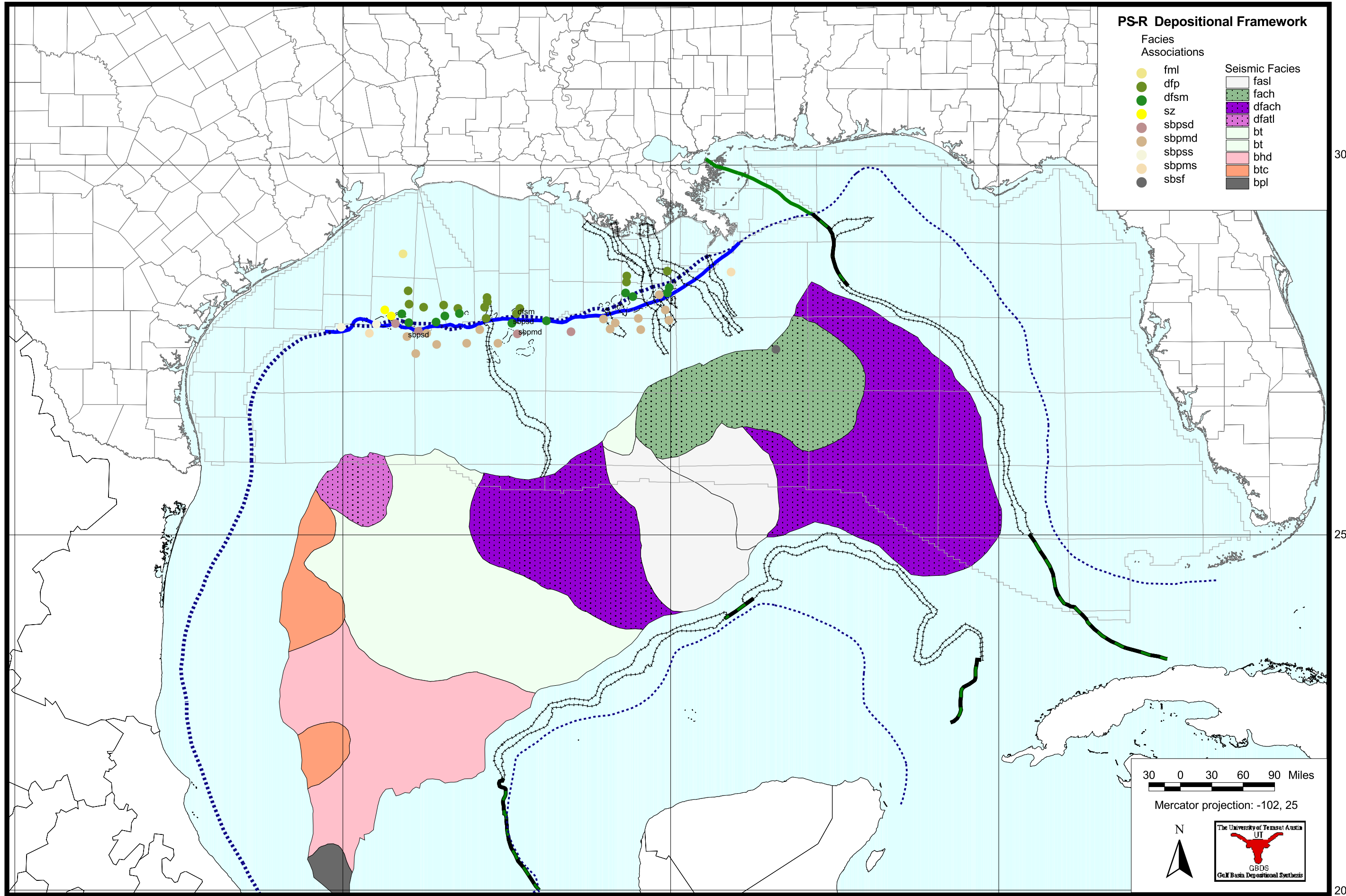
PS-R Depositional Framework

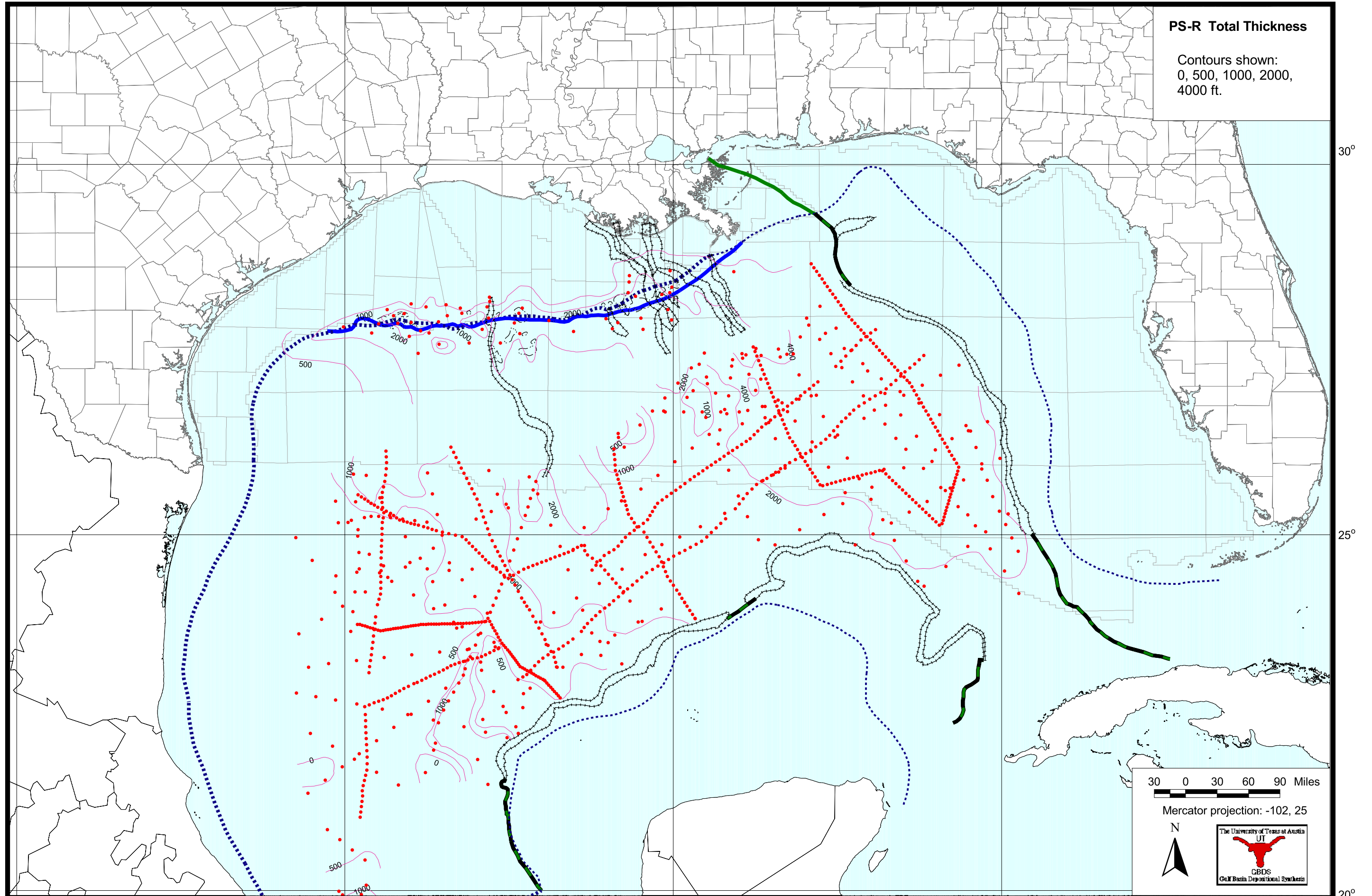
Facies Associations

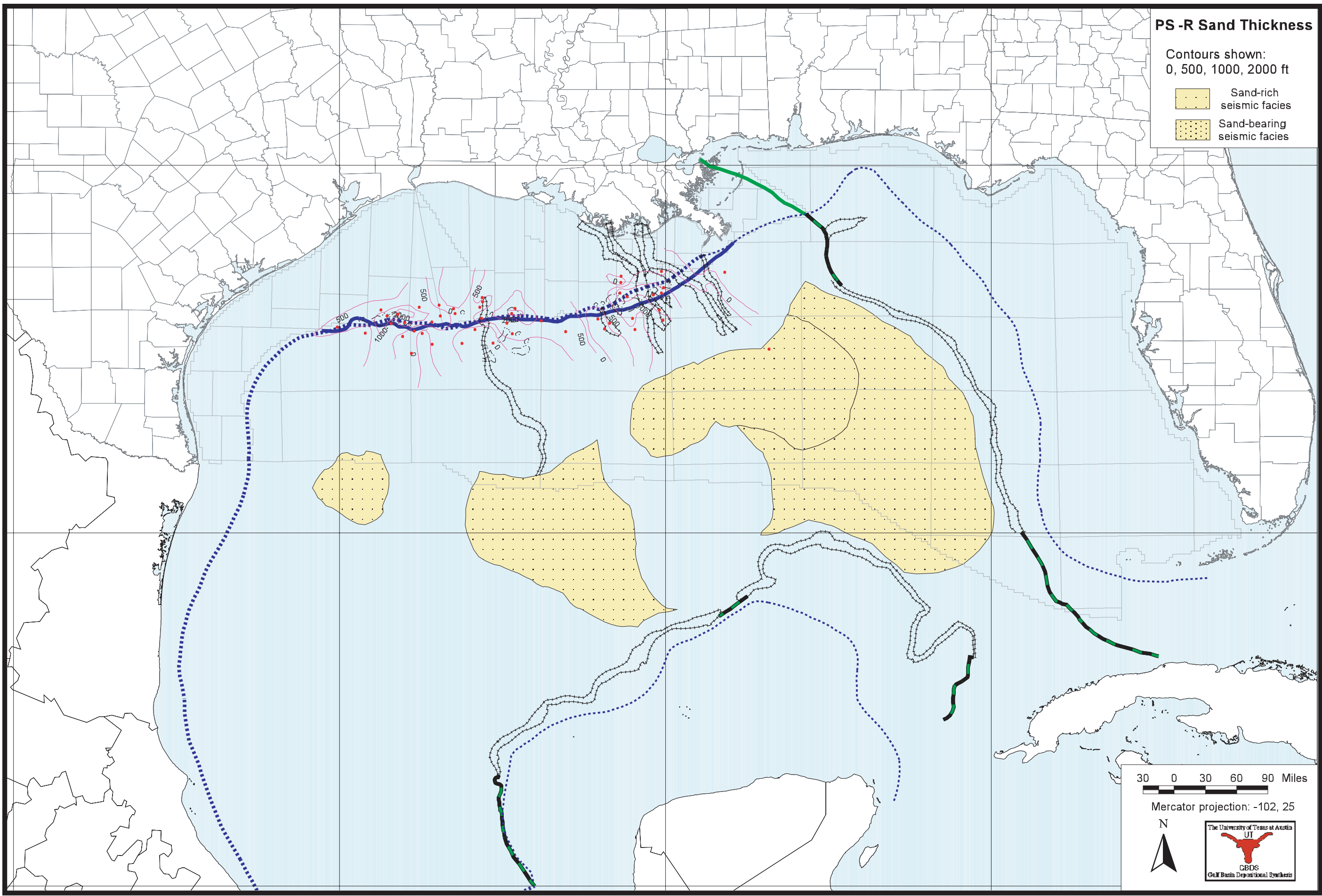
- fml
- dfp
- dfsm
- sz
- sbpsd
- sbpmd
- sbpss
- sbpms
- sbsf

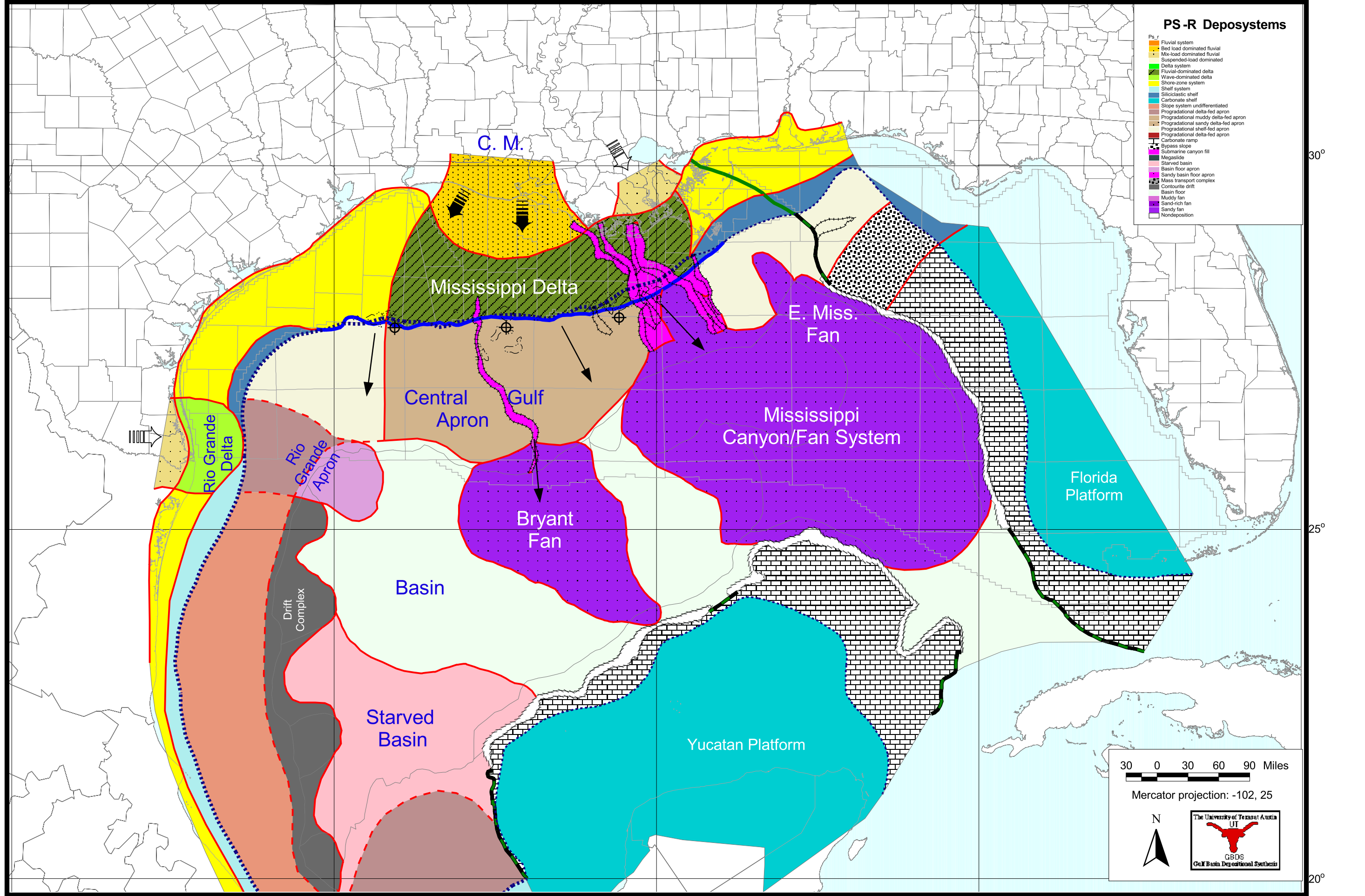
Seismic Facies

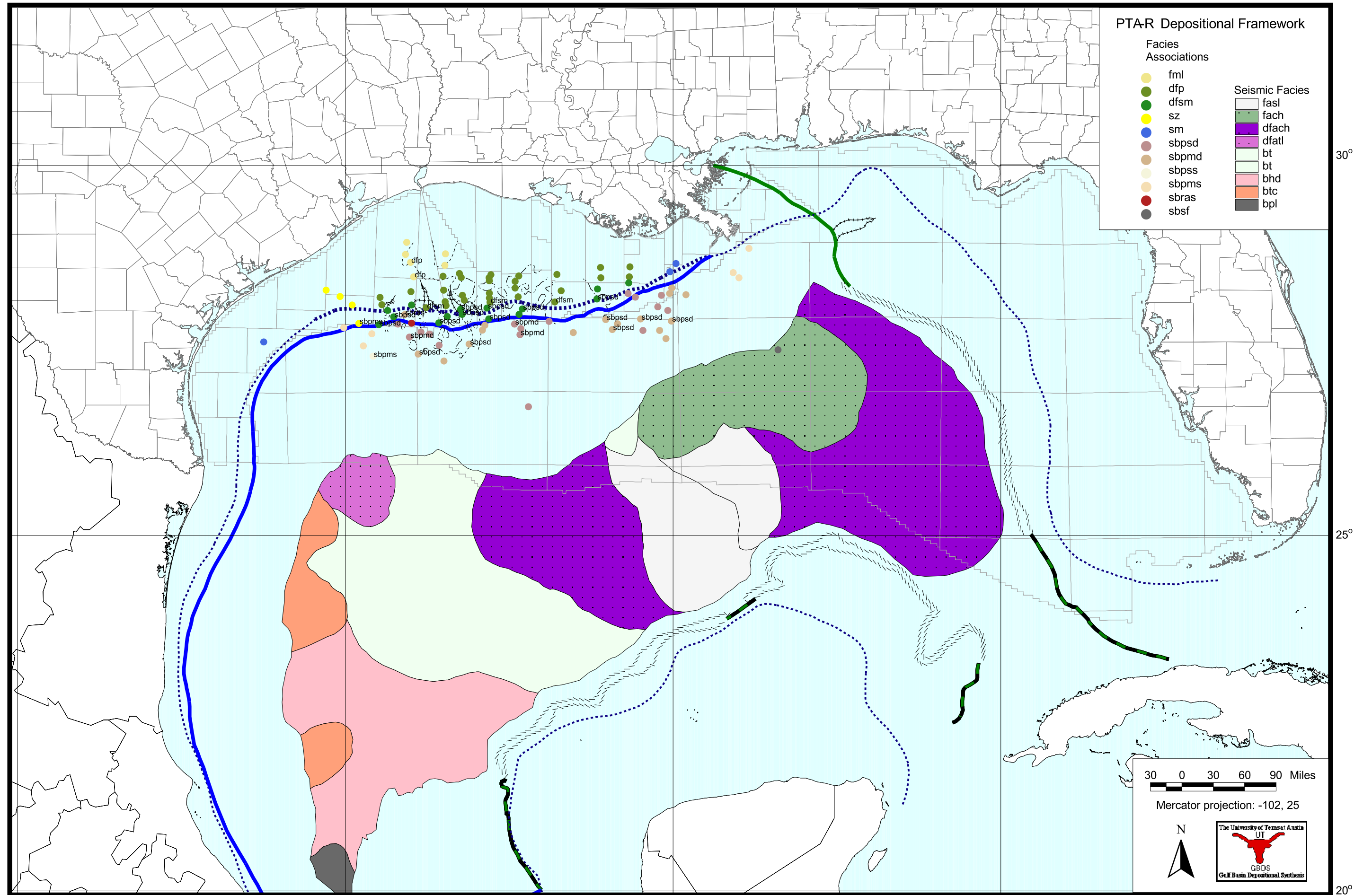
- fasl
- fach
- dfach
- dfatl
- bt
- bt
- bhd
- btc
- bpl

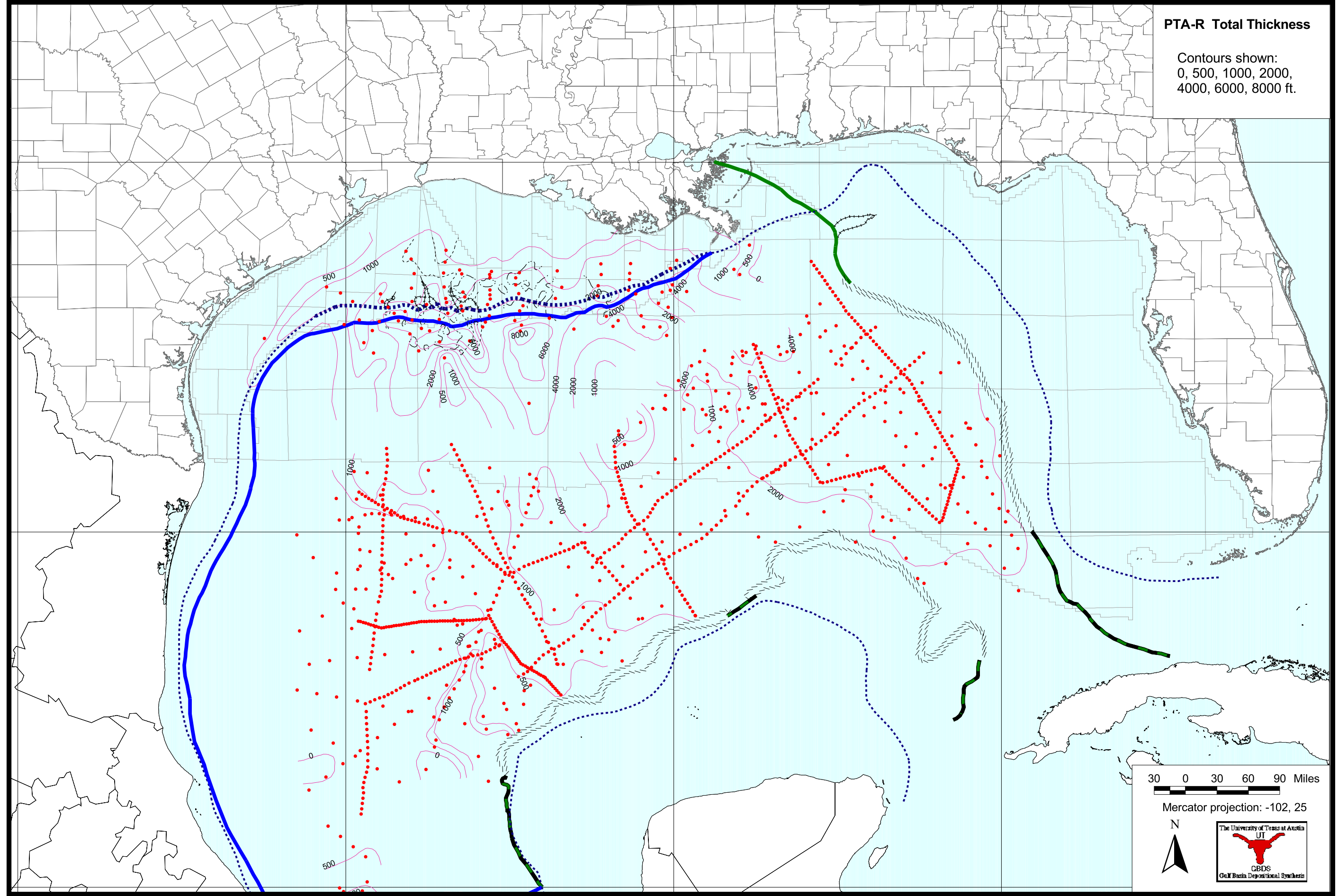


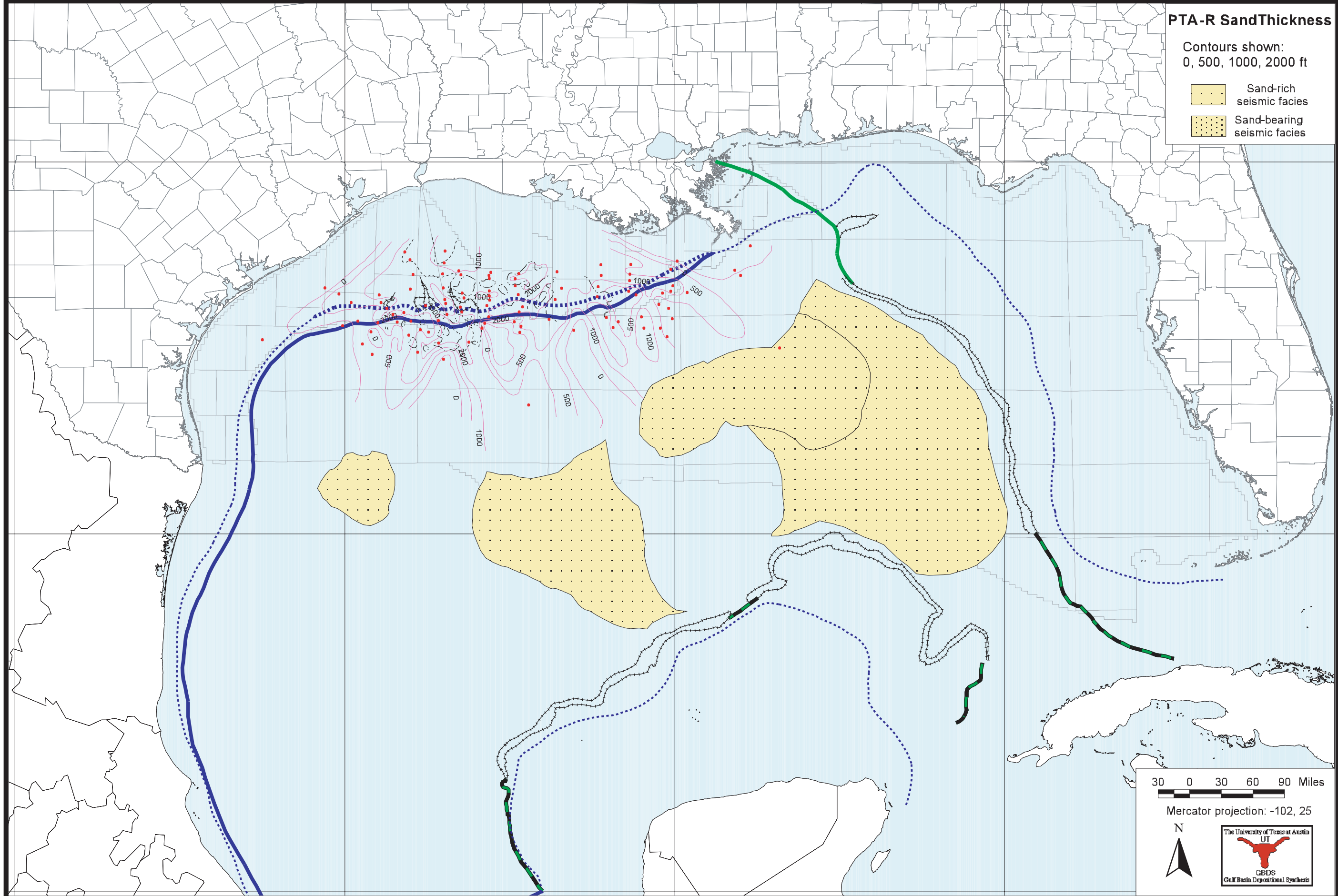












PTA -R Deposystems

- Fluvial System
- Mix-load dominated fluvial
- Fluvial-dominated delta
- Wave-dominated delta
- Shore-zone system
- Shelf System
- Siliciclastic shelf
- Carbonate shelf
- Slope system undifferentiated
- Progradational delta-fed apron
- Progradational sandy delta-fed apron
- Progradational shelf-fed apron
- Carbonate ramp
- Starved basin
- Sandy basin floor apron
- Mass transport complex
- Contourite drift
- Basin floor
- Sandy fan
- Nondeposition

30°

25°

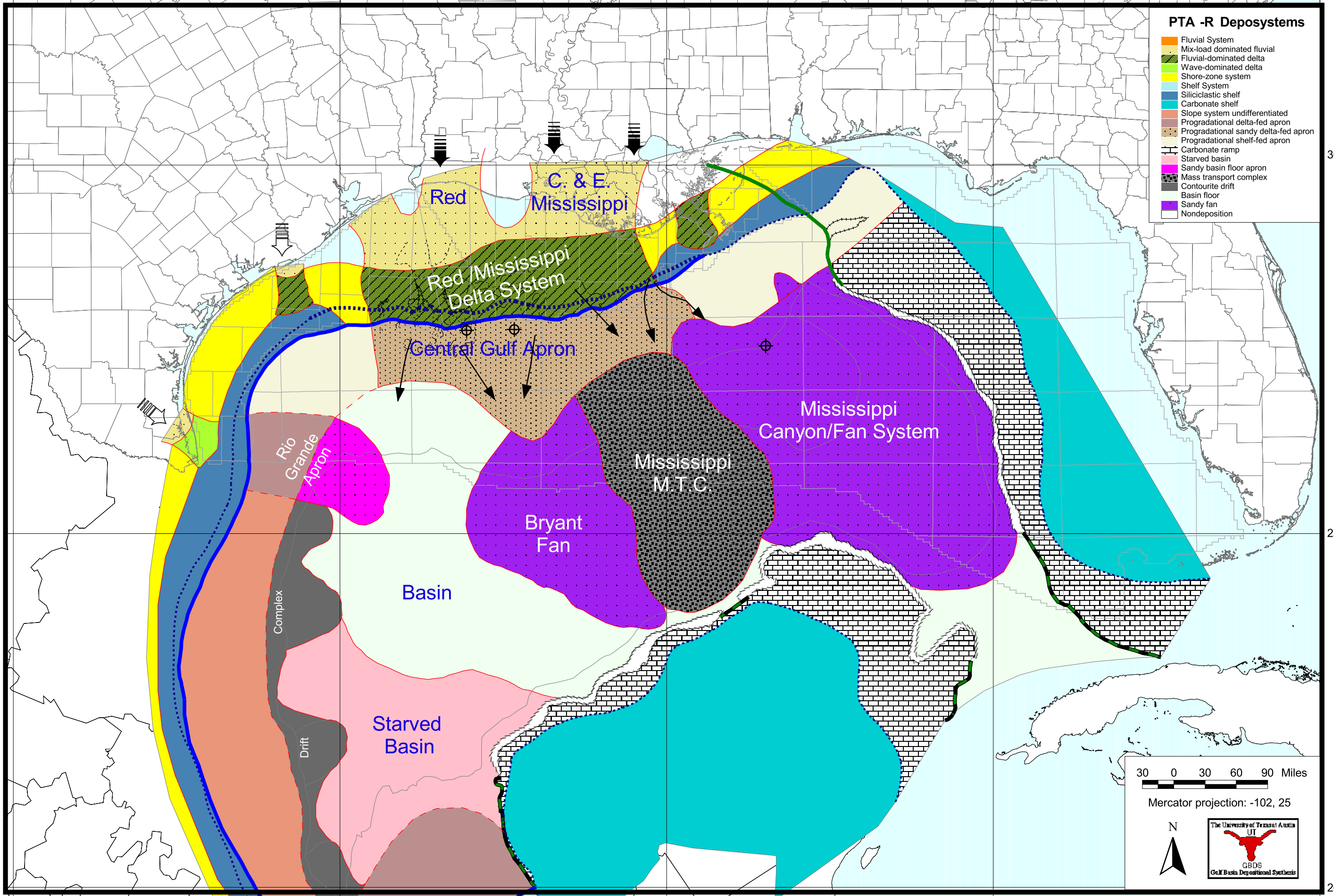
20°

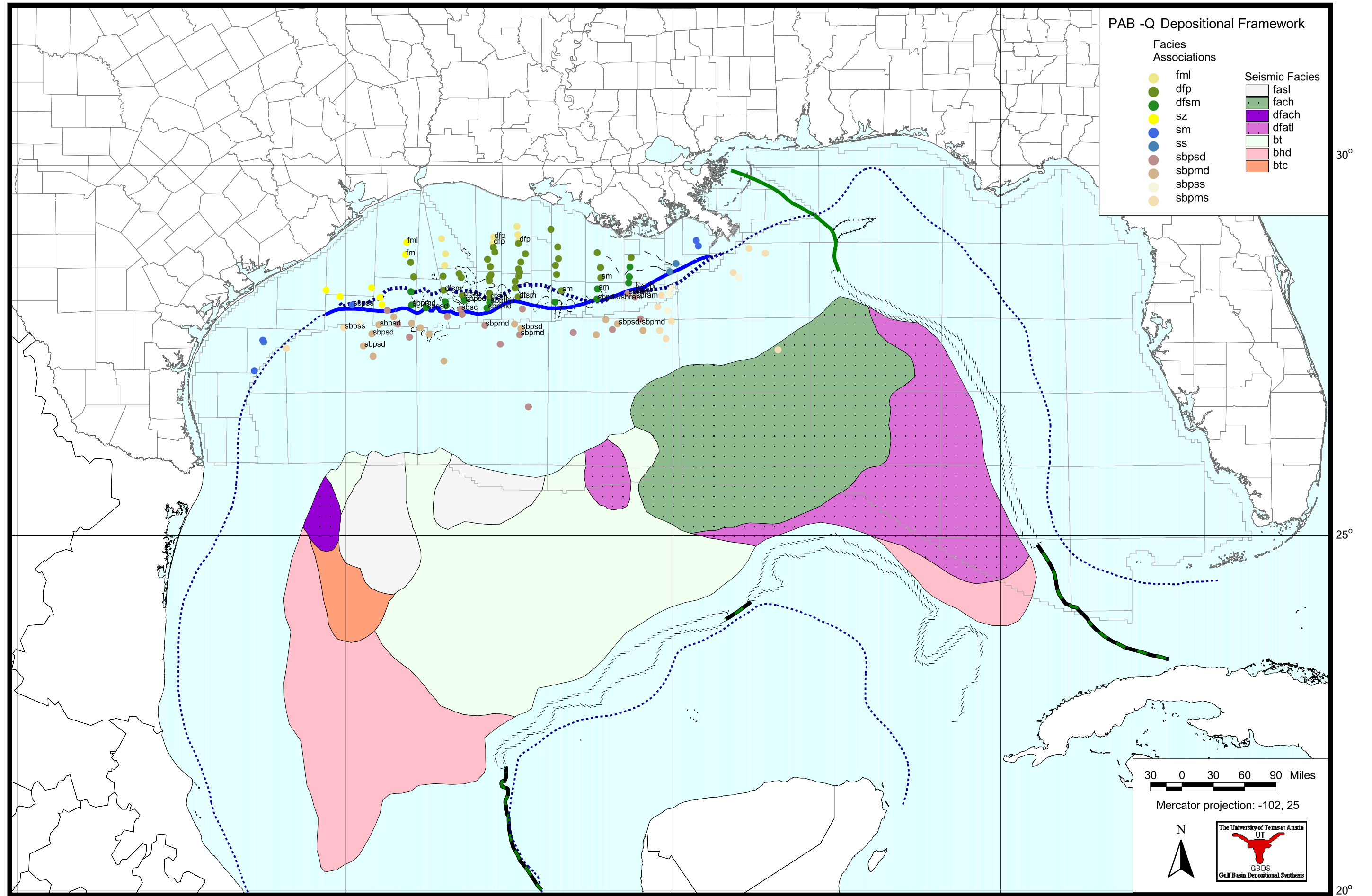
30 0 30 60 90 Miles

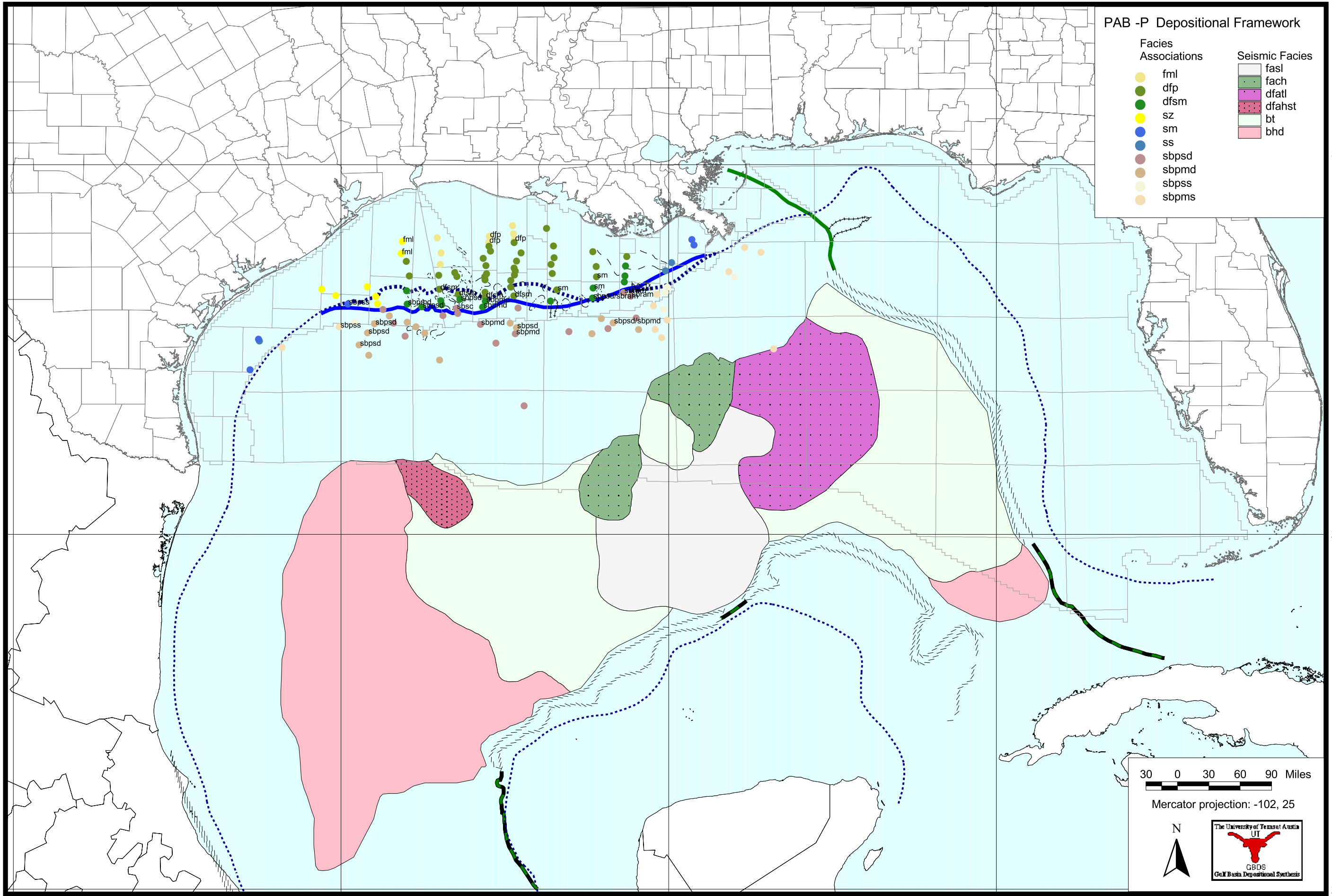
Mercator projection: -102, 25

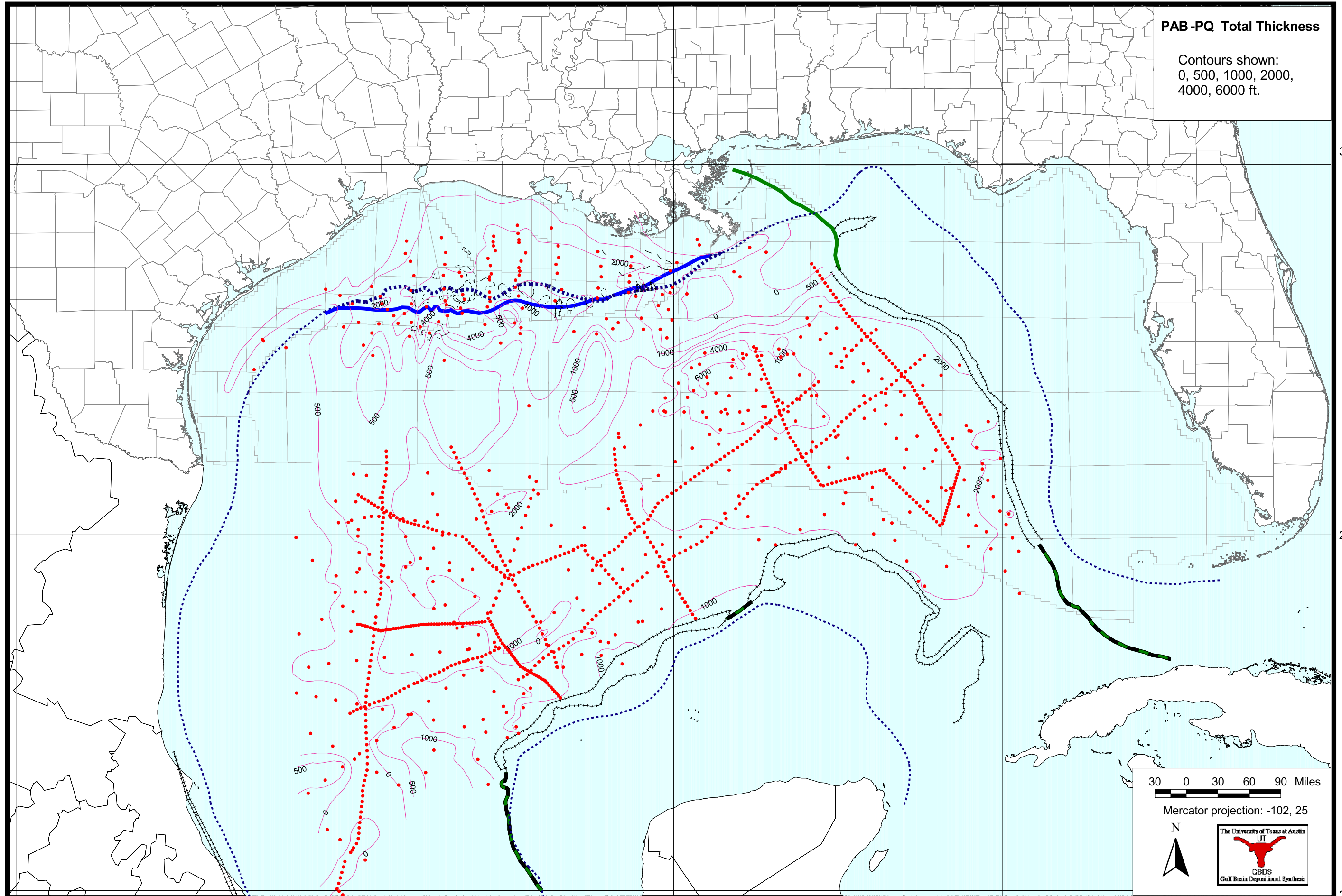


GBDS
Gulf Basin Depositional Synthesis





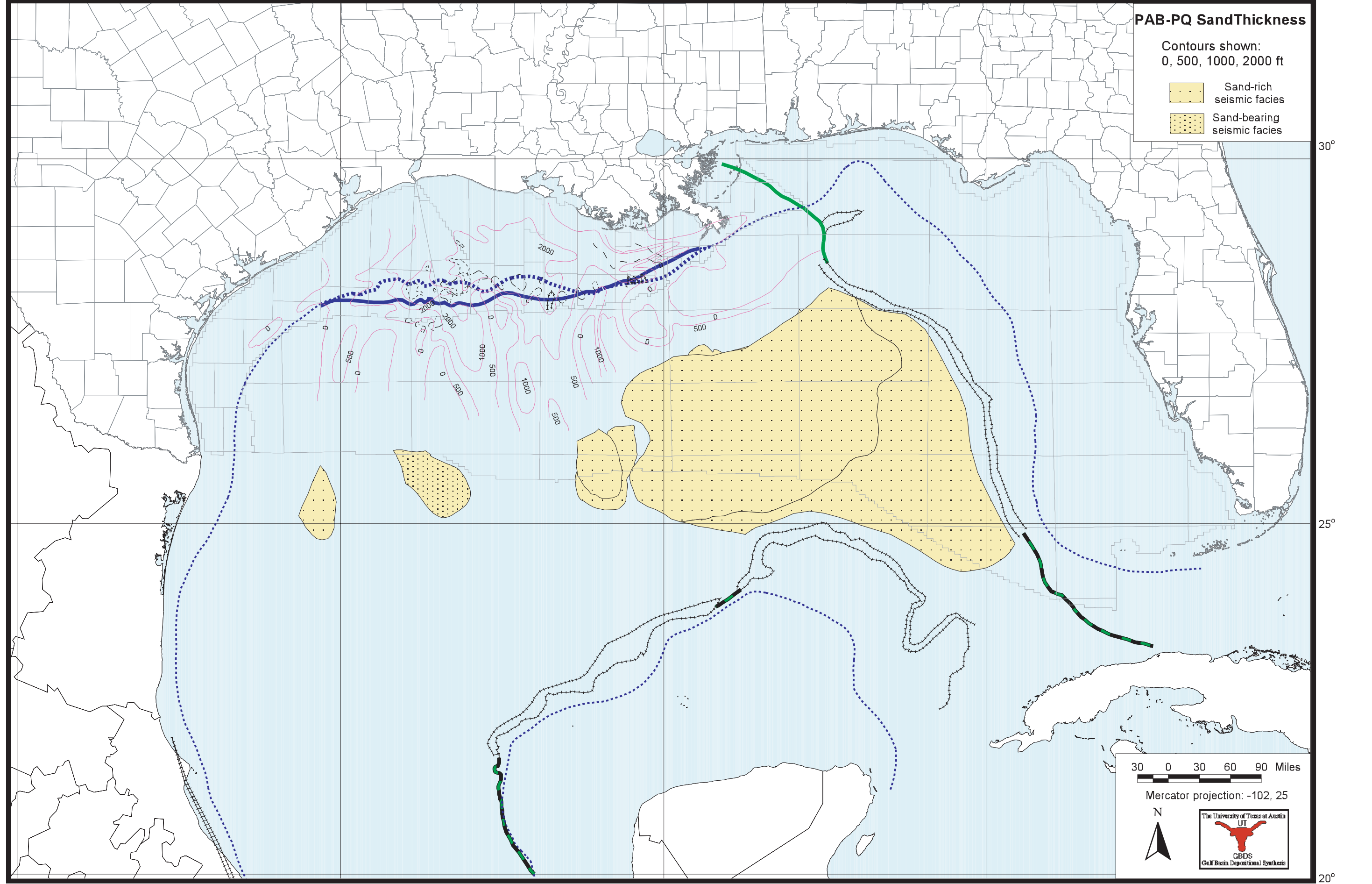


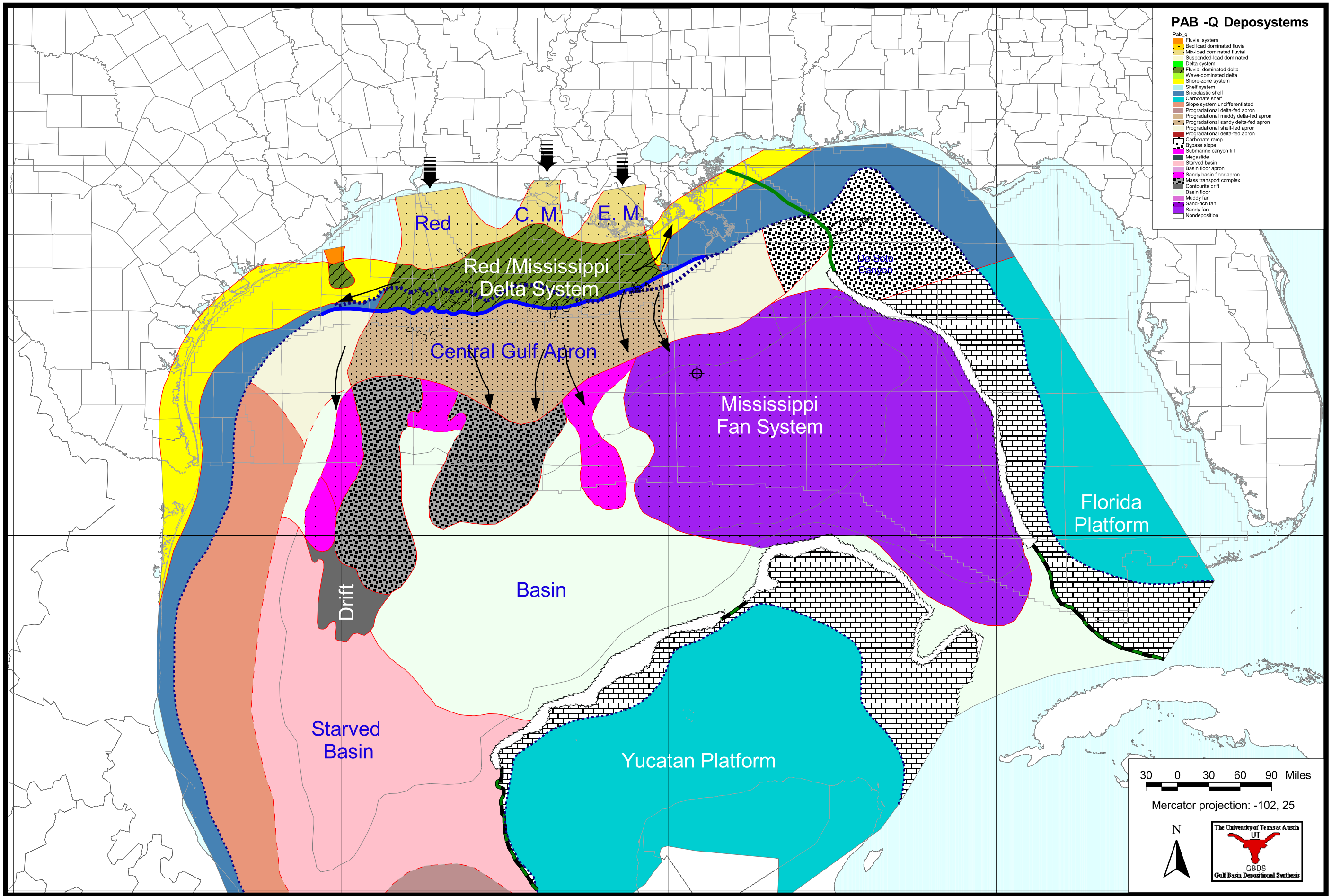


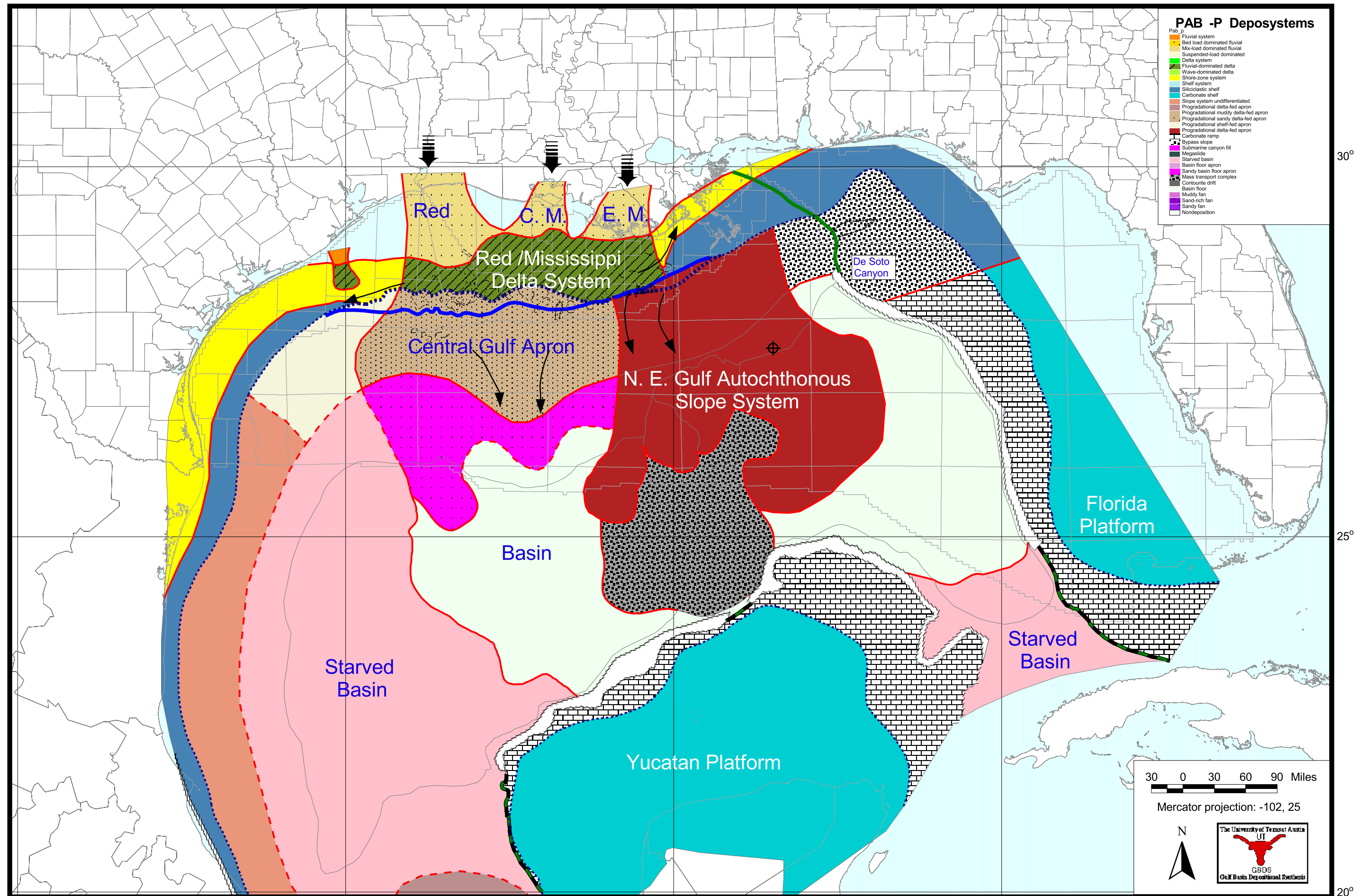
30 0 30 60 90 Miles

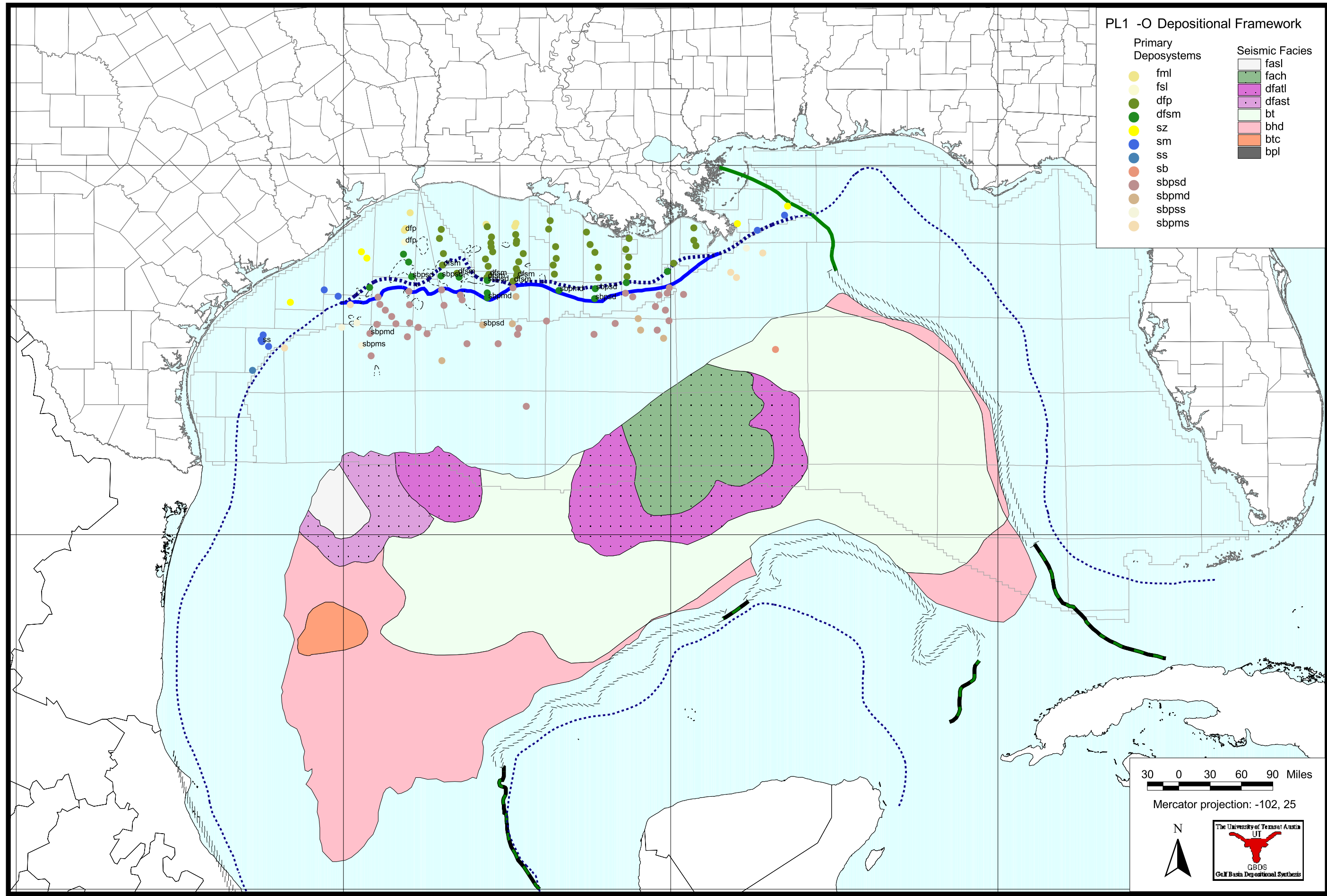
Mercator projection: -102, 25

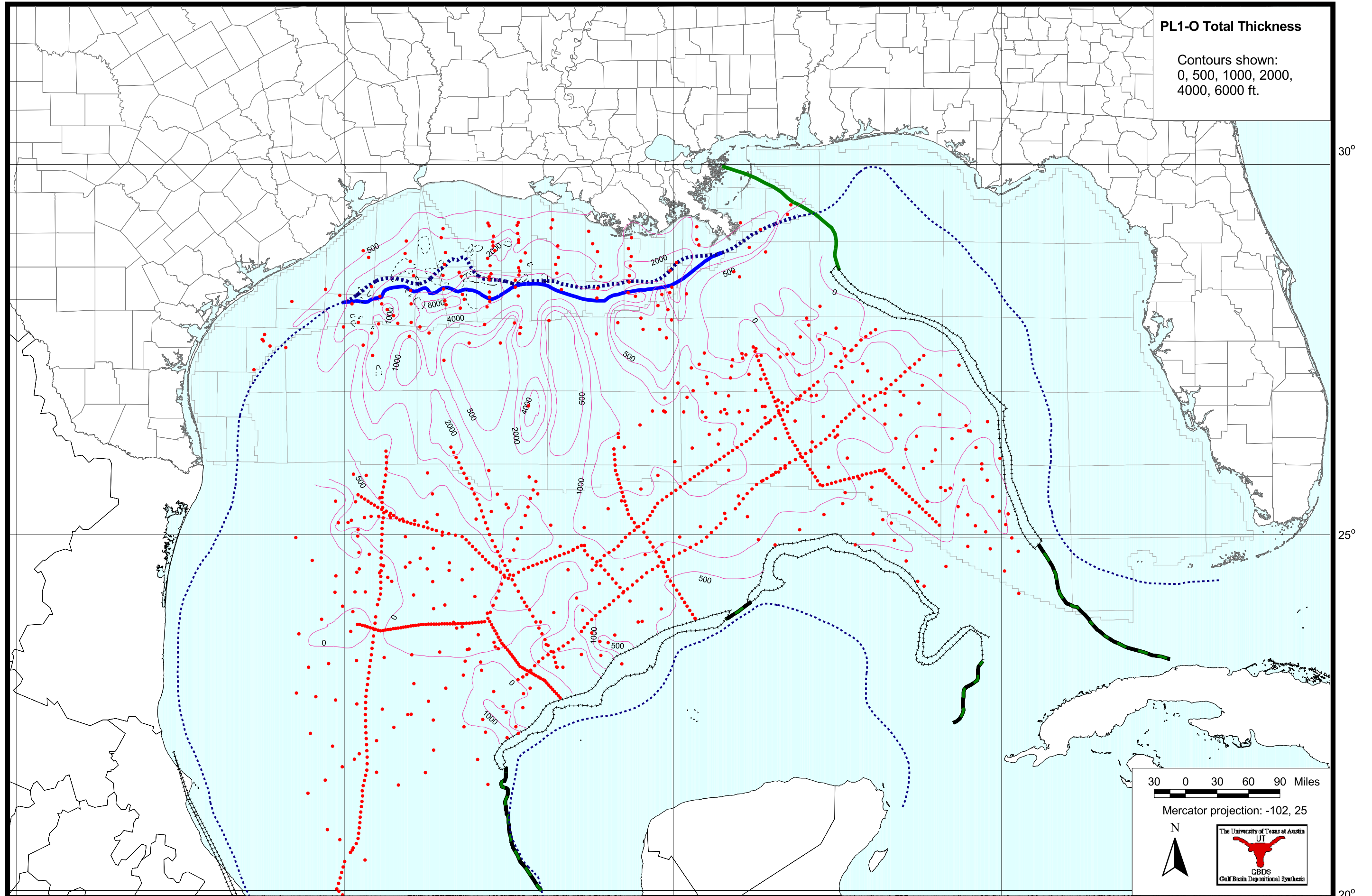


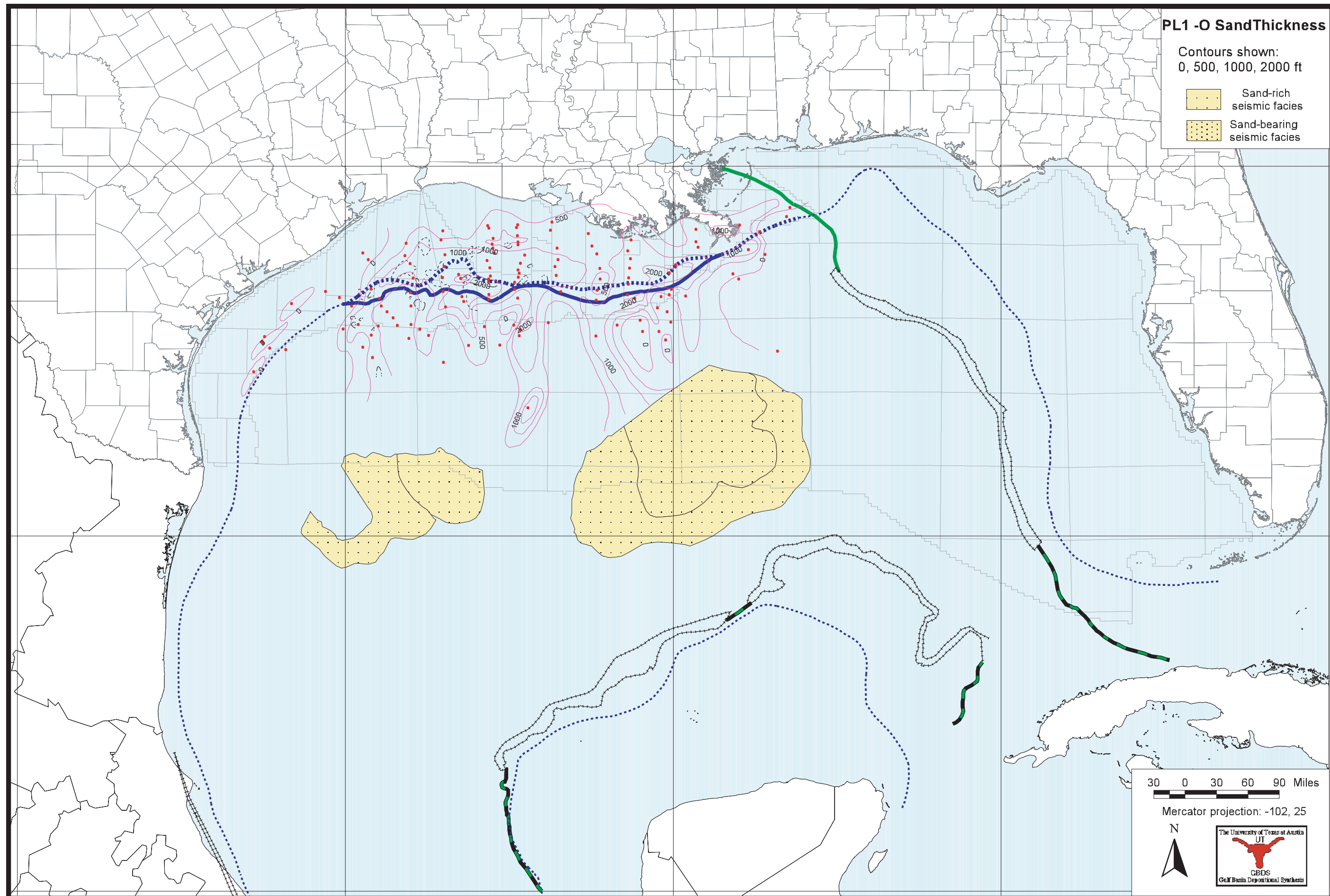












PL1 -O SandThickness

Contours shown:
0, 500, 1000, 2000 ft

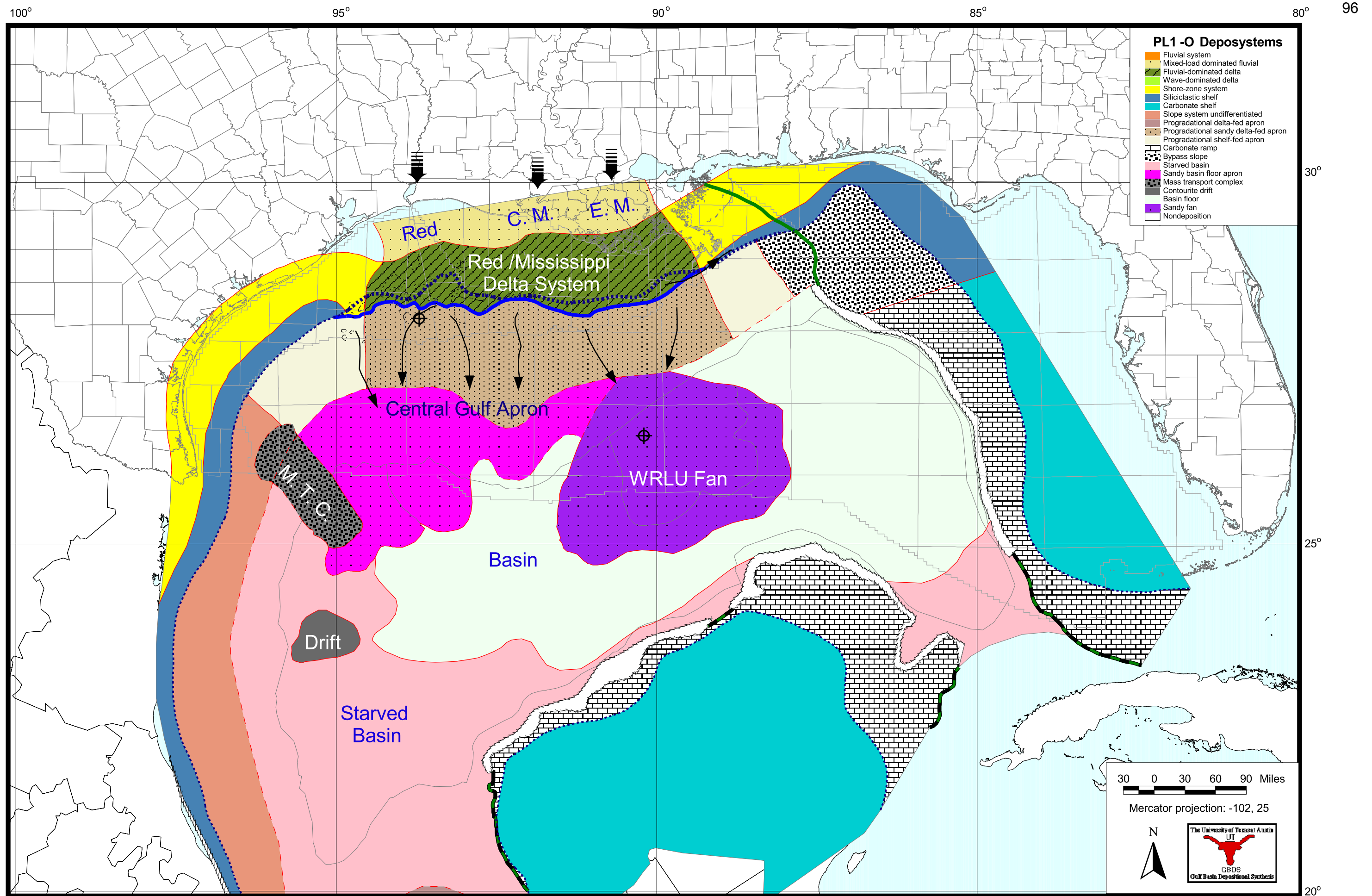
 Sand-rich seismic facies

 Sand-bearing seismic facies

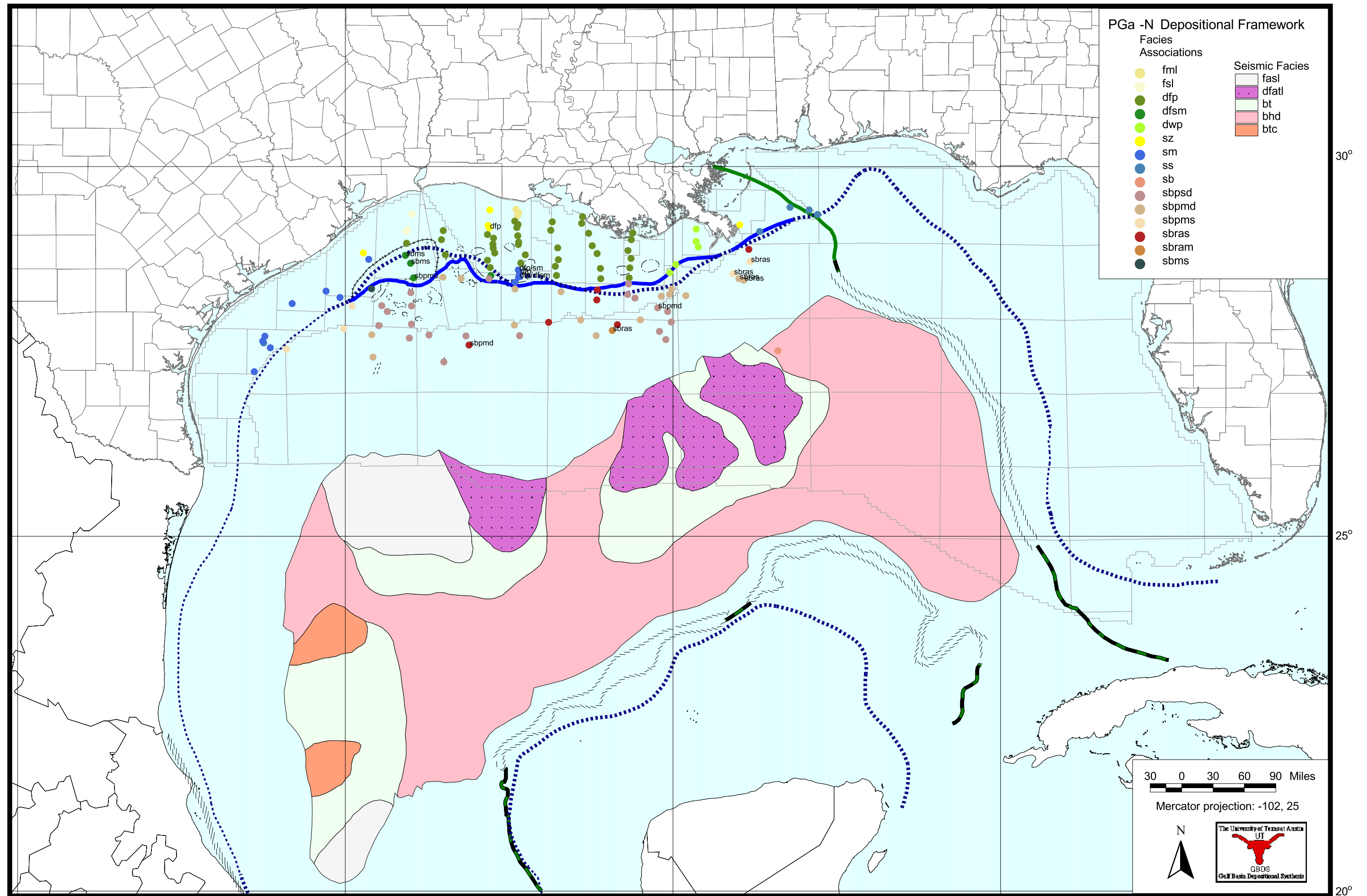
30 0 30 60 90 Miles

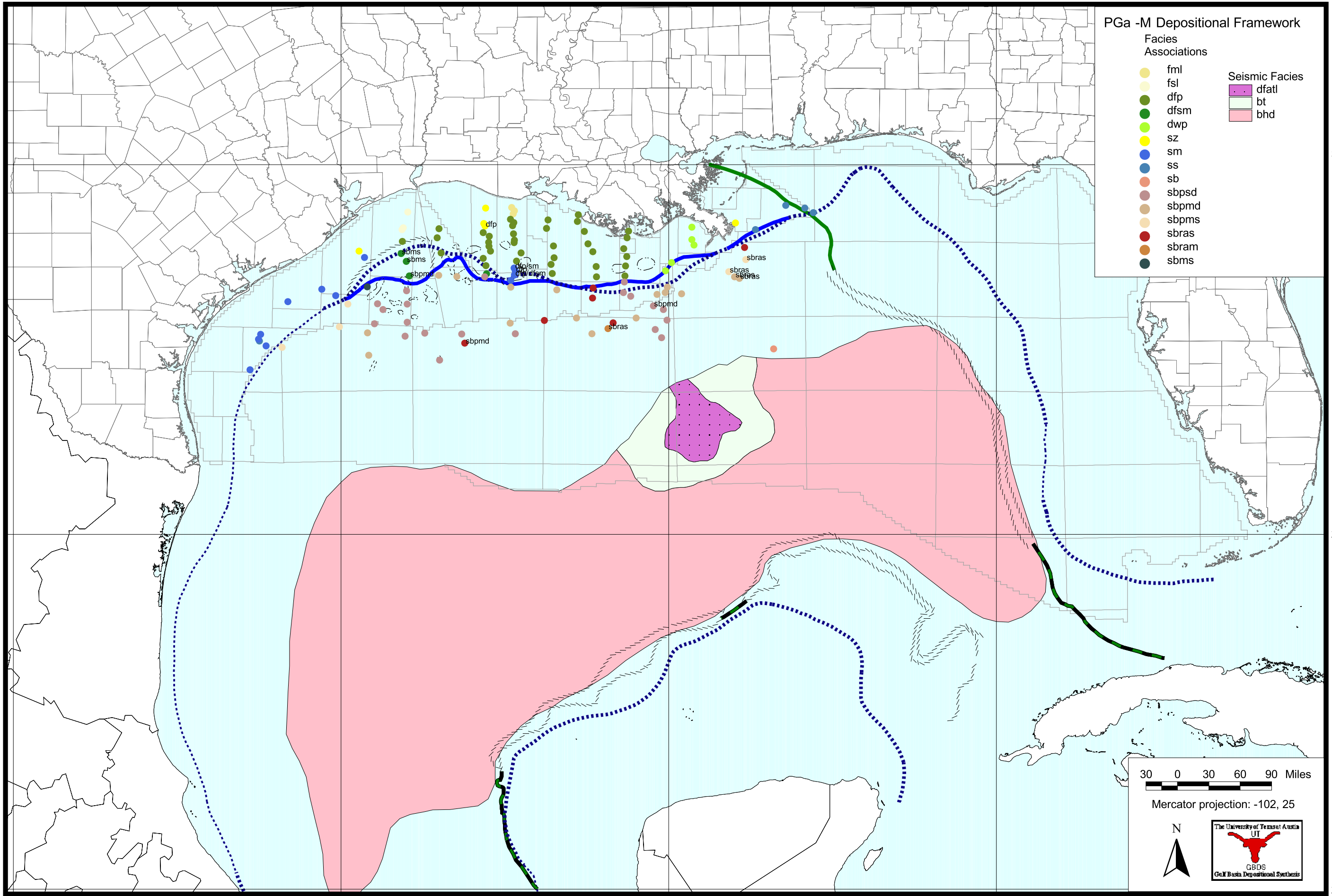
Mercator projection: -102, 25

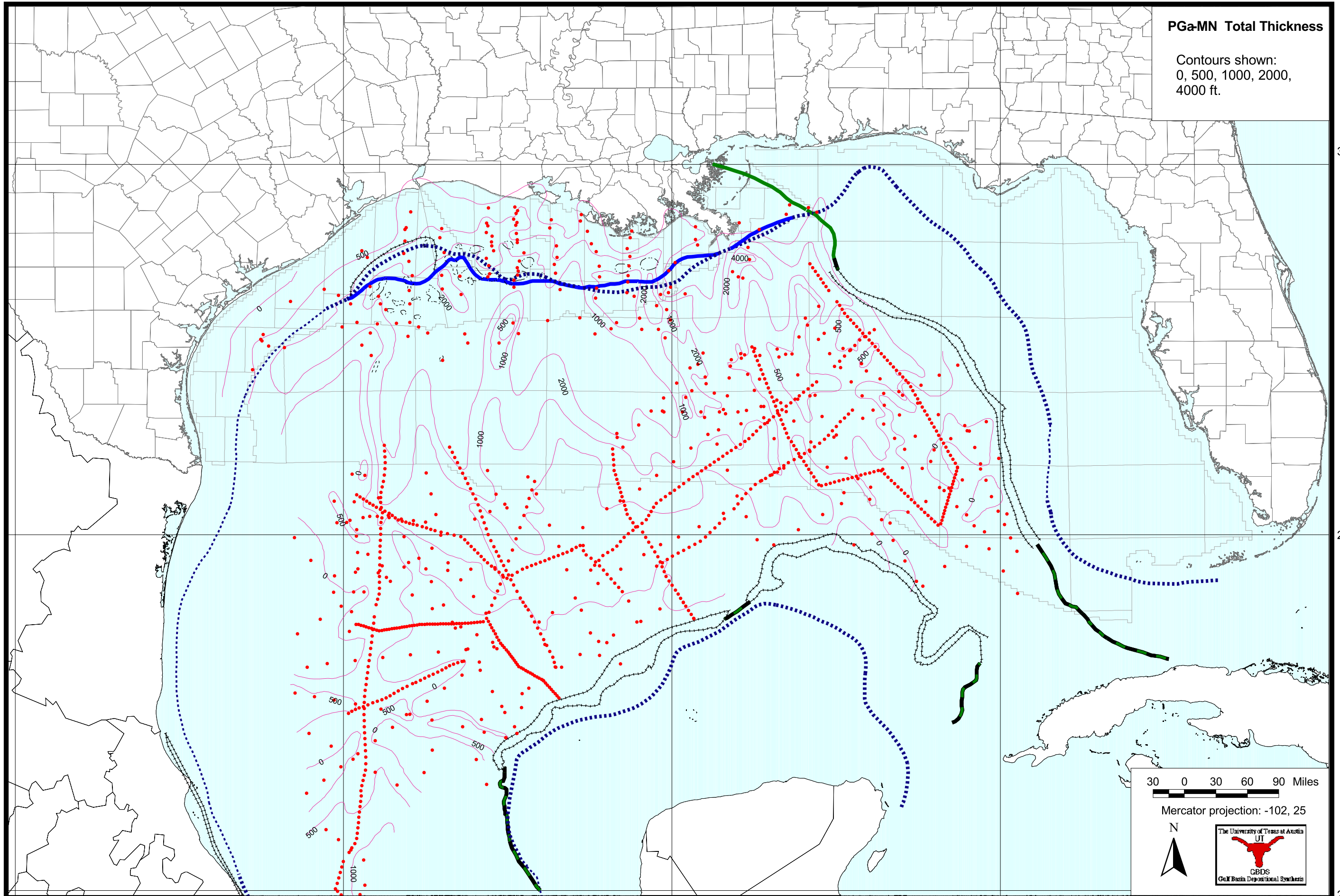


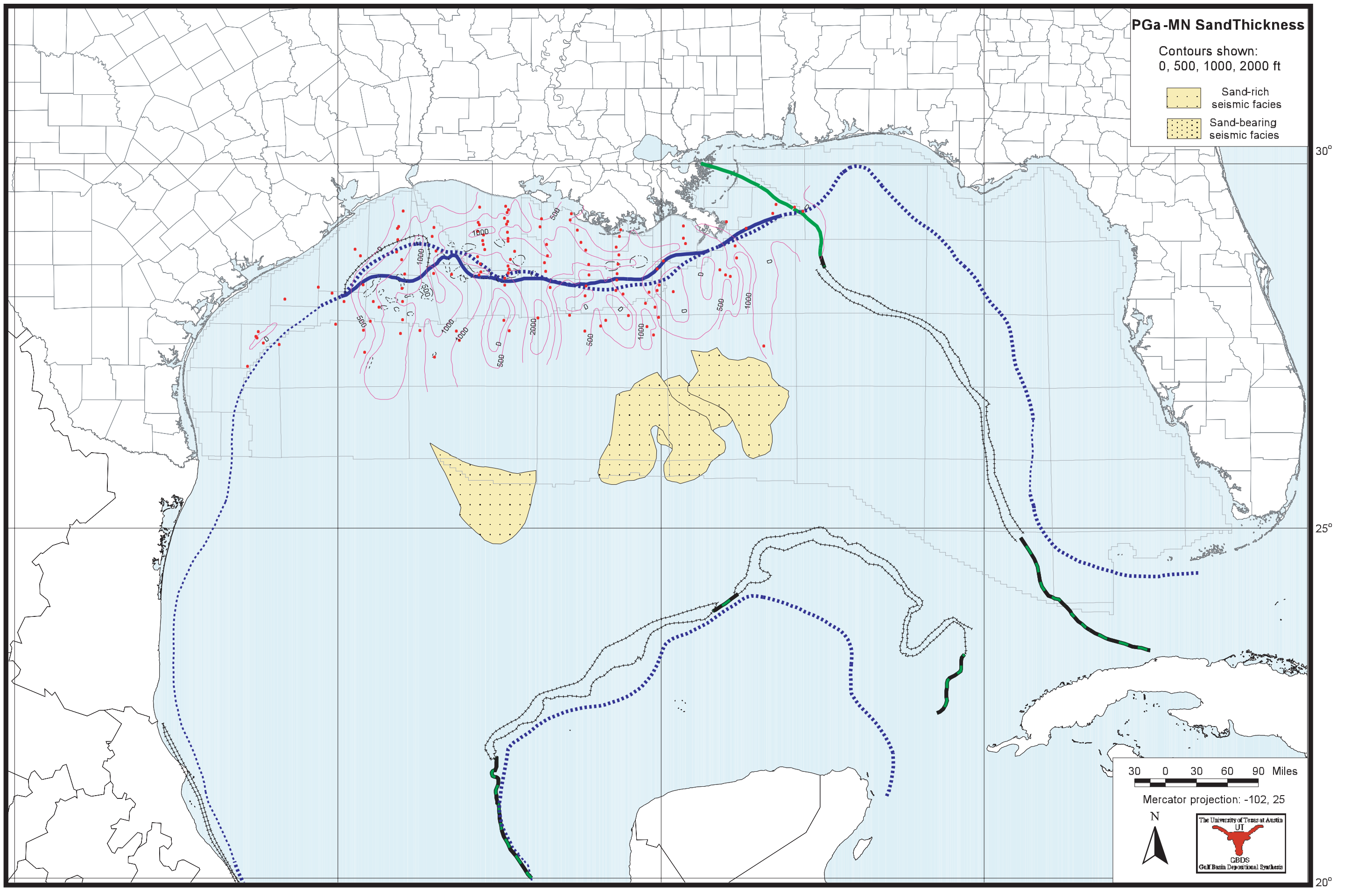


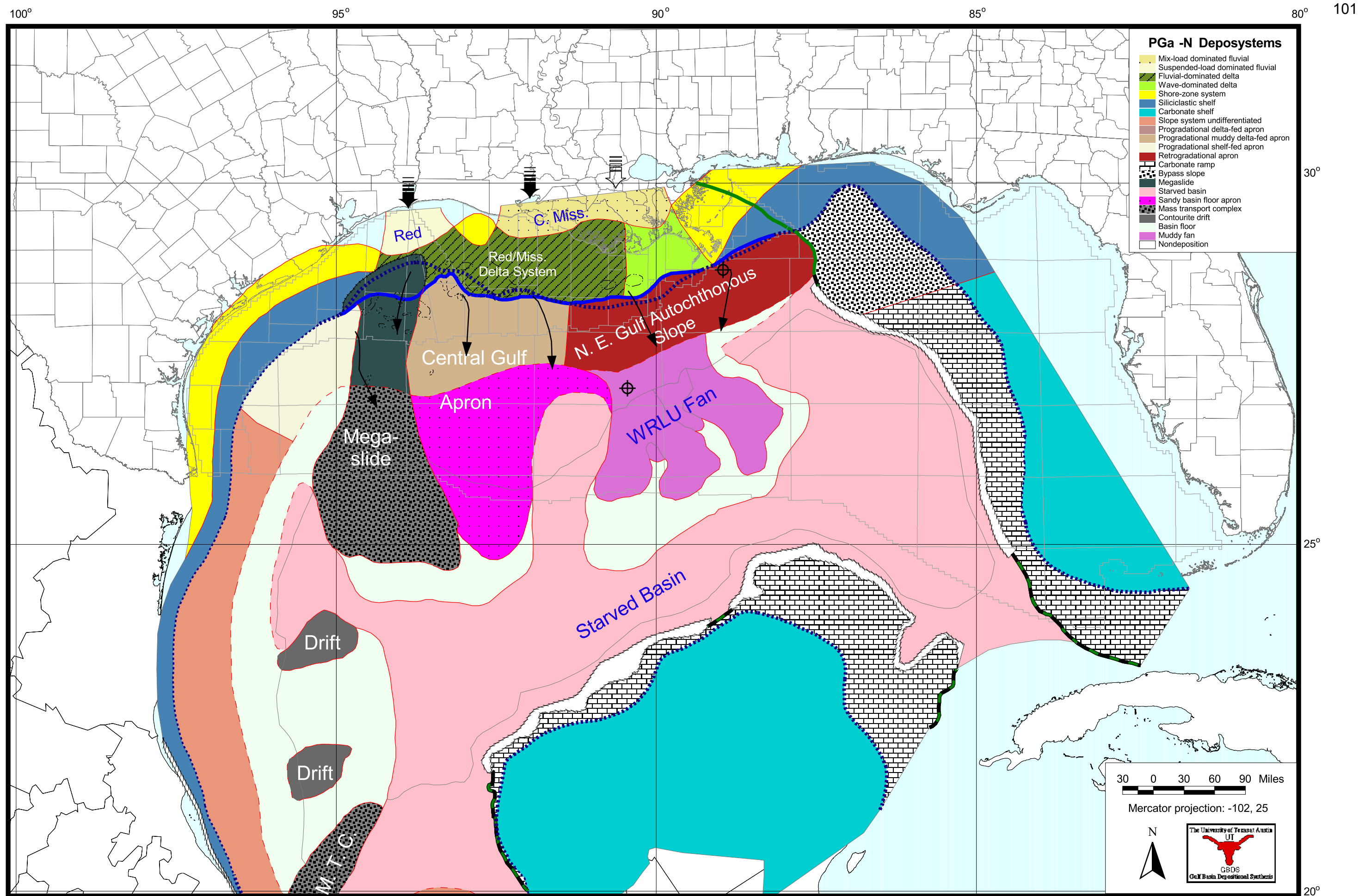
42. Deposystems, features, and paleogeography of the Lenticulina 1 (PL1-O) deposide.



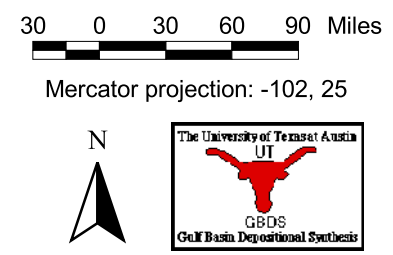
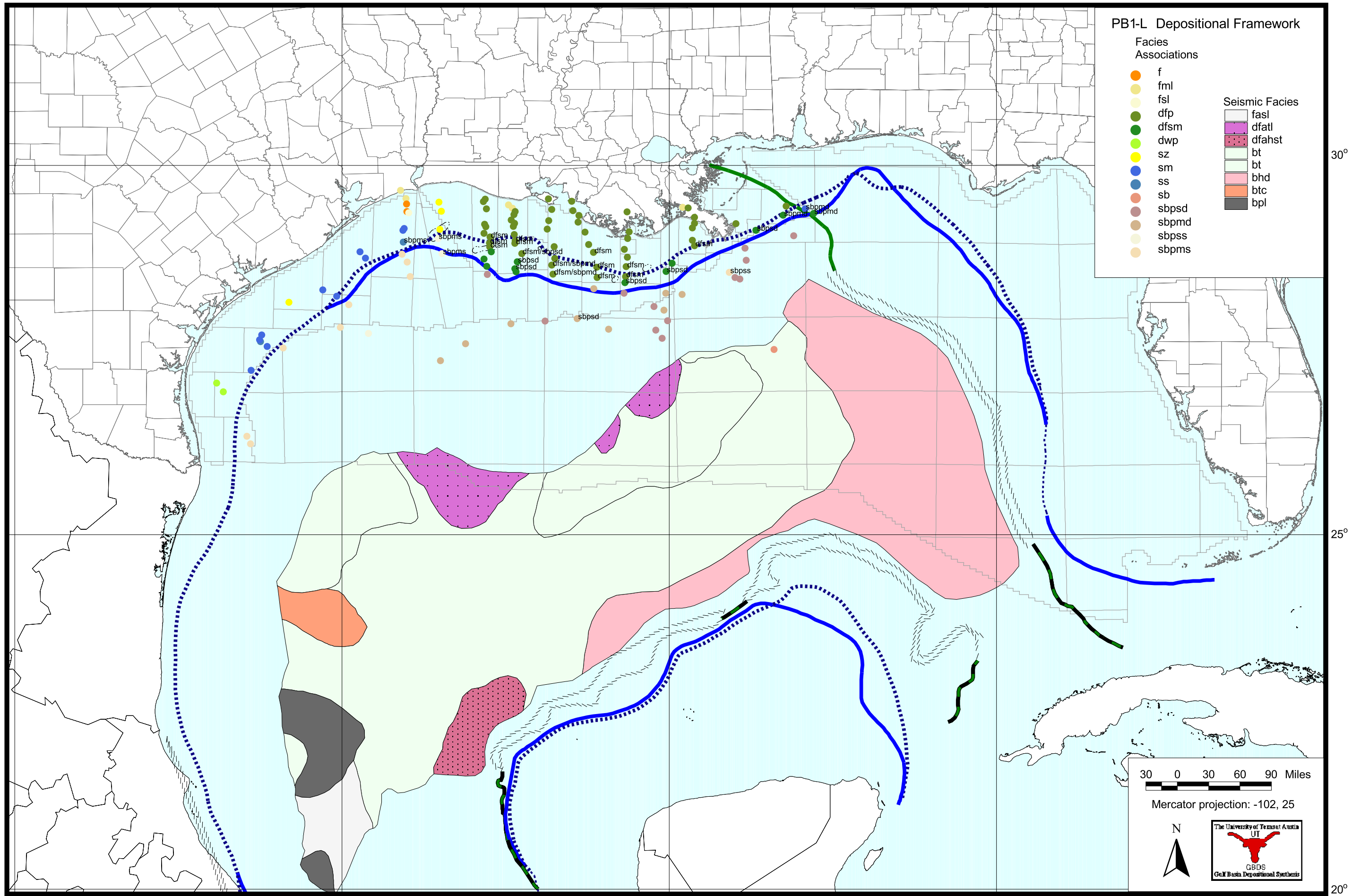


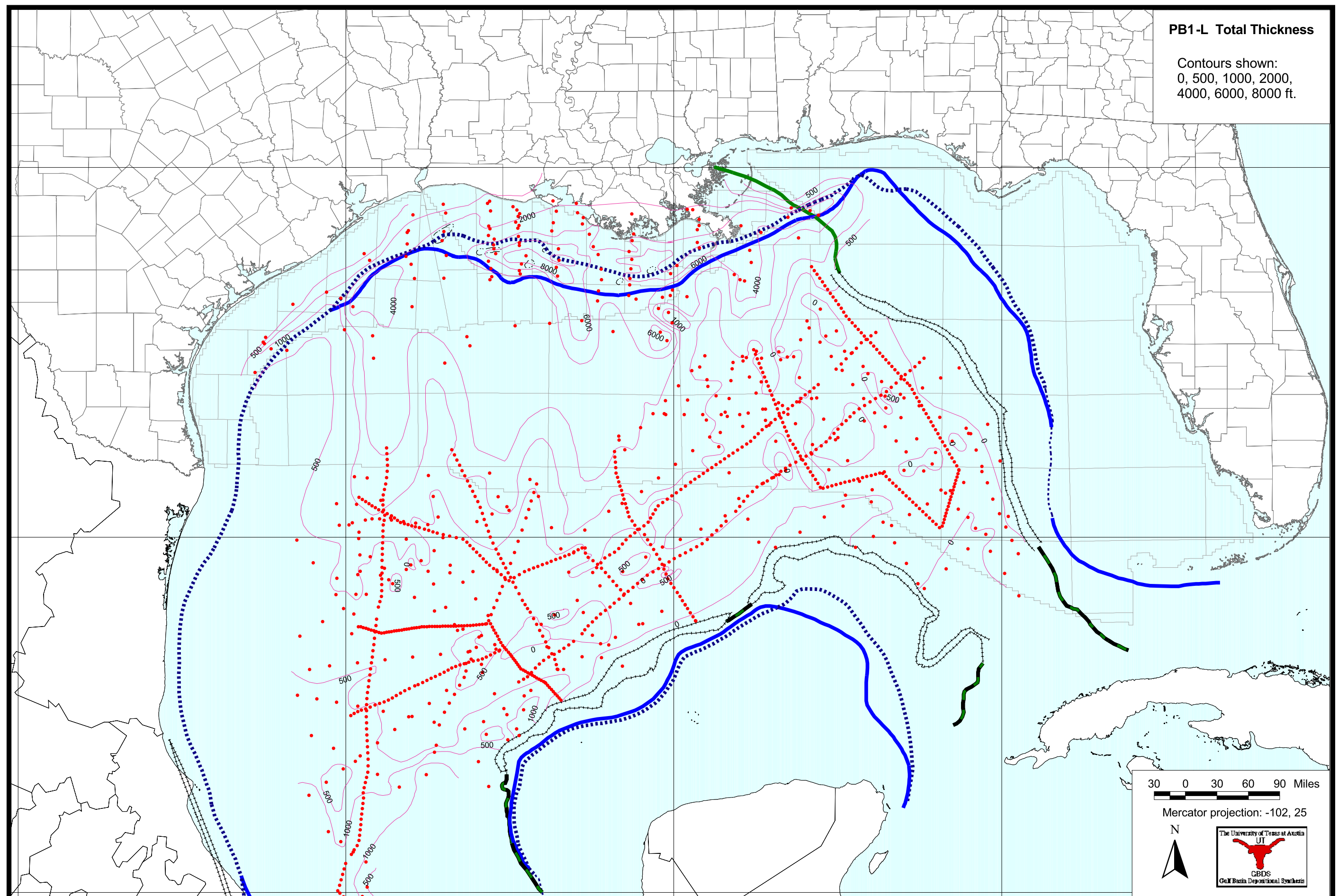






39. Deposystems, features, and paleogeography of the *Globoquadrina altispira* (PGa-N) depisode.





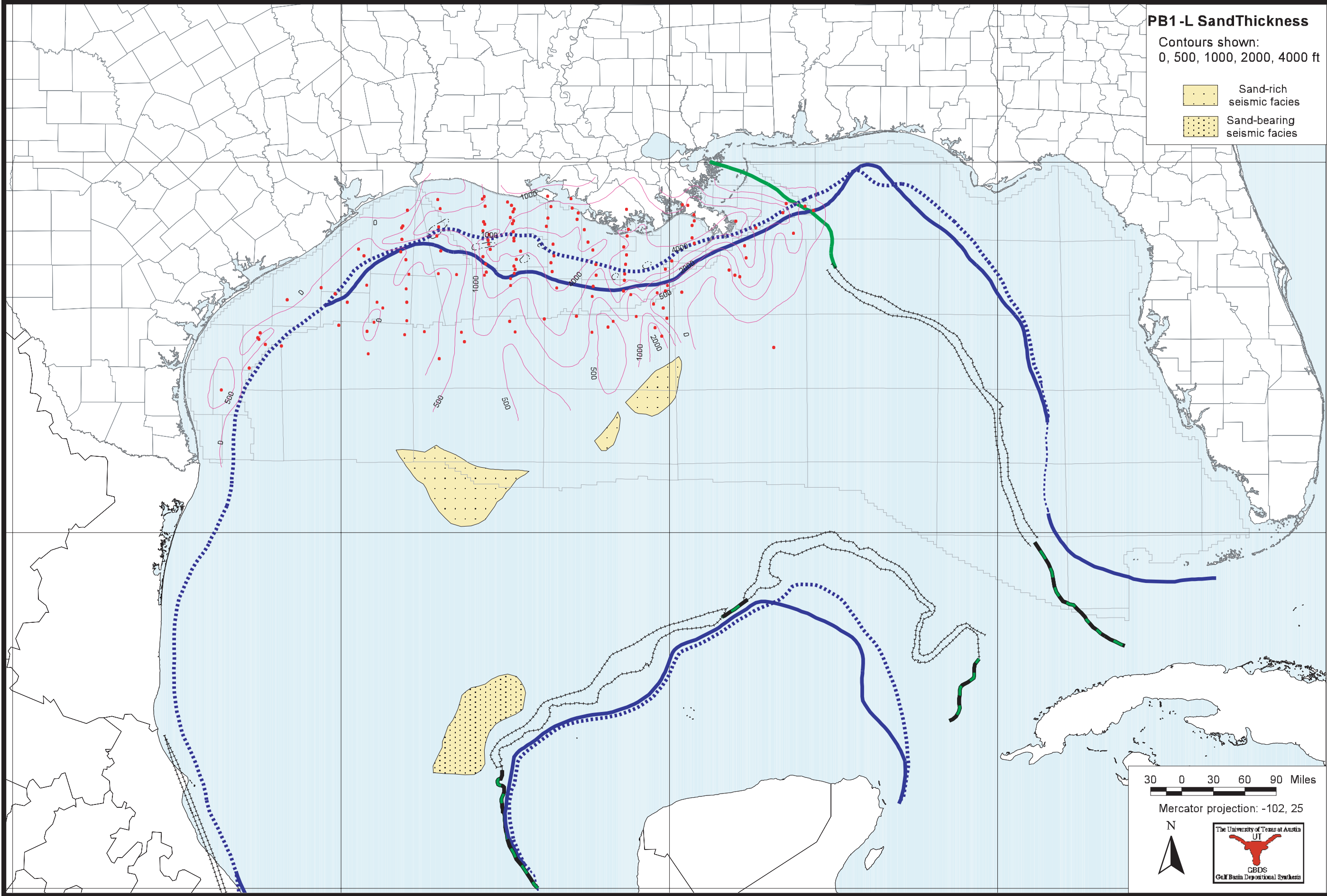
PB1-L Total Thickness

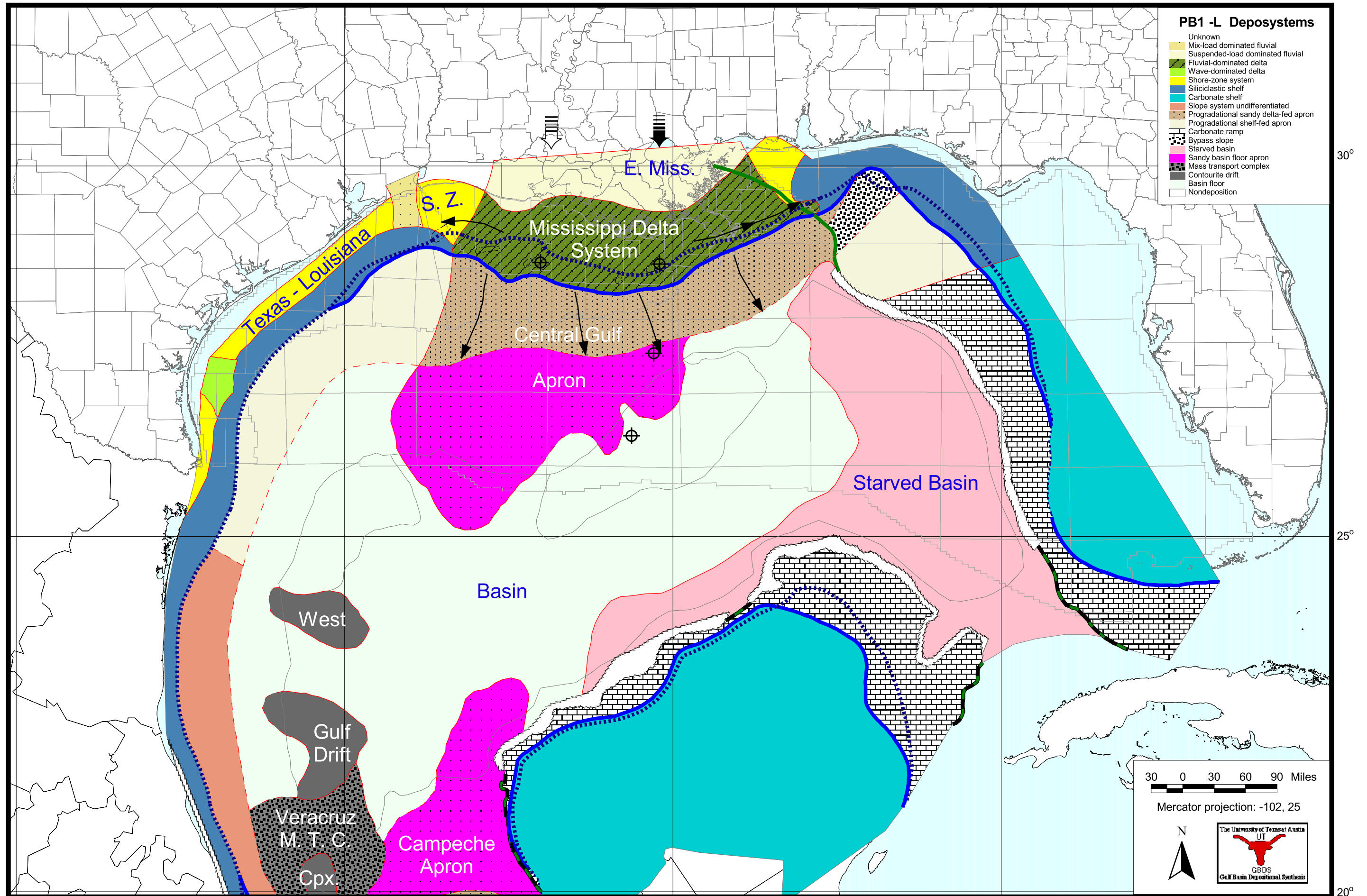
Contours shown:
0, 500, 1000, 2000,
4000, 6000, 8000 ft.

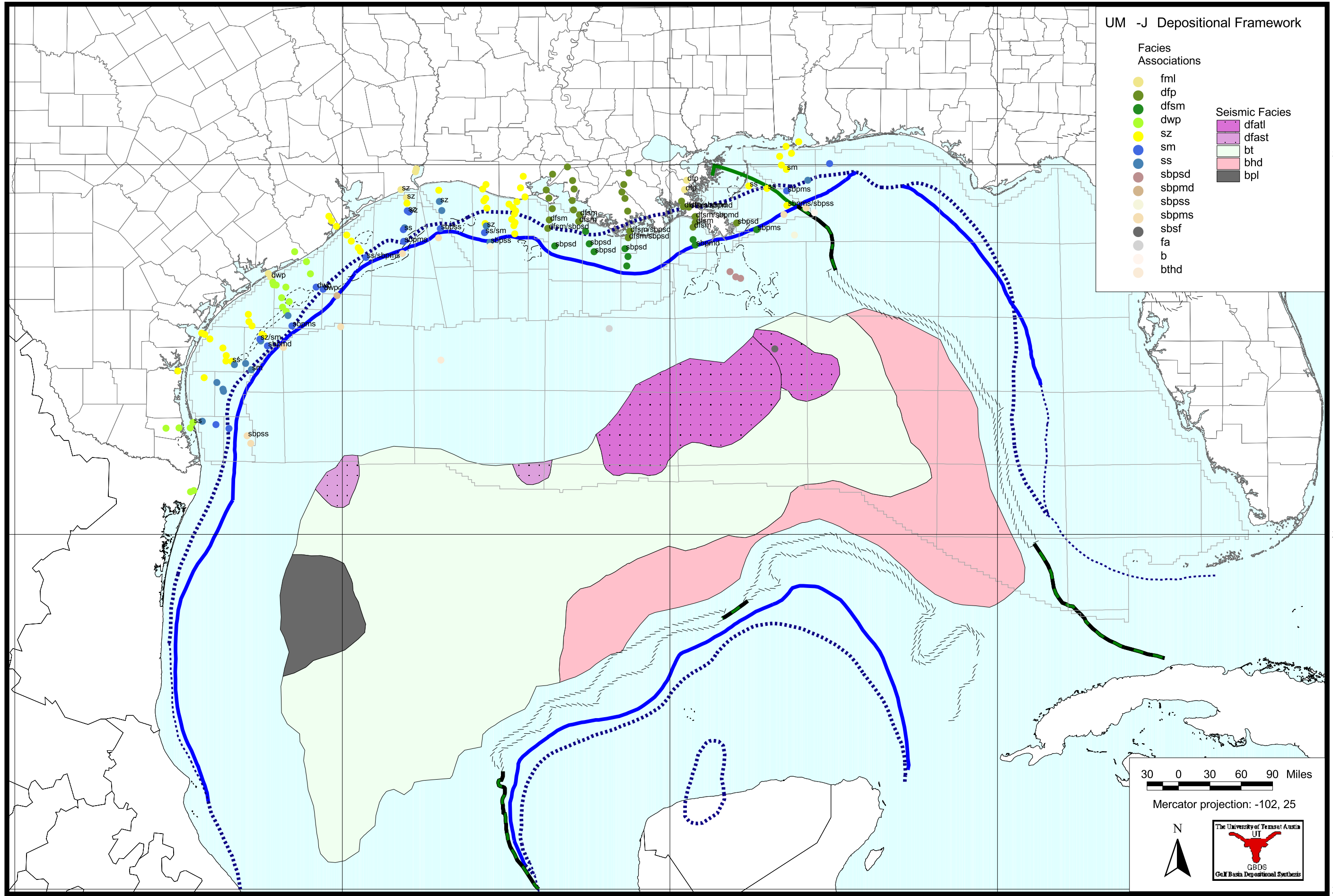
30 0 30 60 90 Miles

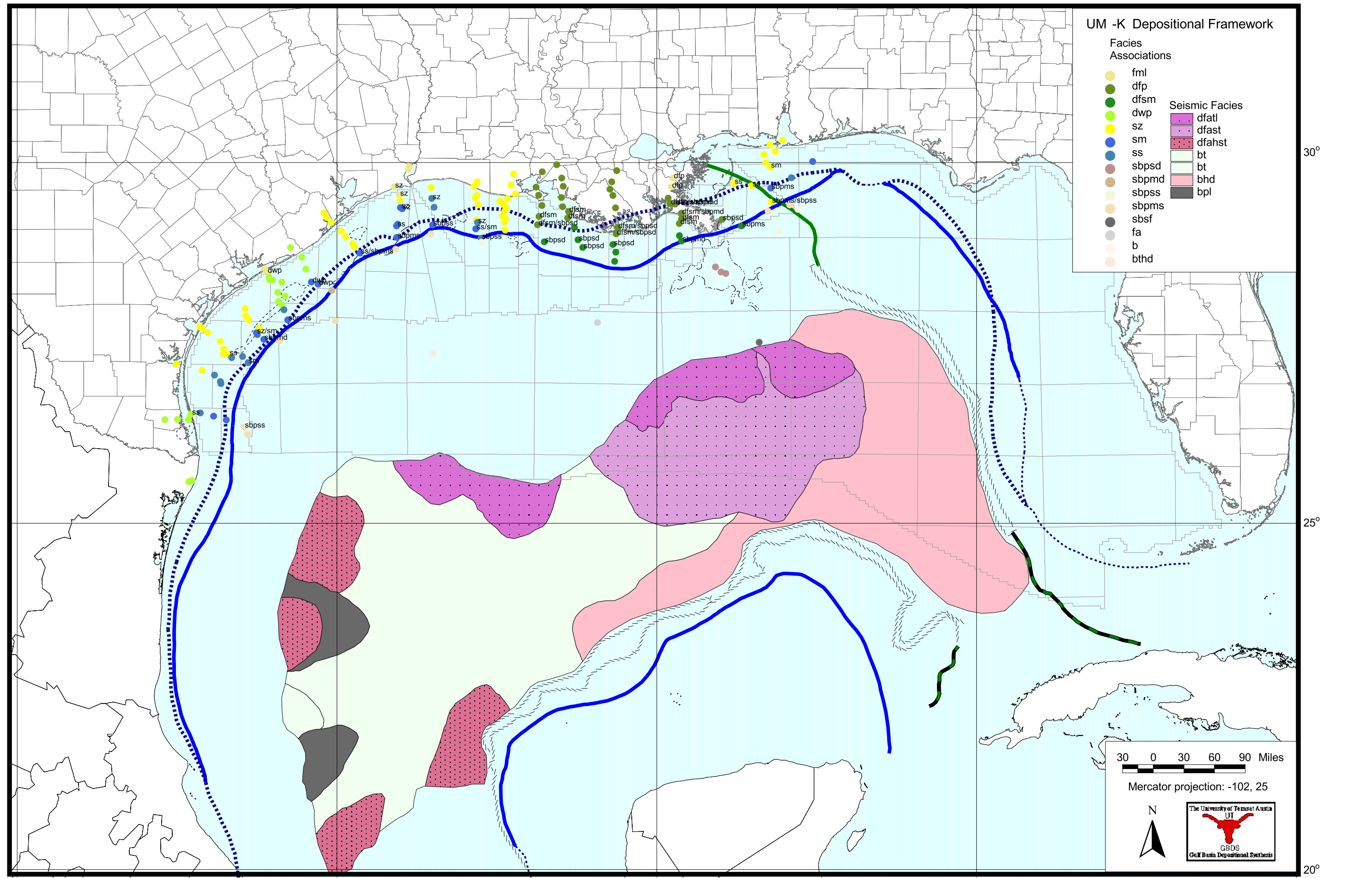
Mercator projection: -102, 25

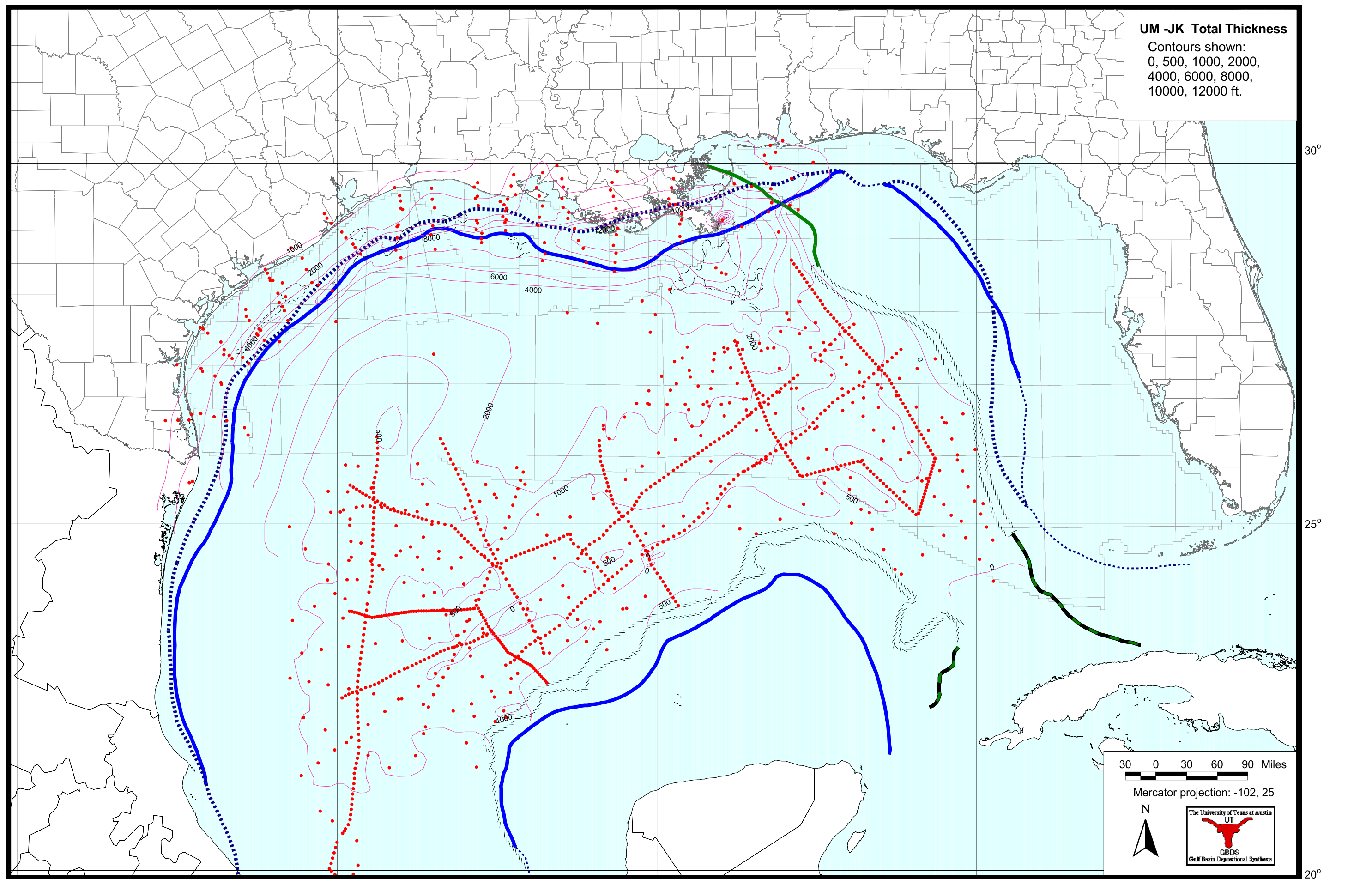


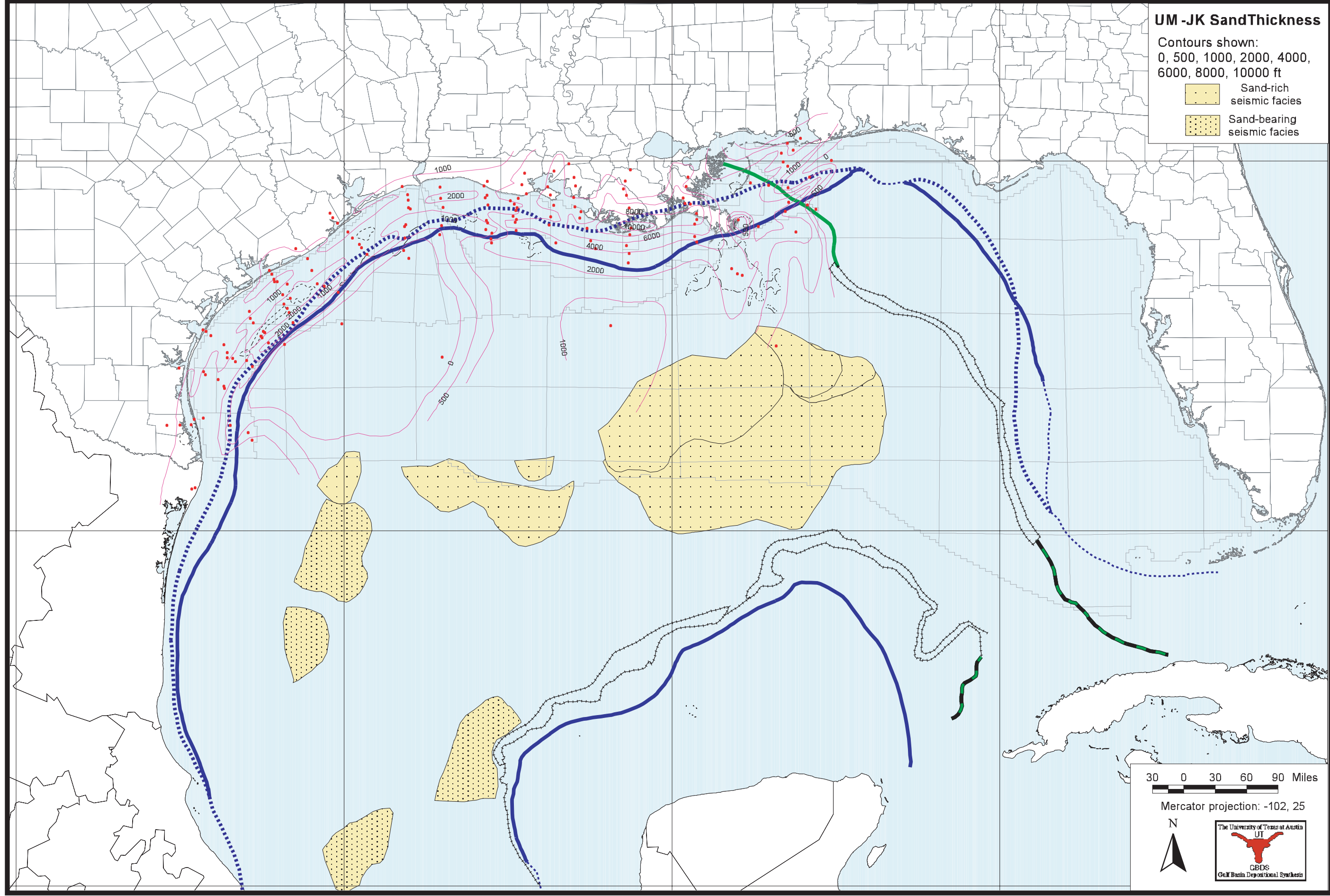












UM -JK SandThickness

Contours shown:
0, 500, 1000, 2000, 4000,
6000, 8000, 10000 ft

Sand-rich seismic facies

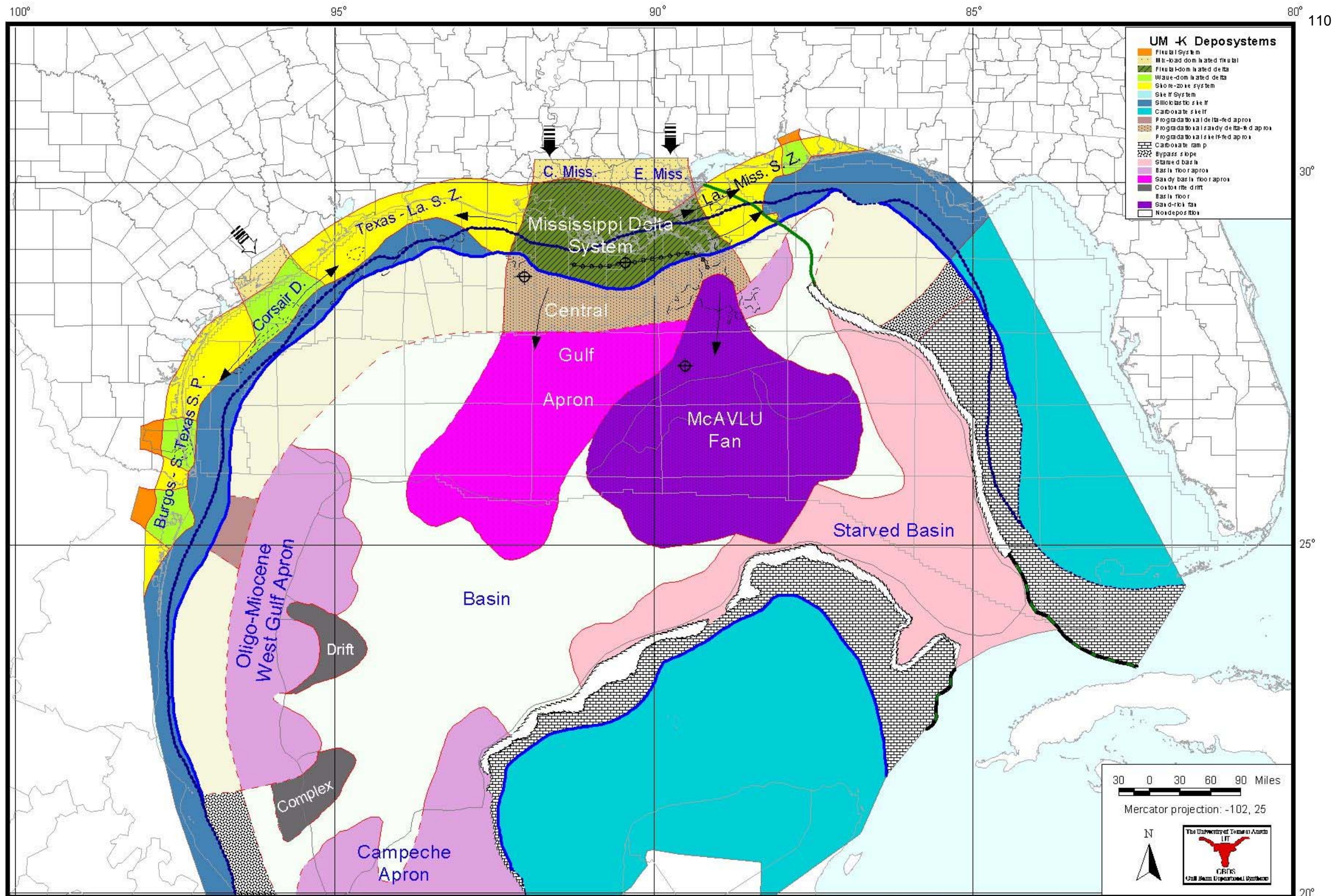
Sand-bearing seismic facies

30 0 30 60 90 Miles

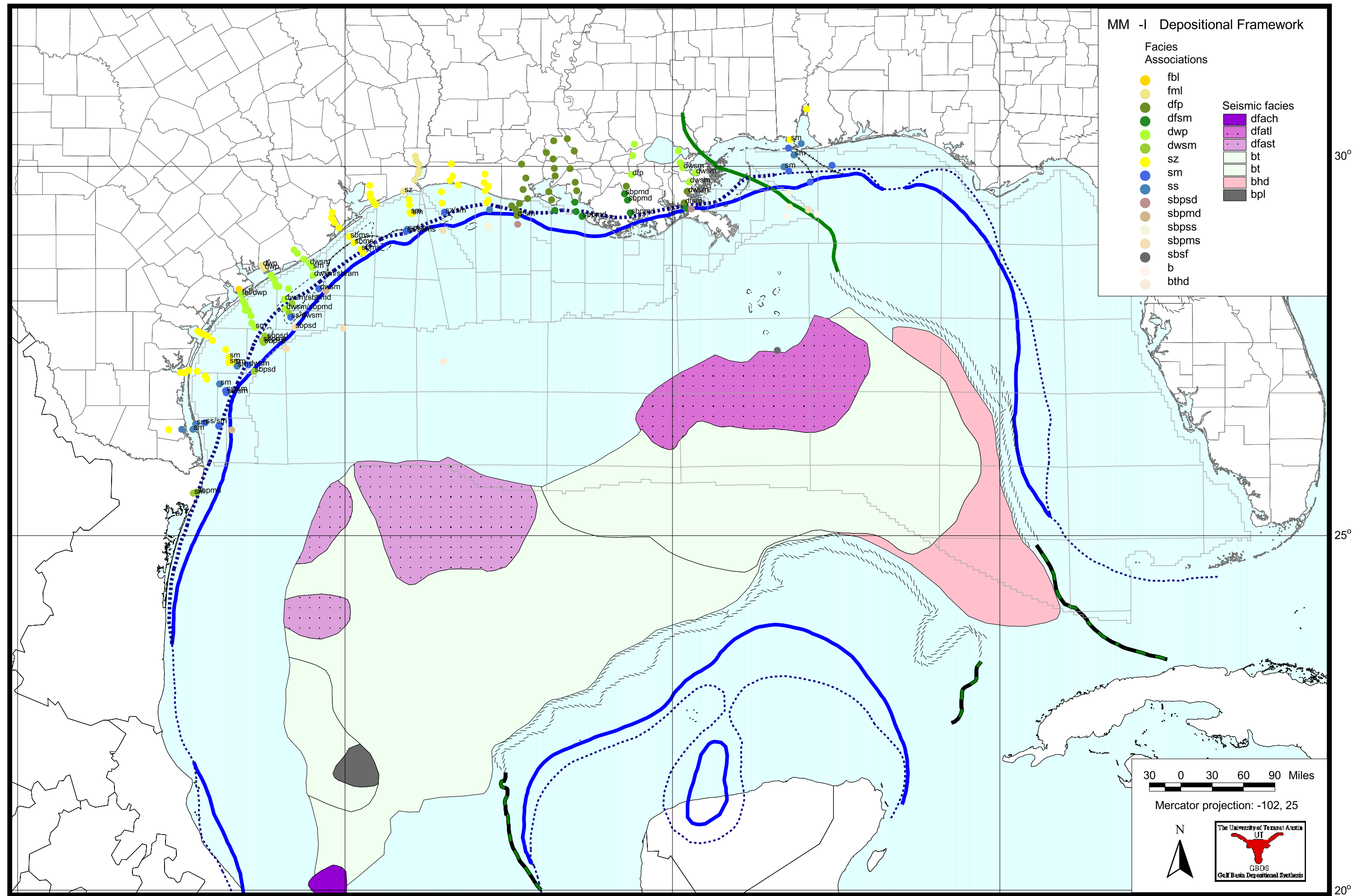
Mercator projection: -102, 25

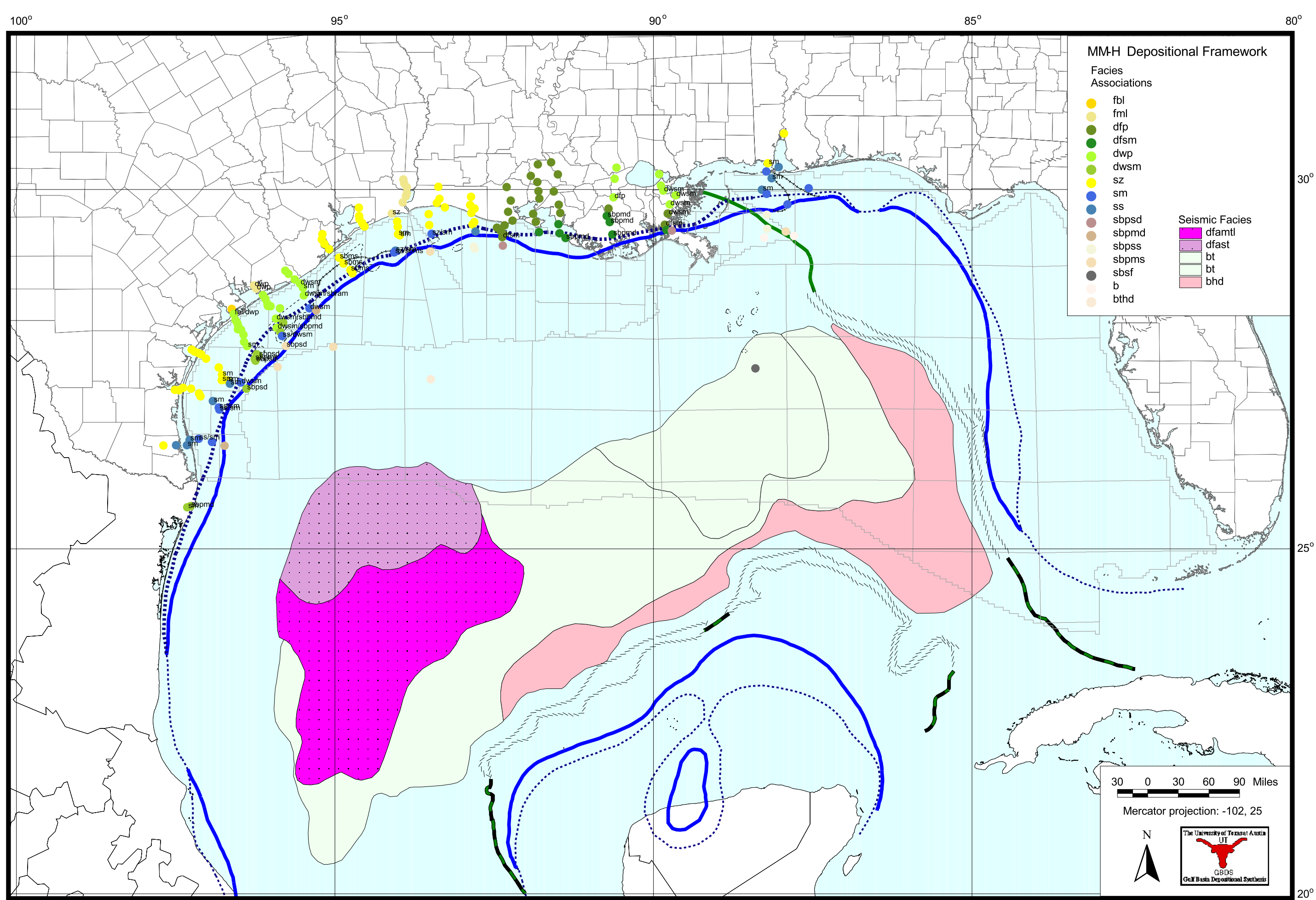
N

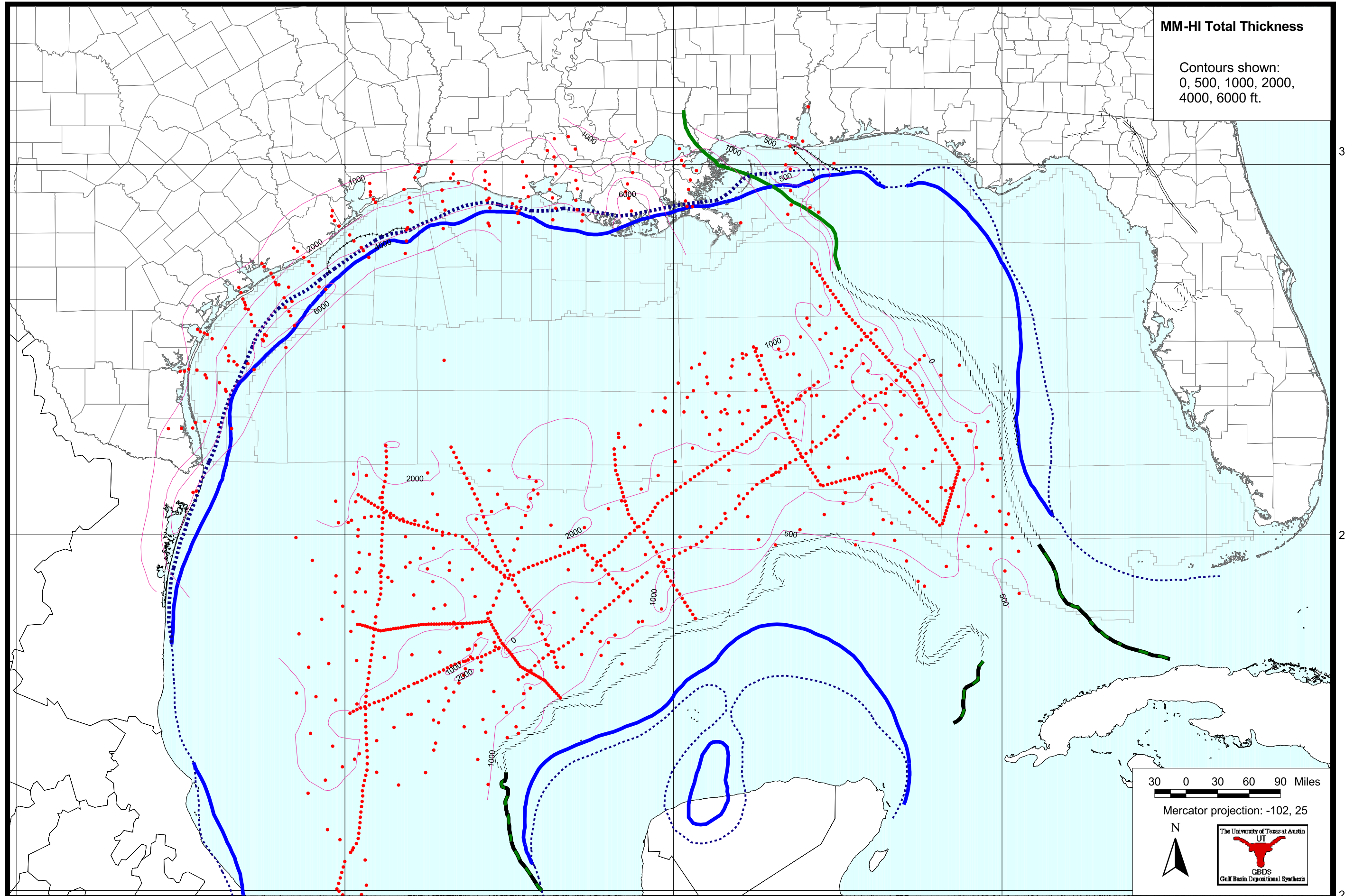
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UT
GBDS
Gulf Basin Depositional Synthesis

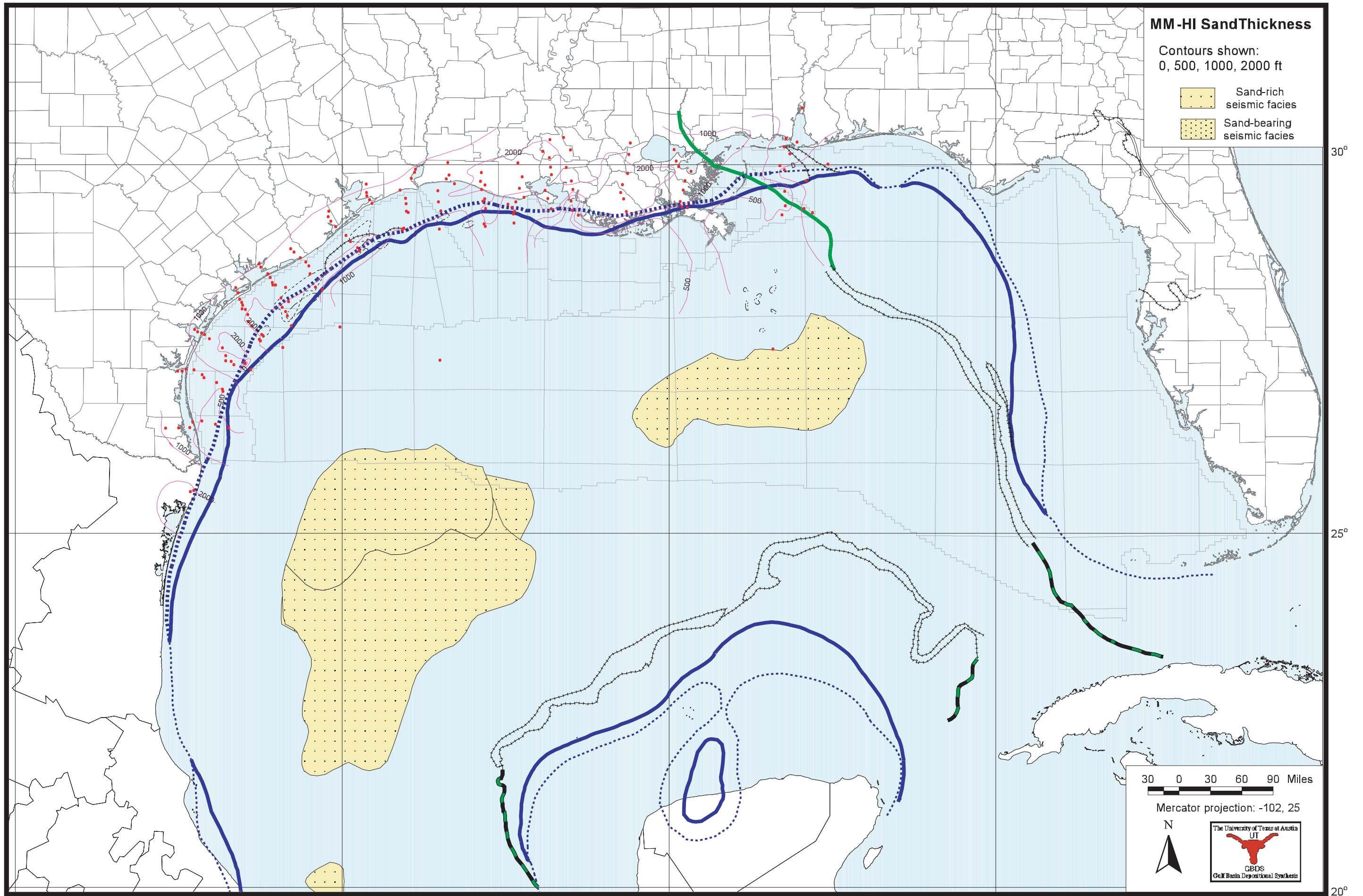


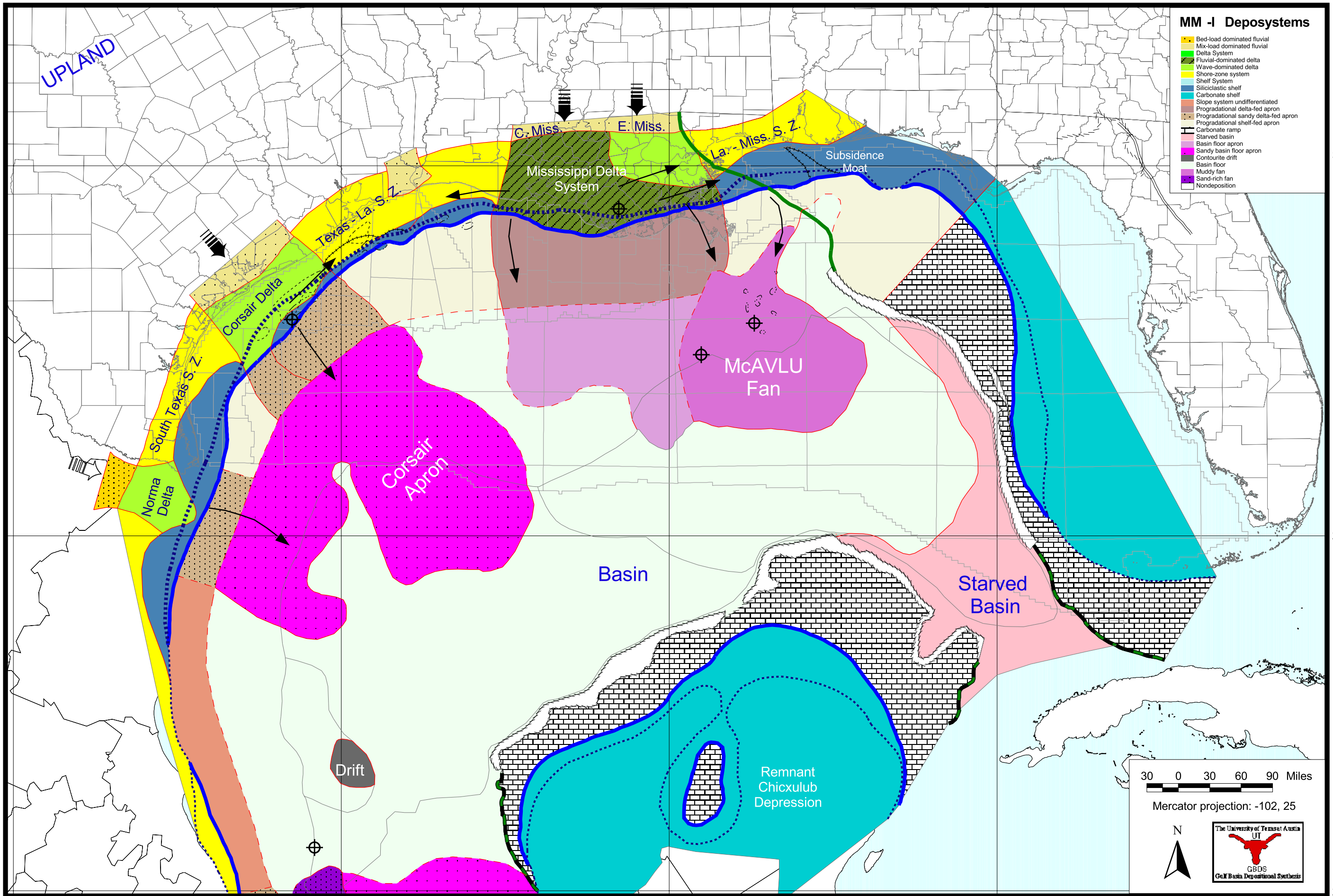
33. Deposystems, features, and paleogeography of the upper Miocene (UM-K) depisode.











MM -I Deposystems

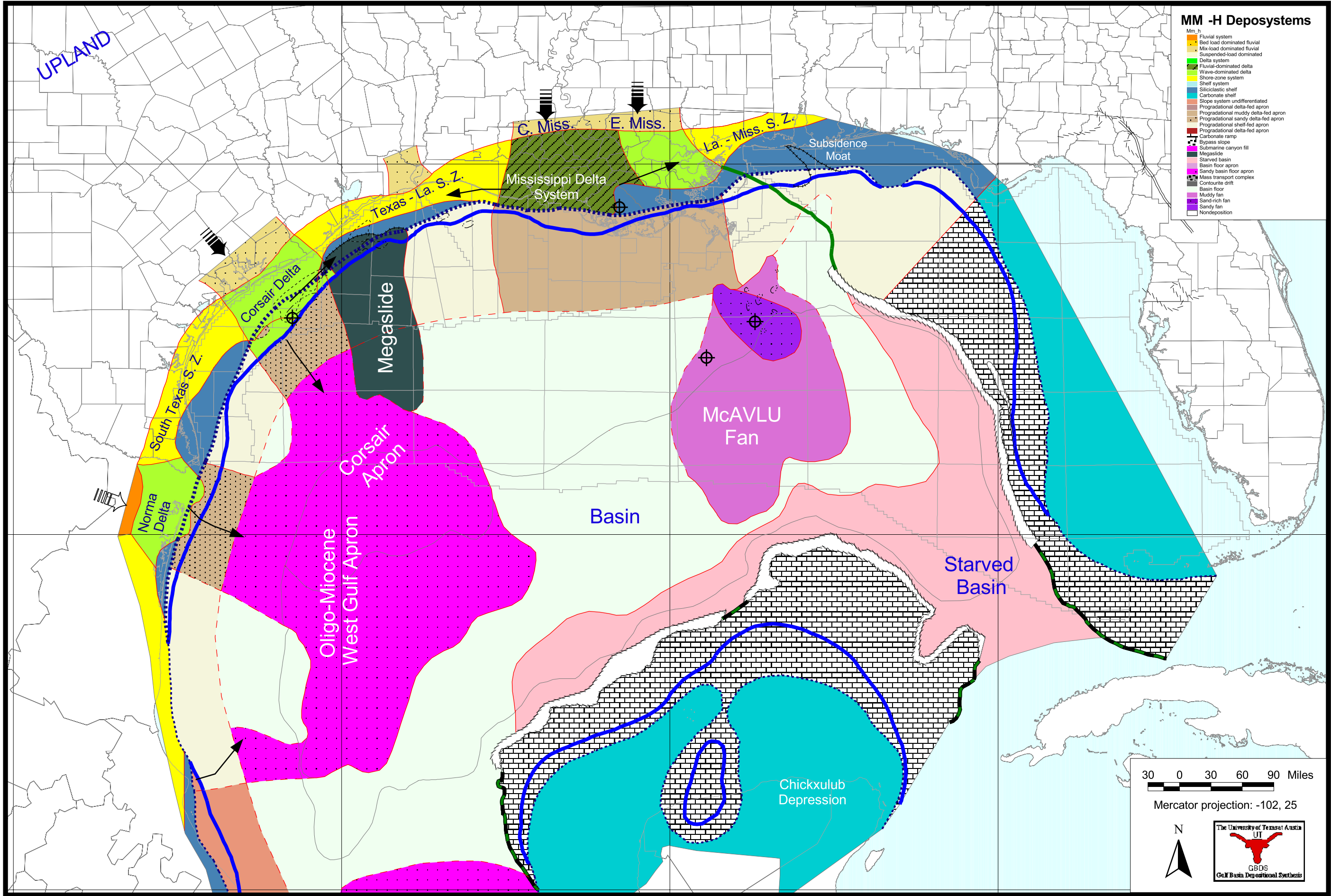
- Bed-load dominated fluvial
- Mix-load dominated fluvial
- Delta System
- Fluvial-dominated delta
- Wave-dominated delta
- Shore-zone system
- Shelf System
- Siliciclastic shelf
- Carbonate shelf
- Slope system undifferentiated
- Progradational delta-fed apron
- Progradational sandy delta-fed apron
- Progradational shelf-fed apron
- Carbonate ramp
- Starved basin
- Basin floor apron
- Sandy basin floor apron
- Contourite drift
- Basin floor
- Muddy fan
- Sand-rich fan
- Nondeposition

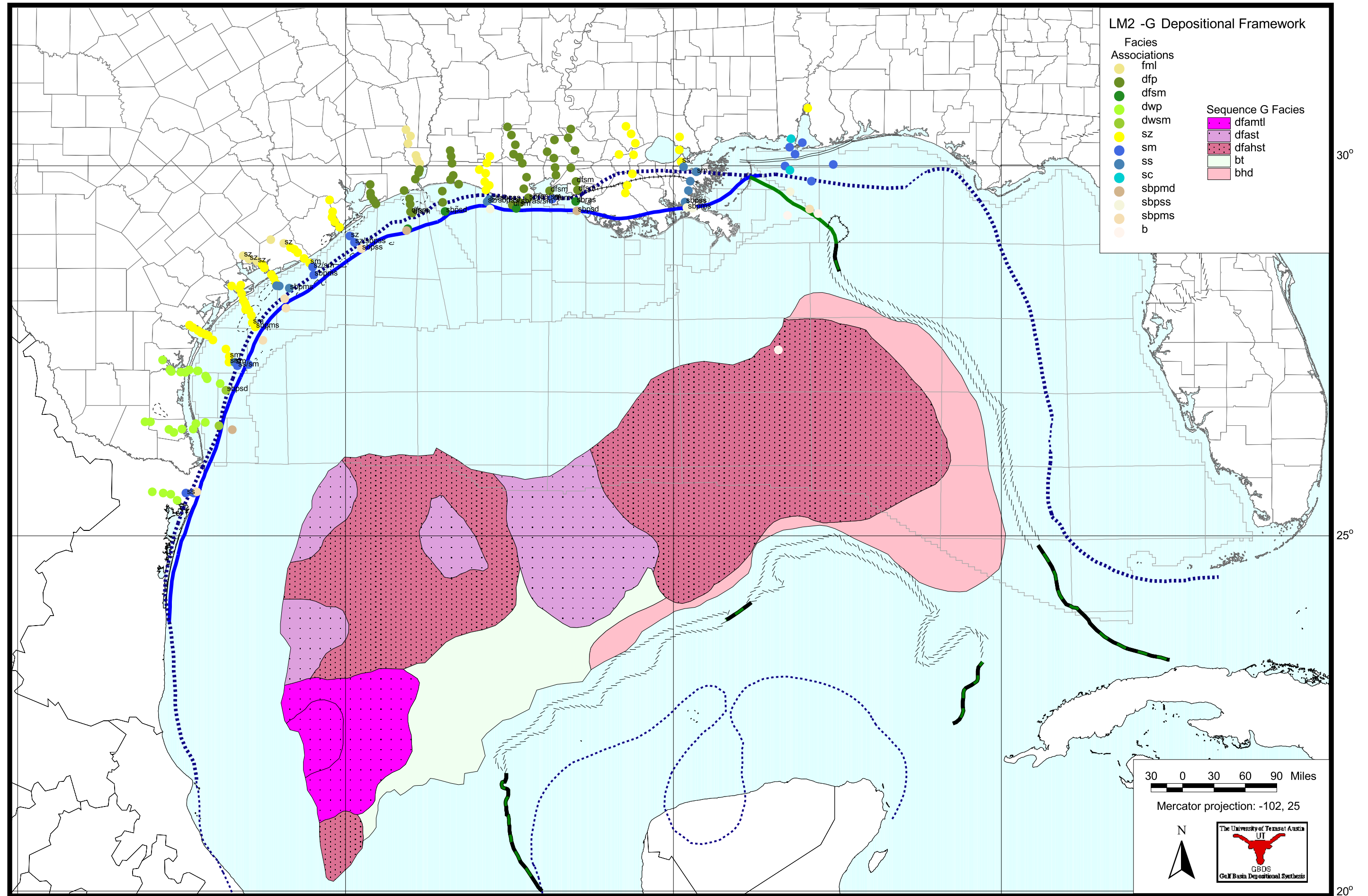
30 0 30 60 90 Miles

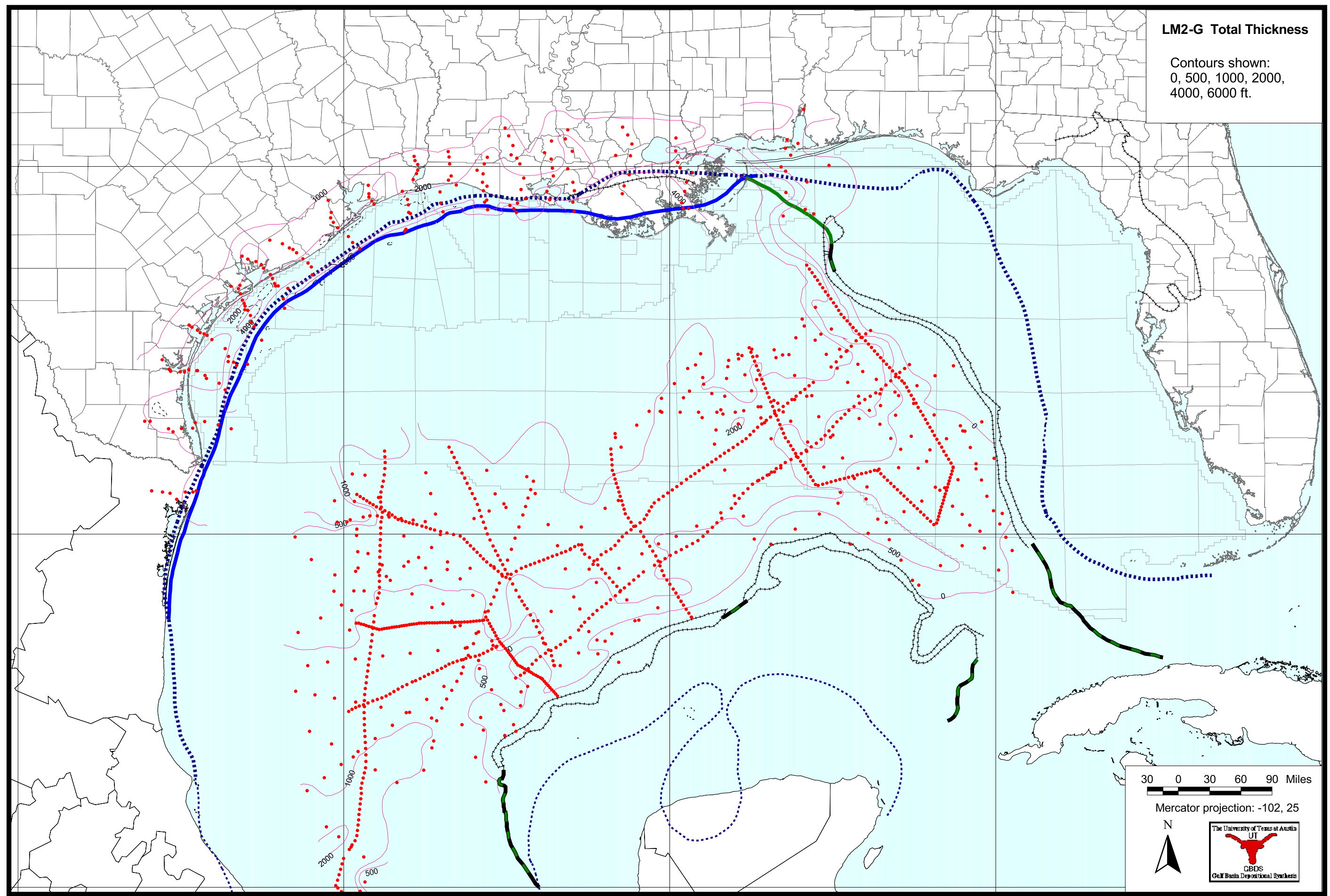
Mercator projection: -102, 25



GBDS
Gulf Basin Depositional Synthesis



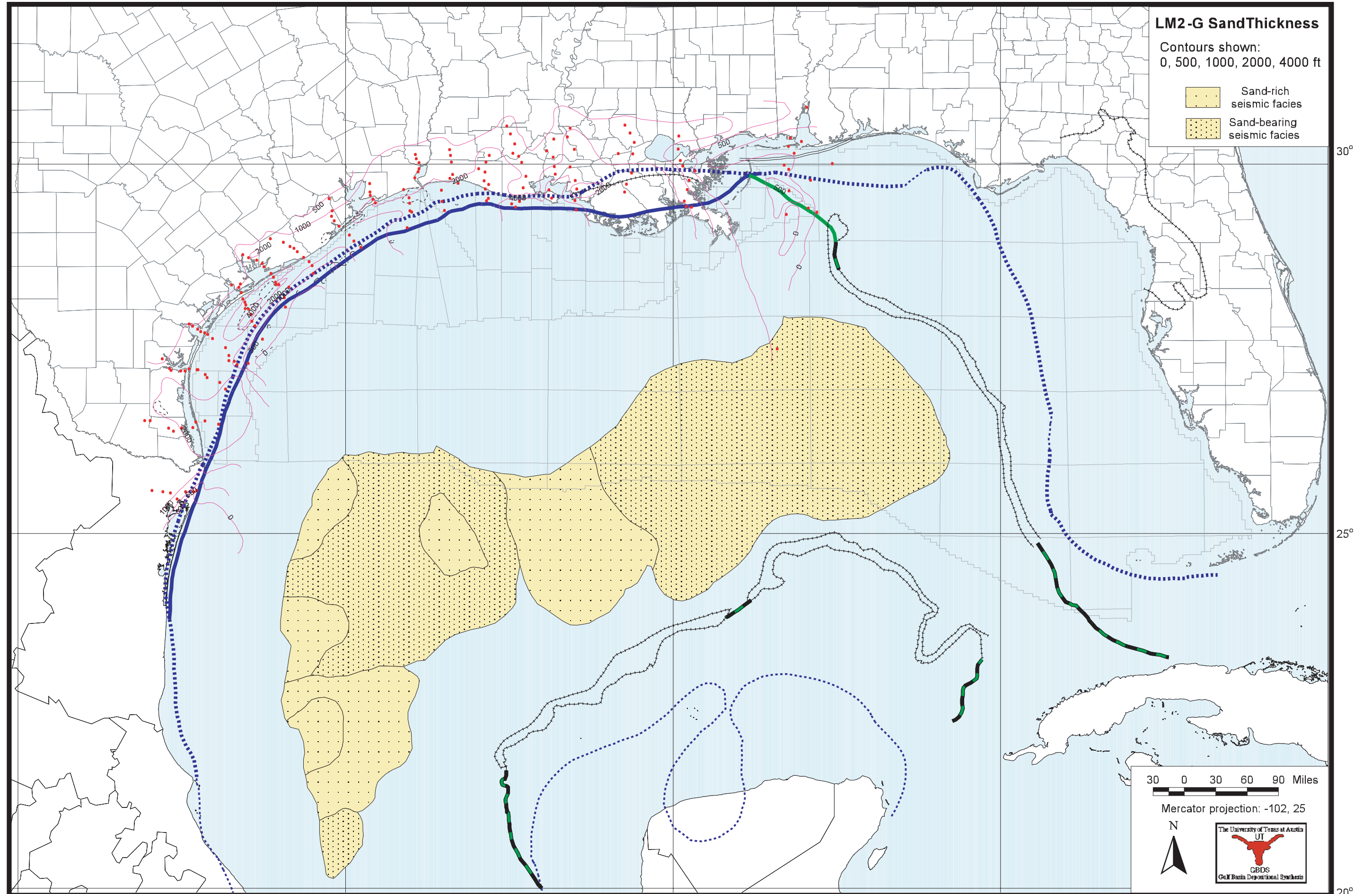


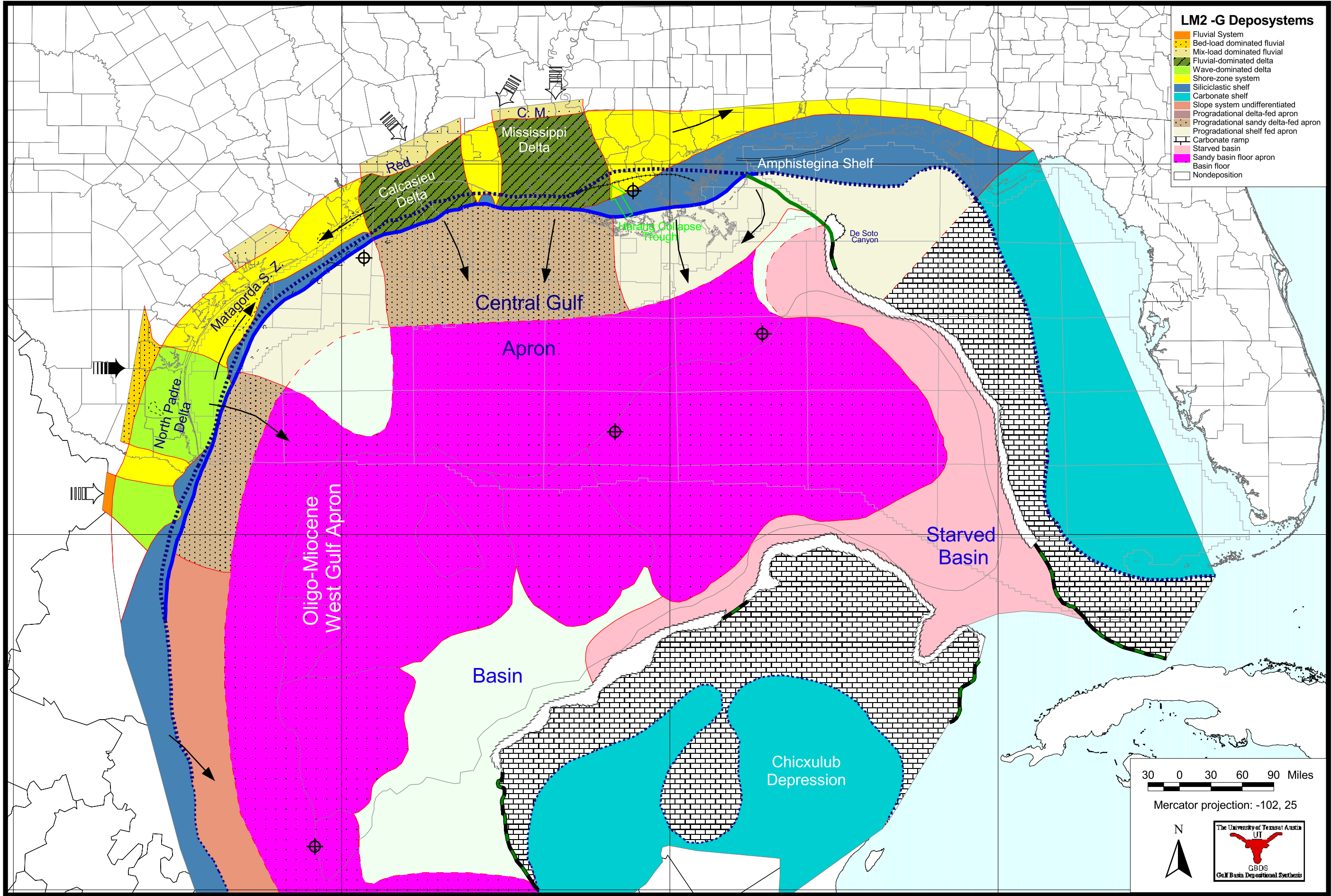


30 0 30 60 90 Miles

Mercator projection: -102, 25







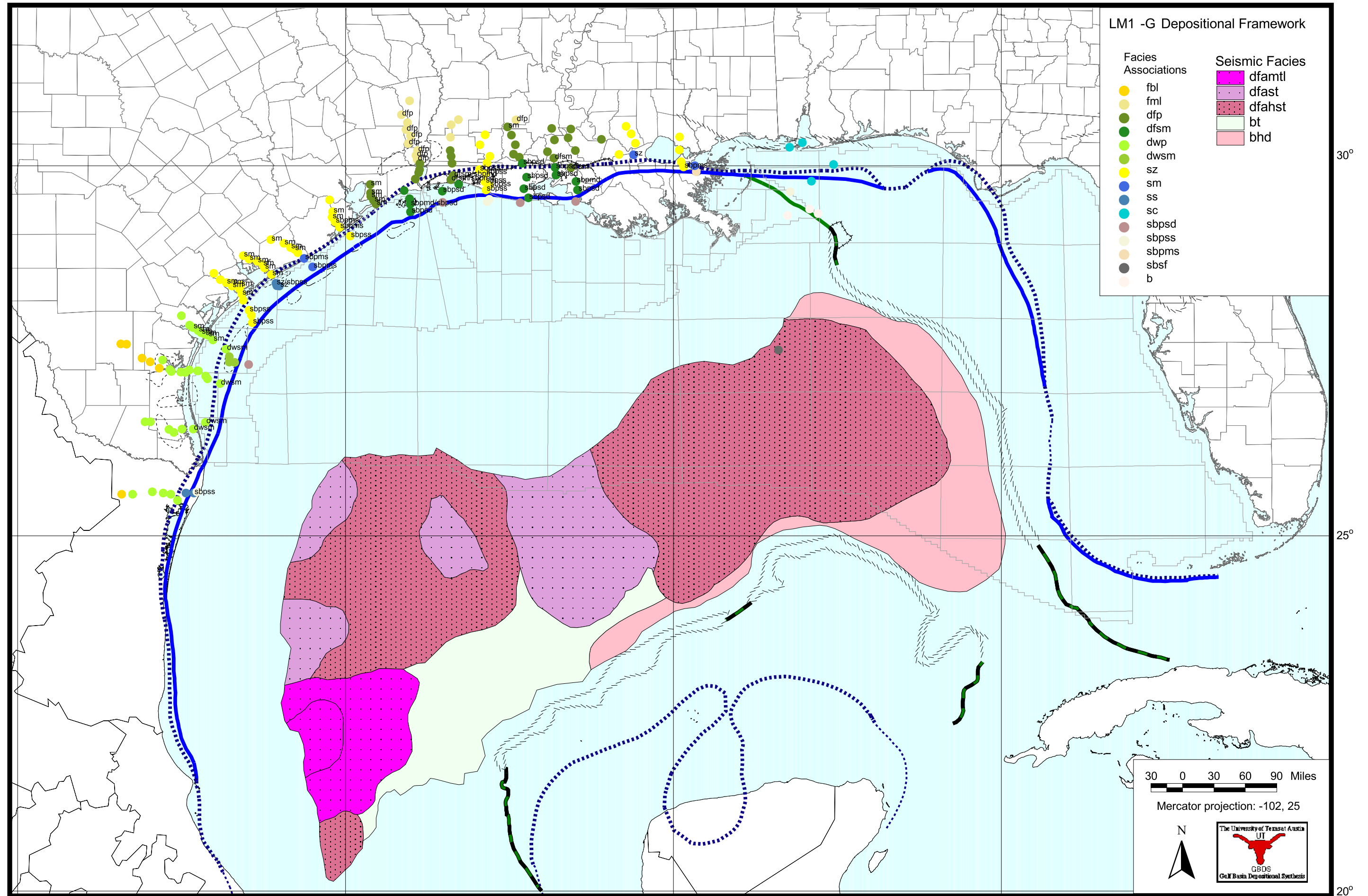
LM2 -G Deposystems

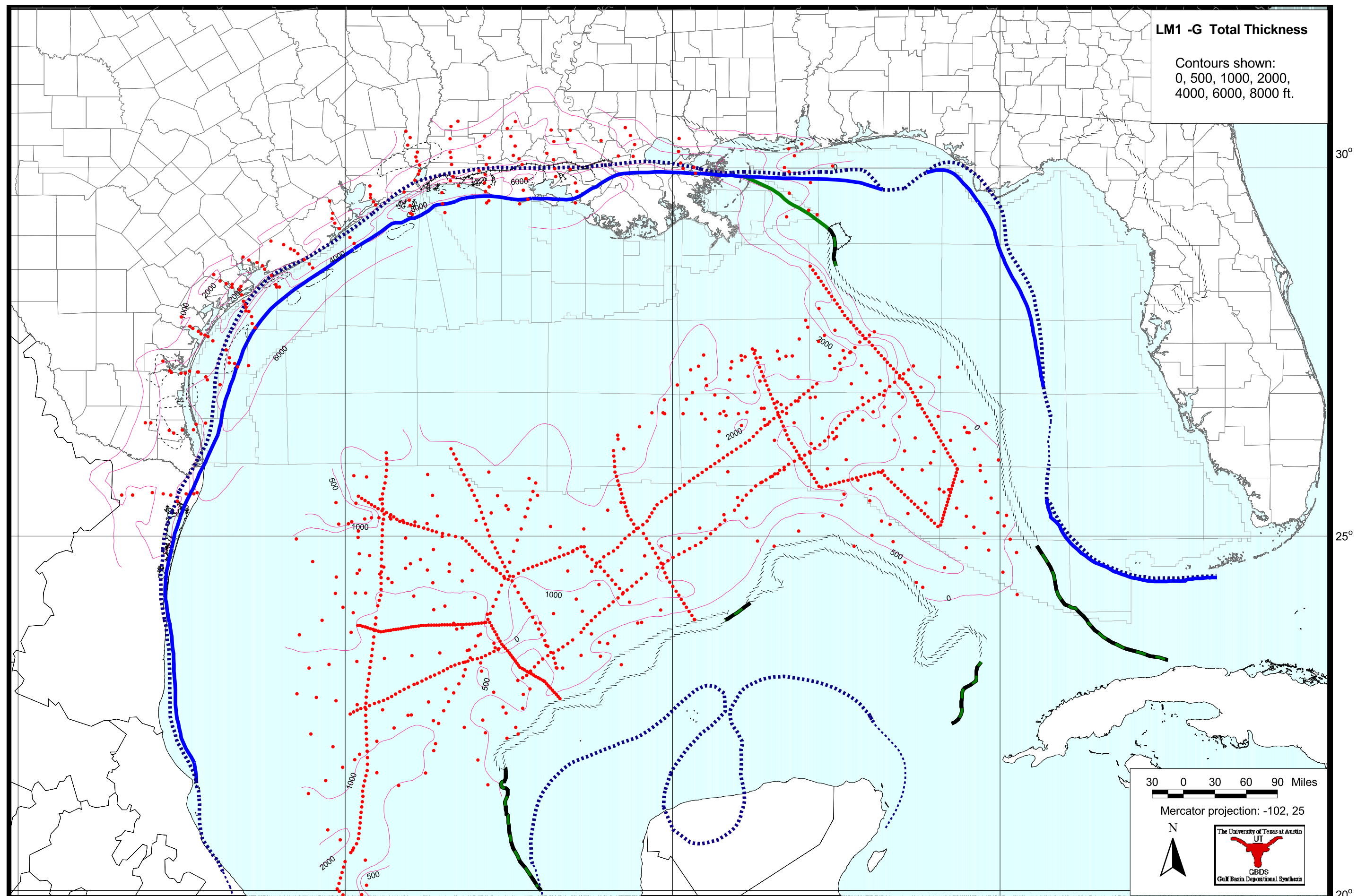
- Fluvial System
- Bed-load dominated fluvial
- Mix-load dominated fluvial
- Fluvial-dominated delta
- Wave-dominated delta
- Shore-zone system
- Siliciclastic shelf
- Carbonate shelf
- Slope system undifferentiated
- Progradational delta-fed apron
- Progradational sandy delta-fed apron
- Progradational shelf fed apron
- Carbonate ramp
- Starved basin
- Sandy basin floor apron
- Basin floor
- Nondeposition

30 0 30 60 90 Miles

Mercator projection: -102, 25



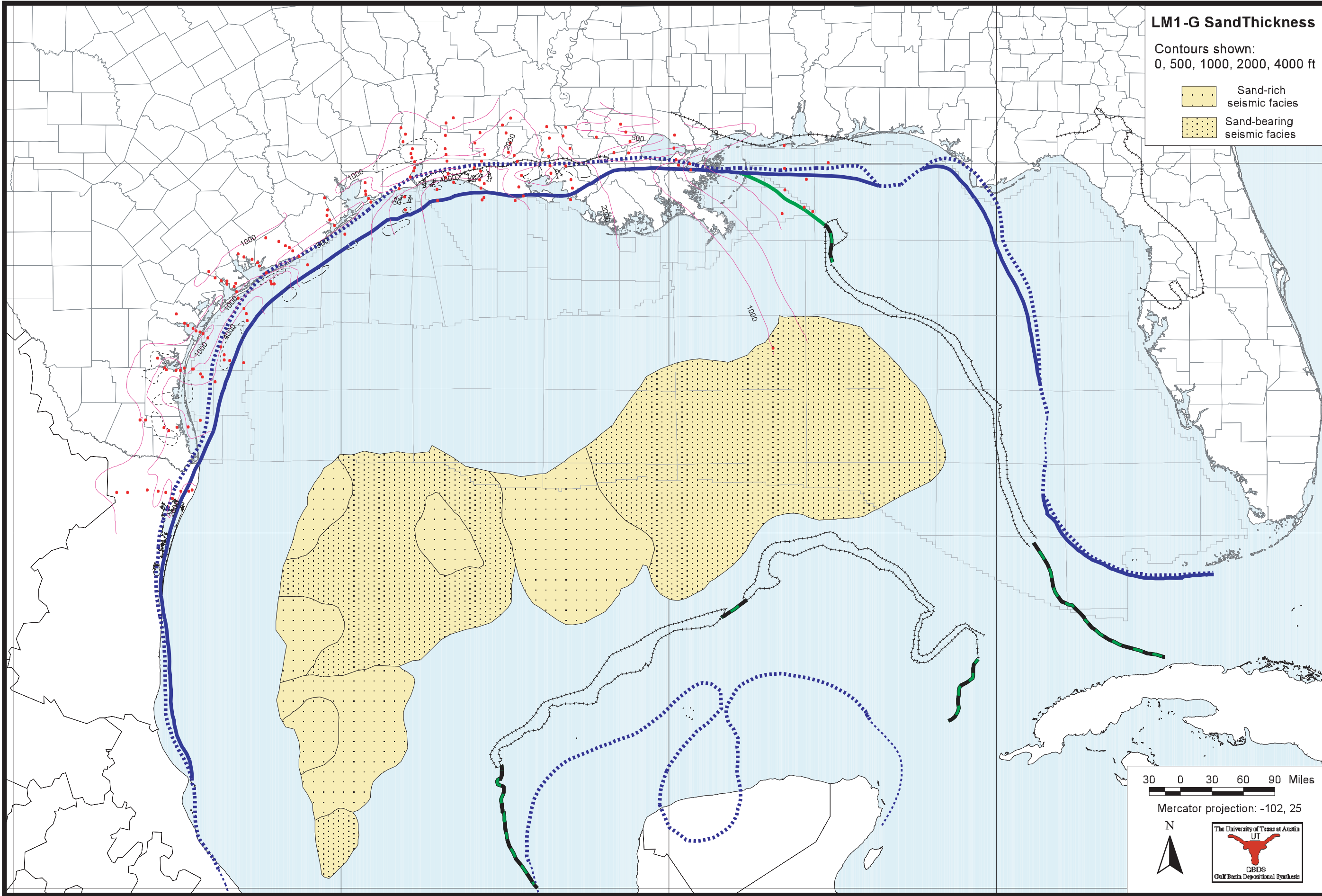




LM1-G SandThickness

Contours shown:
0, 500, 1000, 2000, 4000 ft

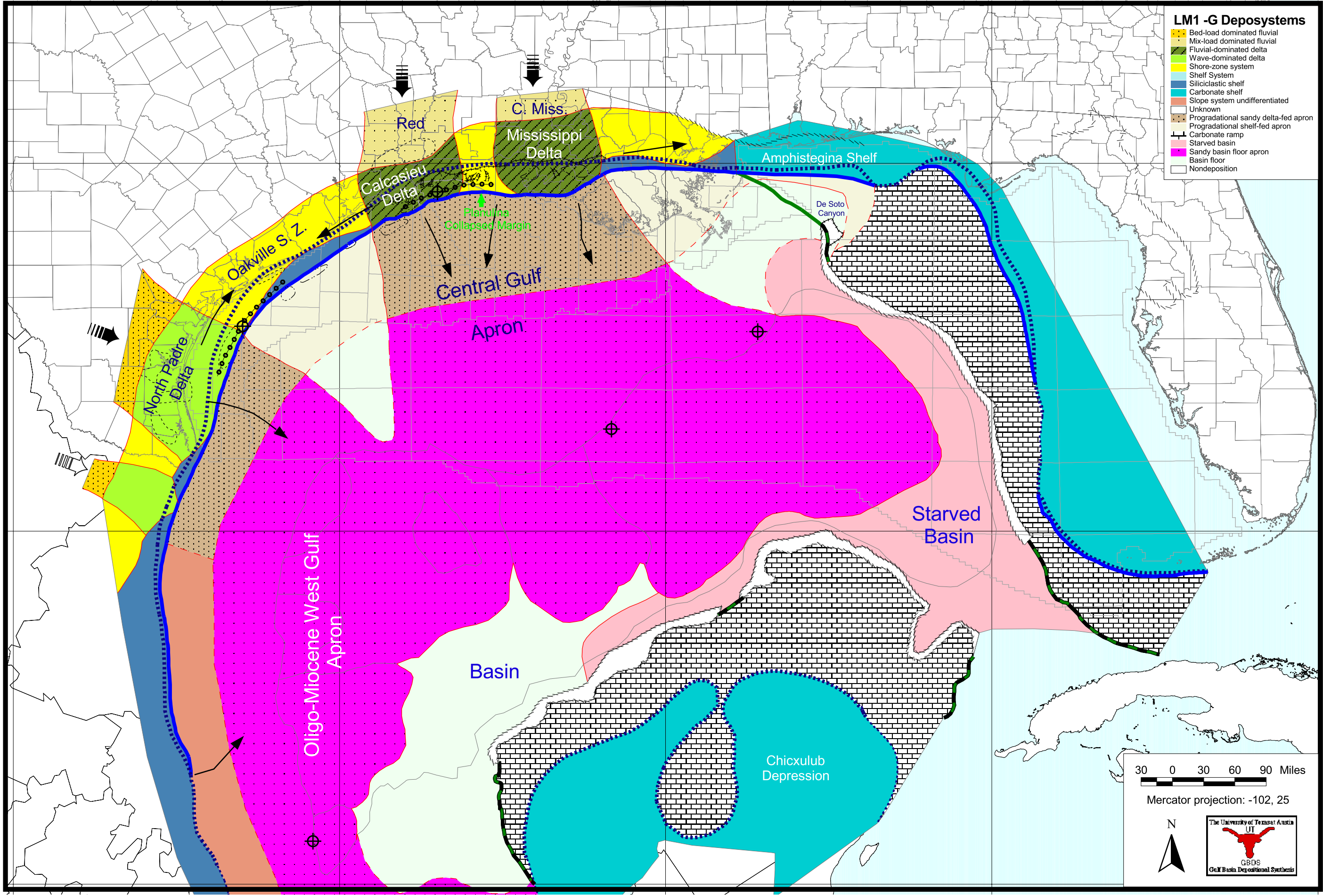
-  Sand-rich seismic facies
-  Sand-bearing seismic facies

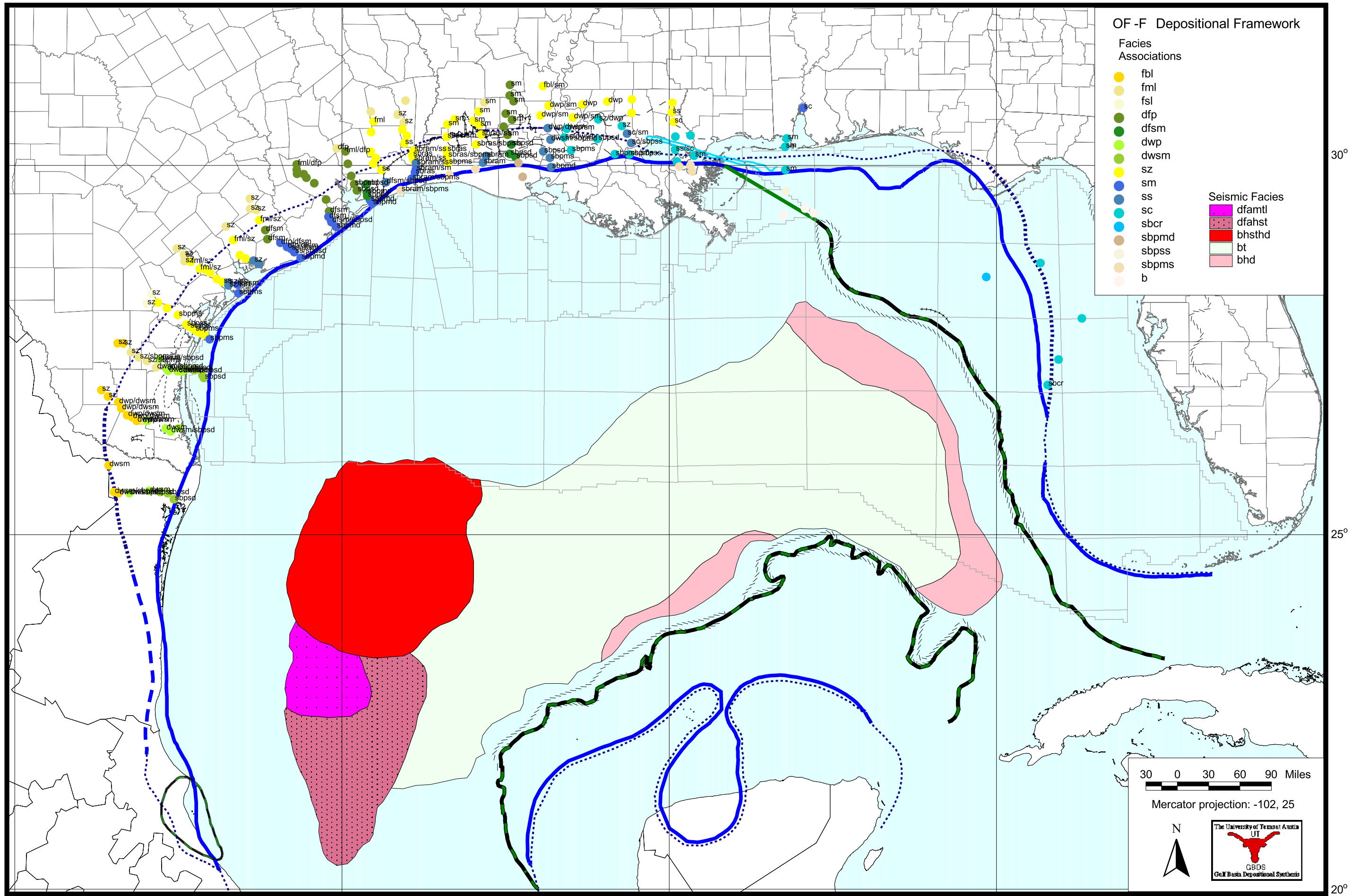


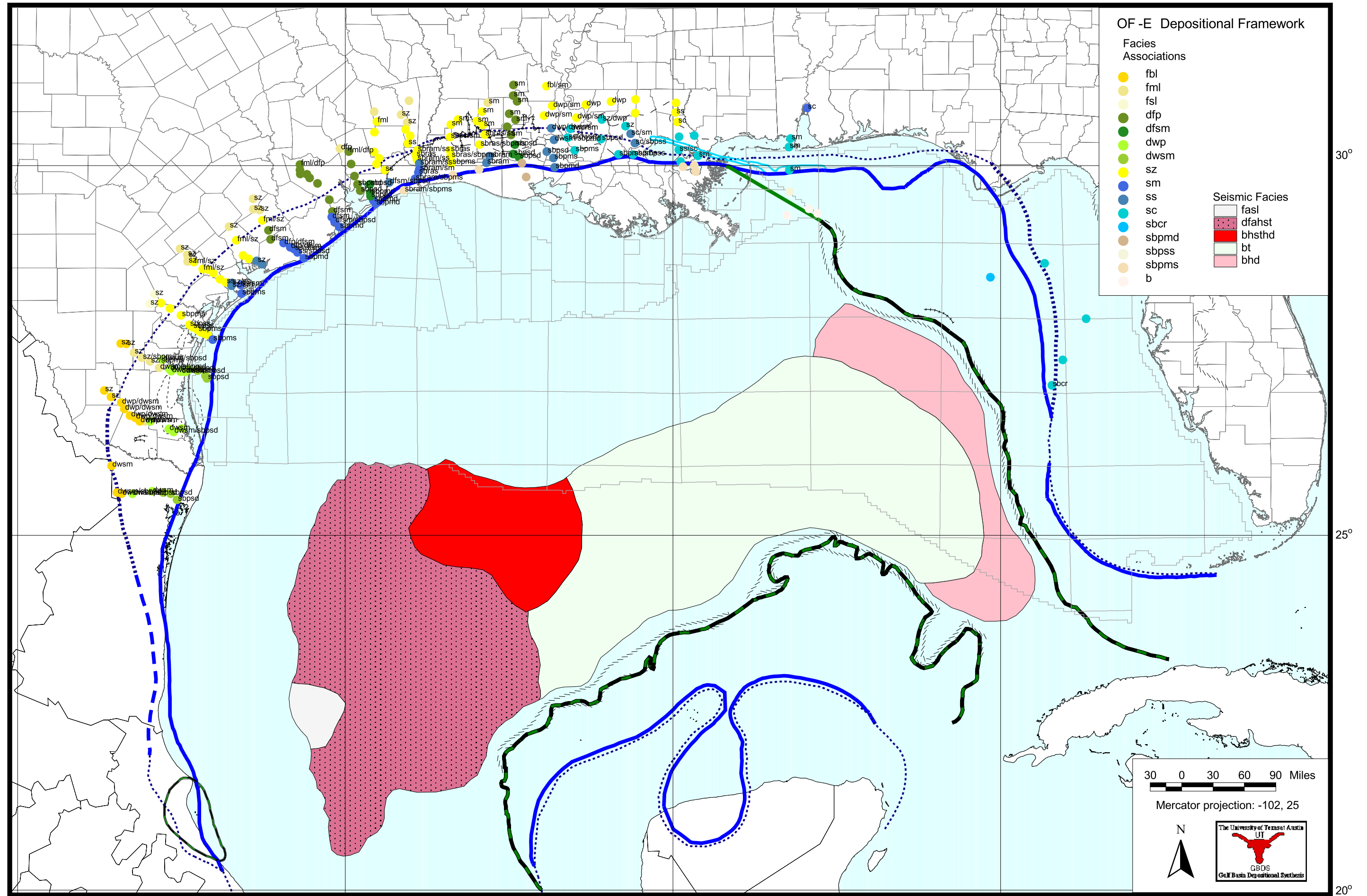
30°

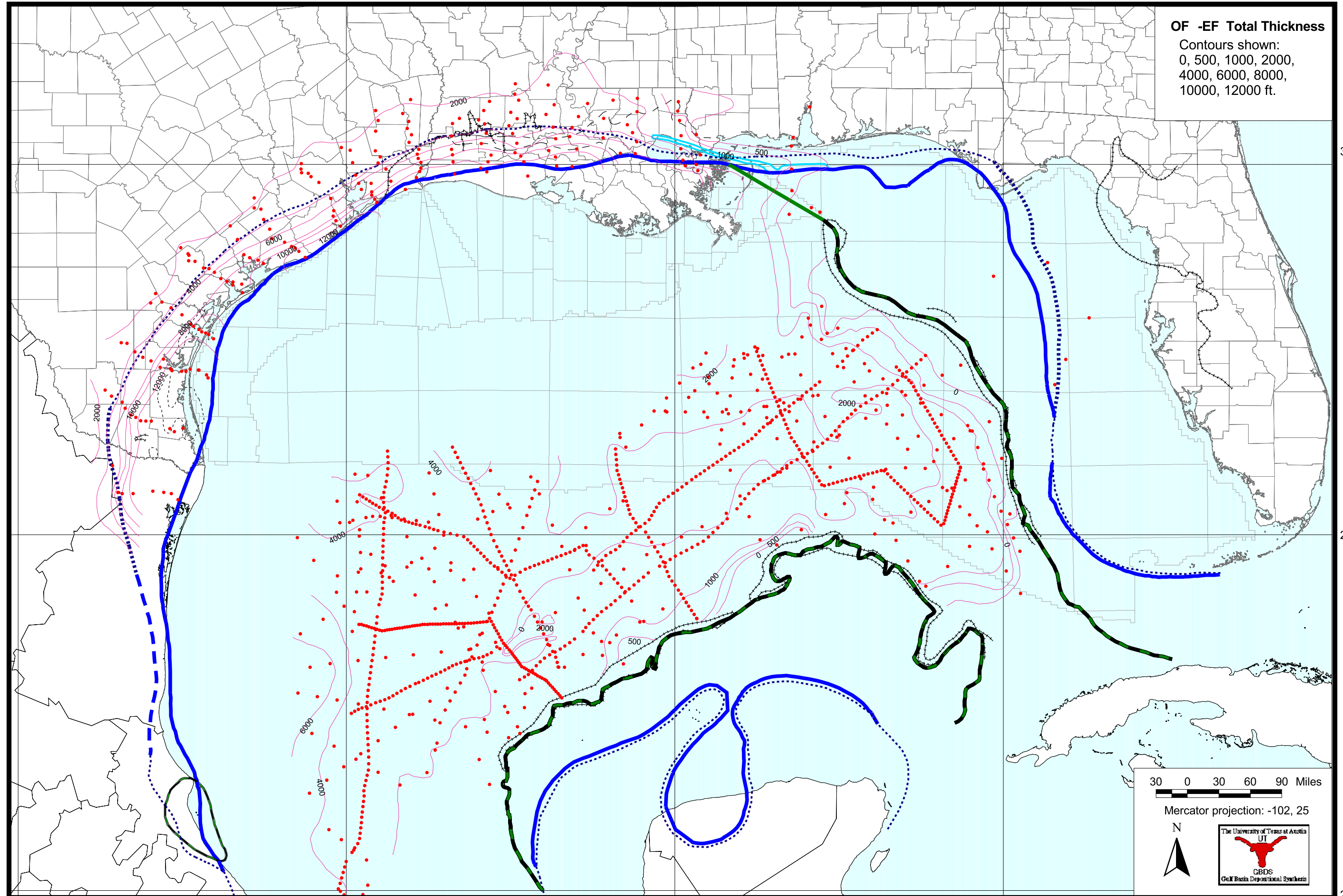
25°

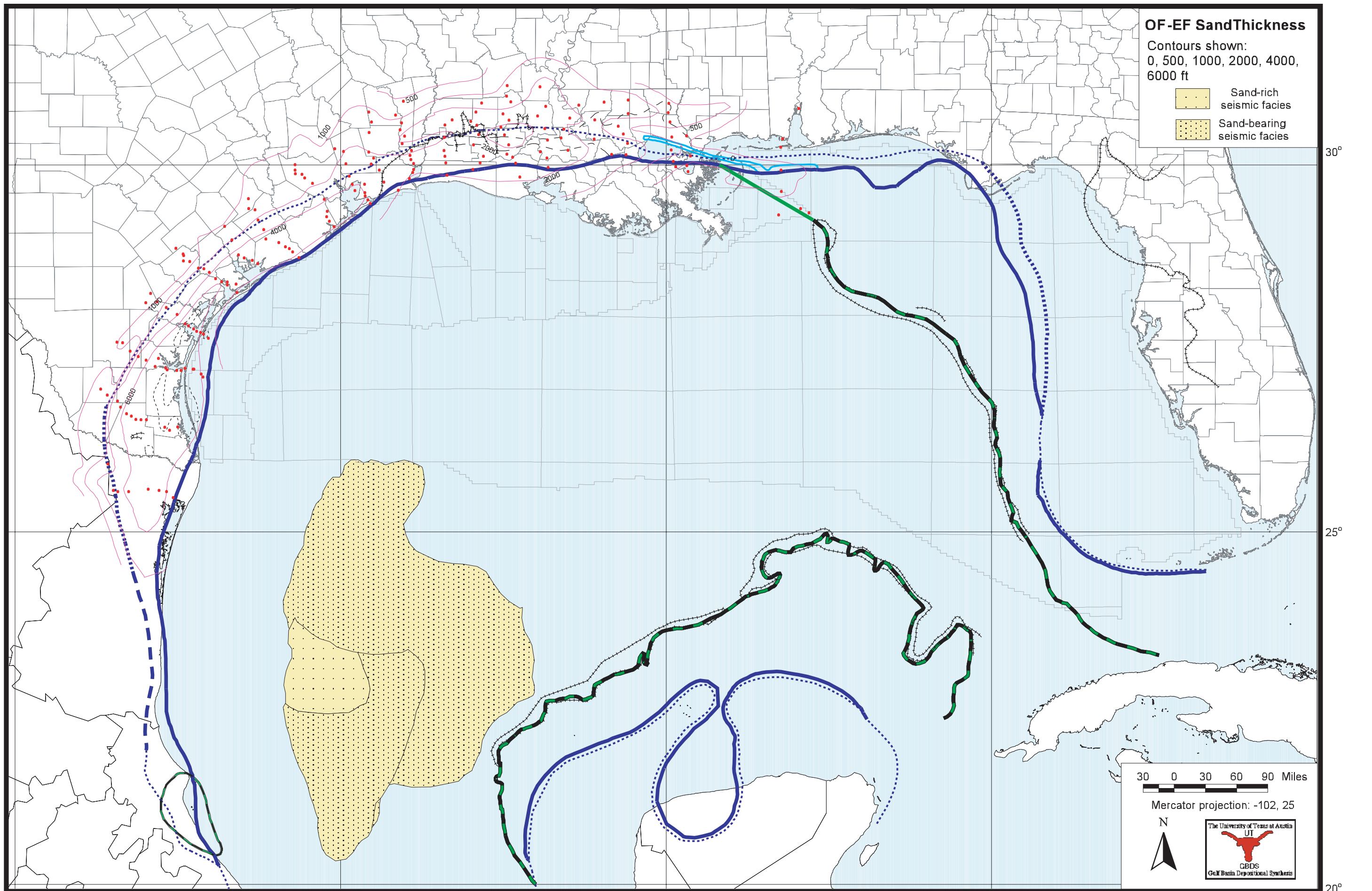
20°

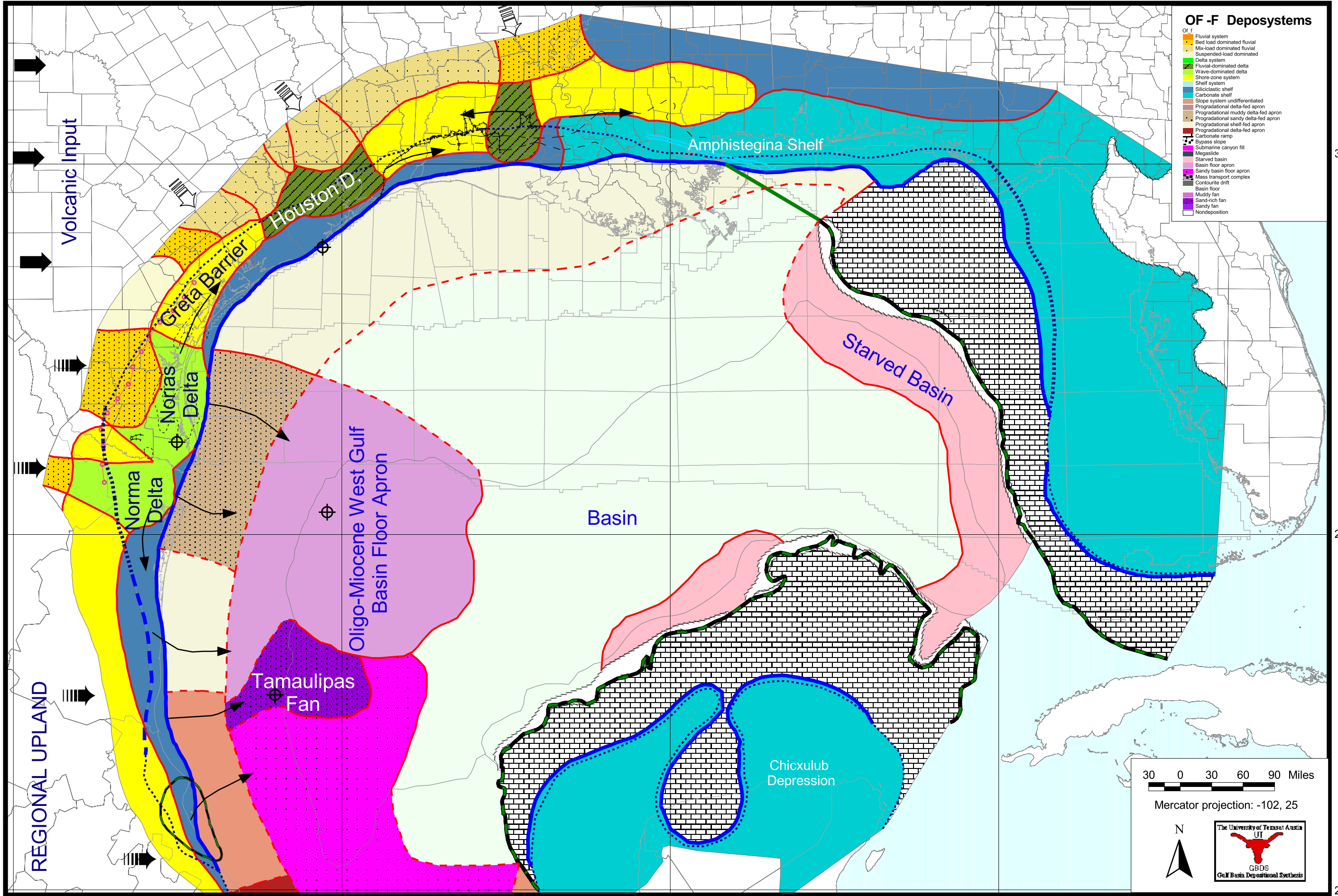


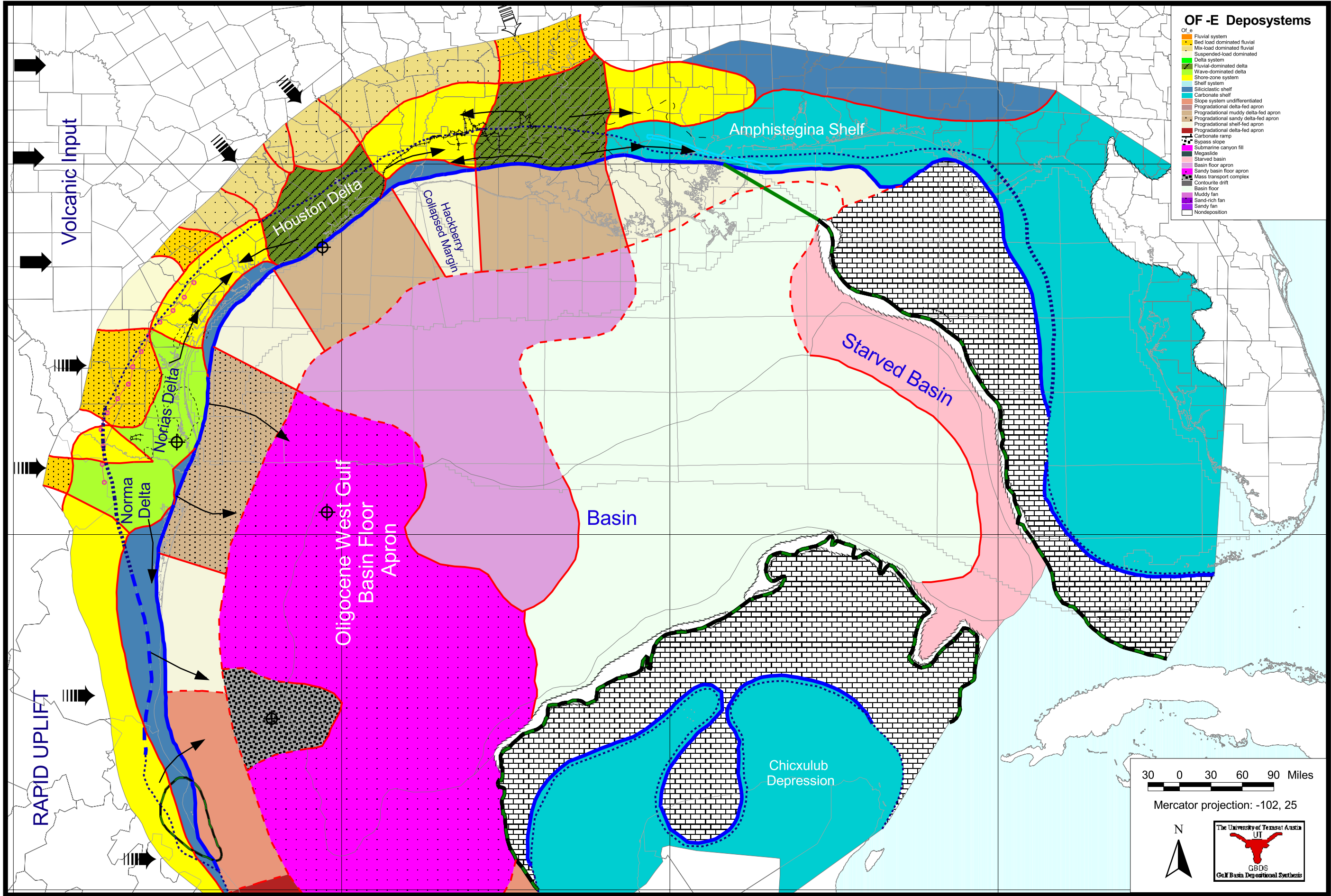












- OF -E Deposystems**
- Fluvial system
 - Bed load dominated fluvial
 - Mix load dominated fluvial
 - Suspended-load dominated
 - Delta system
 - Fluvial-dominated delta
 - Wave-dominated delta
 - Shore-zone system
 - Shelf system
 - Carbonate shelf
 - Siliciclastic shelf
 - Slope system undifferentiated
 - Progradational delta-fed apron
 - Progradational muddy delta-fed apron
 - Progradational sandy delta-fed apron
 - Progradational shelf-fed apron
 - Progradational delta-fed apron
 - Carbonate ramp
 - Bypass slope
 - Submarine canyon fill
 - Megaslide
 - Starved basin
 - Basin floor apron
 - Sandy basin floor apron
 - Mass transport complex
 - Contourite drift
 - Basin floor
 - Muddy fan
 - Sand-rich fan
 - Sandy fan
 - Nondeposition

30 0 30 60 90 Miles

Mercator projection: -102, 25



JS-D Depositional Framework

Facies
Associations

- dfp
- dwp
- sz
- sm
- ss
- sc
- sbc
- sbpm
- b

Seismic Facies

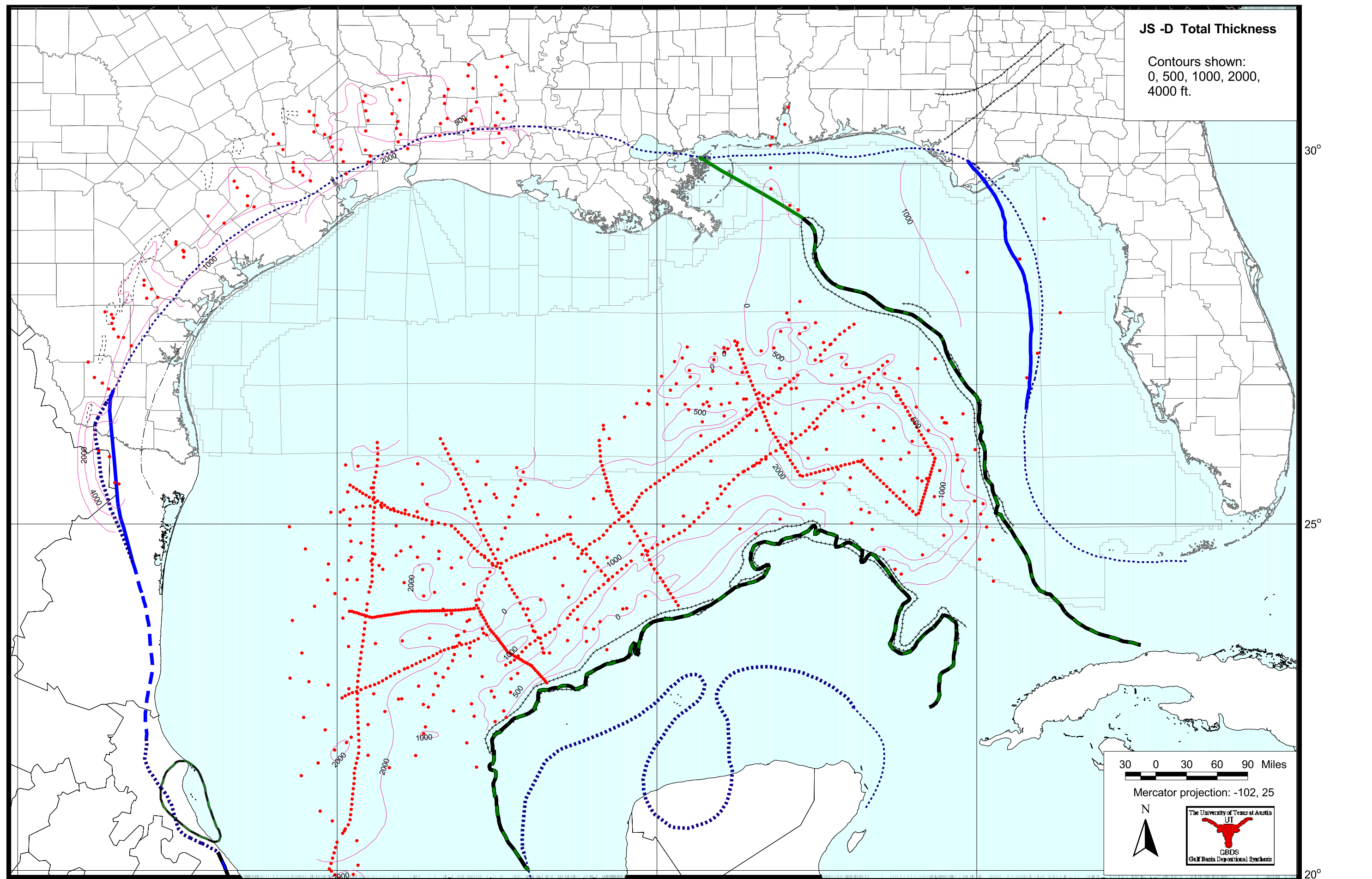
- bhsthd
- bt
- bhd

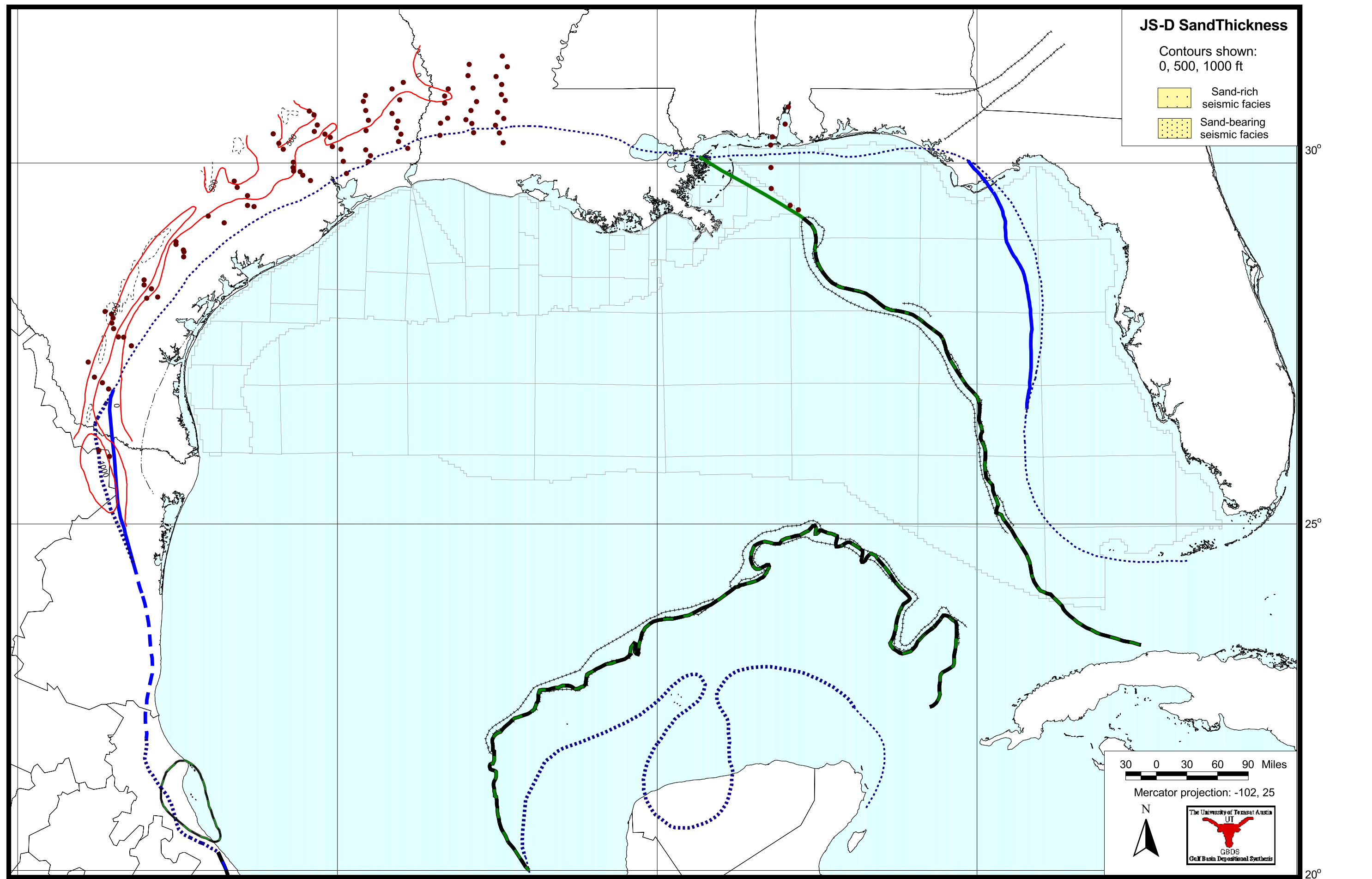
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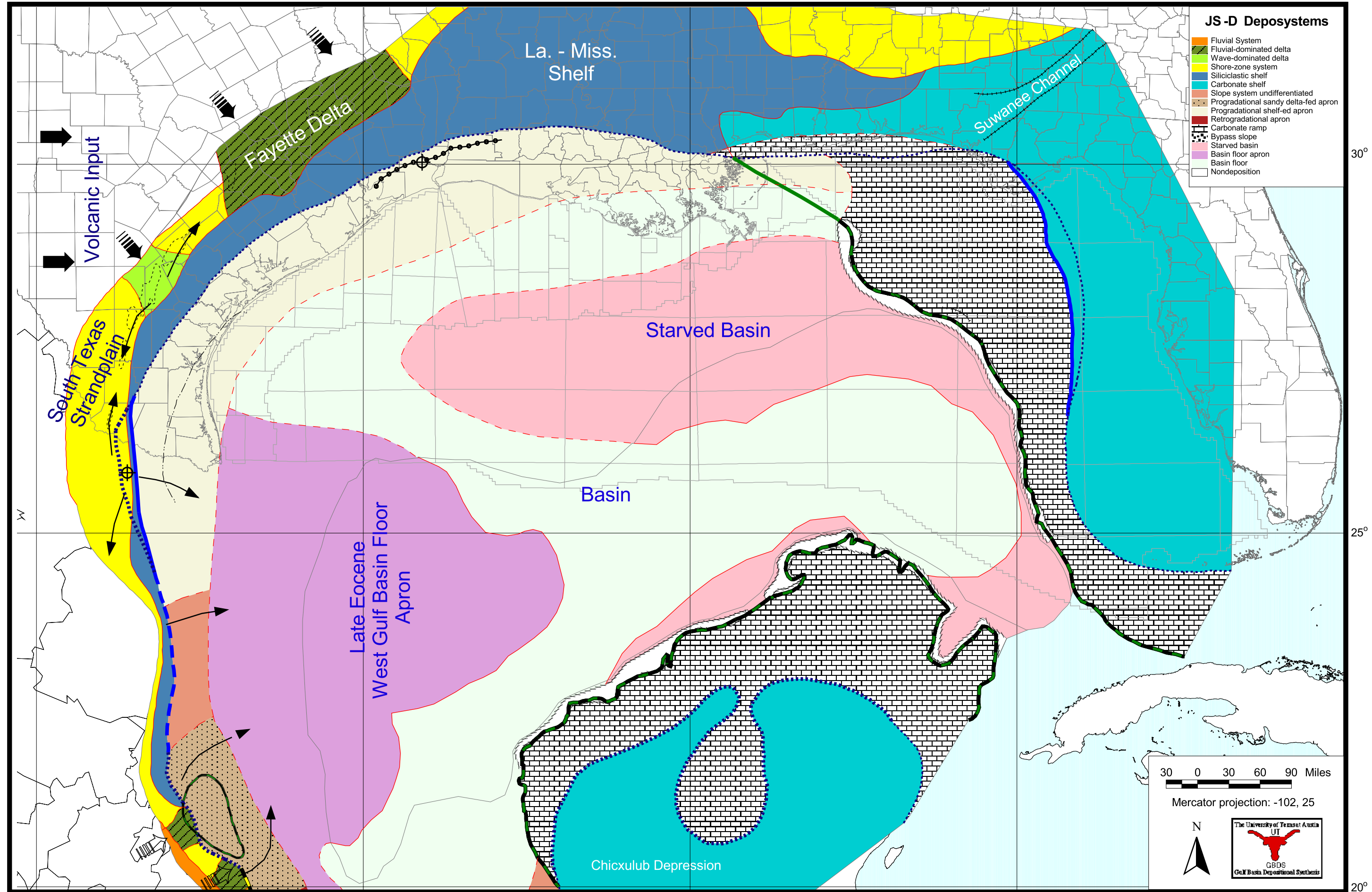
Mercator projection: -102, 25

N

G8DS
Gulf Basin Depositional Synthesis



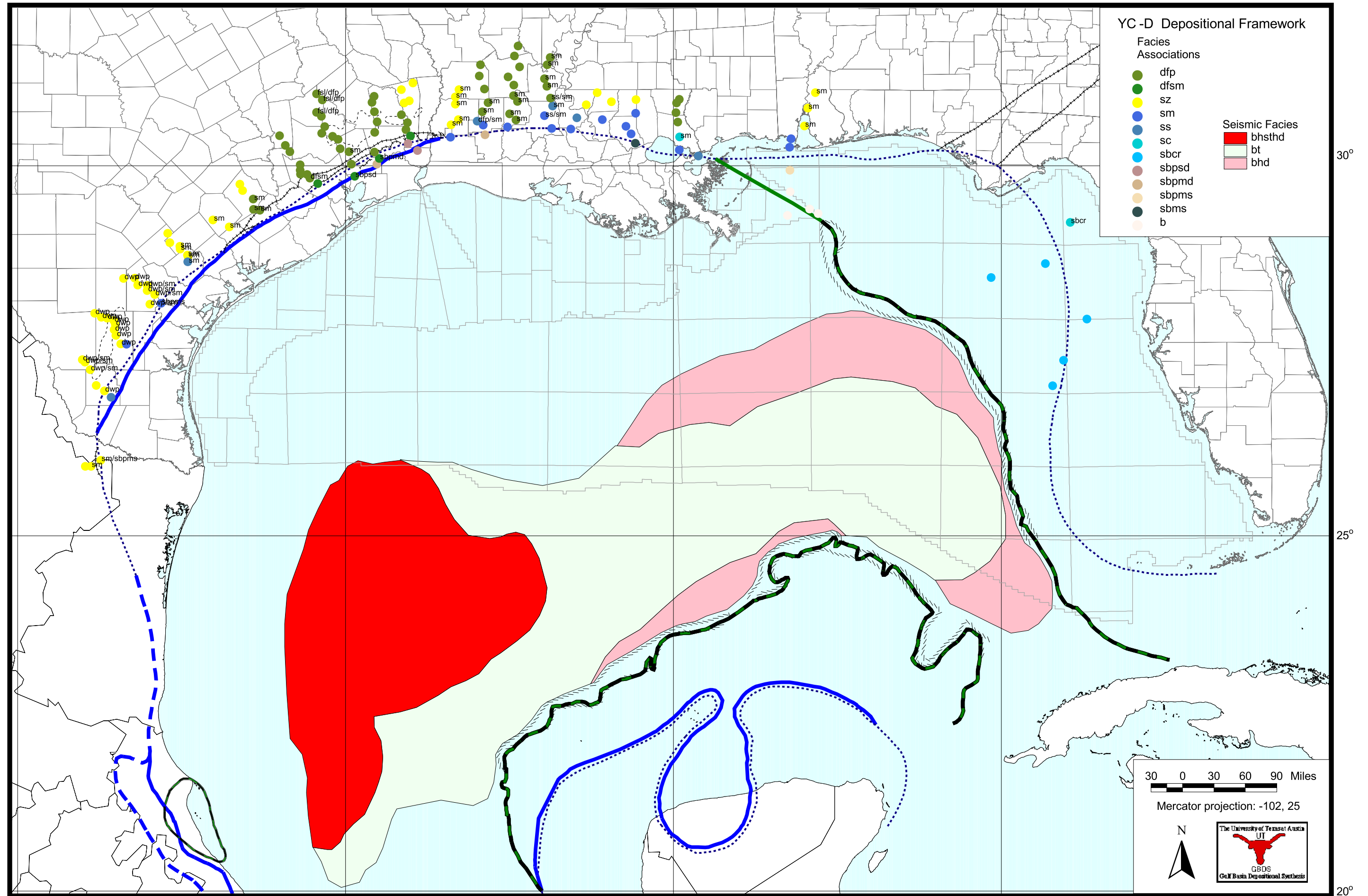


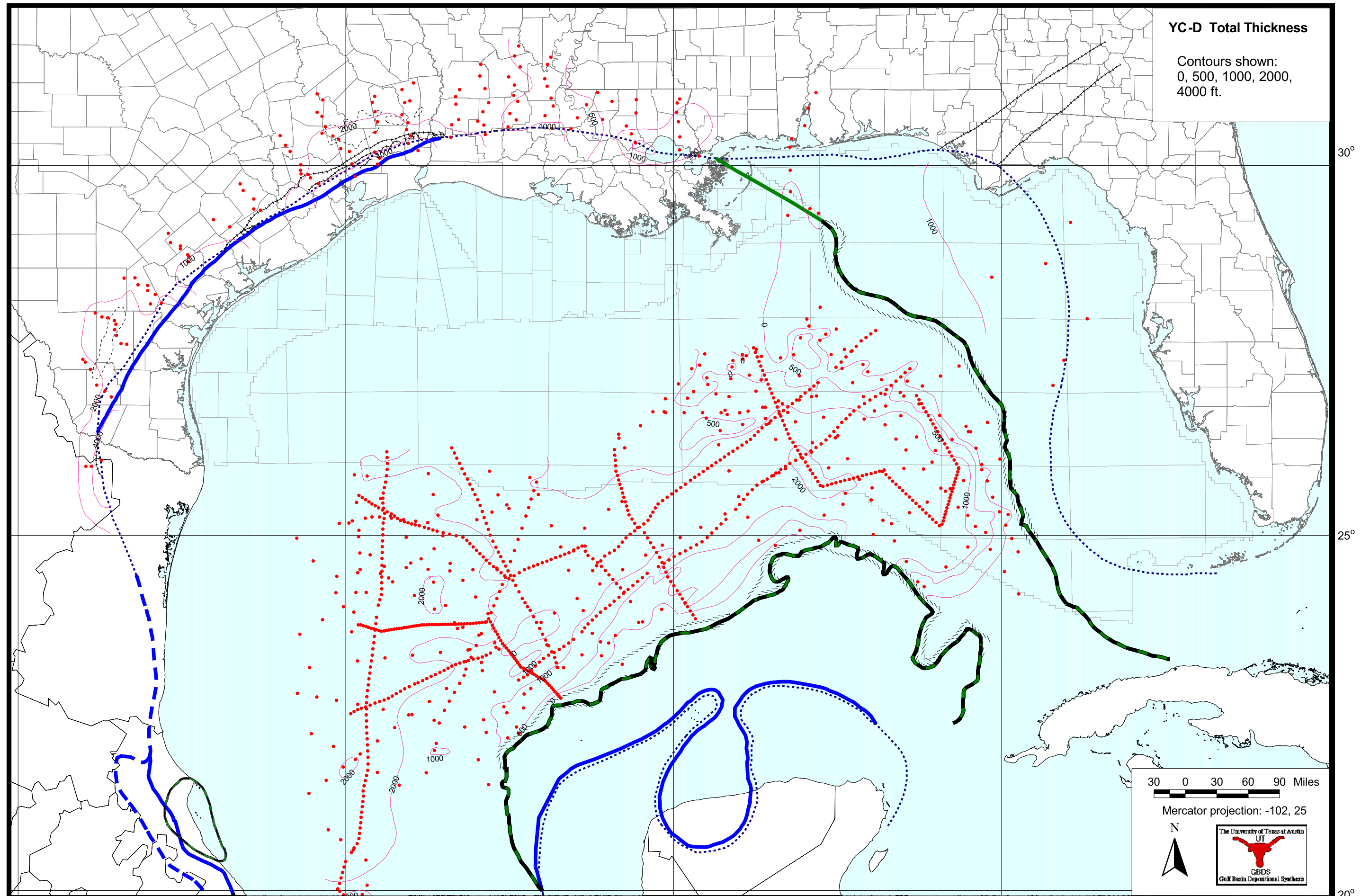


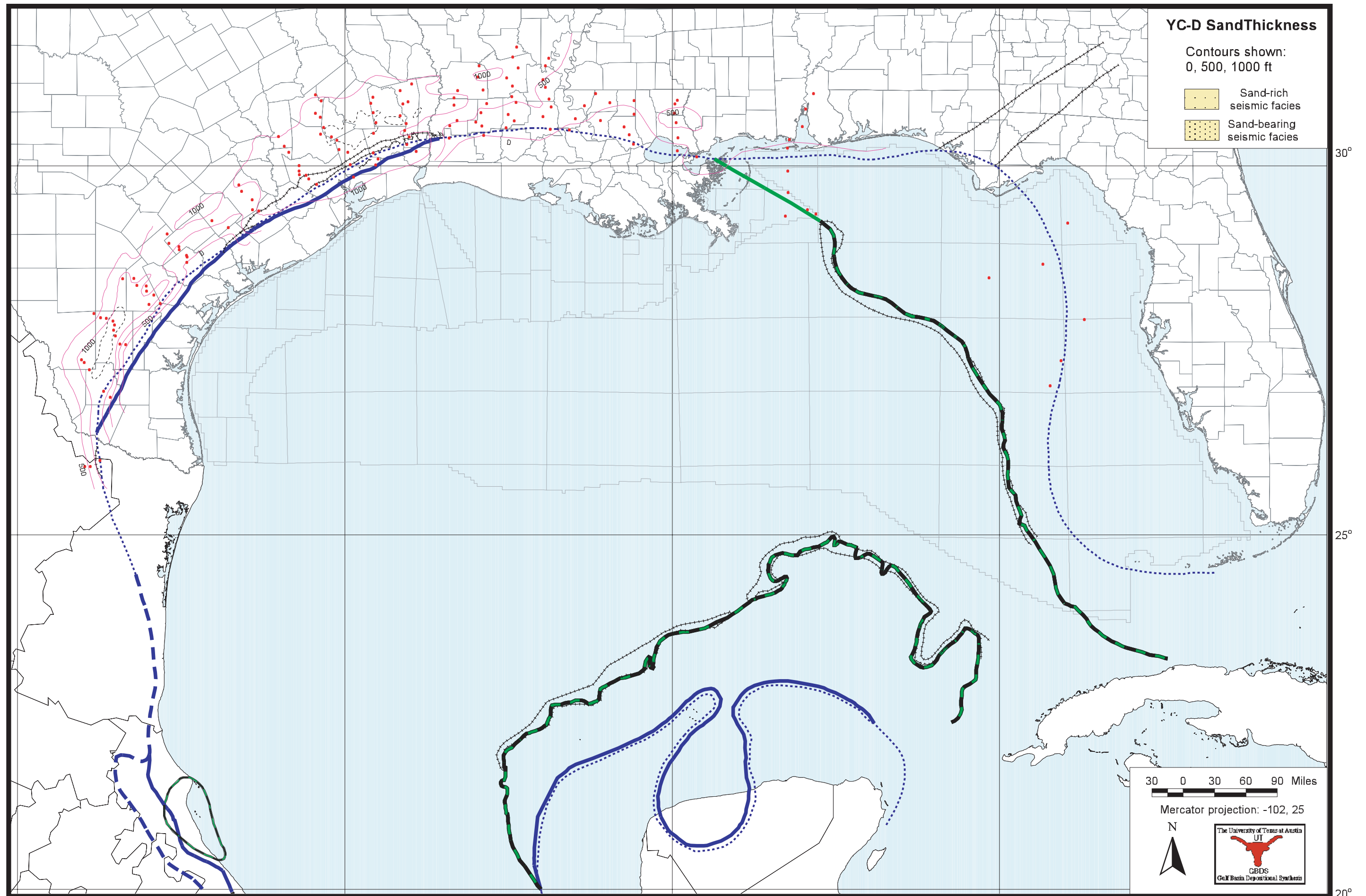
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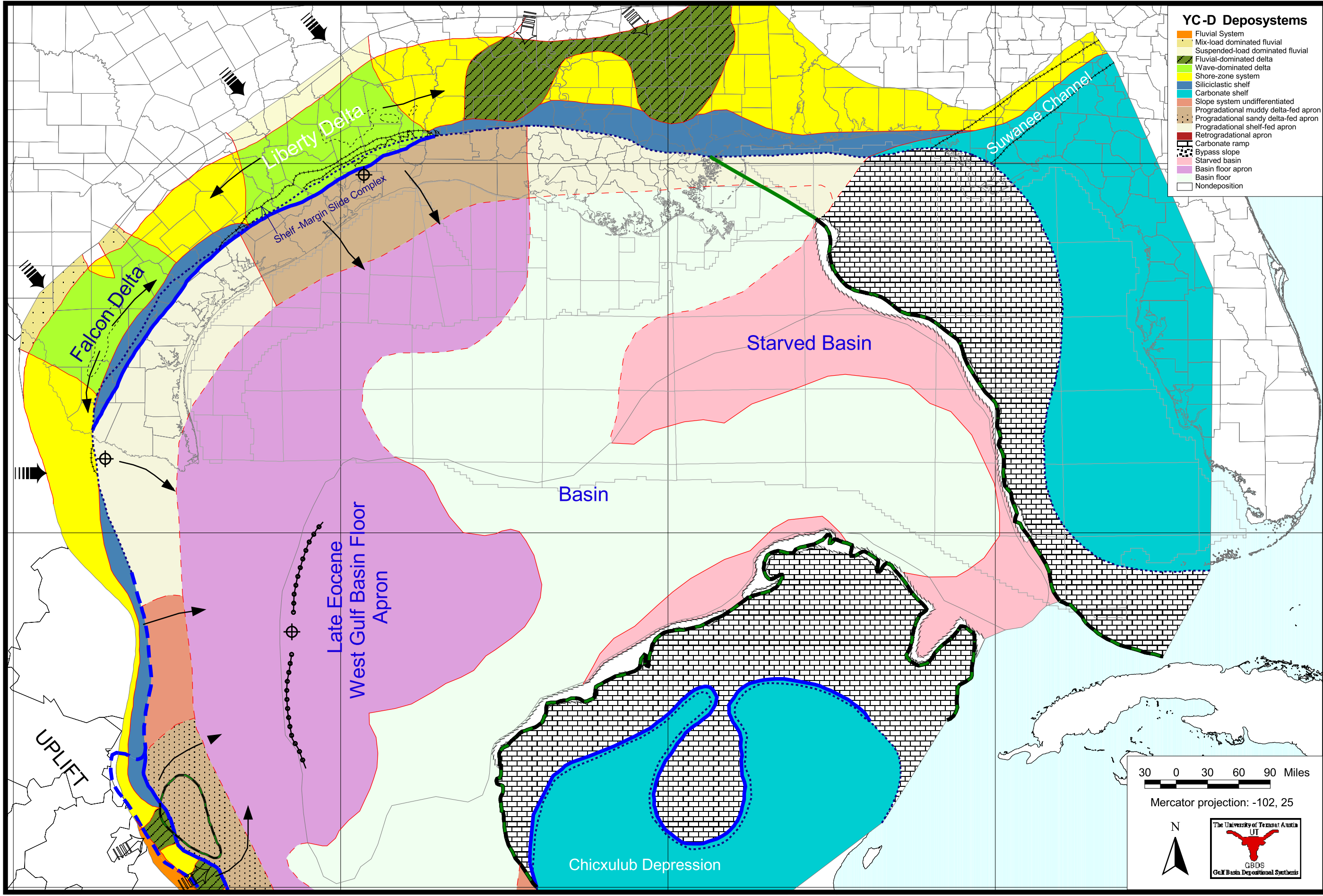
25°

20°







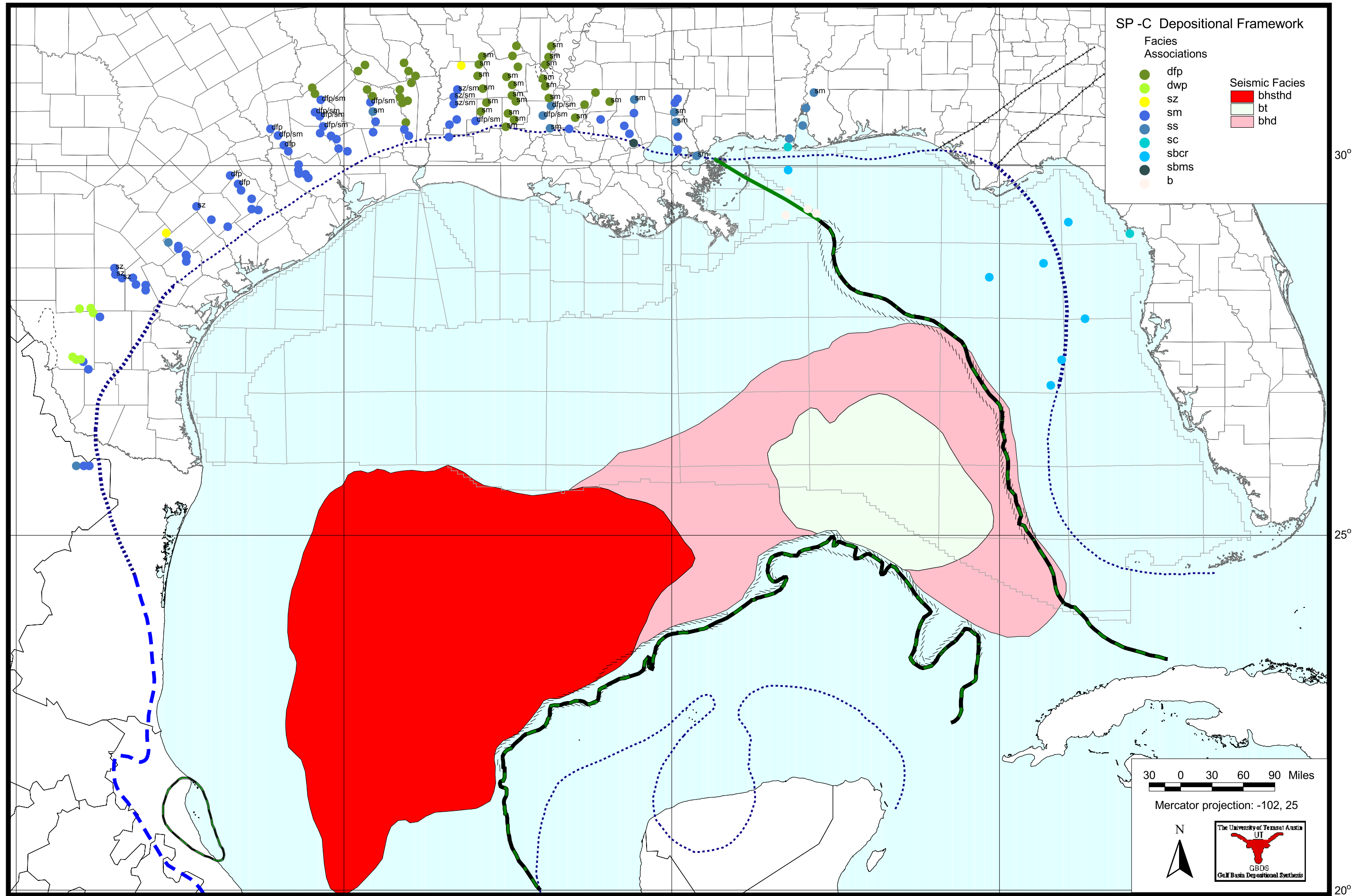


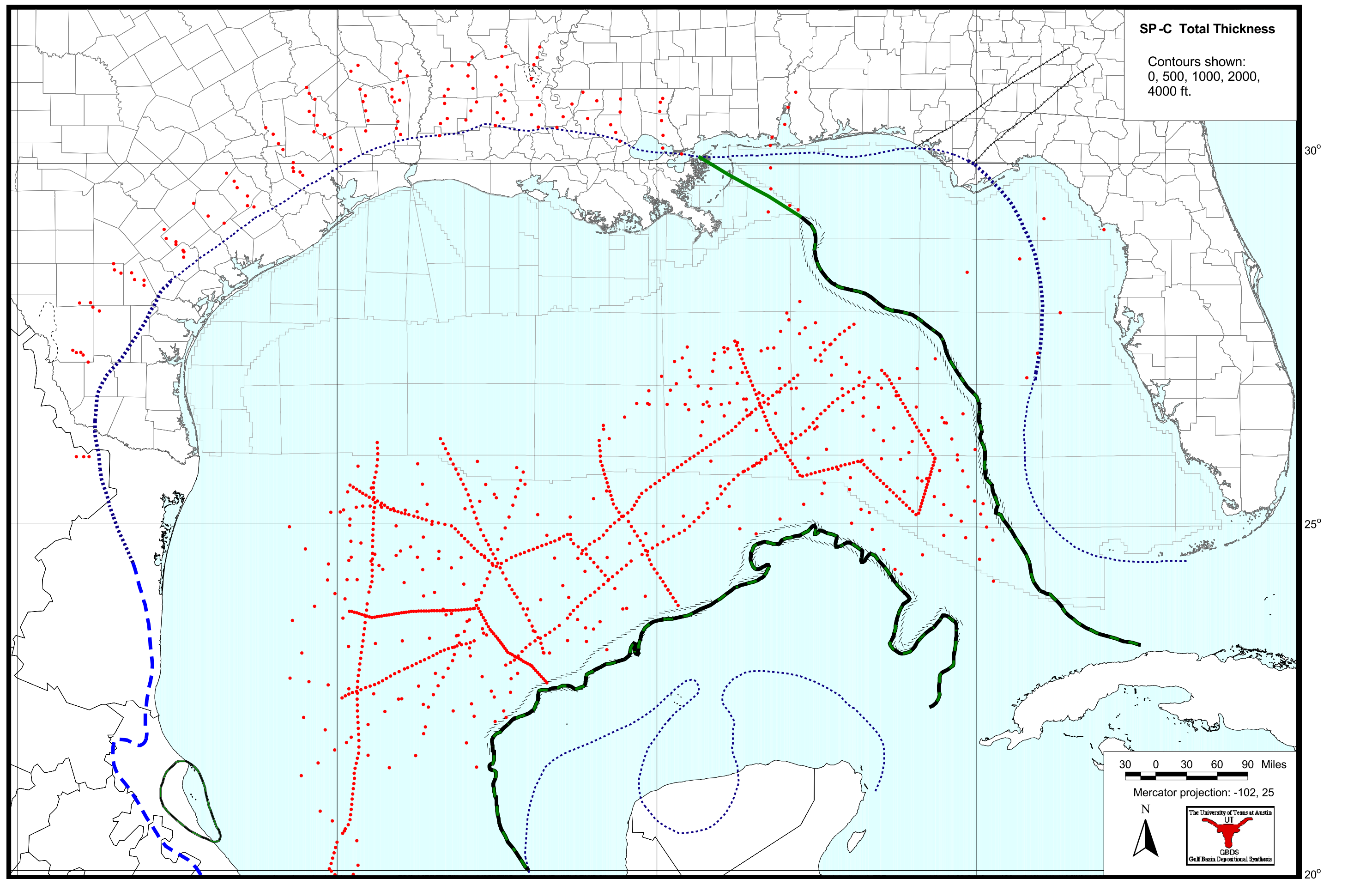
- YC-D Deposystems**
- Fluvial System
 - Mix-load dominated fluvial
 - Suspended-load dominated fluvial
 - Fluvial-dominated delta
 - Wave-dominated delta
 - Shore-zone system
 - Siliciclastic shelf
 - Carbonate shelf
 - Slope system undifferentiated
 - Progradational muddy delta-fed apron
 - Progradational sandy delta-fed apron
 - Progradational shelf-fed apron
 - Retrogradational apron
 - Carbonate ramp
 - Bypass slope
 - Starved basin
 - Basin floor apron
 - Basin floor
 - Nondeposition

30 0 30 60 90 Miles

Mercator projection: -102, 25





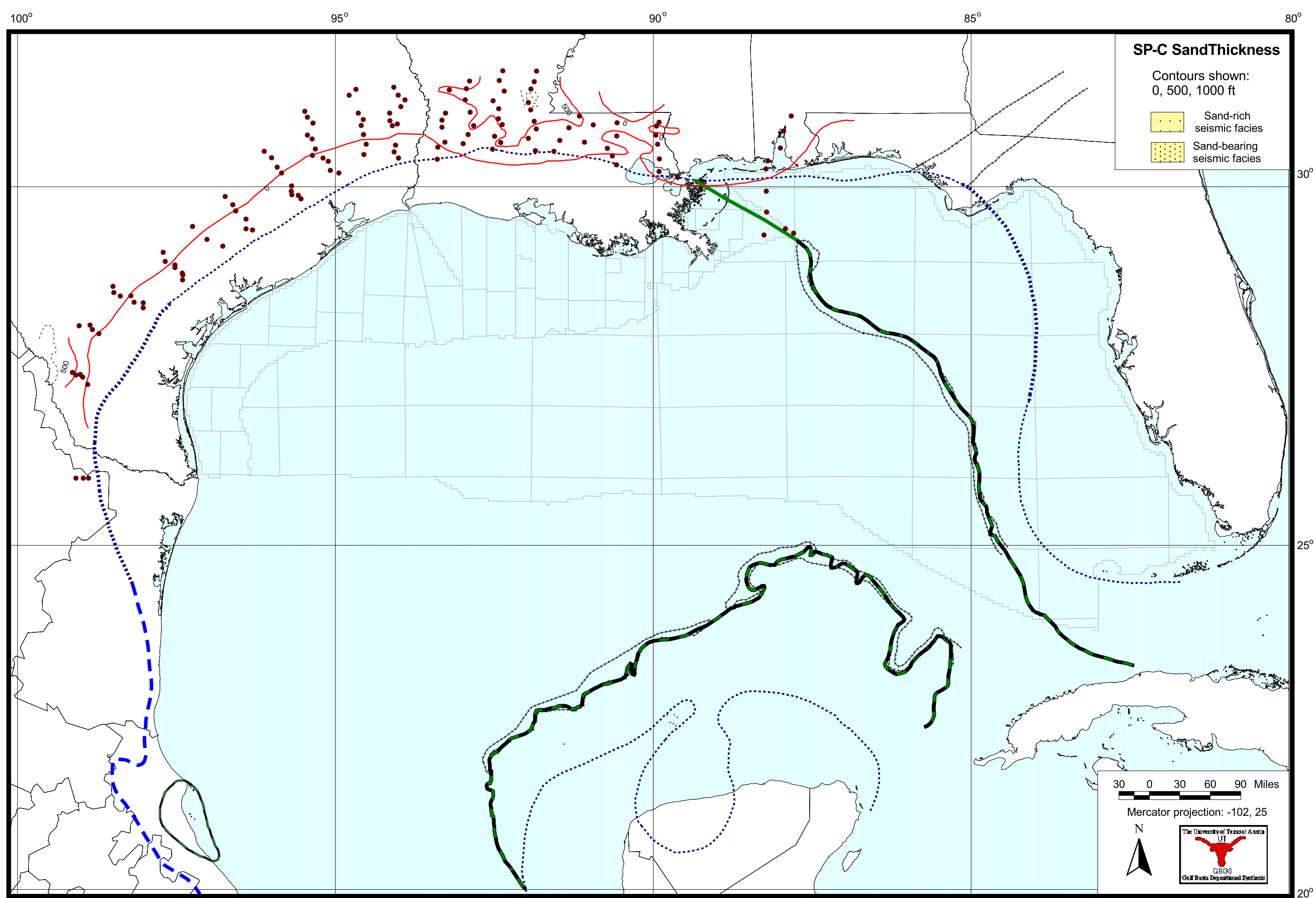


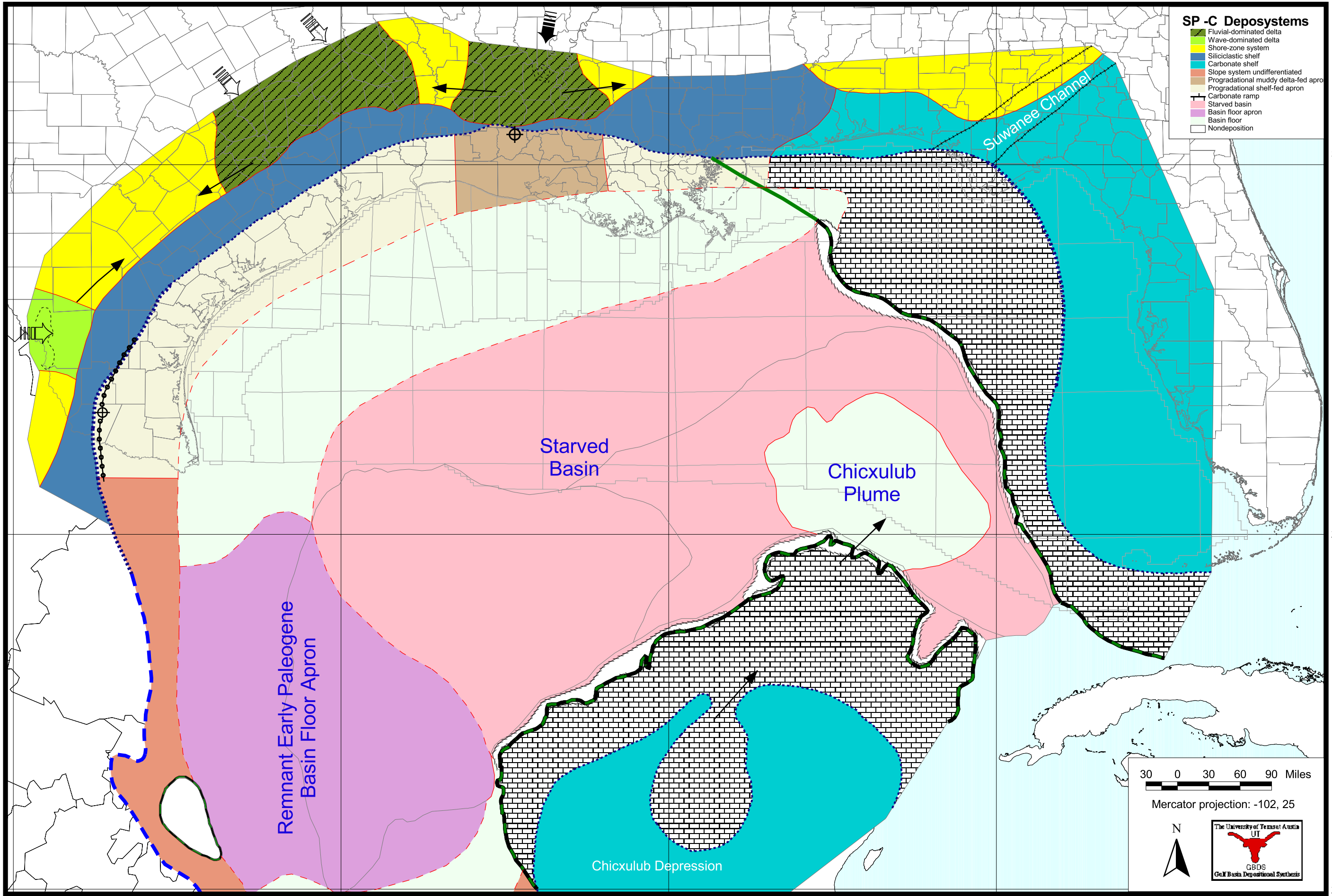
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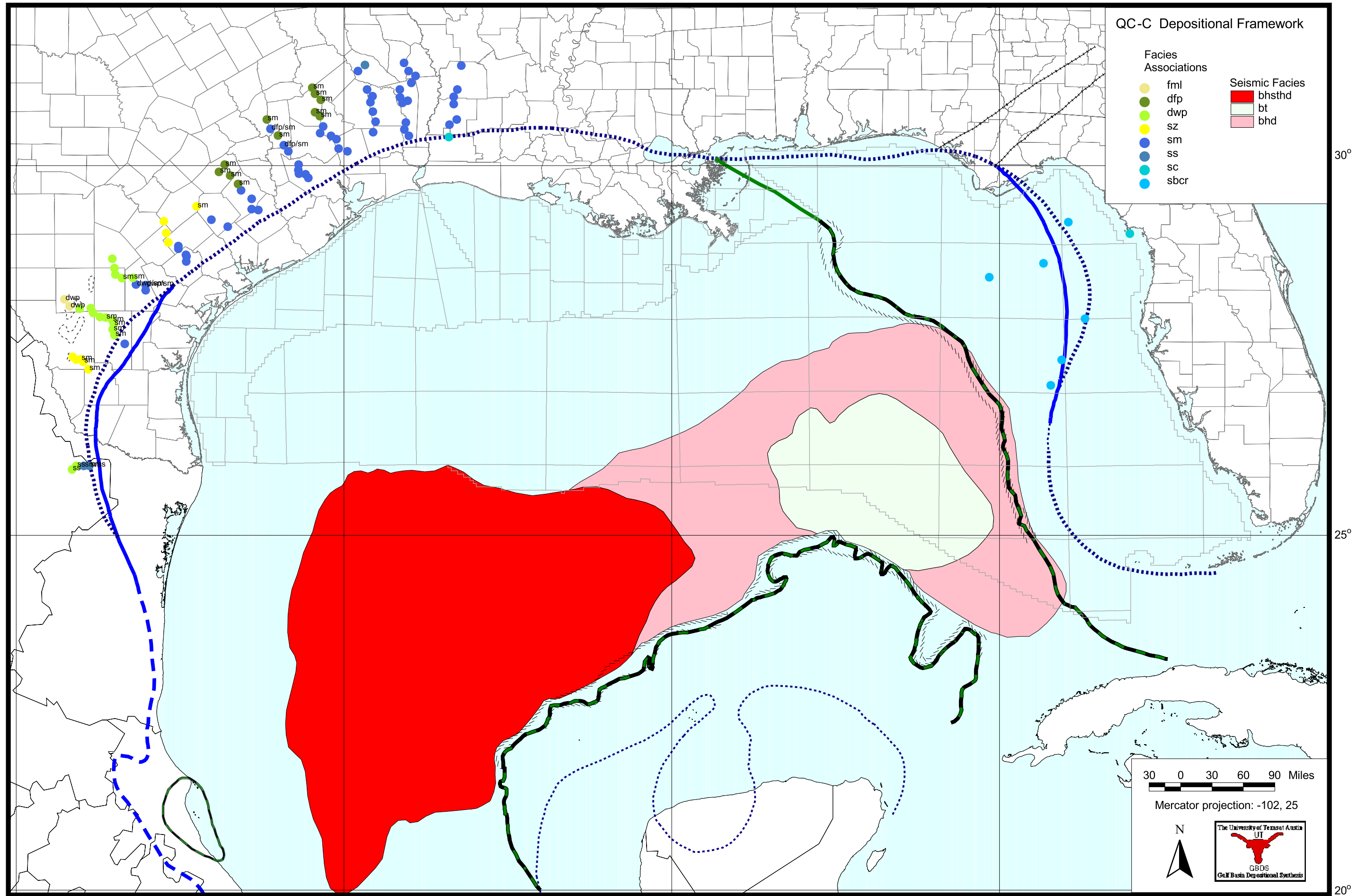
Mercator projection: -102, 25

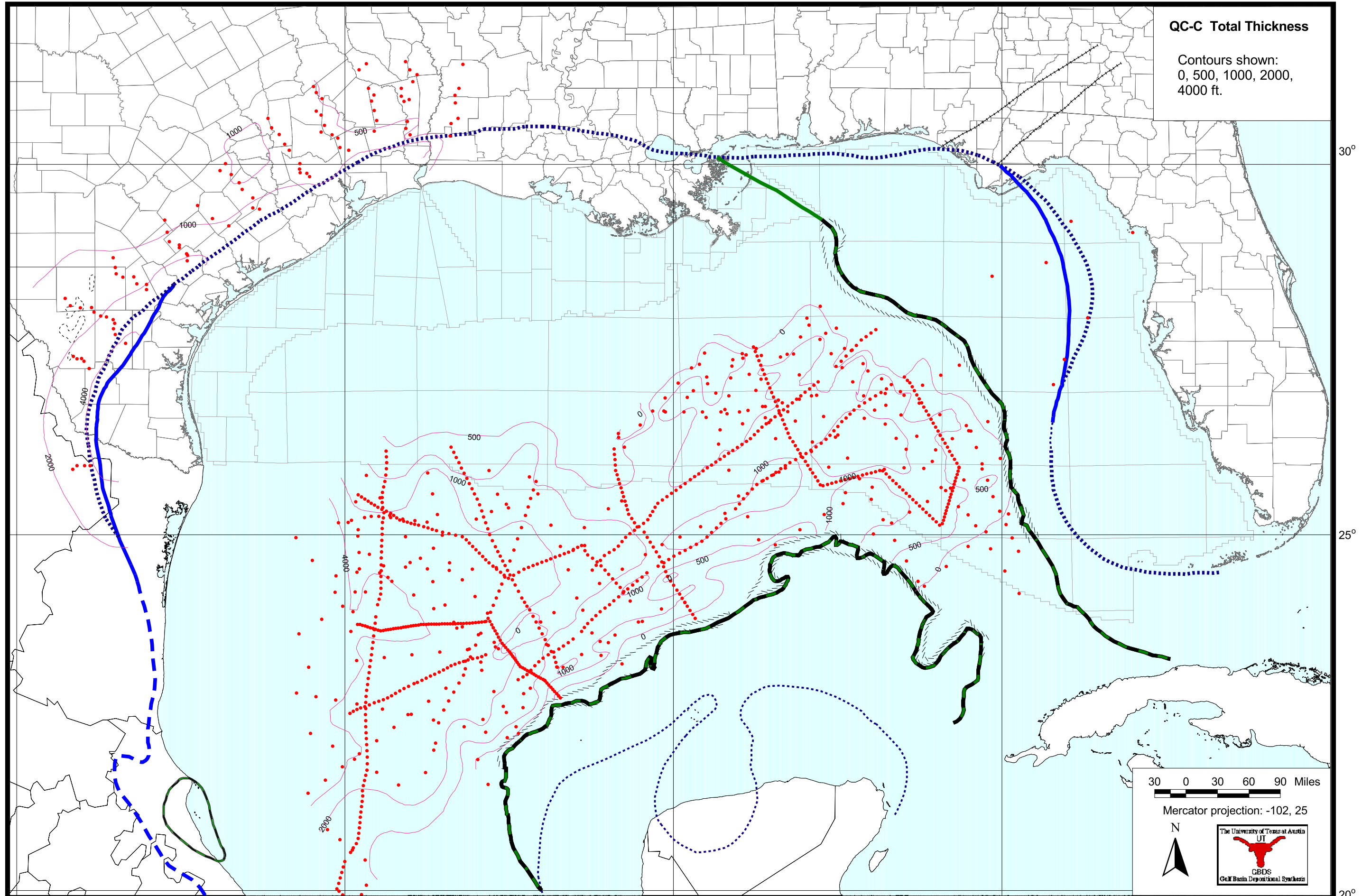
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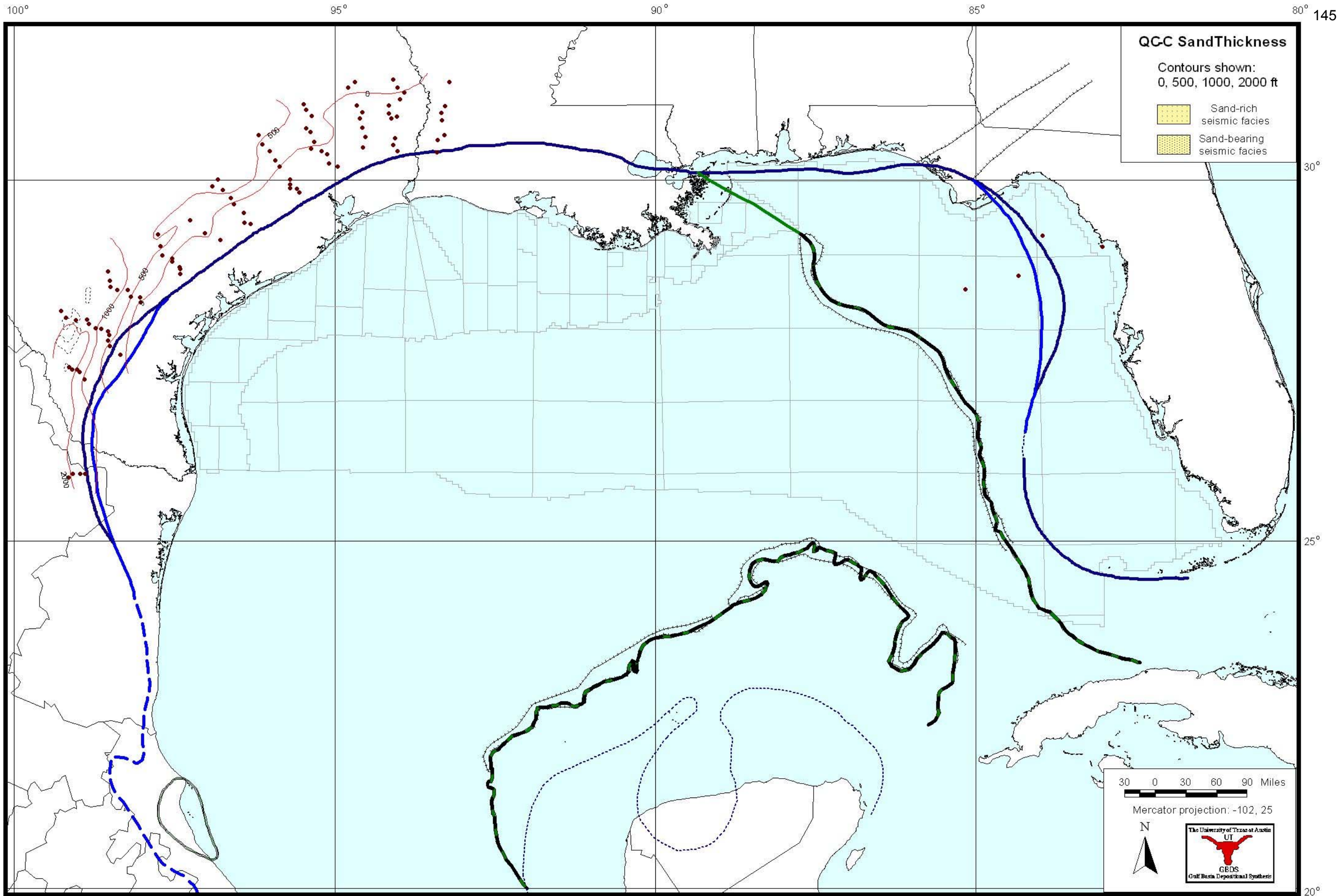
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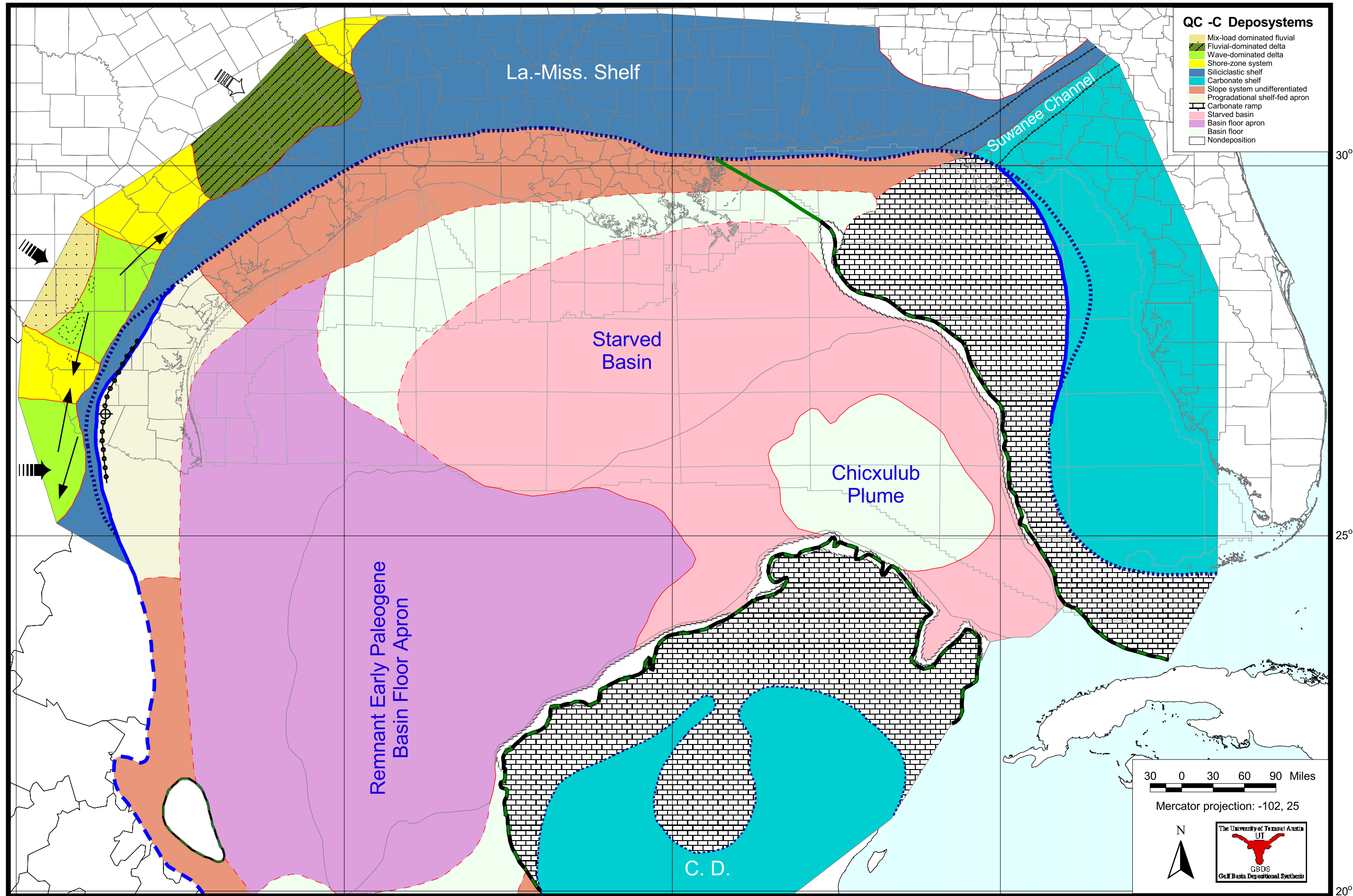


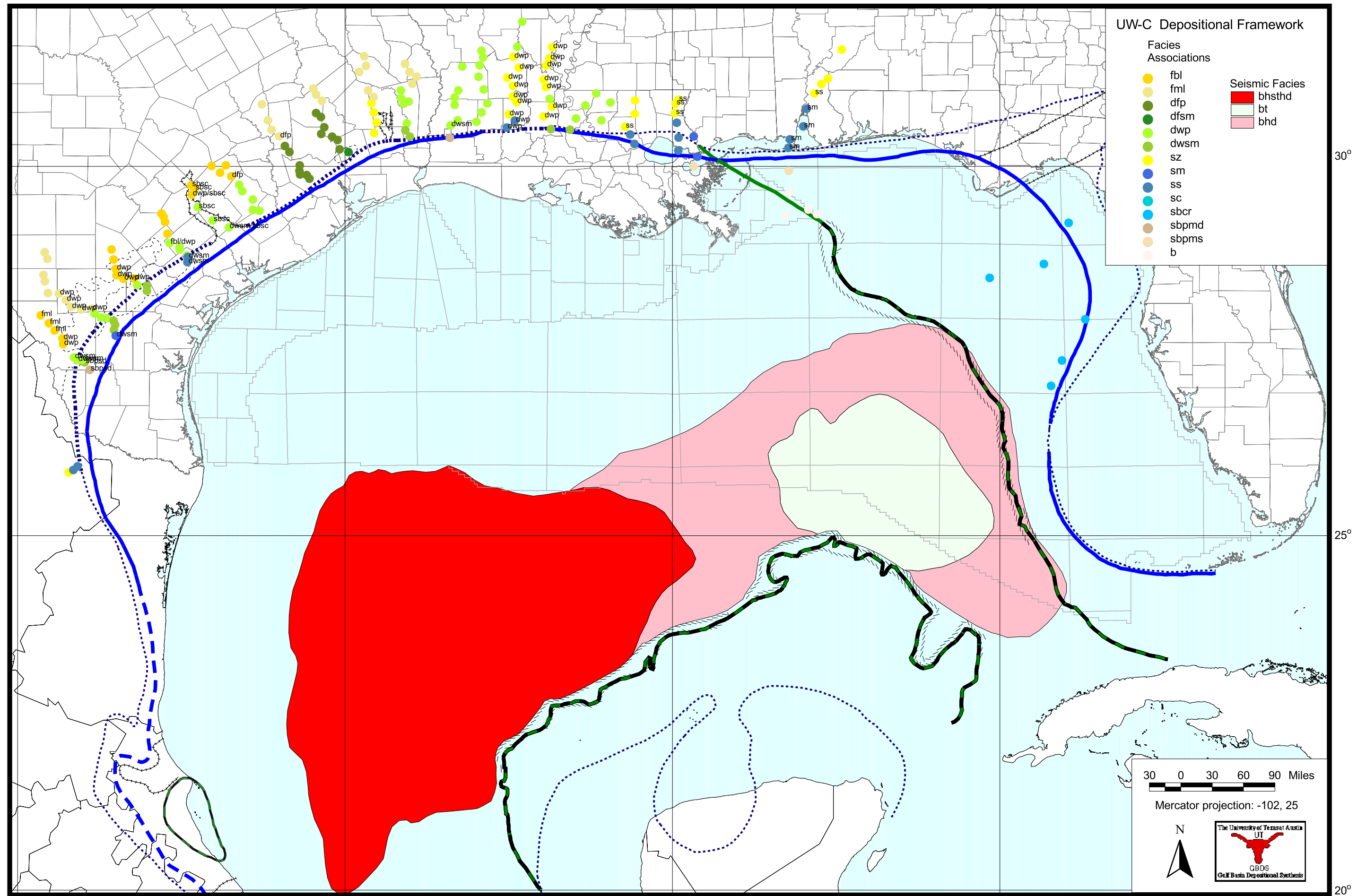


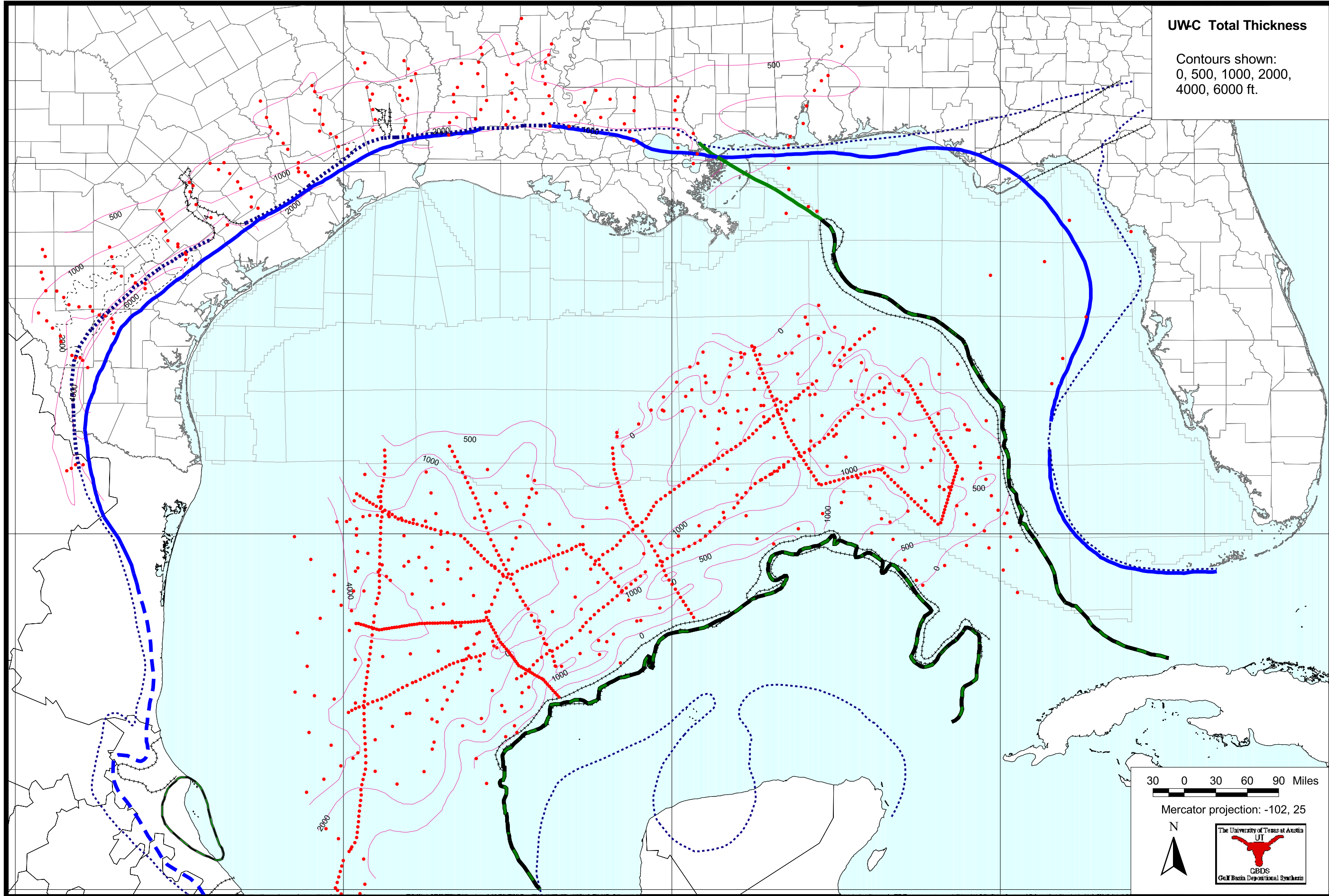


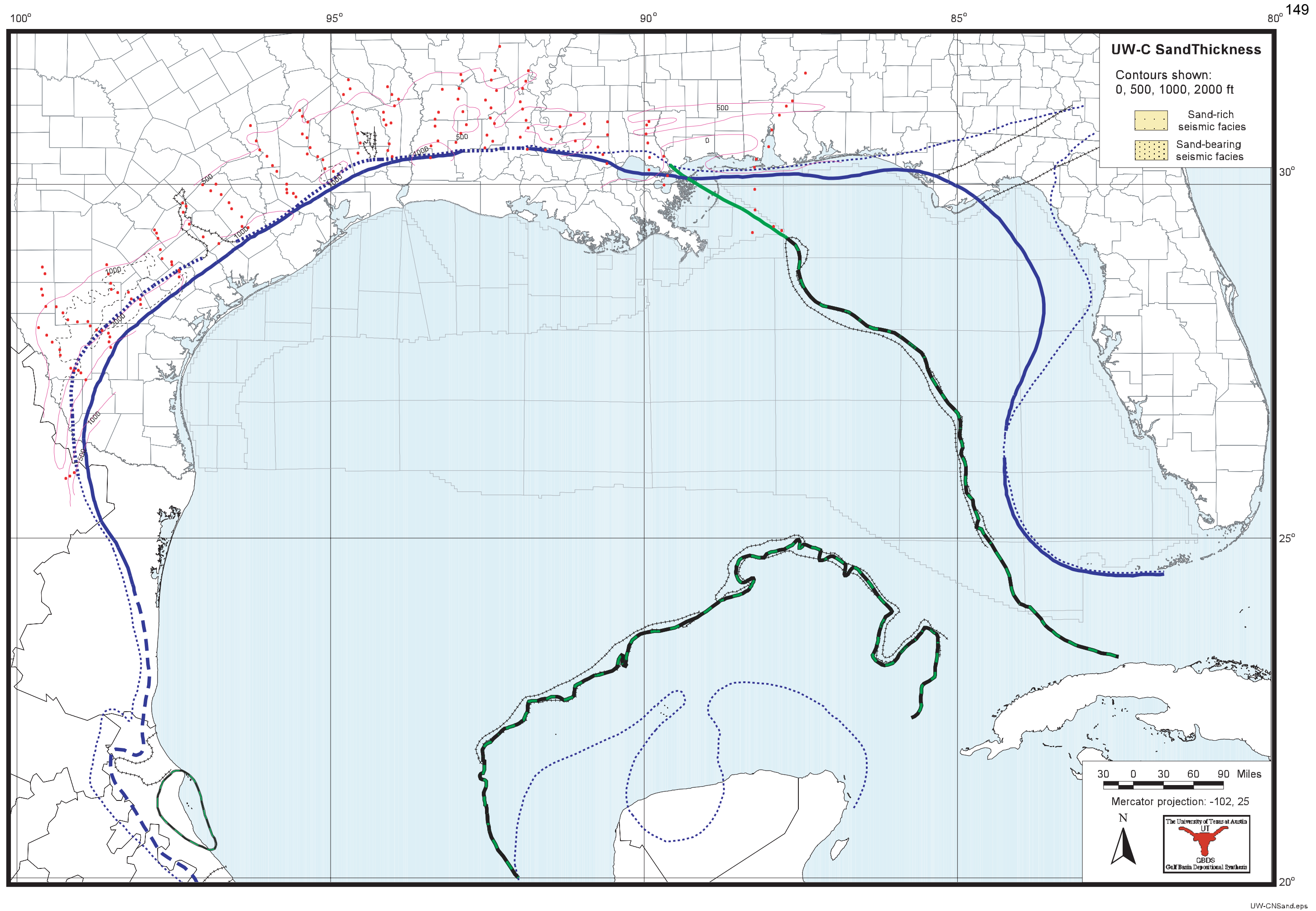


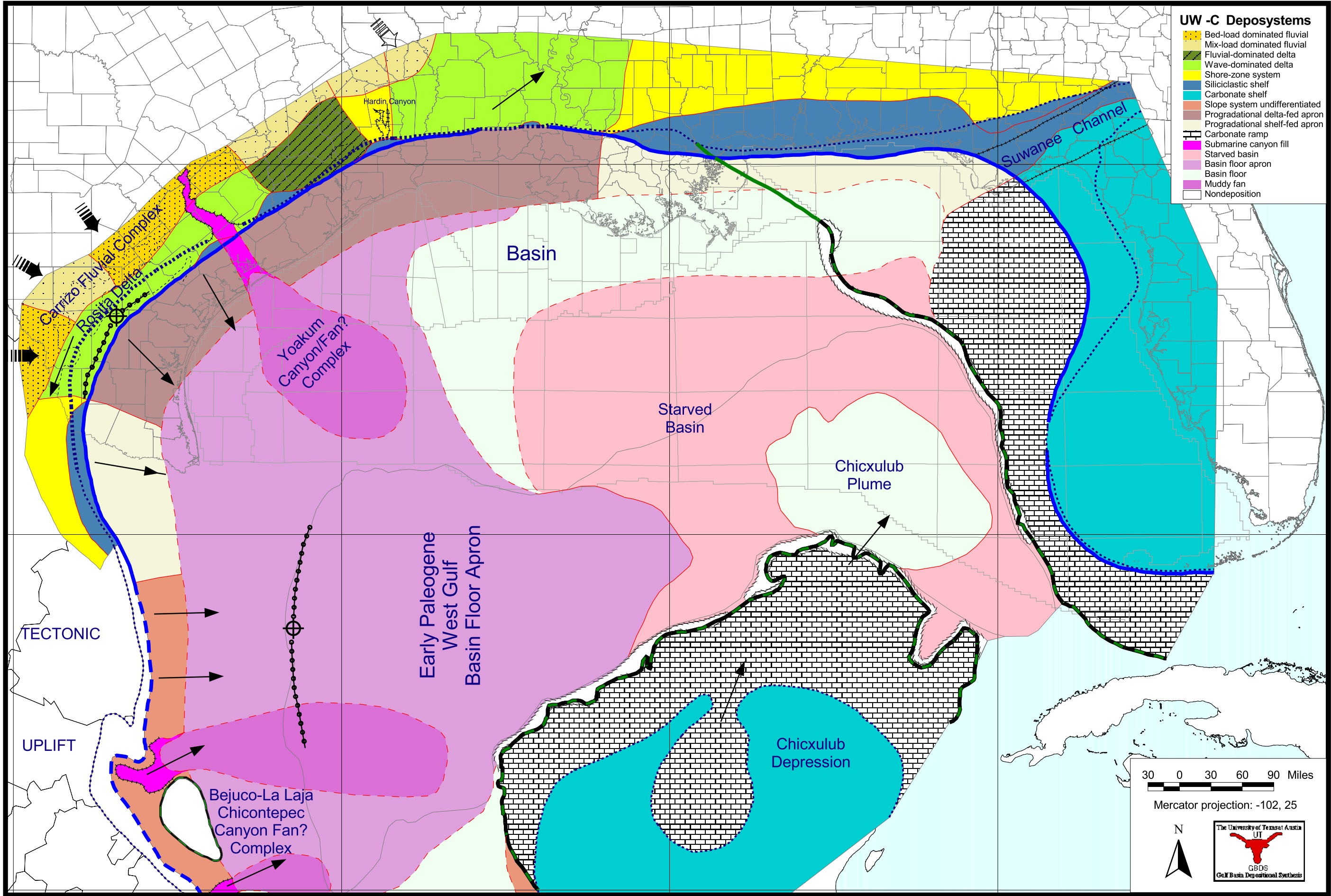










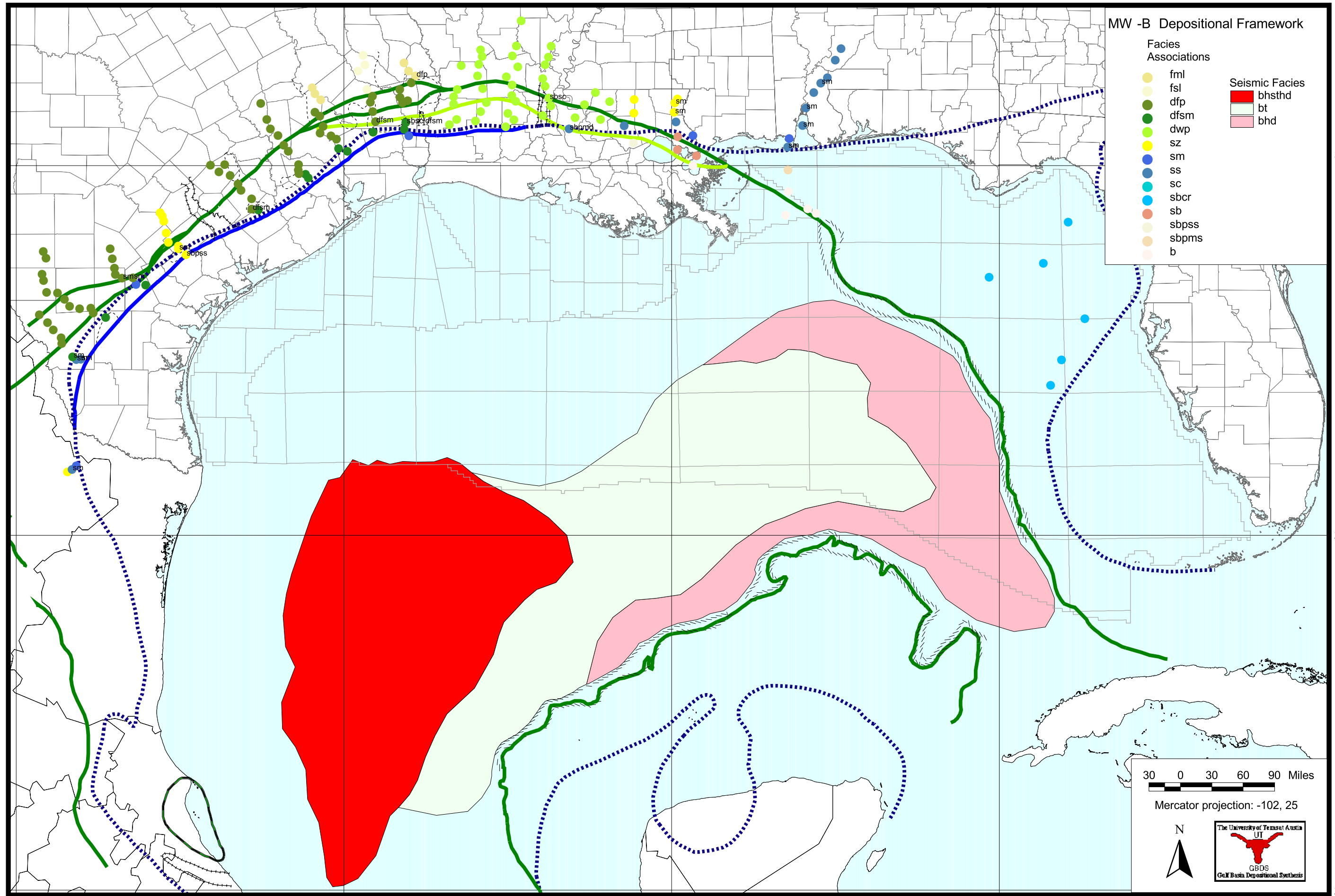


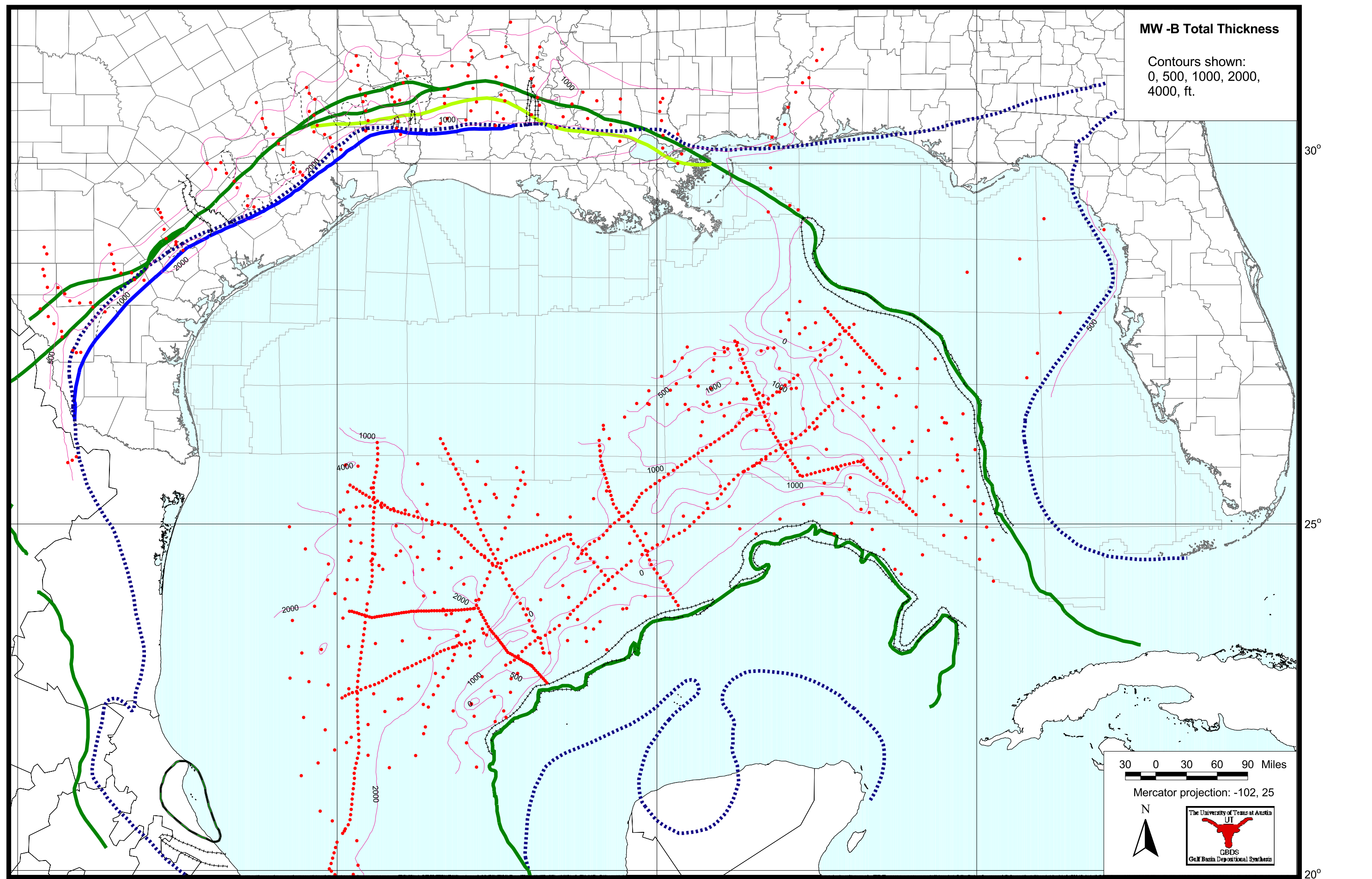
- UW -C Deposystems**
- Bed-load dominated fluvial
 - Mix-load dominated fluvial
 - Fluvial-dominated delta
 - Wave-dominated delta
 - Shore-zone system
 - Siliciclastic shelf
 - Carbonate shelf
 - Slope system undifferentiated
 - Progradational delta-fed apron
 - Progradational shelf-fed apron
 - Carbonate ramp
 - Submarine canyon fill
 - Starved basin
 - Basin floor apron
 - Basin floor
 - Muddy fan
 - Nondeposition

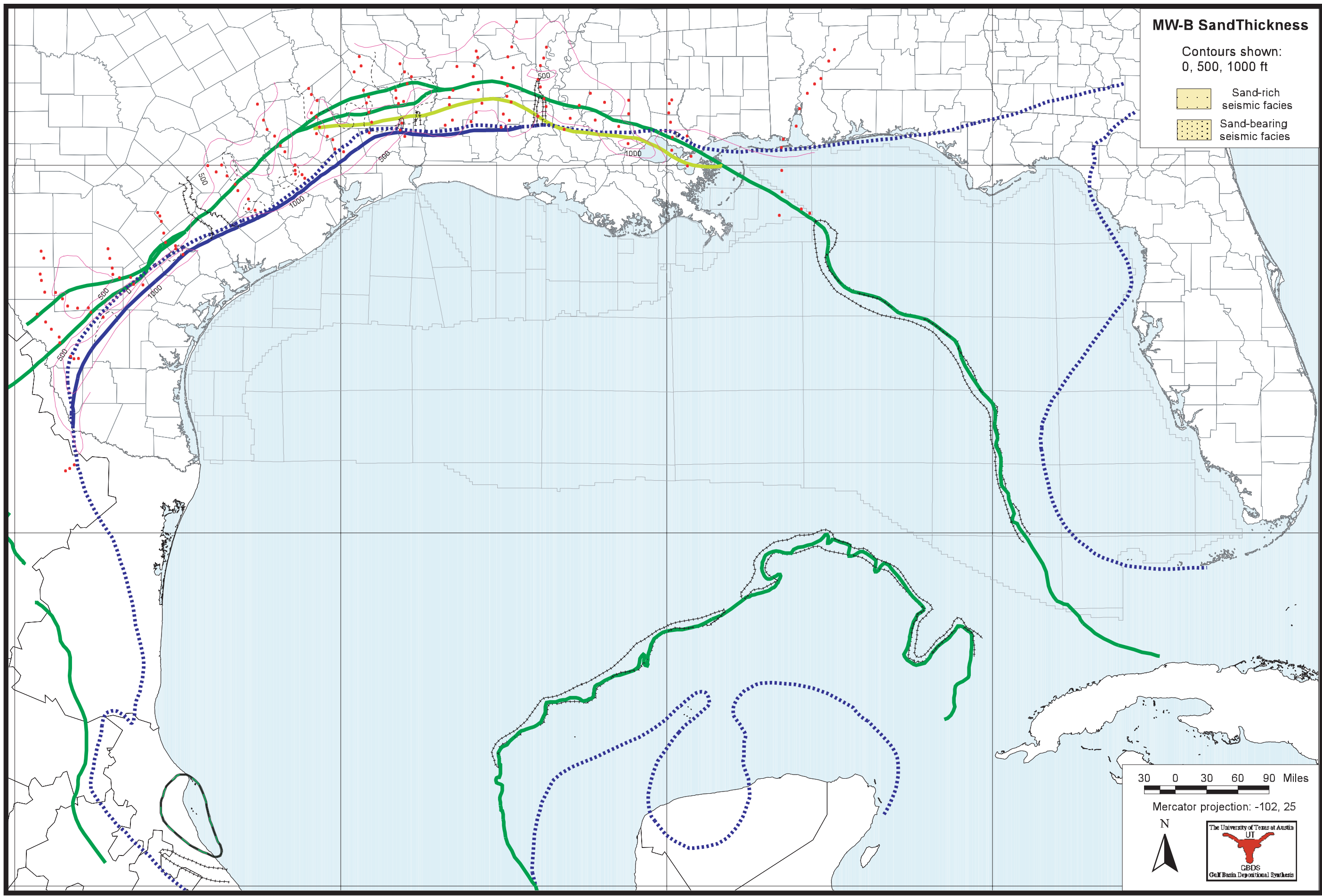
30 0 30 60 90 Miles

Mercator projection: -102, 25



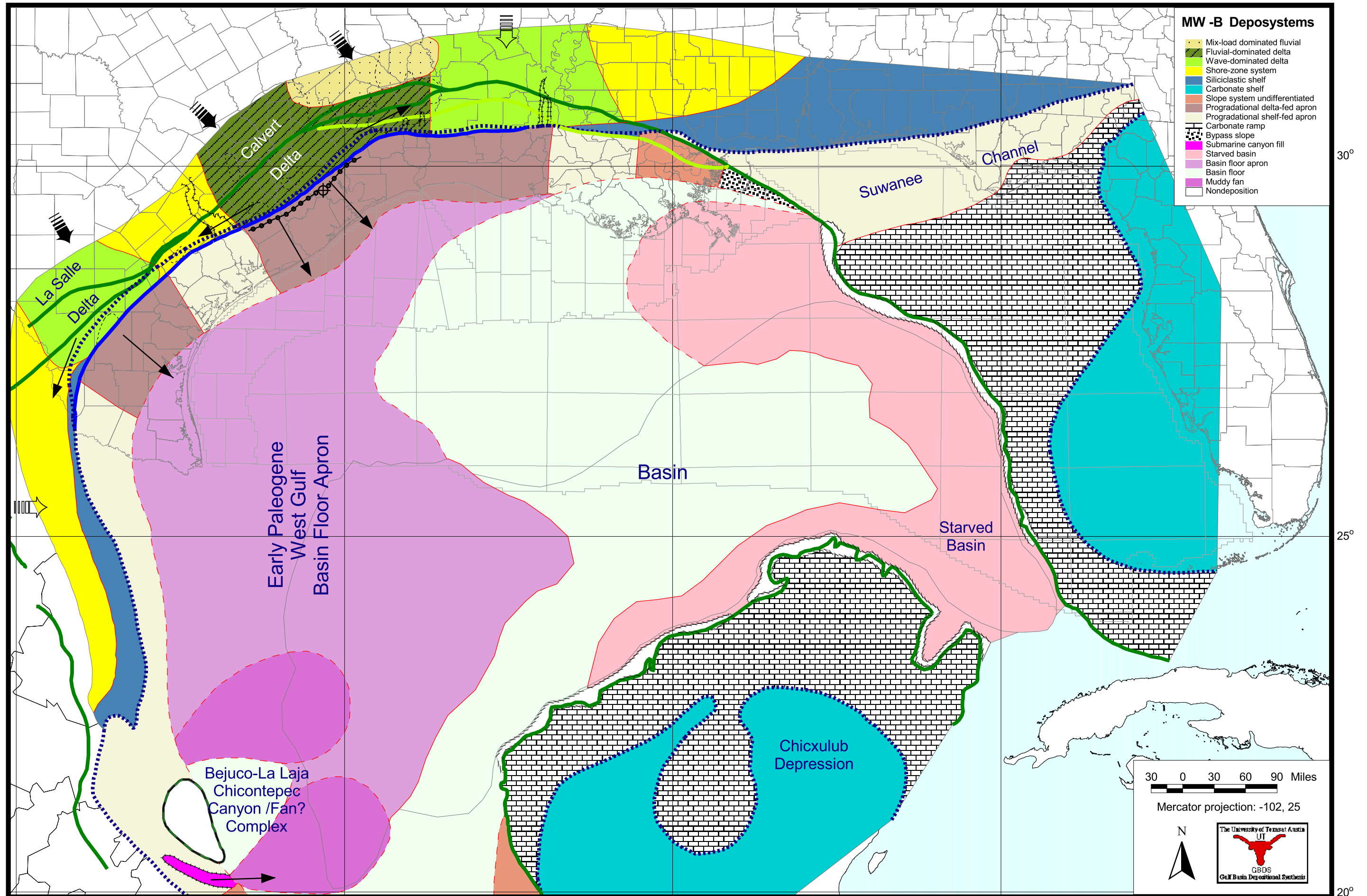






MW -B Deposystems

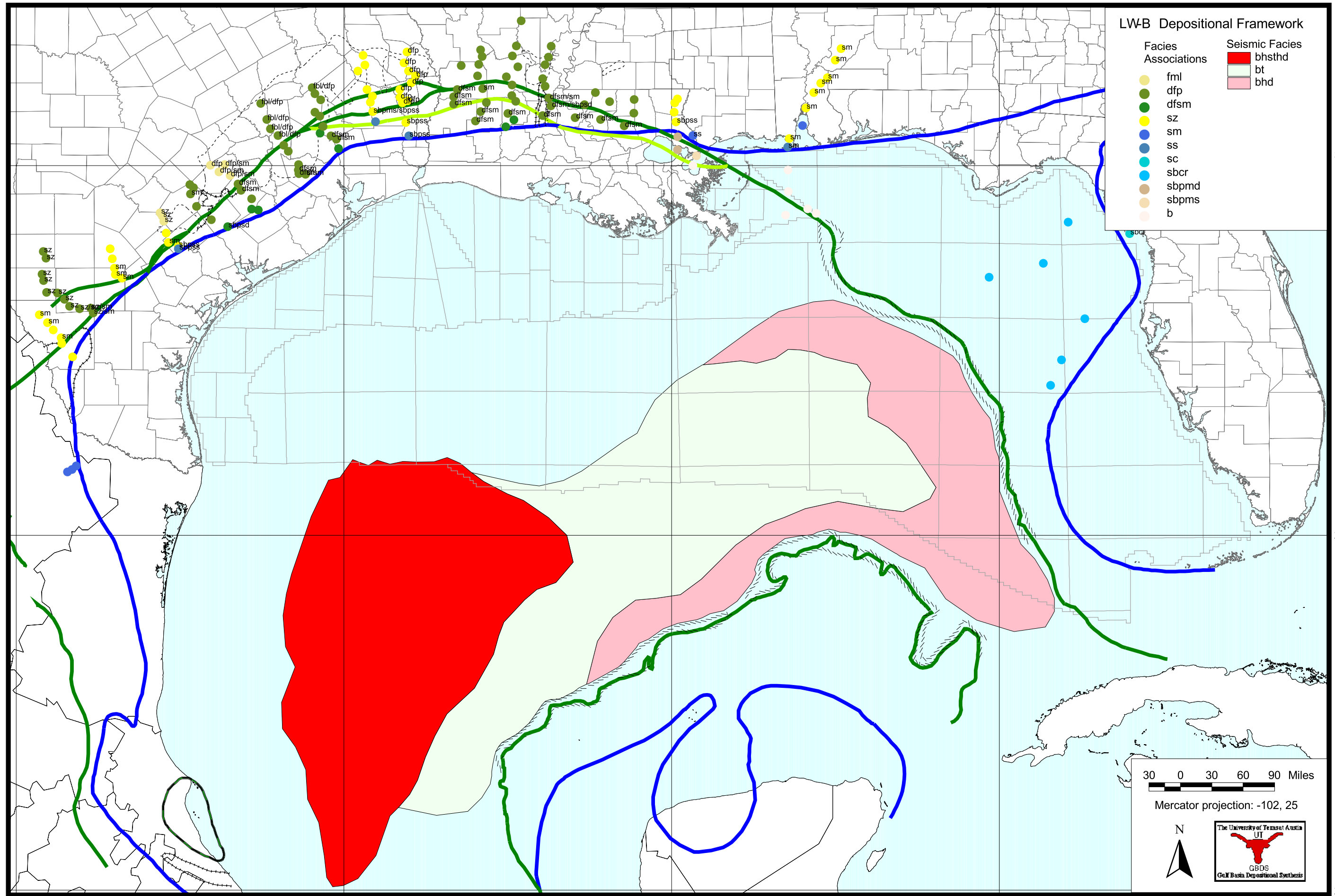
- Mix-load dominated fluvial
- Fluvial-dominated delta
- Wave-dominated delta
- Shore-zone system
- Siliciclastic shelf
- Carbonate shelf
- Slope system undifferentiated
- Progradational delta-fed apron
- Progradational shelf-fed apron
- Carbonate ramp
- Bypass slope
- Submarine canyon fill
- Starved basin
- Basin floor apron
- Basin floor
- Muddy fan
- Nondeposition

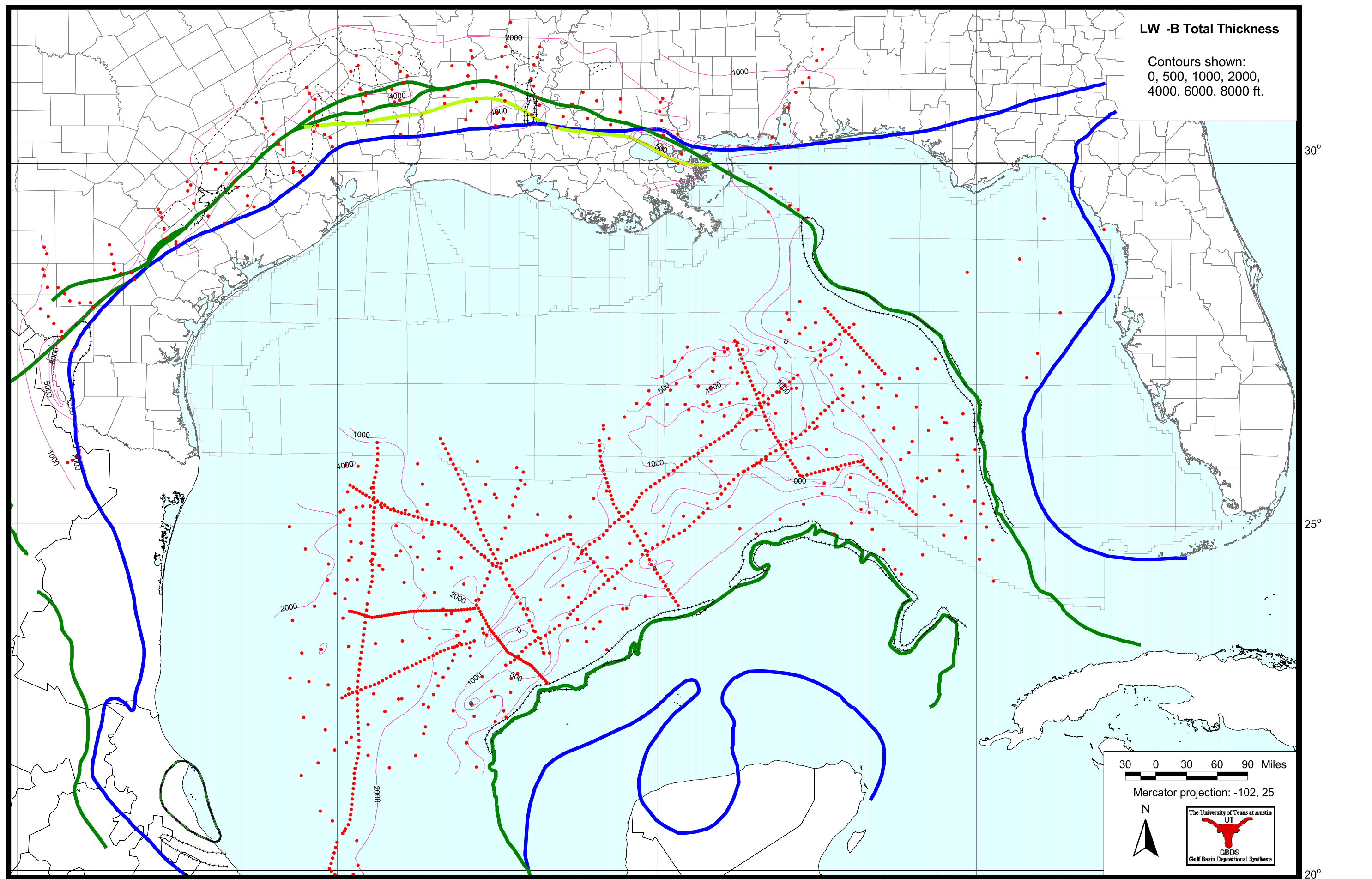


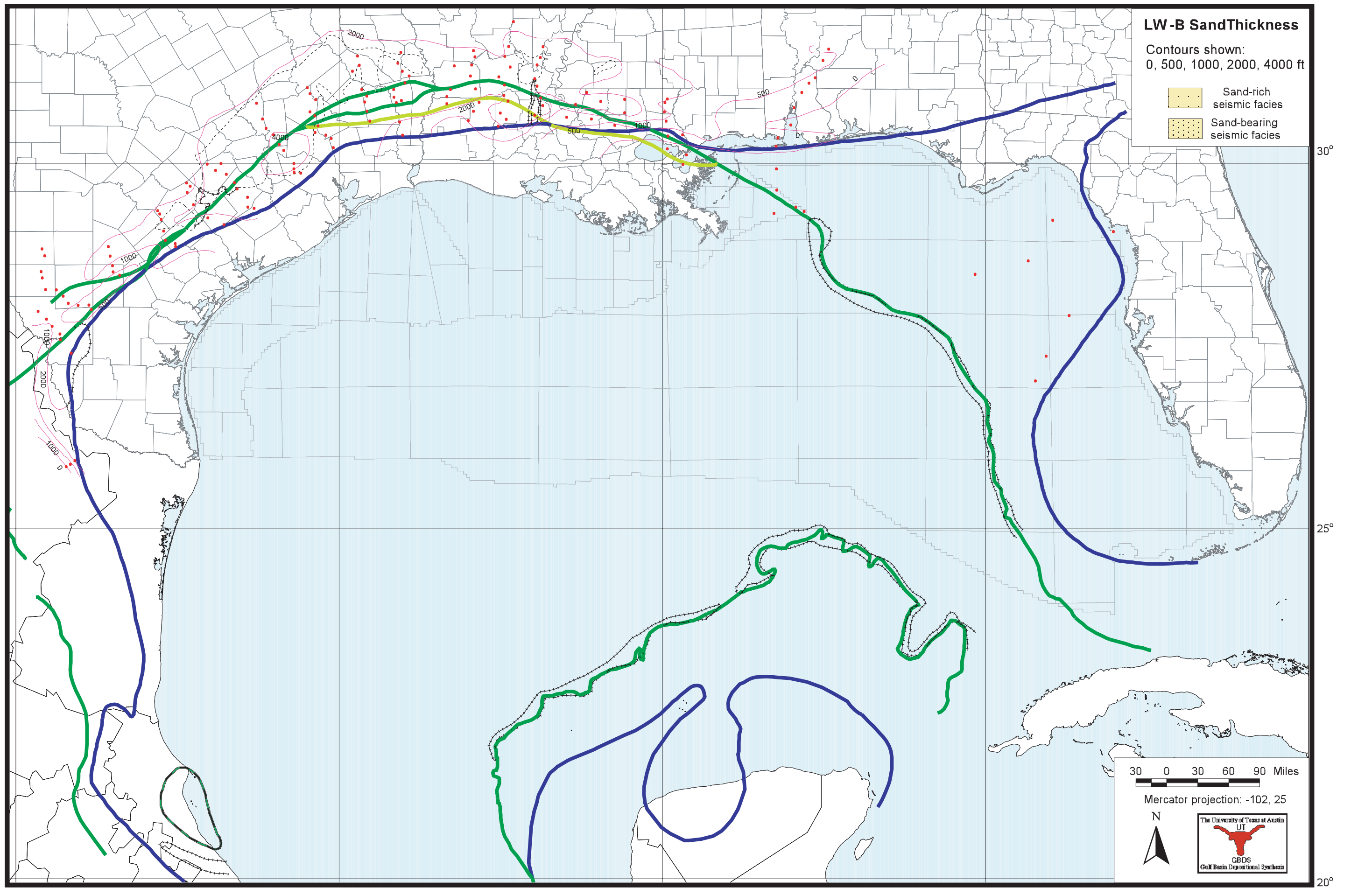
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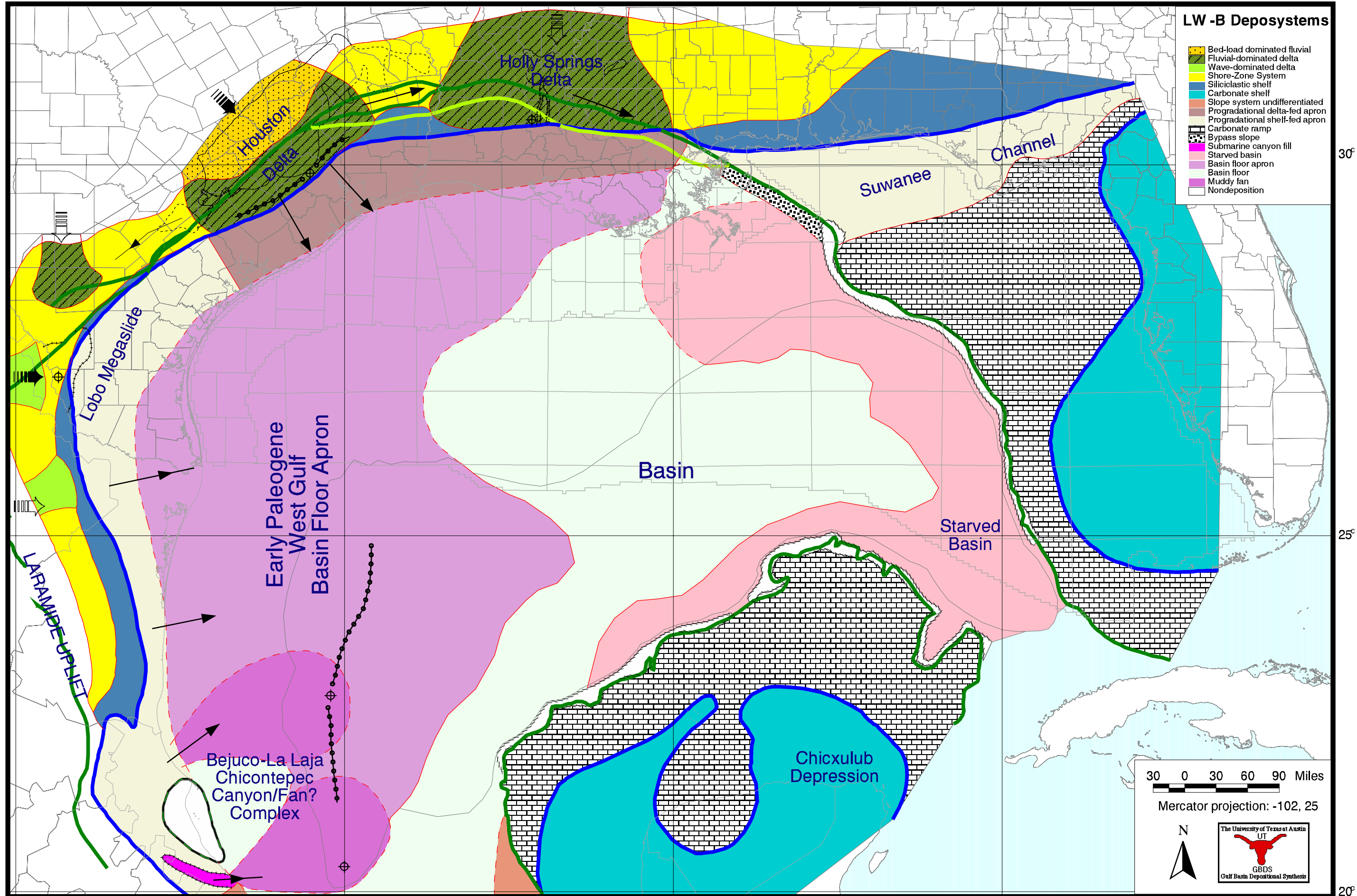
25°

20°











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