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Supplemental Material

SUPPLEMENTAL FIGURE CAPTIONS

Figure S1. Well log cross section B-B' (Bebout and Gutiérrez, 1982), one of the six cross sections, A-A' through F-F' (Fig. 3) covering southwest Louisiana, from which we measure fault displacement (Fig. 6, Tables S1–S6). Cross sections contain well logs from selected representative wells (numbered 1–12) used to identify the major horizons by lithostratigraphic and biostratigraphic correlation. Well logs are spontaneous potential (left side of each well log) and electrical resistivity (right side of each well) logs. Faults (solid black near-vertical lines) are representative of several others in the area (Bebout and Gutiérrez, 1982), and record displacement of the tops (connected solid and dashed lines across wells) i.e., vertical separation of the major stratigraphic units (upper case letters between well logs, Fig. 5) in southwest Louisiana. Incremental throw is calculated from the fault offsets measured from well logs i.e., from the cumulative throw using the method in Figure 4. Stratigraphic units are sediments of major transgressive and regressive cycles. Biostratigraphic markers (mixed scale letters e.g. N s) define the relative ages of stratigraphic intervals.

Note that well log data shallower than 3000 ft (~0.9 km) are absent, and that this results in limited fault displacement measurements for Upper Miocene-Recent sediments (Tables S1–S6) from the well-log cross sections. In addition, towards the south (right side of cross section), the tops of the major stratigraphic units are buried deeper than the maximum depth of the well logs and fault displacement estimates for these deeply buried sediments and their corresponding periods are unavailable.

Figure S2. Well log cross section N-N' (Bebout and Gutiérrez, 1983), one of the five cross sections M-M' through N-N' (Fig. 3), covering southeast Louisiana, from which we measure fault displacement (Fig. 7, Tables S7–S11). Cross sections contain well logs from selected representative wells (numbered 1–17) used to identify the major horizons by lithostratigraphic and biostratigraphic correlation. Well logs are spontaneous potential (left side of each well log) and electrical resistivity (right side of each well) logs. Faults (solid black near-vertical lines) are representative of several others in the area (Bebout and Gutiérrez, 1983), and record displacement of the tops (connected solid and dashed lines across wells) i.e., vertical separation of the major stratigraphic units (upper case letters between well logs, Fig. 5) in southeast Louisiana. Incremental throw is calculated from the fault offsets measured from well logs i.e., from the cumulative throw using the method in Figure 4. Stratigraphic units are sediments of major transgressive and regressive cycles. Biostratigraphic markers (mixed scale letters e.g. Bi f) define the relative ages of stratigraphic intervals.

Note that well log data shallower than 3000 ft (~0.9 km) are absent, and that this results in limited fault displacement measurements for Upper Miocene-Recent sediments (Tables S7-S11) from the well-log cross sections. In addition, towards the south (right side of cross section), the tops of the major stratigraphic units are buried deeper than the maximum depth of the well logs and fault displacement estimates for these deeply buried sediments and their corresponding periods are unavailable.

Figure S3. Faults within seismic cross section 1 (Figure 3) from which fault throw were measured. Incremental throw is calculated from the throw cumulative throw measured directly from the seismic profile using the method in Figure 4.

Figure S4. LiDAR Digital Elevation Model (DEM) (<http://atlas.lsu.edu/lidar>) of southeast Louisiana, from which vertical displacement and slopes of fault scarps (Fig. 9) were measured.

SUPPLEMENTAL TABLE CAPTIONS

Table S1. Incremental Throw (ΔT) for cross section A-A'

Table S2. Incremental Throw (ΔT) for cross section B-B'

Table S3. Incremental Throw (ΔT) for cross section C-C'

Table S4. Incremental Throw (ΔT) for cross section D-D'

Table S5. Incremental Throw (ΔT) for cross section E-E'

Table S6. Incremental Throw (ΔT) for cross section F-F'

Table S7. Incremental Throw (ΔT) for cross section M-M'

Table S8. Incremental Throw (ΔT) for cross section N-N'

Table S9. Incremental Throw (ΔT) for cross section O-O'

Table S10. Incremental Throw (ΔT) for cross section P-P'

Table S11. Incremental Throw (ΔT) for cross section Q-Q'

Table S12. Incremental Throw (ΔT) for fault 1 from seismic section 1

Table S13. Incremental Throw (ΔT) for fault 2 from seismic section 1

Table S14. Incremental Throw (ΔT) for fault 3 from seismic section 1

Table S15. Incremental Throw (ΔT) for fault 4 from seismic section 2

Table S16. Incremental Throw (ΔT) for fault 5 from seismic section 3

Table S17. Incremental Throw (ΔT) for fault 6 from seismic section 4

Table S18. Heights and slopes of fault scarps of the Tepehate fault system (southwest Louisiana)

Table S19. Heights and slopes of fault scarps of the Baton Rouge fault system (southeast Louisiana)

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Bebout, D.G., and Gutiérrez, D.R., 1982, Regional Cross Sections, Louisiana Gulf Coast: Western Part, Louisiana Geological Survey Folio Series No. 5, 11p.

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FIGURES S1 and S2

Supplemental Figures 1 and 2 (well log cross sections) are the property of Louisiana Geological Survey and are available only as hard copies. These cross sections are part of the Louisiana Geological Survey Folio series no. 5 and no.6. Images of these well log cross sections were provided for review of the manuscript but cannot be published here for copyright reasons. See figure captions for more details on the well log cross sections.

For details on how to order these well log cross sections, please visit <https://www.lsu.edu/lgs/publications/products/folio-series.php> or contact Melissa Esnault (225-578-5320) or email mesnau1@lsu.edu.

Omale_Supplemental Figure 4_Manuscript 1

TABLE S1. INCREMENTAL THROW (ΔT) FOR CROSS SECTION A-A'

Unit*	Incremental throw (m)														
	1 [†]	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Middle Miocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Lower Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15	38	83	60	195	120
Anahuac	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	68	120	98	75	120	N.D.
Frio	N.D.	N.D.	N.D.	N.D.	23	15	0	30	45	83	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	N.D.	N.D.	15	15	0	0	15	15	23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	N.D.	N.D.	15	23	0	8	45	45	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	68	38	0	0	0	8	30	98	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 1-15 represent faults identified sequentially from north to south within cross section A-A'.

[§]N.D. = no data.

TABLE S2. INCREMENTAL THROW (ΔT) FOR CROSS SECTION B-B'

Unit*	Incremental throw (m)										
	1 [†]	2	3	4	5	6	7	8	9	10	11
Middle Miocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75	N.D.
Lower Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1035	285	248
Anahuac	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	135	N.D.	N.D.
Frio	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	37.5	540	N.D.	N.D.	N.D.
Vicksburg/Jackson	N.D.	N.D.	N.D.	60	120	135	15	240	N.D.	N.D.	N.D.
Cockfield (Yegua)	N.D.	15	30	7.5	22.5	150	7.5	N.D.	N.D.	N.D.	N.D.
Sparta	30	75	22.5	7.5	7.5	N.D.	90	N.D.	N.D.	N.D.	N.D.
Wilcox	45	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Midway	7.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 1-11 represent faults identified sequentially from north to south within cross section B-B'.

[§]N.D. = no data.

TABLE S3. INCREMENTAL THROW (ΔT) FOR CROSS SECTION C-C'

Unit*	Incremental throw (m)												
	1 [†]	2	3	4	5	6	7	8	9	10	11	12	13
Middle Miocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	22.5	90
Lower Miocene	N.D.	N.D.	N.D.	N.D.	22.5	15	30	90	60	150	375	52.5	75
Anahuac	15	N.D.	N.D.	N.D.	30	7.5	172.5	0	75	30	345	15	N.D.
Frio	22.5	15	15	7.5	37.5	60	217.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	15	0	0	7.5	60	37.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	22.5	0	0	7.5	90	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	30	67.5	45	67.5	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 1-13 represent faults identified sequentially from north to south within cross section C-C'.

[§]N.D. = no data.

TABLE S4. INCREMENTAL THROW (ΔT) FOR CROSS SECTION D-D'

Unit*	Incremental throw (m)													
	1 [†]	2	3	4	5	6	7	8	9	10	11	12	13	14
Upper Miocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15	N.D.	N.D.
Middle Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15	15	15	67.5	45
Lower Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	60	60	67.5	90	120	45	N.D.	N.D.	N.D.
Anahuac	N.D.	N.D.	N.D.	N.D.	N.D.	15	15	22.5	75	N.D.	N.D.	N.D.	N.D.	N.D.
Frio	N.D.	30	22.5	N.D.	97.5	45	75	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	30	7.5	60	105	52.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	0	22.5	37.5	15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	52.5	45	0	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Wilcox	N.D.	30	52.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 1-14 represent faults identified sequentially from north to south within cross section D-D'.

[§]N.D. = no data.

TABLE S5. INCREMENTAL THROW (ΔT) FOR CROSS SECTION E-E'

Unit*	Incremental throw (m)												
	1 [†]	2	3	4	5	6	7	8	9	10	11	12	13
Middle Miocene	N.D. [§]	N.D.	N.D.	N.D.	15	60	22.5	30	150	45	75	30	30
Lower Miocene	N.D.	N.D.	30	30	30	97.5	22.5	0	195	52.5	60	60	N.D.
Anahuac	60	N.D.	112.5	15	7.5	157.5	120	345	N.D.	37.5	N.D.	N.D.	N.D.
Frio	7.5	15	45	135	247.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	15	30	247.5	135	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	37.5	15	150	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	75	7.5	15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Wilcox	225	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

†Numbers 1-13 represent faults identified sequentially from north to south within cross section E-E'.

§N.D. = no data.

TABLE S6. INCREMENTAL THROW (ΔT) FOR CROSS SECTION F-F'

Unit*	Incremental throw (m)									
	1 [†]	2	3	4	5	6	7	8	9	10
Pliocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Upper Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Middle Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	37.5
Lower Miocene	N.D.	N.D.	N.D.	N.D.	187.5	112.5	97.5	135	120	37.5
Anahuac	15	0	15	0	22.5	15	7.5	30	15	52.5
Frio	15	15	22.5	15	15	532.5	270	135	225	N.D.
Vicksburg/Jackson	0	0	7.5	90	390	300	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	22.5	0	0	30	150	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	7.5	60	30	30	112.5	N.D.	N.D.	N.D.	N.D.	N.D.
Wilcox	135	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

†Numbers 1-10 represent faults identified sequentially from north to south within cross section F-F'.

§N.D. = no data.

TABLE S6 CONTINUED. INCREMENTAL THROW (ΔT) FOR CROSS SECTION F-F'

Unit*	Incremental throw (m)									
	11 [†]	12	13	14	15	16	17	18	19	20
Pliocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15	15
Upper Miocene	N.D.	N.D.	N.D.	22.5	N.D.	52.5	75	97.5	30	30
Middle Miocene	N.D.	N.D.	210	60	165	150	127.5	67.5	30	60
Lower Miocene	37.5	37.5	570	97.5	22.5	270	270	N.D.	N.D.	N.D.
Anahuac	22.5	202.5	697.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Frio	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Wilcox	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 11-20 represent faults identified sequentially from north to south within cross section F-F'.

[§]N.D. = no data.

TABLE S7. INCREMENTAL THROW (ΔT) FOR CROSS SECTION M-M'

Unit*	Incremental throw (m)													
	1 [†]	2	3	4	5	6	7	8	9	10	11	12	13	14
Pliocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	67.5	90	15	7.5	N.D.	127.5	195	90	525
Upper Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	97.5	30	0	22.5	345	262.5	435	15	420
Middle Miocene	30	30	52.5	45	45	120	N.D.	90	135	N.D.	N.D.	N.D.	N.D.	N.D.
Lower Miocene	30	30	67.5	120	105	195	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Anahuac	45	60	7.5	45	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 1-14 represent faults identified sequentially from north to south within cross section M-M'.

[§]N.D. = no data.

TABLE S8. INCREMENTAL THROW (ΔT) FOR CROSS SECTION N-N'

Unit*	Incremental throw (m)								
	1 [†]	2	3	4	5	6	7	8	9
Pliocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	15	52.5	15	15
Upper Miocene	N.D.	N.D.	N.D.	30	30	15	37.5	15	15
Middle Miocene	N.D.	37.5	15	15	105	45	120	45	45
Lower Miocene	22.5	30	0	15	75	N.D.	N.D.	N.D.	N.D.
Anahuac	7.5	90	15	60	150	N.D.	N.D.	N.D.	N.D.
Frio	15	22.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	15	45	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	37.5	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	52.5	75	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 1-9 represent faults identified sequentially from north to south within cross section N-N'.

[§]N.D. = no data.

TABLE S8 CONTINUED. INCREMENTAL THROW (ΔT) FOR CROSS SECTION N-N'

Unit*	Incremental throw (m)							
	10 [†]	11	12	13	14	15	16	17
Pliocene	30	15	45	15	60	105	90	67.5
Upper Miocene	52.5	15	15	N.D. [§]	75	375	180	172.5
Middle Miocene	202.5	180	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Lower Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Anahuac	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Frio	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†]Numbers 10-17 represent faults identified sequentially from north to south within cross section N-N'.

[§]N.D. = no data.

TABLE S9. INCREMENTAL THROW (ΔT) FOR CROSS SECTION O-O'

Unit*	Incremental throw (m)						
	1 [†]	2	3	4	5	6	7
Pliocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	N.D.	75
Upper Miocene	N.D.	N.D.	N.D.	N.D.	N.D.	90	1005
Middle Miocene	N.D.	60	120	75	405	N.D.	N.D.
Lower Miocene	180	157.5	555	N.D.	N.D.	N.D.	N.D.
Anahuac	0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Frio	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Wilcox	13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

†Numbers 1-7 represent faults identified sequentially from north to south within cross section O-O'.

§N.D. = no data.

TABLE S10. INCREMENTAL THROW (ΔT) FOR CROSS SECTION P-P'

Unit*	Incremental throw (m)							
	1 [†]	2	3	4	5	6	7	8
Upper Miocene	N.D. [§]	N.D.	N.D.	N.D.	N.D.	90	1395	367.5
Middle Miocene	N.D.	N.D.	360	202.5	195	N.D.	N.D.	N.D.
Lower Miocene	255	210	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Anahuac	0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Frio	0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

*See figure 3 for location and stratigraphic chart in figure 5 for ages.

†Numbers 1-8 represent faults identified sequentially from north to south within cross section P-P'.

§N.D. = no data.

TABLE S11. INCREMENTAL THROW (ΔT) FOR CROSS SECTION Q-Q'

Unit*	Incremental throw (m)						
	1 [†]	2	3	4	5	6	7
Upper Miocene	0	0	0	0	0	60	450
Middle Miocene	22.5	30	157.5	75	210	N.D. [§]	N.D.
Lower Miocene	37.5	60	22.5	885	N.D.	N.D.	N.D.
Anahuac	15	30	120	N.D.	N.D.	N.D.	N.D.
Frio	15	15	15	N.D.	N.D.	N.D.	N.D.
Vicksburg/Jackson	15	0	N.D.	N.D.	N.D.	N.D.	N.D.
Cockfield (Yegua)	15	0	N.D.	N.D.	N.D.	N.D.	N.D.
Sparta	22.5	0	N.D.	N.D.	N.D.	N.D.	N.D.
Wilcox	22.5	30	N.D.	N.D.	N.D.	N.D.	N.D.
Midway	15	0	N.D.	N.D.	N.D.	N.D.	N.D.

* See figure 3 for location and stratigraphic chart in figure 5 for ages.

[†] Numbers 1-7 represent faults identified sequentially from north to south within cross section Q-Q'.

[§] N.D. = no data.

TABLE S12. INCREMENTAL THROW (ΔT) FOR FAULT 1 FROM SEISMIC SECTION 1

Unit	Age (Ma) *	Throw (m)	Throw Error (m)
Pleistocene	0	38	5.7
Pliocene	2.59	38	5.7
Late Miocene	5.33	15	2.25
Early Miocene	11.63	45	6.75

*Fault 1 is the first fault from north to south within the cross section. See figure 3 for location.

*Numbers are for the end of the period represented by each chronostratigraphic unit according to Gradstein et al., 2012.

TABLE S13. INCREMENTAL THROW (ΔT) FOR FAULT 2 FROM SEISMIC SECTION 1*

Unit	Age (Ma) †	Throw (m)	Throw Error (m)
Pleistocene	0	31	1
Pliocene	2.59	46	10
Late Miocene	5.33	30	7

*Fault 2 is the second fault from north to south within the cross section. See figure 3 for location.

†Numbers are for the end of the period represented by each chronostratigraphic unit according to Gradstein et al., 2012.

TABLE S14. INCREMENTAL THROW (ΔT) FOR FAULT 3 FROM SEISMIC SECTION 1*

Unit	Age (Ma) †	Throw (m)	Throw Error (m)
Pleistocene	0	30	4.5
Pliocene	2.59	61	9.15
Early Miocene	11.63	274	41.1

*Fault 3 is the third fault from north to south within the cross section. See figure 3 for location.

†Numbers are for the end of the period represented by each chronostratigraphic unit according to Gradstein et al., 2012.

TABLE S15. INCREMENTAL THROW (ΔT) FOR FAULT 4 FROM SEISMIC SECTION 2*

Unit	Age (Ma) †	Throw (m)	Throw Error (m)
Pleistocene	0	18	2.7
Pliocene	2.59	46	6.9

*Numbers are for the end of the period represented by each chronostratigraphic unit according to Gradstein et al., 2012.

TABLE S16. INCREMENTAL THROW (ΔT) FOR FAULT 5 FROM SEISMIC SECTION 3

Unit	Age (Ma) *	Throw (m)	Throw Error (m)
Pleistocene	0	34	5.1
Pliocene	2.59	58	8.7

*Numbers are for the end of the period represented by each chronostratigraphic unit according to Gradstein et al., 2012.

TABLE S17. INCREMENTAL THROW (ΔT) FOR FAULT 6 FROM SEISMIC SECTION 4

Unit	Age (Ma) *	Throw (m)	Throw Error (m)
Pleistocene	0	61	9.15
Pliocene	2.59	137	20.55
Late Miocene	5.33	122	18.3

*Numbers are for the end of the period represented by each chronostratigraphic unit according to Gradstein et al., 2012.

TABLE S18. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE TEPETATE FAULT SYSTEM (SOUTHWEST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-92.86622	30.42688	1.779	-0.0050	0.004	0.00001057
-92.84145	30.42346	2.011	-0.0102	0.028	0.00003497
-92.85756	30.42509	2.321	-0.0118	0.010	0.00006402
-92.85124	30.42457	2.366	-0.0173	0.046	0.00000177
-92.83753	30.42189	1.296	-0.0088	0.015	0.00015851
-92.82443	30.42138	3.364	-0.0076	0.015	0.00006472
-92.83069	30.42177	2.635	-0.0089	0.018	0.00001935
-92.78403	30.41658	1.903	-0.0075	0.010	0.00001134
-92.79676	30.42068	1.800	-0.0112	0.016	0.00006655
-92.76364	30.41910	2.238	-0.0063	0.014	0.00007796
-92.74158	30.42528	1.449	-0.0155	0.019	0.00006817
-92.73450	30.42552	2.575	-0.0174	0.017	0.00000350
-92.71548	30.42631	2.882	-0.0228	0.020	0.00013765
-92.72113	30.42583	3.055	-0.0224	0.030	0.00038350
-92.70175	30.42791	4.065	-0.0183	0.014	0.00000237
-92.65513	30.43283	1.367	-0.0069	0.007	0.00000029
-92.68573	30.43306	2.053	-0.0046	0.048	0.00004259
-92.74718	30.42475	1.425	-0.0129	0.015	0.00002633
-93.52053	30.38733	4.264	-0.0168	0.016	0.00021559
-93.51889	30.38835	5.041	-0.0114	0.022	0.00001602
-93.51618	30.38940	7.724	-0.0174	0.064	0.00063379
-93.51375	30.38892	7.399	-0.0167	0.012	0.00003615
-93.50662	30.39156	8.781	-0.0149	0.030	0.00047771
-93.49750	30.39596	3.171	-0.0072	0.012	0.00000891
-93.49103	30.39946	5.684	-0.0160	0.019	0.00039537
-93.48251	30.40265	4.055	-0.0183	0.010	0.00000002
-93.47807	30.40433	1.765	-0.0090	0.009	0.00001609
-93.47605	30.40516	1.345	-0.0053	0.015	0.00000141
-93.47372	30.40630	1.179	-0.0027	0.011	0.00005461
-93.46657	30.40955	4.538	-0.0179	0.035	0.00057957
-93.45913	30.41211	7.652	-0.0216	0.207	0.00021344
-93.45009	30.41313	12.696	-0.0430	0.051	0.00000352
-93.44764	30.41330	9.183	-0.0363	0.237	0.00287099
-93.43764	30.41690	5.772	-0.0391	0.091	0.00007633
-93.43161	30.41760	1.016	-0.0189	0.014	0.00012397
-93.42495	30.41925	0.650	-0.0165	0.650	0.00017092
-93.41610	30.42164	4.060	-0.0092	0.030	0.00001164
-93.41195	30.42087	8.138	-0.0275	0.021	0.00025372
-93.40769	30.42061	10.850	-0.0367	0.041	0.00136682
-93.40281	30.41968	6.446	-0.0109	0.026	0.00000000
-93.39957	30.42095	11.308	-0.0255	0.054	0.00111207

TABLE S18 CONTINUED. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE
TEPETATE FAULT SYSTEM (SOUTHWEST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-93.38718	30.42212	2.784	-0.0204	0.023	0.00000594
-93.38229	30.42254	1.643	-0.0176	0.053	0.00040660
-93.37987	30.42295	5.342	-0.0181	0.026	0.00000061
-93.37733	30.42370	9.841	-0.0388	0.074	0.00007389
-93.36354	30.42113	1.426	-0.0072	0.014	0.00000008
-93.34522	30.41557	10.287	-0.0174	0.030	0.00106979
-93.34152	30.41408	7.476	-0.0253	0.075	0.00001769
-93.32326	30.41923	11.204	-0.0379	0.044	0.00188959
-93.31139	30.42034	8.734	-0.0296	0.113	0.00113431
-93.29909	30.42326	8.540	-0.0385	0.126	0.00170576
-93.23485	30.51643	5.169	-0.0175	0.012	0.00000078
-93.21961	30.51671	3.989	-0.0202	0.025	0.00005252
-93.21213	30.51825	7.197	-0.0162	0.101	0.00007004
-93.19877	30.52087	6.702	-0.0605	0.103	0.00326621
-93.18857	30.52152	8.643	-0.0390	0.395	0.01106927
-93.17893	30.52322	5.297	-0.0179	0.154	0.00047935
-93.20366	30.51943	1.077	-0.0061	0.015	0.00001087
-93.16014	30.52518	1.102	-0.0143	0.017	0.00000867
-93.12695	30.53010	5.397	-0.0304	0.053	0.00134353
-93.12304	30.53003	10.469	-0.0236	0.209	0.00005461
-93.11923	30.53002	9.045	-0.0255	0.078	0.00000396
-93.11566	30.52991	7.264	-0.0205	0.100	0.00264864
-93.11089	30.52944	5.463	-0.0123	0.056	0.00071758
-93.10618	30.52891	5.378	-0.0152	0.186	0.00482885
-93.08030	30.50365	4.915	-0.0222	0.106	0.00038677
-93.07484	30.50717	7.204	-0.0244	0.024	0.00003117
-93.07221	30.50827	2.375	-0.0094	0.008	0.00000130
-93.06394	30.51139	1.199	-0.0034	0.005	0.00003053
-93.04410	30.51748	5.427	-0.0184	0.074	0.00045996
-93.03173	30.52010	5.836	-0.0165	0.043	0.00018023
-93.02713	30.52035	4.656	-0.0158	0.014	0.00000153
-93.02338	30.52163	3.404	-0.0173	0.033	0.00021038
-93.01989	30.52293	3.099	-0.0262	0.072	0.00000121
-93.01401	30.52314	2.768	-0.0125	0.029	0.00039932
-93.00713	30.52344	1.666	-0.0469	0.035	0.00007449
-92.99976	30.52417	1.750	-0.0049	0.027	0.00000073
-92.96128	30.51841	1.463	-0.0190	0.019	0.00026019
-92.94187	30.51524	1.343	-0.0030	0.005	0.00000924
-93.38627	30.51684	5.450	-0.0123	0.043	0.00014707
-93.33515	30.53129	6.533	-0.0332	0.184	0.00000239
-92.85029	30.52195	1.909	-0.0172	0.031	0.00027528

TABLE S18 CONTINUED. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE
TEPETATE FAULT SYSTEM (SOUTHWEST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-92.83958	30.52151	1.882	-0.0106	0.009	0.00000191
-92.82877	30.52091	1.469	-0.0364	0.053	0.00020003
-92.82609	30.52034	1.563	-0.0123	0.011	0.00012025
-92.82341	30.51976	1.991	-0.0067	0.025	0.00054731
-92.82020	30.51954	1.968	-0.0067	0.058	0.00000017
-92.81699	30.52148	1.357	-0.0084	0.008	0.00000103
-92.80798	30.52308	1.537	-0.0069	0.011	0.00016945
-92.80096	30.52533	2.719	-0.0199	0.018	0.00001022
-92.77940	30.52736	1.481	-0.0100	0.024	0.00009701
-92.76989	30.52636	1.139	-0.0058	0.008	0.00003026
-92.76946	30.52645	1.275	-0.0058	0.008	0.00003629
-92.77922	30.52726	1.579	-0.0098	0.025	0.00010742
-92.75543	30.52177	2.997	-0.0085	0.013	0.00001453
-92.75035	30.52116	3.857	-0.0131	0.057	0.00082498
-92.74641	30.52100	2.748	-0.0078	0.042	0.00000044
-92.74115	30.52073	1.602	-0.0045	0.006	0.00009875
-92.73548	30.51840	2.112	-0.0083	0.043	0.00000215
-92.73221	30.52019	2.265	-0.0115	0.010	0.00012209
-92.72410	30.52485	2.424	-0.0205	0.031	0.00010512
-92.71585	30.52953	4.751	-0.0214	0.018	0.00020307
-92.70180	30.53578	2.167	-0.0086	0.021	0.00013987
-92.68820	30.53744	1.447	-0.0139	0.017	0.00032670
-92.64012	30.53783	1.433	-0.0650	0.010	0.00014177
-92.79421	30.63224	2.7114	-0.0092	0.335	0.00003390
-92.78675	30.63426	3.1074	-0.0088	0.119	0.00003828
-92.77905	30.63523	3.1739	-0.0089	0.017	0.00000597
-92.77357	30.63648	2.1504	-0.0109	0.008	0.00013839
-92.76956	30.63771	1.8334	-0.0062	0.016	0.00000863
-92.76083	30.63869	0.5133	-0.0026	0.002	0.00000128
-92.73831	30.63691	2.8962	-0.0098	0.016	0.00000024
-92.72565	30.63828	2.2274	-0.0075	0.015	0.00000565
-92.71350	30.63979	2.083	-0.0117	0.018	0.00002165
-92.70556	30.64135	1.2577	-0.0092	0.018	0.00021080
-92.69894	30.64190	1.7754	-0.005	0.022	0.00009023
-92.99680	30.58916	2.7646	-0.0078	0.043	0.00006859
-92.99354	30.58841	4.5188	-0.0102	0.044	0.00000209
-92.98719	30.58843	5.0047	-0.0141	0.04	0.00000194
-92.97791	30.58897	2.8791	-0.0179	0.007	0.00003396
-92.96711	30.59082	2.0218	-0.0182	0.005	0.00002127
-92.91416	30.58339	3.5534	-0.016	0.016	0.00003593
-92.90061	30.58680	3.1602	-0.0089	0.027	0.00000408

TABLE S18 CONTINUED. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE
TEPETATE FAULT SYSTEM (SOUTHWEST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-92.89286	30.58885	1.9278	-0.0098	0.016	0.00017195
-92.83124	30.59370	1.7562	-0.004	0.016	0.00003866
-92.79423	30.58919	1.7054	-0.087	0.016	0.00013494
-92.77062	30.59074	2.7914	-0.0173	0.024	0.00022378
-92.76511	30.59005	1.6024	-0.0072	0.01	0.00007536
-92.78554	30.59160	1.437	-0.0049	0.017	0.00000406
-92.75243	30.58909	1.2813	-0.0029	0.008	0.00001063
-92.74830	30.58887	1.7261	-0.0058	0.008	0.00000185

TABLE S19. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE BATON ROUGE
FAULT SYSTEM (SOUTHEAST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-90.801	30.419	1.645	-0.0120	0.014	0.000378
-90.788	30.412	4.026	-0.0240	0.159	0.001300
-90.770	30.415	4.104	-0.0190	0.036	0.000082
-90.767	30.414	1.634	-0.0110	0.034	0.000952
-90.758	30.416	2.694	-0.0080	0.045	0.000039
-90.753	30.416	2.303	-0.0080	0.023	0.000000
-90.736	30.416	1.965	-0.0180	0.012	0.000057
-90.733	30.416	1.667	-0.0180	0.016	0.000140
-90.722	30.415	1.307	-0.0250	0.019	0.000043
-90.719	30.414	1.042	-0.0080	0.026	0.000045
-90.713	30.412	1.289	-0.0140	0.048	0.000124
-90.709	30.411	1.094	-0.0310	0.017	0.000066
-90.617	30.404	1.253	-0.0260	0.034	0.000027
-90.609	30.404	0.652	-0.0060	0.026	0.000323
-90.600	30.405	1.318	-0.0060	0.017	0.000008
-90.596	30.405	1.599	-0.0110	0.049	0.000078
-90.589	30.406	2.262	-0.0150	0.029	0.000020
-90.584	30.406	1.479	-0.0420	0.032	0.000032
-90.579	30.406	2.638	-0.0230	0.031	0.000258
-90.573	30.406	1.601	-0.0300	0.047	0.000315
-90.565	30.407	0.891	-0.0250	0.014	0.000052
-90.553	30.407	1.825	-0.0090	0.018	0.000008
-90.544	30.416	2.041	-0.0040	0.018	0.000118
-90.542	30.416	1.631	-0.0200	0.013	0.000013

TABLE S19 CONTINUED. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE
BATON ROUGE FAULT SYSTEM (SOUTHEAST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-90.540	30.416	1.862	-0.0080	0.013	0.000251
-90.538	30.416	1.403	-0.0400	0.061	0.000042
-90.534	30.416	1.997	-0.0070	0.089	0.001060
-90.412	30.414	2.292	-0.0650	0.079	0.000369
-90.409	30.414	2.534	-0.0590	0.051	0.000214
-90.405	30.414	2.642	-0.0540	0.041	0.000535
-90.402	30.414	3.348	-0.0290	0.047	0.000058
-90.403	30.414	3.05	-0.0380	0.034	0.000348
-90.345	30.408	1.357	-0.0330	0.014	0.000027
-90.351	30.409	0.835	-0.0240	0.01	0.000016
-90.358	30.410	2.151	-0.0260	0.02	0.000085
-90.371	30.412	2.179	-0.0610	0.171	0.001261
-90.332	30.412	1.312	-0.0370	0.029	0.000041
-90.324	30.409	1.132	-0.0300	0.047	0.000374
-90.322	30.404	0.995	-0.0280	0.015	0.000000
-90.319	30.404	1.139	-0.0140	0.01	0.000053
-90.317	30.404	0.675	-0.0060	0.03	0.000483
-90.302	30.405	0.789	-0.0020	0.005	0.000076
-90.291	30.405	1.169	-0.0030	0.008	0.000032
-90.270	30.400	0.48	-0.0140	0.007	0.000002
-90.276	30.403	1.204	-0.0050	0.008	0.000008
-90.284	30.404	1.148	-0.0040	0.009	0.000040
-90.538	30.416	1.403	-0.0400	0.061	0.000042
-90.534	30.416	1.997	-0.0070	0.089	0.001060
-90.505	30.421	1.789	-0.0290	0.042	0.000008
-90.496	30.422	2.928	-0.0400	0.054	0.000156
-90.488	30.423	3.73	-0.0310	0.114	0.000875
-90.483	30.424	3.418	-0.0400	0.124	0.001786
-90.506	30.421	2.313	-0.0390	0.135	0.003505
-90.501	30.422	2.823	-0.0390	0.041	0.000038
-90.496	30.422	2.6	-0.0430	0.202	0.000031
-90.488	30.423	3.393	-0.0370	0.14	0.000498
-90.484	30.424	3.516	-0.0490	0.162	0.000556
-90.467	30.424	2.642	-0.0480	0.023	0.000013
-90.463	30.424	2.853	-0.0400	0.017	0.000000
-90.459	30.423	2.931	-0.0250	0.02	0.000068
-90.455	30.423	2.826	-0.0150	0.018	0.000176
-90.453	30.422	2.597	-0.0250	0.034	0.000094
-90.451	30.422	2.375	-0.0220	0.021	0.000653
-90.444	30.421	2.752	-0.0100	0.169	0.000020
-90.443	30.420	2.336	-0.0250	0.179	0.000446

TABLE S19 CONTINUED. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE
BATON ROUGE FAULT SYSTEM (SOUTHEAST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-90.441	30.420	2.693	-0.0310	0.186	0.000703
-90.439	30.419	2.668	-0.0460	0.112	0.000772
-90.438	30.420	2.645	-0.0130	0.122	0.000847
-90.437	30.419	2.193	-0.0150	0.152	0.000032
-90.672	30.428	1.53	-0.0100	0.046	0.000169
-90.661	30.427	1.632	-0.0170	0.089	0.000028
-90.667	30.428	2.117	-0.0100	0.041	0.000297
-90.941	30.394	4.997	-0.0510	0.084	0.000180
-90.932	30.394	5.969	-0.0480	0.101	0.000127
-90.925	30.396	4.118	-0.0460	0.067	0.000036
-90.910	30.393	1.261	-0.0360	0.054	0.000003
-90.897	30.391	1.858	-0.0520	0.074	0.000001
-90.884	30.391	1.326	-0.0370	0.146	0.000962
-91.101	30.419	4.219	-0.0480	0.403	0.004854
-91.083	30.414	3.983	-0.0390	0.126	0.000055
-91.087	30.414	4.249	-0.0510	0.26	0.001287
-91.081	30.413	4.358	-0.0260	0.052	0.000030
-91.078	30.411	5.1	-0.0560	0.045	0.000994
-91.073	30.410	5.217	-0.0650	0.127	0.002596
-91.065	30.408	5.047	-0.0650	0.333	0.000943
-91.056	30.403	3.945	-0.0220	0.234	0.000000
-91.050	30.396	4.548	-0.0510	0.464	0.000016
-91.043	30.395	4.473	-0.0490	0.355	0.000106
-91.035	30.393	4.203	-0.0190	0.29	0.000087
-91.030	30.393	4.232	-0.0420	0.518	0.008424
-91.023	30.392	5.139	-0.0300	0.397	0.001236
-91.016	30.392	4.447	-0.0460	0.323	0.000595
-91.003	30.389	5.328	-0.0670	0.623	0.004489
-90.832	30.493	1.288	-0.0280	0.021	0.000329
-90.820	30.493	1.112	-0.0230	0.034	0.000002
-90.809	30.493	1.053	-0.0280	0.017	0.000057
-90.815	30.493	1.884	-0.0240	0.034	0.000310
-90.975	30.389	5.321	-0.0680	0.078	0.000020
-90.984	30.389	5.073	-0.0560	0.449	0.000020
-90.960	30.481	2.66	-0.0220	0.029	0.000270
-90.955	30.479	2.712	-0.0260	0.043	0.000049
-90.953	30.479	2.744	-0.0400	0.069	0.000108
-90.951	30.478	3.05	-0.0200	0.033	0.000032
-90.948	30.478	3.365	-0.0270	0.035	0.000274
-90.944	30.479	3.08	-0.0210	0.015	0.000303
-90.936	30.480	3.294	-0.0170	0.09	0.000579

TABLE S19 CONTINUED. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE
BATON ROUGE FAULT SYSTEM (SOUTHEAST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-90.932	30.482	3.357	-0.0120	0.027	0.000264
-90.927	30.482	2.085	-0.0110	0.031	0.000228
-90.923	30.482	1.819	-0.0190	0.03	0.000020
-91.148	30.429	7.793	-0.0310	0.105	0.001148
-91.144	30.429	5.132	-0.0470	0.078	0.000516
-91.139	30.428	6.332	-0.0790	0.326	0.000107
-91.134	30.427	5.676	-0.0370	0.078	0.001213
-91.131	30.426	4.059	-0.0390	0.04	0.000044
-91.122	30.426	5.821	-0.0130	0.157	0.000027
-91.117	30.423	5.89	-0.0530	0.092	0.000017
-91.114	30.422	4.87	-0.0440	0.226	0.000574
-91.108	30.421	3.863	-0.0570	0.165	0.000823
-91.101	30.419	4.219	-0.0480	0.403	0.004854
-91.083	30.414	3.983	-0.0390	0.126	0.000055
-91.087	30.414	4.249	-0.0510	0.26	0.001287
-91.081	30.413	4.358	-0.0260	0.052	0.000030
-91.078	30.411	5.1	-0.0560	0.045	0.000994
-91.073	30.410	5.217	-0.0650	0.127	0.002596
-91.065	30.408	5.047	-0.0650	0.333	0.000943
-91.056	30.403	3.945	-0.0220	0.234	0.000000
-91.050	30.396	4.548	-0.0510	0.464	0.000016
-91.043	30.395	4.473	-0.0490	0.355	0.000106
-91.035	30.393	4.203	-0.0190	0.29	0.000087
-91.030	30.393	4.232	-0.0420	0.518	0.008424
-91.023	30.392	5.139	-0.0300	0.397	0.001236
-91.016	30.392	4.447	-0.0460	0.323	0.000595
-91.003	30.389	5.328	-0.0670	0.623	0.004489
-91.152	30.514	2.322	-0.021	0.036	0.00001903
-91.114	30.51	1.299	-0.034	0.134	0.00026322
-91.133	30.514	1.661	-0.024	0.103	0.00002542
-91.092	30.514	2.416	-0.01	0.064	0.00009418
-91.088	30.514	2.921	-0.012	0.22	0.00047946
-91.071	30.5135	4.188	-0.017	0.188	0.0000546
-91.066	30.513	2.686	-0.037	0.087	0.00049585
-91.063	30.512	2.653	-0.066	0.209	0.00015964
-91.013	30.501	0.789	-0.022	0.051	0.00095166
-90.984	30.489	4.017	-0.05	0.212	0.00003418
-90.99	30.492	3.576	-0.028	0.235	0.00030533
-90.96	30.481	2.66	-0.022	0.029	0.00027048
-90.955	30.479	2.712	-0.026	0.043	0.00004908
-90.953	30.479	2.744	-0.04	0.069	0.00010802

TABLE S19 CONTINUED. HEIGHTS AND SLOPES OF FAULT SCARPS OF THE
BATON ROUGE FAULT SYSTEM (SOUTHEAST LOUISIANA)

Location		Height (m)	Slope (m/m)	Height Error (m)	Slope Error (m)
Longitude	Latitude				
-90.948	30.478	3.365	-0.027	0.035	0.00027433
-90.944	30.479	3.08	-0.021	0.015	0.00030317
-90.936	30.48	3.294	-0.017	0.09	0.00057877
-90.932	30.482	3.357	-0.012	0.027	0.00026425
-90.927	30.482	2.085	-0.011	0.031	0.00022785
-90.923	30.482	1.819	-0.019	0.03	0.00001971
-90.911	30.483	2.317	-0.007	0.035	0.00017096
-90.906	30.483	2.123	-0.015	0.045	0.00002833
-90.901	30.483	2.061	-0.01	0.028	0.00003275
-90.896	30.483	1.561	-0.017	0.027	0.00005151
-90.891	30.483	1.893	-0.014	0.062	0.00064292
-90.886	30.483	2.028	-0.006	0.034	0.00011322
-90.878	30.483	3.238	-0.024	0.023	0.00000265
-90.872	30.482	2.836	-0.021	0.106	0.00009925
-90.867	30.481	2.278	-0.019	0.058	0.00073726
-90.862	30.48	2.838	-0.017	0.016	0.00000122
-90.846	30.478	2.273	-0.012	0.031	0.00003926
-90.853	30.478	2.227	-0.025	0.058	0.00001825
-90.832	30.493	1.288	-0.028	0.021	0.00032921
-90.82	30.493	1.112	-0.023	0.034	0.0000022
-90.809	30.493	1.053	-0.028	0.017	0.00005673
-90.815	30.493	1.884	-0.024	0.034	0.00031048
-90.796	30.488	2.568	-0.014	0.049	0.00011198
-90.792	30.488	2.266	-0.017	0.029	0.00016351
-90.787	30.489	1.632	-0.023	0.06	0.00002865
-90.778	30.489	1.427	-0.016	0.035	0.00002848
-90.768	30.489	1.478	-0.009	0.014	0.00000035
-90.765	30.488	1.648	-0.017	0.021	0.00000008
-90.76	30.487	1.631	-0.017	0.028	0.00001422
-90.756	30.485	1.331	-0.032	0.032	0.00000875
-90.747	30.487	1.485	-0.007	0.052	0.00064227
-90.656	30.48	1.16	-0.033	0.035	0.00001192
-90.691	30.48	1.426	-0.005	0.047	0.00014119
-90.668	30.472	3.441	-0.027	0.077	0.00040219
-90.665	30.472	3.624	-0.024	0.057	0.00016088
-90.653	30.47	2.579	-0.027	0.053	0.00026794
-90.661	30.471	3.298	-0.023	0.093	0.00082336