

Appendix G. UT-GOM2-2 Site H Sediment Strength Data

This appendix contains tables of the sediment strength data acquired at Site H using a handheld vane device, pocket penetrometers, and fall cone and a laboratory scale vane instrument. A description of the measurement timing and methods can be found in Expedition UT-GOM2-2 Methods (Flemings et al., 2025)

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Handheld vane and pocket penetrometer data

Table 1. Undrained shear strength data acquired during UT-GOM2-2 on conventional and conventionalized cores at Site H003 using a handheld vane shear and a pocket penetrometer. A) Number of the measurement; B) Hole; C) Core. H=Geotek Advanced Piston Corer, X= Geotek Rotary Corer, FB= Pressure Coring Tool with Ballvalve (PCTB) in the face bit configuration, CS = PCTB in the cutting shoe configuration; C) Section or piece where the measurements were taken; D) If the section or piece was also designated as a moisture and density whole round (sample code MDW) or a geomechanics whole round (sample core GEOM); E) Depth of the measurement in the section. Depths are revised to account for the consolidation of sediment and voids that happened in College Station, TX (between the onboard Vane/Pen measurements in Table 1 and Salt Lake City table vane/fall cone measurements in Table 2.; F) Archived depth of the measurement in the hole in meters below seafloor (mbsf); G) Compressed depth of the measurement in the hole in mbsf; H) Date the measurements were made; I) Strength measured using the handheld vane device; J) Average strength of up to three measurements using the pocket penetrometer. NM = Not measured.

Section/ piece Name	Archived Depth, surface	Compressed Depth, surface	Handheld Vane Strength	Pocket Pen. Strength	Comments
	mbsf	mbsf	kPa	kPa	
H003-01H-1b	1.15	1.15	4.90	40.00	
H003-01H-2b	2.65	2.65	10.00	27.80	
H003-01H-3b	4.15	4.15	NM	NM	sandy
H003-01H-4b	5.65	5.65	12.40	18.00	
H003-01H-5b	7.01	7.01	12.00	22.90	
H003-02H-1b	9.43	9.25	17.70	13.10	
H003-02H-2b	10.93	10.52	11.80	12.30	
H003-02H-3b	12.43	11.8	13.70	16.30	
H003-02H-4b	13.93	13.07	13.70	13.90	
H003-02H-5b	15.43	14.34	15.70	22.90	
H003-02H-6b	16.93	15.62	19.60	24.50	
H003-02H-7	17.89	16.43	18.60	24.50	

Section/ piece Name	Archived Depth, surface	Compressed Depth, surface	Handheld Vane Strength	Pocket Pen. Strength	Comments
	mbsf	mbsf	kPa	kPa	
H003-03H-1b	19.45	19.31	4.90	NM	too soft
H003-03H-2b	21.14	20.72	19.60	24.50	
H003-03H-3b	22.64	21.97	14.70	27.80	
H003-03H-4b	24.14	23.23	18.60	24.50	
H003-03H-5b	25.79	24.61	19.60	24.50	
H003-03H-6b	27.29	25.86	21.60	27.80	
H003-03H-7	28.44	26.82	19.60	21.20	
H003-06H-1	33.81	33.32	1.00	6.50	
H003-06H-2b	34.91	34.06	19.60	24.50	
H003-06H-3b	36.31	35	26.50	29.40	
H003-06H-4c	38.31	36.35	28.40	26.20	
H003-06H-5a	39.57	37.19	19.60	34.30	
H003-06H-6b	40.91	38.09	27.00	29.40	
H003-07H-1	40.82	40.61	13.70	9.80	water incursion
H003-07H-2	42.32	41.91	27.50	29.40	
H003-07H-3b1	42.90	42.41	21.60	26.20	
H003-07H-4b	45.32	44.5	24.50	32.70	
H003-07H-5b1	45.93	45.03	29.40	29.40	
H003-09H-1a	50.96	50.69	39.20	26.20	
H003-09H-2b1	51.69	51.26	34.30	29.40	
H003-09H-3a	53.55	52.72	33.30	31.10	
H003-09H-4a2	54.97	53.84	35.30	34.30	
H003-09H-5b	56.04	54.68	29.40	34.30	
H003-09H-6a	57.80	56.06	31.40	34.30	
H003-10H-1a2	58.05	57.84	29.40	33.50	
H003-10H-2	59.69	59.23	36.30	39.20	
H003-10H-3b1	60.24	59.61	29.40	34.30	
H003-10H-4	62.15	61.3	43.10	50.70	
H003-10H-5b1	62.83	61.88	39.20	53.90	
H003-10H-6	64.36	63.17	45.10	61.30	
H003-11H-1b	65.13	64.79	57.90	56.40	
H003-11H-2a	67.15	66.32	49.00	62.90	
H003-11H-3a	68.48	67.33	58.80	66.20	
H003-11H-4b	69.61	68.19	61.80	63.70	
H003-11H-5b	71.51	69.63	46.10	69.50	
H003-11H-6a	72.13	70.10	44.10	78.50	
H003-12H-1	72.21	71.85	25.50	NM	bad quality
H003-12H-2b	73.31	72.69	42.20	49.00	
H003-12H-3	75.21	74.13	39.20	52.30	
H003-12H-4a	76.10	74.81	58.80	77.50	
H003-12H-4b	76.71	75.27	49.00	53.90	
H003-12H-5b	78.13	76.35	58.80	69.50	
H003-12H-6c	79.21	77.17	31.40	49.00	
H003-14H-1a	82.27	81.99	34.30	49.00	
H003-14H-2b	83.23	82.76	43.10	44.10	
H003-14H-3a2	85.15	84.32	44.10	44.10	
H003-14H-4a	86.63	85.51	50.00	62.10	

Section/ piece Name	Archived Depth, surface	Compressed Depth, surface	Handheld Vane Strength	Pocket Pen. Strength	Comments
	mbsf	mbsf	kPa	kPa	
H003-14H-5a	87.55	86.26	53.90	57.20	
H003-14H-6b1	88.36	86.91	40.20	52.30	
H003-15CS-2a	88.89	88.89	25.50	40.90	
H003-16H-1b	92.54	92.3	58.80	63.70	
H003-16H-3c	96.20	95.16	58.80	65.40	
H003-16H-4b	97.67	96.3	60.80	73.50	
H003-16H-5	98.94	97.29	44.10	73.50	
H003-17H-1a	98.47	98.31	63.70	61.30	
H003-17H-2b1	99.47	99.05	63.70	67.80	
H003-17H-3b1c	101.46	100.53	68.60	67.80	
H003-17H-4b	103.23	101.84	66.20	86.60	
H003-17H-5	105.19	103.29	58.80	83.40	
H003-17H-6a	105.67	103.65	67.70	75.20	
H003-18H-1a	104.90	104.7	44.10	36.80	
H003-18H-2b1	107.42	106.47	60.80	65.40	
H003-18H-3a	109.08	107.63	32.40	94.80	
H003-18H-4	110.57	108.67	66.70	94.80	
H003-18H-5b	111.68	109.45	71.60	77.60	
H003-18H-6	112.92	110.32	53.90	90.70	
H003-20H-1a	115.00	114.84	69.60	81.70	
H003-20H-2b	116.27	115.91	60.80	73.50	shallow end
H003-20H-3	118.45	117.75	53.90	76.80	
H003-20H-4	119.38	118.54	64.70	83.40	
H003-20H-5b	120.48	119.46	63.70	81.70	
H003-20H-6	122.38	121.07	60.80	83.40	
H003-21H-1a3	122.92	122.76	53.90	58.80	
H003-21H-2a	124.40	124.07	56.90	58.80	
H003-21H-3b	125.69	125.2	68.60	76.80	
H003-21H-4	127.62	126.91	60.80	85.00	
H003-21H-5	128.32	127.52	52.00	70.30	
H003-21H-6b	129.26	128.35	53.90	76.80	
H003-22H-1	130.74	130.74	61.30	71.10	
H003-22H-2b	131.84	131.84	61.30	75.20	
H003-22H-3	133.72	133.72	85.80	98.10	
H003-22H-4b	134.82	134.82	39.20	101.30	
H003-22H-5	136.29	136.29	71.10	97.20	
H003-23H-1a1	137.89	137.74	56.40	77.60	
H003-23H-2b	139.72	139.32	71.10	84.20	
H003-23H-3a1	141.14	140.54	53.90	85.00	
H003-23H-4b	142.50	141.72	73.50	98.10	
H003-23H-5	144.55	143.48	61.30	94.00	
H003-23H-6	145.19	144.04	68.60	97.20	
H003-25H-3	150.76	149.88	61.30		
H003-25H-5a1	152.05	150.82	115.20	163.40	
H003-25H-6c	153.42	151.82	112.80	178.20	
H003-26X-1a	279.87	279.87	132.40	155.30	
H003-26X-2	281.25	281.25	98.10	124.20	

Section/ piece Name	Archived Depth, surface	Compressed Depth, surface	Handheld Vane Strength	Pocket Pen. Strength	Comments
	mbsf	mbsf	kPa	kPa	
H003-26X-3a	281.84	281.84	NM	NM	mush
H003-26X-4b	282.97	282.97	117.70	215.70	
H003-26X-5a	284.70	284.7	122.60	181.40	
H003-26X-6b	285.64	285.64	118.90	188.00	
H003-27CS-4b	288.95	288.95	159.40	166.70	
H003-29CS-5b	296.08	296.08	159.40	219.00	
H002-01FB-1b	645.12	645.12	166.70	212.50	
H002-03FB-2a	677.44	677.44	132.40	76.80	
H002-04FB-4a1	682.27	682.27	156.90	155.30	shallow end
H002-12CS-3b	825.07	824.67	NM	232.90	

Fall cone and laboratory vane data

Table 2. Simplified undrained shear strength data acquired during UT-GOM2-2 on conventional and conventionalized cores at Site H003 with fall cone and automated vane shear in Salt Lake City. MBSF = meters below seafloor. Measurements were taken after reassembly of voids in College Station. Data are here SLC_Fall_Cone_and_Lab_Vane_Log_24Sep23_v2.xlsx

Sample Location	Archived Depth	Compressed Depth	Fall Cone Strength	Lab Vane Peak Strength	Lab Vane Remolded Strength	Remarks
	mbsf	mbsf	kPa	kPa	kPa	
H003-01H-4a	5.45	5.45	13.11	11.93	3.95	
H003-01H-5a	6.81	6.81	10.57	9.90	3.25	
H003-02H-1a	9.23	9.08	13.29	12.79	5.23	
H003-02H-2a	10.73	10.35	40.71	9.48	3.87	
H003-02H-3a	12.23	11.63	6.99	5.58	NM	2nd shear phase did not start.
H003-02H-3a	12.23	11.63	6.99	5.71	1.51	
H003-02H-4a	13.73	12.90	20.05	9.22	2.97	
H003-02H-5a	15.23	14.17	16.15	11.32	3.21	
H003-02H-6a	16.73	15.45	25.04	11.11	4.23	
H003-02H-7	17.89	16.43	14.09	12.20	3.70	
H003-03H-1a	19.25	19.14	3.65	2.89	0.12	
H003-03H-2a	20.94	20.56	30.13	14.09	4.47	
H003-03H-3a	22.34	21.72	155.00	10.11	NM	2nd shear phase did not start.
H003-03H-4a	23.94	23.06	26.06	11.84	3.83	
H003-03H-5a	25.59	24.44	17.22	13.10	4.96	
H003-03H-6a	27.09	25.69	21.15	14.64	4.23	
H003-03H-7	28.44	26.82	25.04	14.26	3.78	
H003-06H-1	33.81	33.32	4.64	NM	NM	Very wet and soft. Both tests failed to start
H003-06H-2a	34.71	33.92	29.49	14.31	4.53	
H003-06H-3a	36.11	34.87	16.68	14.60	5.29	
H003-06H-4c	38.31	35.83	37.82	14.08	NM	2nd shear phase did not start.
H003-06H-4c	38.31	35.83	37.82	14.26	6.02	
H003-06H-5a	39.57	37.19	32.89	19.72	6.02	
H003-06H-6a1	40.57	37.87	33.65	19.40	5.03	
H003-06H-7	42.12	38.91	36.93	22.16	6.49	
H003-07H-1	40.82	40.61	13.07	11.17	3	
H003-07H-2	42.32	41.91	26.06	21.58	6.43	
H003-07H-3a	42.70	42.24	21.91	22.62	7.05	
H003-07H-4b	45.32	44.50	180.44	23.95	6.9	stiffer material
H003-07H-5a	45.73	44.86	24.67	23.15	23.15	
H003-07H-6	47.26	46.18	41.51	31.14	9.45	
H003-08CS-2	47.93	47.93	2.26	NM	NM	Too soft/weak.

Sample Location	Archived Depth	Compressed Depth	Fall Cone Strength	Lab Vane Peak Strength	Lab Vane Remolded Strength	Remarks
	mbsf	mbsf	kPa	kPa	kPa	
H003-08CS-3a	48.31	48.31	9.25	7.64	NM	2nd shear did not start
H003-09H-1a	50.96	50.69	32.02	26.19	7.49	
H003-09H-2a	51.49	51.10	9.25	30.53	11.16	
H003-09H-3a	53.55	52.72	27.10	23.10	6.41	
H003-09H-4a2	54.97	53.84	29.40	26.14	7.75	
H003-09H-5a	55.84	54.52	28.92	24.88	6.9	
H003-09H-6a	57.80	56.06	44.09	21.11	6.09	
H003-10H-1a2	58.05	57.84	18.82	17.50	3.67	
H003-10H-2	58.19	57.96	32.58	20.11	5.9	
H003-10H-2	59.69	59.23	32.02	23.20	5.7	
H003-10H-3a	59.94	59.44	29.40	27.15	8.05	
H003-10H-4	62.15	61.30	36.30	36.88	14.29	
H003-10H-5a	62.63	61.71	73.30	42.98	15.55	
H003-10H-6	64.36	63.17	79.45	49.21	17.76	
H003-11H-1a1	64.85	64.58	39.91	32.25	NM	2nd shear did not start
H003-11H-2a	67.15	66.32	38.40	50.37	22	
H003-11H-3a	68.48	67.33	71.41	51.29	19.22	
H003-11H-4a	69.41	68.04	50.02	37.69	13.85	
H003-11H-5b	71.51	69.63	62.97	55.16	24.08	
H003-11H-6a	72.13	70.10	81.67	49.96	19.38	
H003-12H-1	72.21	71.85	10.69	15.93	4.81	
H003-12H-1	72.21	71.85	10.69	16.82	12.65	
H003-12H-2a	73.11	72.54	28.92	28.70	8.9	
H003-12H-3	75.21	74.13	37.68	NM	NM	First test questionable. Ran new test (LV051A)
H003-12H-3	75.21	74.13	37.68	41.97	17.53	
H003-12H-4a	76.10	74.81	62.97	49.60	19.18	
H003-12H-4b	76.71	75.27	45.00	49.79	19.45	
H003-12H-5a	77.93	76.20	150.73	58.06	26.03	
H003-12H-6b	78.90	76.93	264.62	39.17	5.05	Questionable strain curves. Running new test (LV055A)
H003-12H-6b	78.90	76.93	264.62	54.92	19.54	
H003-14H-1a	82.27	81.99	48.95	42.70	16.36	
H003-14H-2a	83.03	82.60	43.20	37.51	12.22	
H003-14H-3a2	85.15	84.32	47.92	45.90	20.33	
H003-14H-4a	86.63	85.51	113.79	54.92	14.81	
H003-14H-5a	87.55	86.26	66.16	43.84	11.81	
H003-14H-6a	88.16	86.75	55.94	40.52	19.79	
H003-15CS-2a	88.89	88.89	25.04	11.35	5.53	

Sample Location	Archived Depth	Compressed Depth	Fall Cone Strength	Lab Vane Peak Strength	Lab Vane Remolded Strength	Remarks
	mbsf	mbsf	kPa	kPa	kPa	
H003-16H-1a	92.29	92.10	58.60	42.89	16.78	
H003-16H-2	94.70	93.98	309.28	37.29	NM	Dried and biscuited; 2nd shear did not start
H003-16H-3c	96.20	95.16	69.59	59.63	24.71	
H003-16H-4a	97.47	96.15	86.41	45.70	12.64	
H003-16H-5	98.94	97.29	183.77	55.29	19.85	
H003-17H-1a	98.47	98.33	41.51	31.16	8.9	
H003-17H-2a	99.29	98.92	64.53	53.50	NM	2nd shear did not start
H003-17H-3b1c	101.46	100.53	156.58	52.32	19.26	
H003-17H-4a	103.02	101.68	100.21	56.65	NM	2nd test did not start. Ran again (LV070A)
H003-17H-4a	103.02	101.68	100.21	51.03	17.17	
H003-17H-5	105.19	103.29	67.84	77.82	NM	2nd test did not start. Ran again (LV071A)
H003-17H-5	105.19	103.29	67.84	74.67	31.32	
H003-17H-6a	105.67	103.65	55.94	63.28	26.55	
H003-18H-1a	104.90	104.70	15.74	9.03	1.61	Sandy and soft. Poor quality condition.
H003-18H-1c1	106.22	105.63	45.91	34.47	10.53	
H003-18H-2a	107.01	106.18	72.38	28.32	9.34	
H003-18H-3a	109.08	107.63	152.51	91.42	27.14	
H003-18H-4	110.57	108.67	107.06	96.17	27.22	
H003-18H-5a	111.47	109.30	116.30	NM	NM	Sediment not thick enough for vane depth.
H003-18H-6	112.92	110.32	107.06	48.65	19.98	Strange 2nd test curve
H003-19CS-3c	112.15	112.00	24.40	20.98	7.82	
H003-19CS-4	113.35	113.06	9.85	23.64	9.19	
H003-19CS-5a	113.35	113.06	24.40	26.41	11.94	
H003-20H-1a	115.00	114.84	81.14	58.95	27	
H003-20H-2a	116.27	115.91	74.01	51.47	21.08	
H003-20H-3	118.45	117.75	74.01	55.09	24.96	
H003-20H-4	119.38	118.54	157.55	68.72	31.34	
H003-20H-5a1	120.00	119.06	87.19	64.95	27.14	
H003-20H-6	122.38	121.07	93.93	68.81	25.87	
H003-21H-1a3	122.92	122.76	49.34	31.32	11.81	
H003-21H-2a	124.40	124.07	110.01	58.86	26.7	
H003-21H-3a	125.47	125.01	96.36	42.82	15.19	
H003-21H-4	127.62	126.91	96.36	44.74	18.68	
H003-21H-5	128.32	127.52	104.22	59.95	24.99	
H003-21H-6a	129.06	128.18	130.60	40.17	13.24	Soft and biscuited

Sample Location	Archived Depth	Compressed Depth	Fall Cone Strength	Lab Vane Peak Strength	Lab Vane Remolded Strength	Remarks
	mbsf	mbsf	kPa	kPa	kPa	
H003-21H-7	130.00	129.01	113.09	44.91	4.5	
H003-22H-1	130.74	130.74	52.18	29.71	11.5	
H003-22H-2a2	131.64	131.64	67.78	31.29	11.76	
H003-22H-3	133.72	133.72	366.40	66.86	18.29	
H003-22H-4a2	134.62	134.62	119.64	48.64	16.96	
H003-22H-5	136.29	136.29	110.01	66.28	34.37	
H003-23H-1a1	137.89	137.74	138.76	33.48	7.55	2nd shear phase stopped early and strange curve.
H003-23H-2a	139.51	139.14	61.04	6.31	NM	Silty/sandy and short section with gaps. Vane likely not fully surrounded by sediment. 2nd phase recorded but not useable data
H003-23H-3a	141.14	140.54	134.58	66.99	27.85	
H003-23H-4a	142.29	141.54	113.09	NM	NM	Fall cone only. Section/piece too short for vane test
H003-23H-5	144.55	143.48	119.64	42.90	9.56	
H003-23H-6	145.19	144.04	208.70	71.86	25.46	
H003-24CS-2	144.54	144.53	93.93	22.43	5.51	
H003-25H-1	148.77	148.43	NM	NM	NM	25H-1 not testable
H003-25H-2a	149.65	149.07	NM	NM	NM	25H-2 not testable
H003-25H-3	150.76	149.88	79.27	83.64	40.42	
H003-25H-4	151.41	150.36	180.44	100.81	30.67	
H003-25H-5a1	152.05	150.82	138.76	101.44	35.75	
H003-25H-6a	152.77	151.35	265.39	144.31	NM	2nd phase started but immediately stopped.
H003-25H-6c	153.42	151.82	366.40	113.54	24.43	
H003-25H-7a	153.97	152.22	193.80	108.65	17.28	
H003-25H-8b	155.64	153.44	NM	NM	NM	25H-8 not testable
H003-25H-9b	156.41	154.00	538.33	79.95	7.95	Biscuited, discs of sediment and may not be completely filling the liner so that it rotates during shear.
H003-25H-10	157.30	154.65	1329.36	120.00	NM	Very stiff material and occurs as discs separated from each other. Not sure if this is good data. Did not do 2nd shear phase
H003-26X-1a	279.87	279.87	216.81	76.93	NM	2nd phase failed =, no data.
H003-26X-2	281.25	281.25	83.08	77.85	32.04	
H003-26X-3a	281.84	281.84	38.75	59.21	24.38	
H003-26X-4a	282.77	282.77	91.60	51.08	20.05	
H003-26X-5a	284.70	284.70	162.85	87.27	32.9	
H003-26X-6a	285.40	285.40	234.50	77.13	25.48	
H003-27CS-4a	288.58	288.58	332.34	NM	NM	Too stiff

Sample Location	Archived Depth	Compressed Depth	Fall Cone Strength	Lab Vane Peak Strength	Lab Vane Remolded Strength	Remarks
	mbsf	mbsf	kPa	kPa	kPa	
H003-27CS-5a	289.42	289.42	317.06	215.61	102.61	
H003-28CS-1b	291.14	291.14	735.07	NM	NM	Too stiff
H003-29CS-5b	295.63	295.63	366.40	NM	NM	Too stiff
H002-02FB-1	674.22	674.22	27.88	NM	NM	Too short
H002-02FB-4	675.33	675.33	44.09	NM	NM	Lab Vane not measured
H002-04FB-1a	680.48	680.48	16.59	12.39	NM	Too short
H002-04FB-3a	681.67	681.67	79.27	NM	NM	Too short
H002-04FB-4a1	682.25	682.25	116.30	24.35	2.37	
H002-05CS-3c	802.52	802.52	1108.21	308.37	83.56	
H002-06CS-2b	803.75	803.75	540.05	NM	NM	Lab Vane not measured
H002-06CS-5a	805.68	805.68	180.44	132.69	31.54	
H002-08CS-3a3	811.31	811.31	64.96	133.07	36.49	Dry, brittle, silty
H002-09CS-1a	813.39	813.30	70.79	10.59	1.27	
H002-09CS-2a	814.03	813.87	216.81	55.78	14.01	
H002-09CS-3a3	814.99	814.73	64.96	36.48	7.64	
H002-09CS-4b	815.16	814.88	216.81	39.40	4.00	sandy/silty and dry. Rapid drop at end of shear phase 1 and questionable 2nd shear data
H002-12CS- 1b	822.30	822.23	40.71	65.42	26.69	
H002-12CS-2a	823.60	823.37	36.93	80.81	8.26	
H002-12CS-3a2	825.07	824.67	34.69	291.08	84.07	
H002-13CS-1a1	824.79	824.79	937.99	160.87	55.37	
H002-13CS-1c	825.36	825.29	937.99	60.58	9.56	
H002-13CS-2	827.64	827.31	1465.61	NM	NM	FC only. Too stiff
H002-13CS-3a	827.64	827.31	1623.95	NM	NM	FC only. Too stiff
H002-14CS-1e	845.44	845.35	572.51	245.08	32.55	
H002-14CS-2a	845.44	845.35	234.50	256.87	28.92	
H002-14CS-3a3	847.78	847.42	2605.54	224.47	28.80	
H002-15CS-1a	858.32	858.32	152.51	NM	NM	FC only. Too stiff
H002-15CS-2a1	859.09	859.09	2991.05	NM	NM	FC only. Too stiff

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