

Appendix Z

SASW Measurements of Fourth Site Visit at Vogtle, GA Site Location: Site H

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3 - Receiver SASW Data Sheet

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Project : Vogtle

Data Sheet # : SA4#8

Location : H (SA4#8)

Disk # : SA4#8

Date/(Time) : 1 / 1 15:42^{PM}

Personnel : Stokoe Yuan Minjae

Recorded by : Yuan

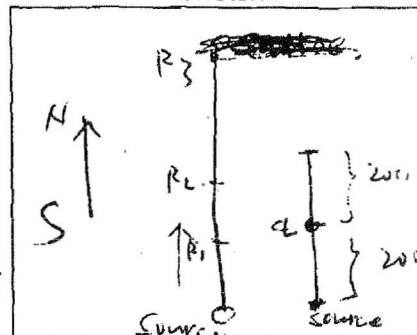
Checked by : Minjae

R1 I.D. : UT07-4.5Hz-04, GBC92003

R2 I.D. : UT07-4.5Hz-02, GBC92002

R3 I.D. : UT07-4.5Hz-03, GBC92001

Sketch



Distance (ft)			Impact Direction	Impact Source	Record #	Freq. Range	Notes
S - R1	R1 - R2	R2 - R3				(Hz)	
25	25	50	For	Rev	4H1	0 - 100	
25	25	25	For	Rev	4H2	0 - 100	
50	50	50	For	Rev	4H3	0 - 100	
100	100	100	For	Rev	4H4	0 - 500	
200	200		For	Rev	4H5	0 - 25	Some trace by hand
6	6	12	For	Rev	4H6	0 - 400	soft hit
6	6	12	For	Rev	4H7	0 - 400	"
			For	Rev		~	
			For	Rev		~	
			For	Rev		~	
			For	Rev		~	
			For	Rev		~	
			For	Rev		~	
			For	Rev		~	
			For	Rev		~	
			For	Rev		~	

* Autosequence 3R_SASW saves F_2/1, C_2/1, F_4/3, C_4/3, Lin_1, Lin_2, Lin_4

* Autosequence 3R_SEWPSIN saves F_2/1, Var_2, F_4/3, Var_4, Lin_1, Lin_2, Lin_4

University of Texas at Austin

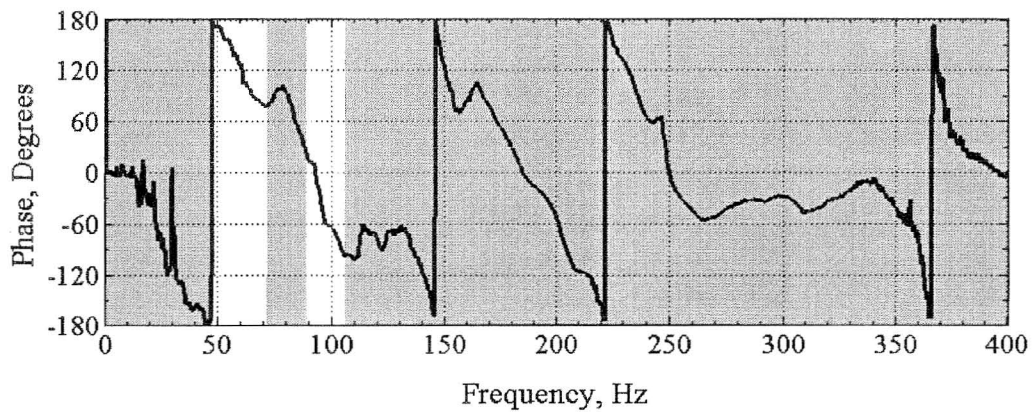


Figure Z.1 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (4H6_F_21.DAT)

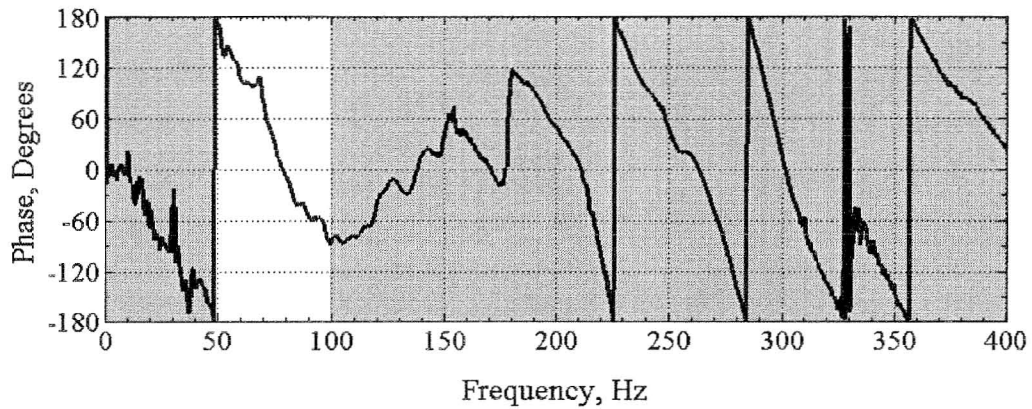


Figure Z.2 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (4H7_F_21.DAT)

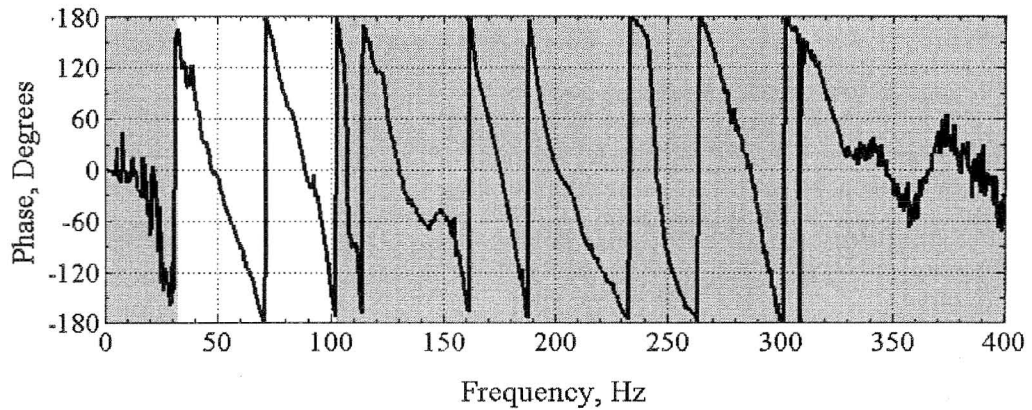


Figure Z.3 Phase Plots Measured by SASW Testing with 12-ft Receiver Spacing (4H6_F_43.DAT)

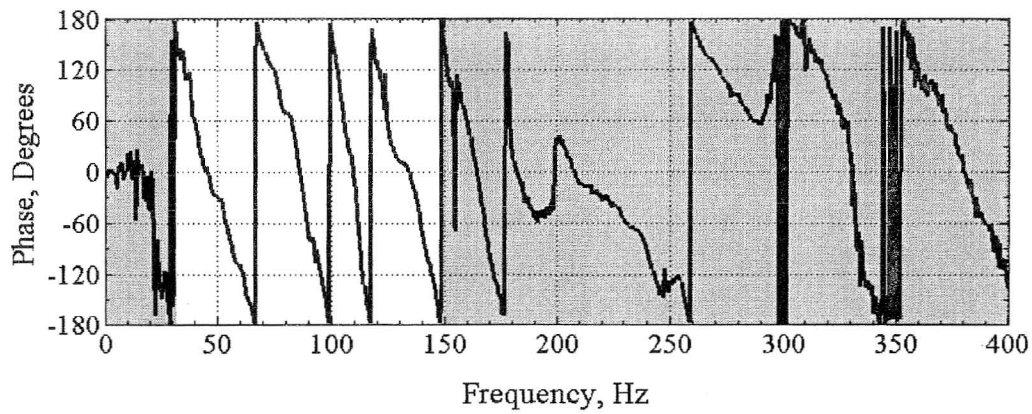


Figure Z.4 Phase Plots Measured by SASW Testing with 12-ft Receiver Spacing (4H7_F_43.DAT)

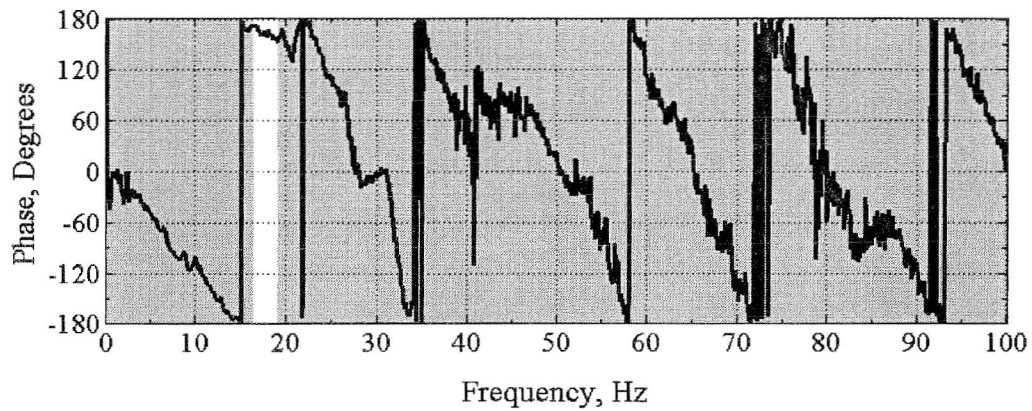


Figure Z.5 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (4H1_F_21.DAT)

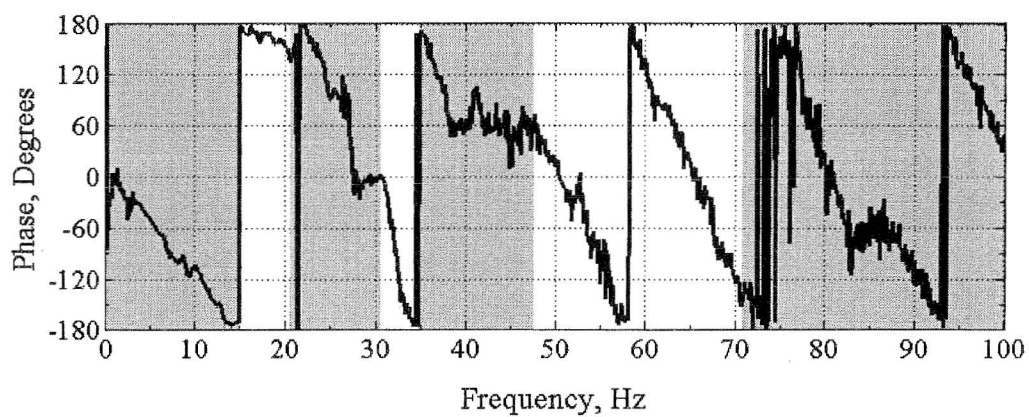


Figure Z.6 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (4H2_F_21.DAT)

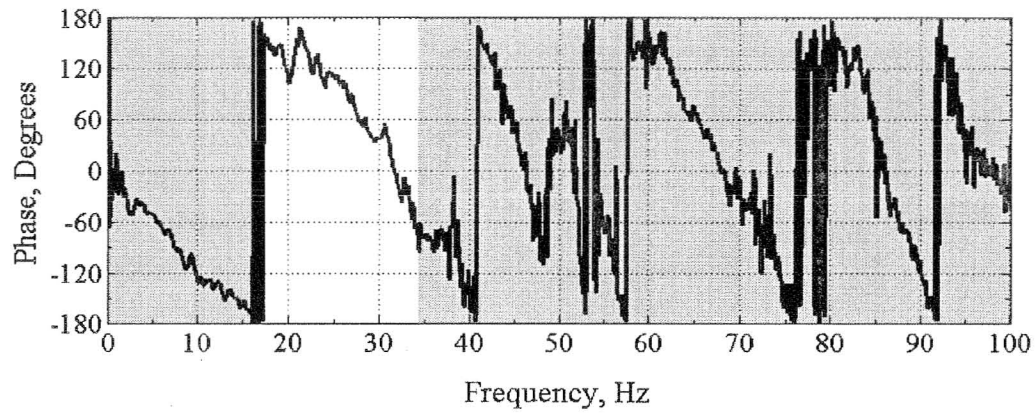


Figure Z.7 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (4H2_F_43.DAT)

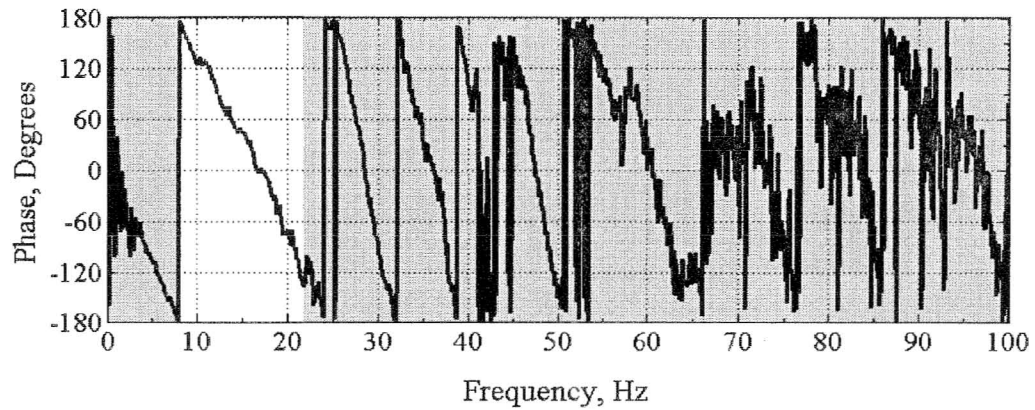


Figure Z.8 Phase Plots Measured by SASW Testing with 50-ft Receiver Spacing (4H1_F_43.DAT)

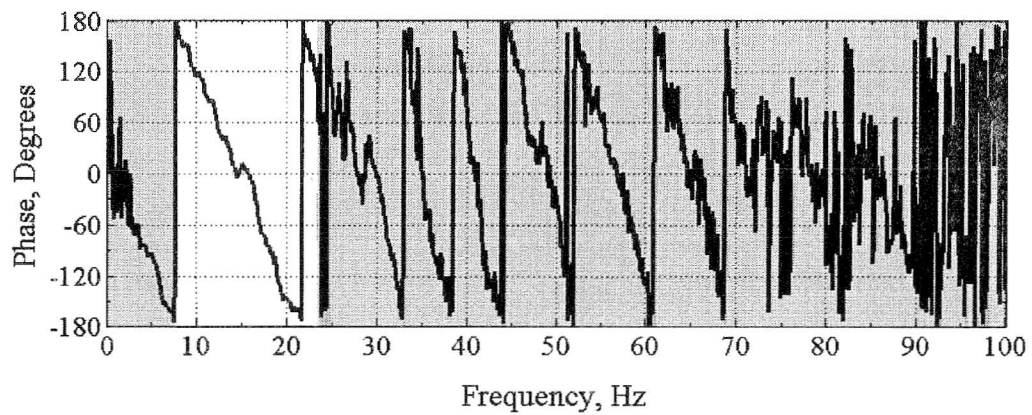


Figure Z.9 Phase Plots Measured by SASW Testing with 50-ft Receiver Spacing (4H3_F_21.DAT)

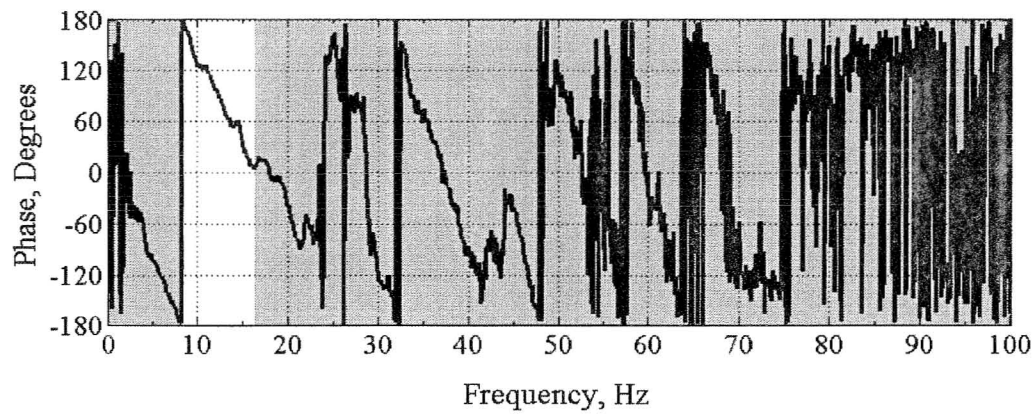


Figure Z.10 Phase Plots Measured by SASW Testing with 50-ft Receiver Spacing (4H3_F_43.DAT)

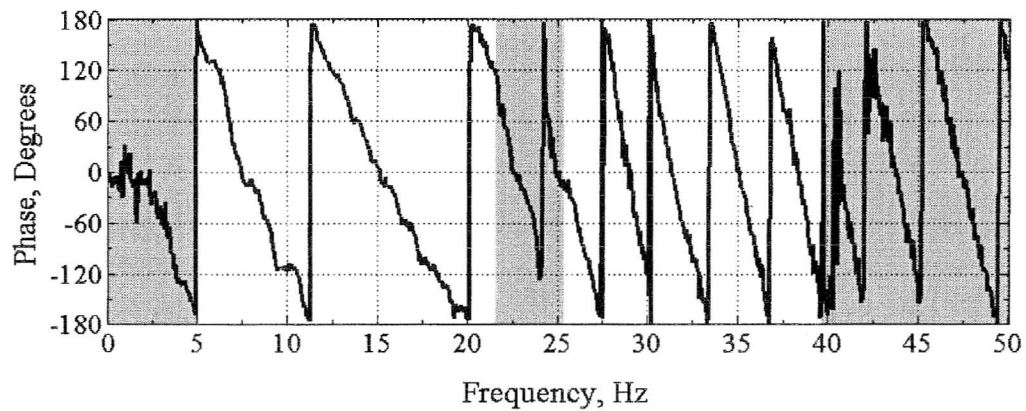


Figure Z.11 Phase Plots Measured by SASW Testing with 100-ft Receiver Spacing (4H4_F_21.DAT)

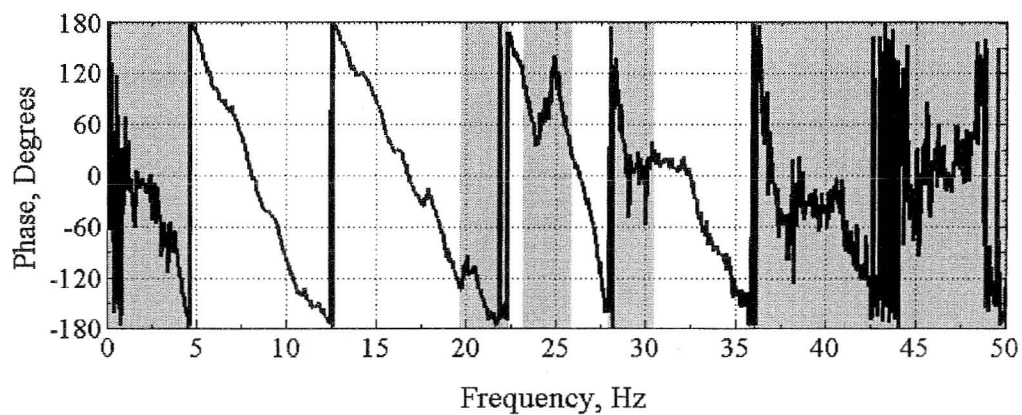


Figure Z.12 Phase Plots Measured by SASW Testing with 100-ft Receiver Spacing (4H4_F_43.DAT)

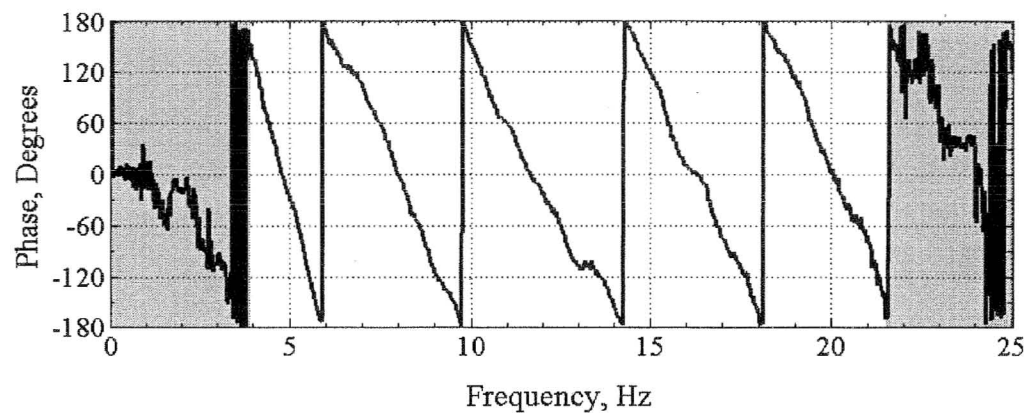


Figure Z.13 Phase Plots Measured by SASW Testing with 200-ft Receiver Spacing (4H5_F_21.DAT)

Table Z.1 Tables of Masking Parameters Used on Data Collected during Fourth Site Visit at Site H

Receiver Spacing (ft)	Masking Interval	Masking Start Frequency, Hz	Masking Stop Frequency, Hz	Number of Jumps	Filename
6	1	0	48	1	4H6_F_21.DAT
	2	71.5	89.5	1	
	3	106	400	-	
6	1	0	49	1	4H7_F_21.DAT
	2	99.5	400	-	
12	1	0	32.5	1	4H6_F_43.DAT
	2	102	400	-	
12	1	0	32	1	4H7_F_43.DAT
	2	148	400	-	
25	1	0	16.38	1	4H1_F_21.DAT
	2	19.12	100	-	
25	1	0	15.12	1	4H2_F_21.DAT
	2	20.62	30.5	1	
	3	34.62	47.62	2	
	4	70.62	100	-	
25	1	0	16.88	1	4H2_F_43.DAT
	2	34.25	100	-	
50	1	0	8.12	1	4H1_F_43.DAT
	2	21.75	100	-	
50	1	0	7.75	1	4H3_F_21.DAT
	2	23.38	100	-	
50	1	0	8.38	1	4H3_F_43.DAT
	2	16.25	100	-	
100	1	0	5	1	4H4_F_21.DAT
	2	21.5	25.31	3	
	3	39.5	50	-	
100	1	0	4.75	1	4H4_F_43.DAT
	2	19.69	22.31	3	
	3	23.13	25.88	3	
	4	27.88	30.5	4	
	5	35.75	50	-	
200	1	0	3.94	1	4H5_F_21.DAT
	2	21.44	25	-	

Performed by jiabei
Jiabei Yuan

Checked by Yin-Cheng Lin
Yin-Cheng Lin

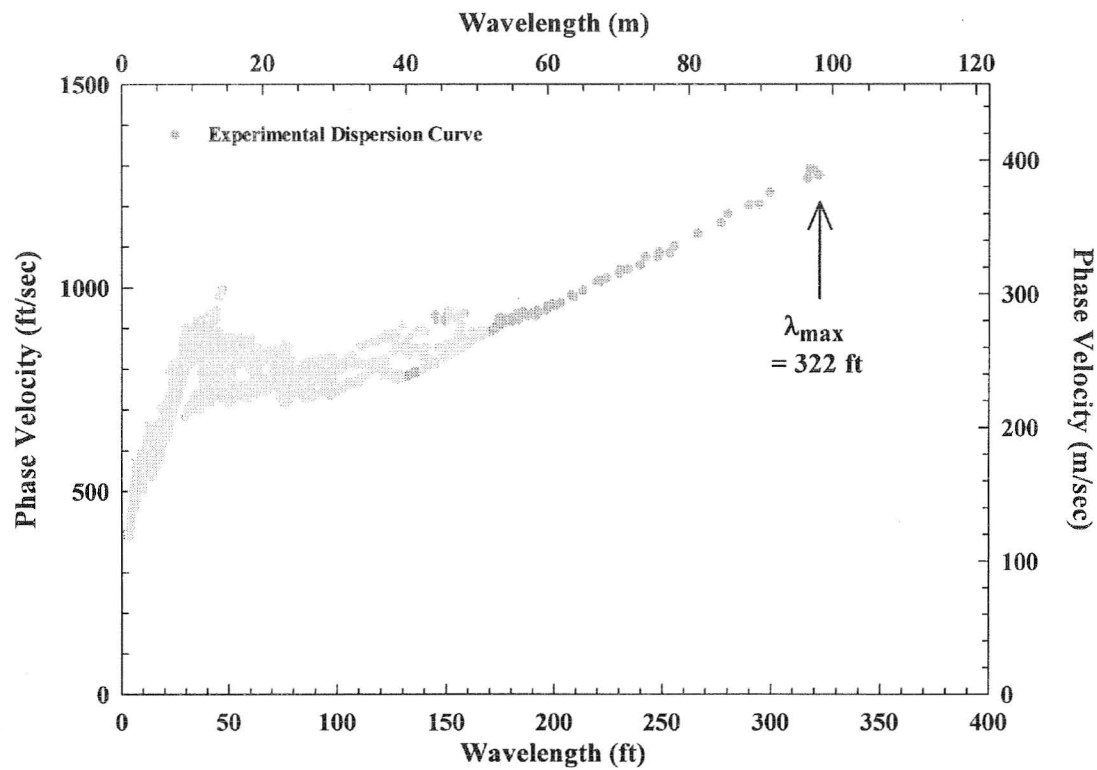


Figure Z.14 Experimental Dispersion Curve Measured during Fourth Site Visit at Site H at Vogtle, GA; Linear Wavelength Axis

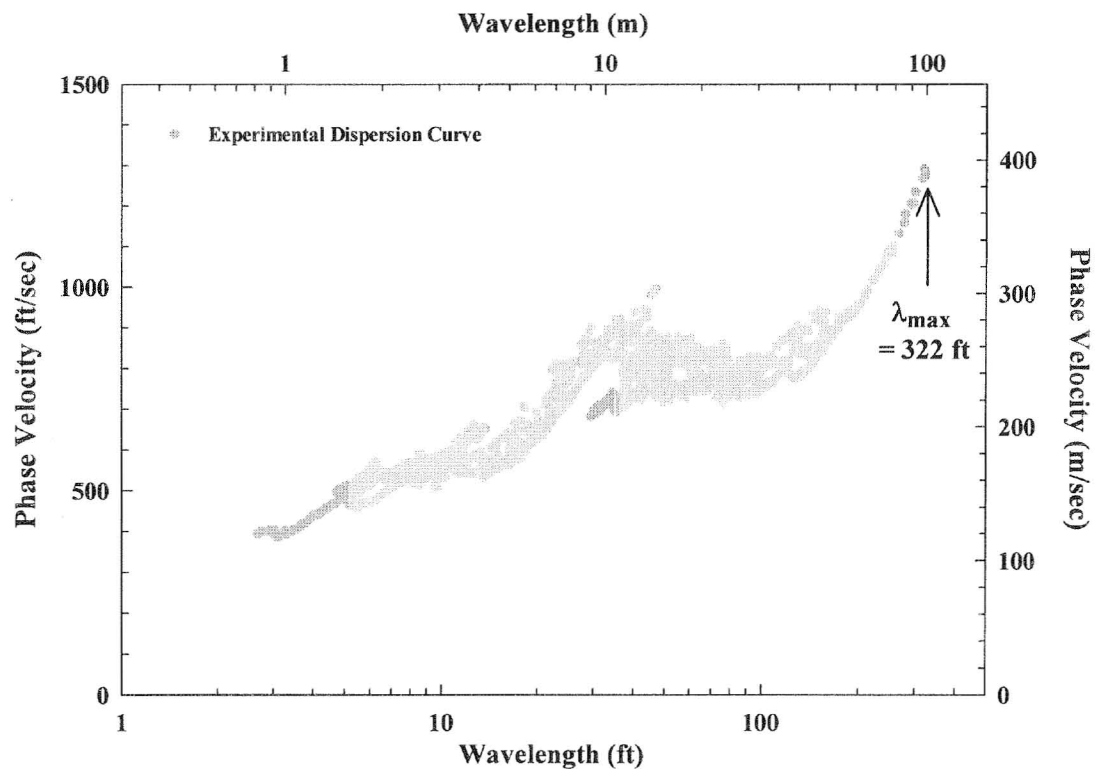


Figure Z.15 Experimental Dispersion Curve Measured during Fourth Site Visit at Site H at Vogtle, GA; Logarithmic Wavelength Axis

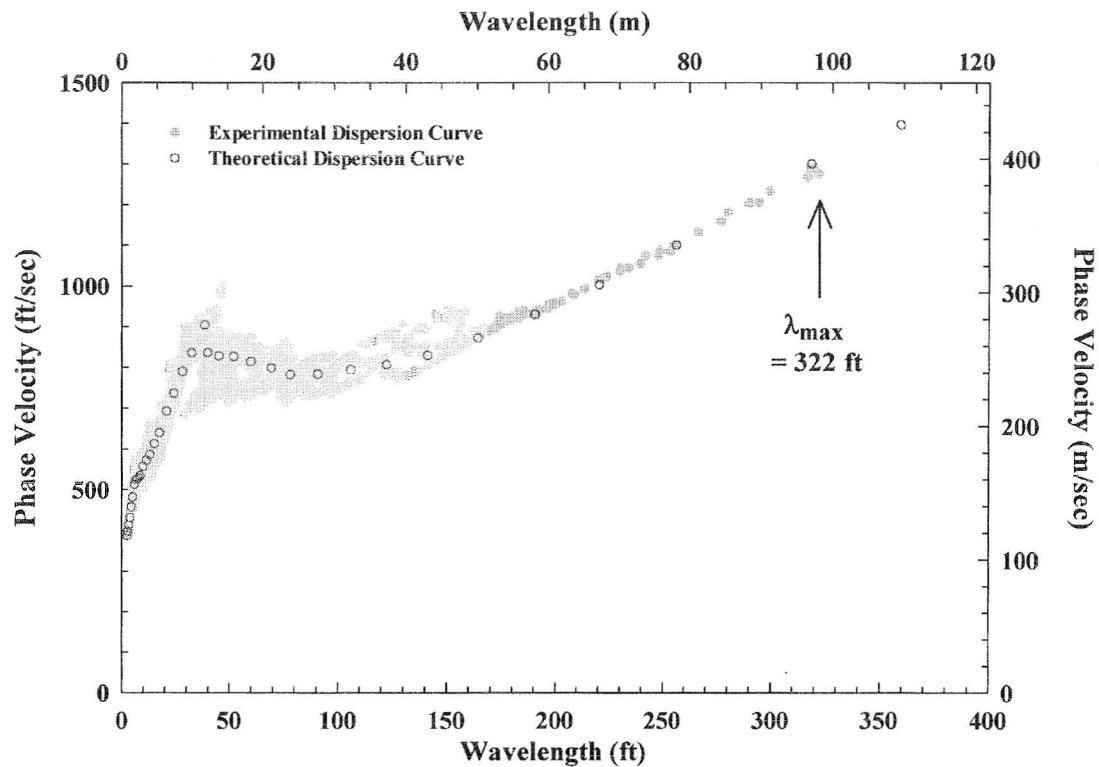


Figure Z.16 Experimental and Theoretical Dispersion Curves from Site H in Fourth Site Visit at Vogle, GA; Linear Wavelength Axis

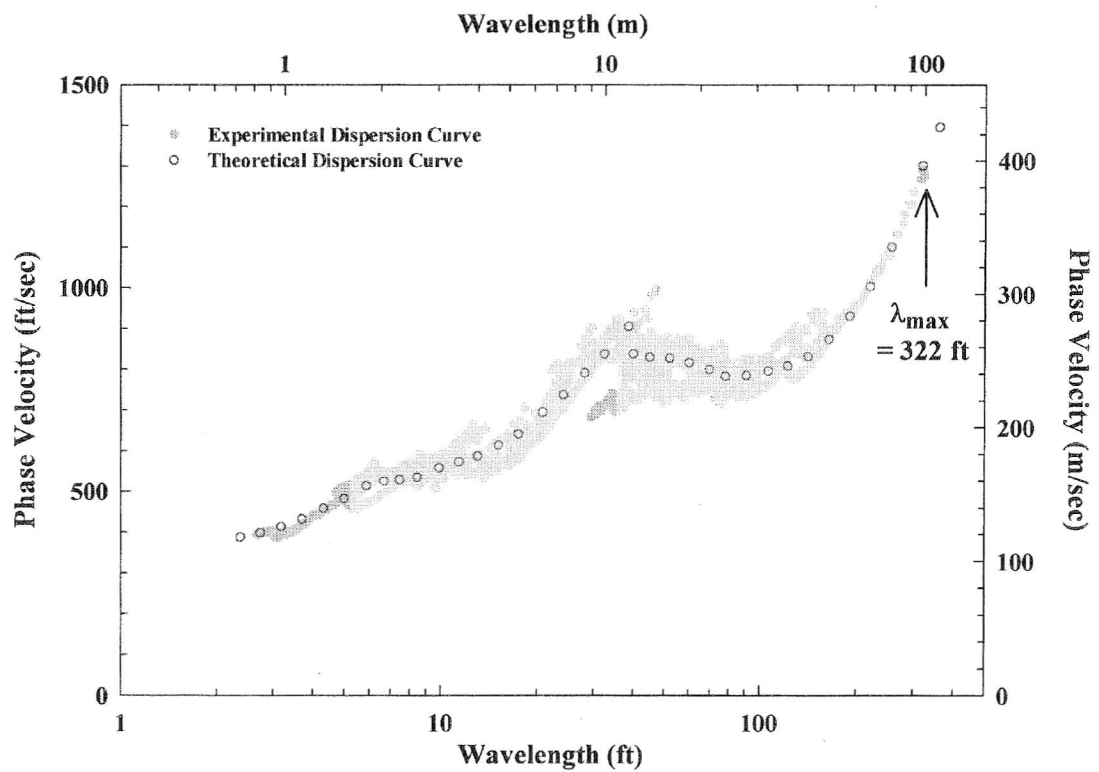


Figure Z.17 Experimental and Theoretical Dispersion Curves from Site H in Fourth Site Visit at Vogle, GA; Logarithmic Wavelength Axis

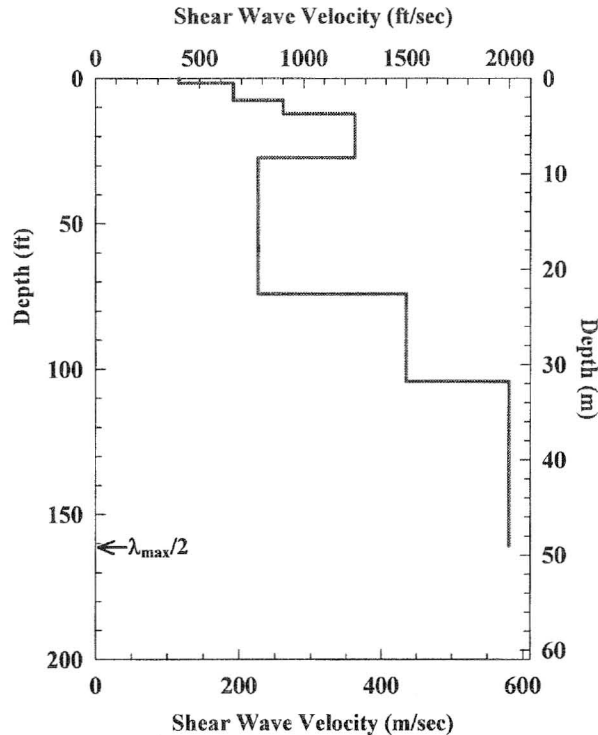


Figure Z.18 Shear Wave Velocity Profile Determined at Site H during Fourth Site Visit at Vogtle, GA

Table Z.2 Profile Parameters Used to Develop Preliminary Theoretical Dispersion Curve at Site H in the Fourth Site Visit at Vogtle, GA

Layer No.	Thickness, ft	Depth to Top of Layer, ft	S-Wave Velocity, ft/s	Assumed Poisson's Ratio	P-Wave Velocity, ft/s	Assumed Total Unit Weight, pcf
1	1.6	0.0	400	0.24	684	125
2	6.0	1.6	660	0.24	1128	125
3	4.6	7.6	900	0.24	1539	125
4	15.0	12.2	1250	0.24	2137	125
5	47.0	27.2	780	0.24	1334	125
6 [#]	30.0	74.2	1500	0.45	5000	135
7 [#]	56.8	104.2	2000	0.40	5000	135
8* [#]	Half Space	161.0	2000	0.40	5000	135

* Layer below maximum depth of the V_s Profile.

Layer below water table.

Performed by Yin-Cheng Lin Checked by K. H. Stokoe, II
Yin-Cheng Lin Kenneth H. Stokoe, II