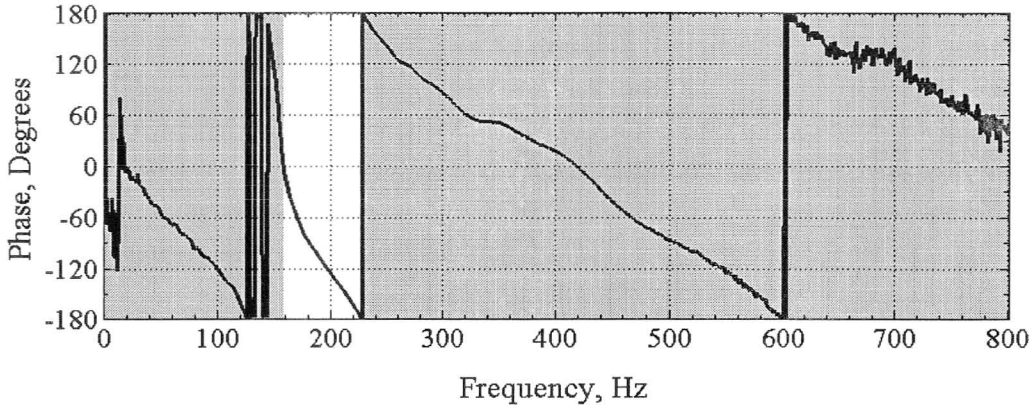


Figure M.1 Phase Plots Measured by SASW Testing with 2-ft Receiver Spacing (2F5_F_43.DAT)

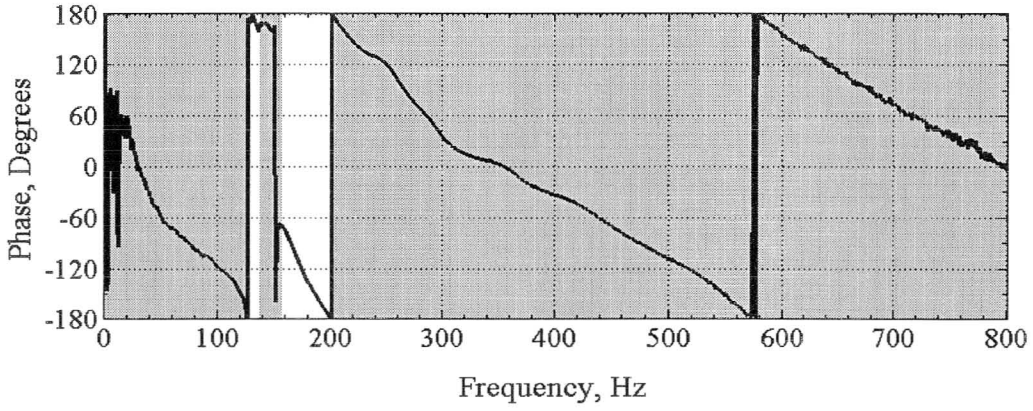


Figure M.2 Phase Plots Measured by SASW Testing with 2-ft Receiver Spacing (2F6_F_43.DAT)

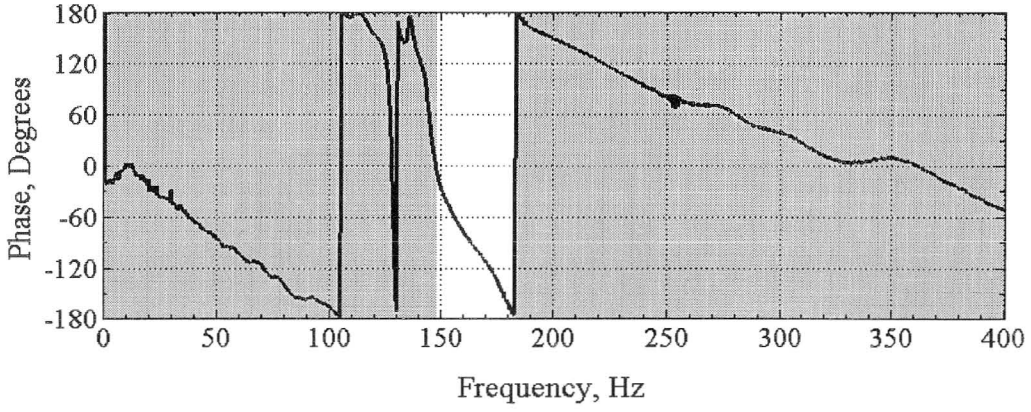


Figure M.3 Phase Plots Measured by SASW Testing with 3-ft Receiver Spacing (2F3_F_21.DAT)

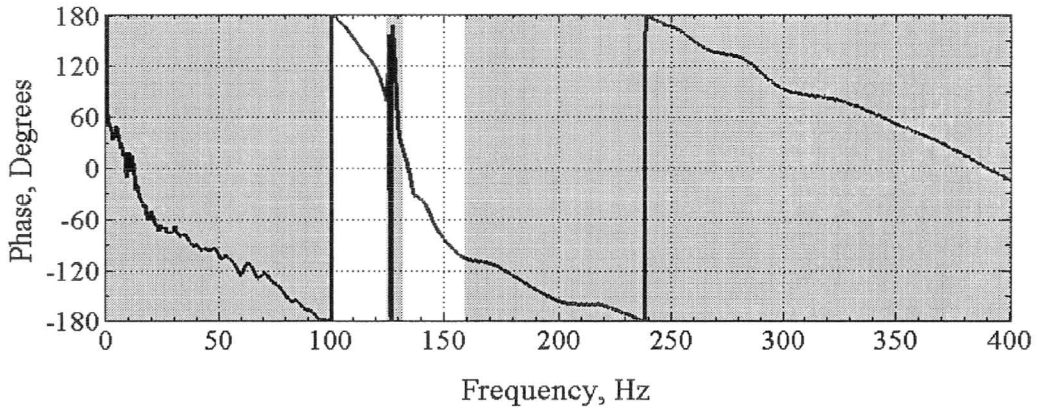


Figure M.4 Phase Plots Measured by SASW Testing with 3-ft Receiver Spacing (2F4_F_21.DAT)

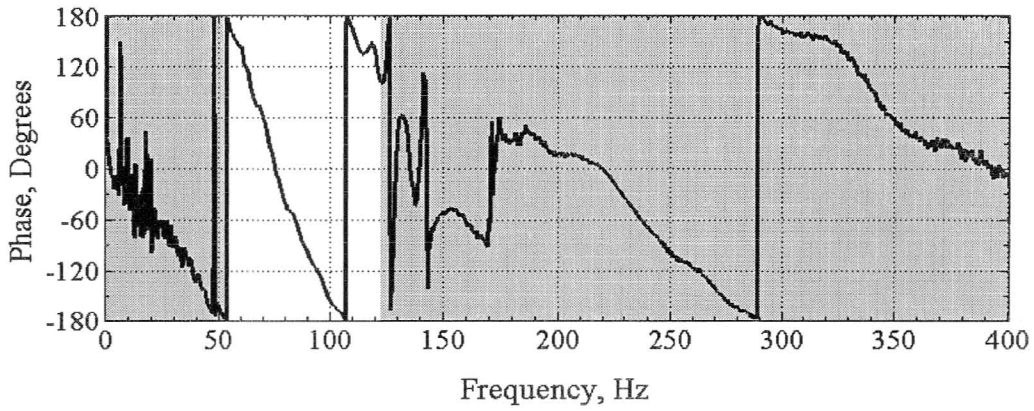


Figure M.5 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (2F3_F_43.DAT)

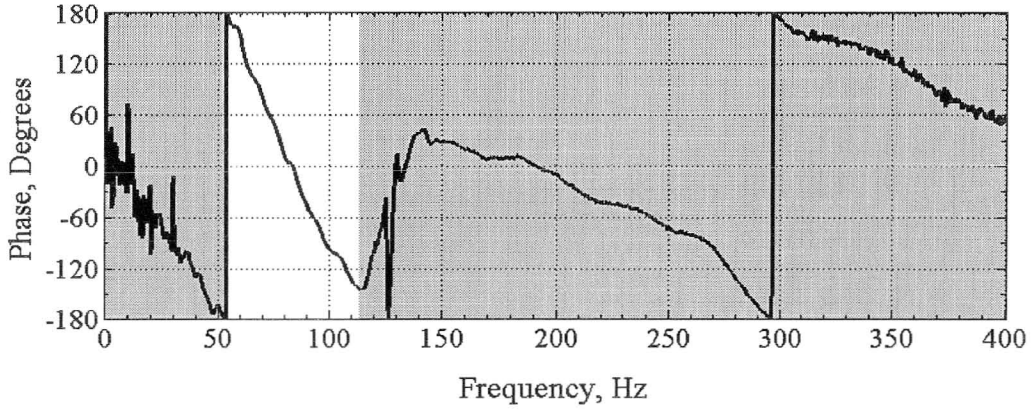


Figure M.6 Phase Plots Measured by SASW Testing with 6-ft Receiver Spacing (2F4_F_43.DAT)

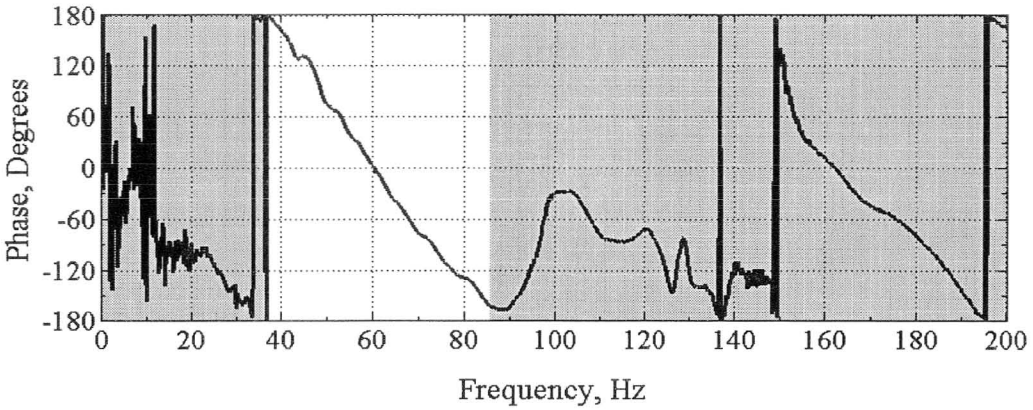


Figure M.7 Phase Plots Measured by SASW Testing with 9-ft Receiver Spacing (2F1_F_21.DAT)

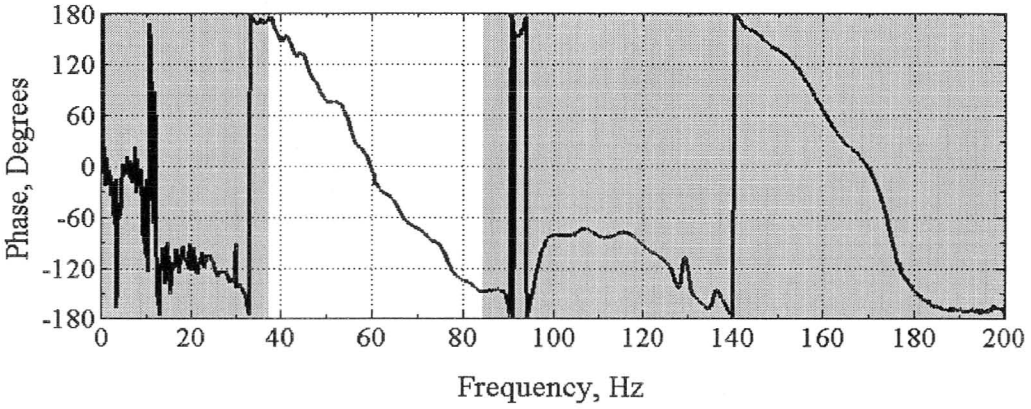


Figure M.8 Phase Plots Measured by SASW Testing with 9-ft Receiver Spacing (2F2_F_21.DAT)

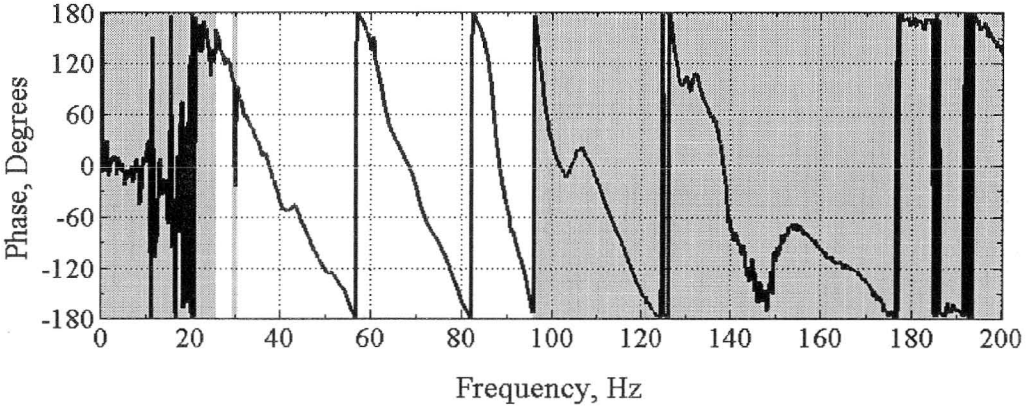


Figure M.9 Phase Plots Measured by SASW Testing with 18-ft Receiver Spacing (2F1_F_43.DAT)

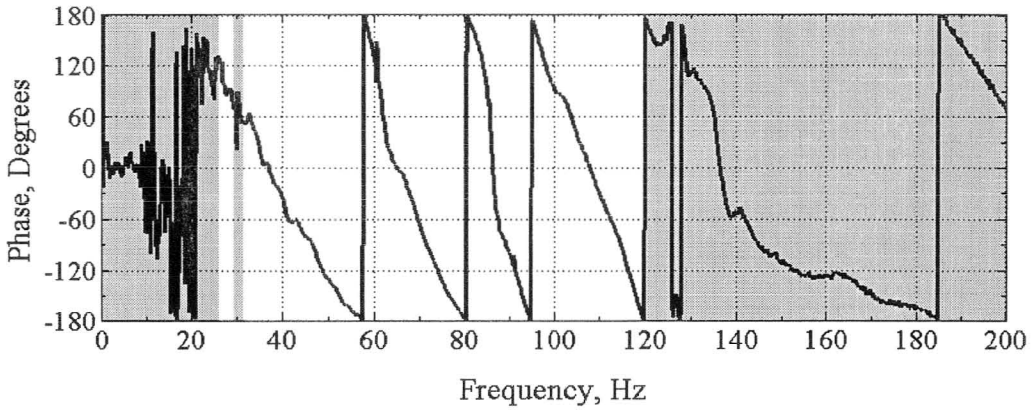


Figure M.10 Phase Plots Measured by SASW Testing with 18-ft Receiver Spacing (2F2_F_43.DAT)

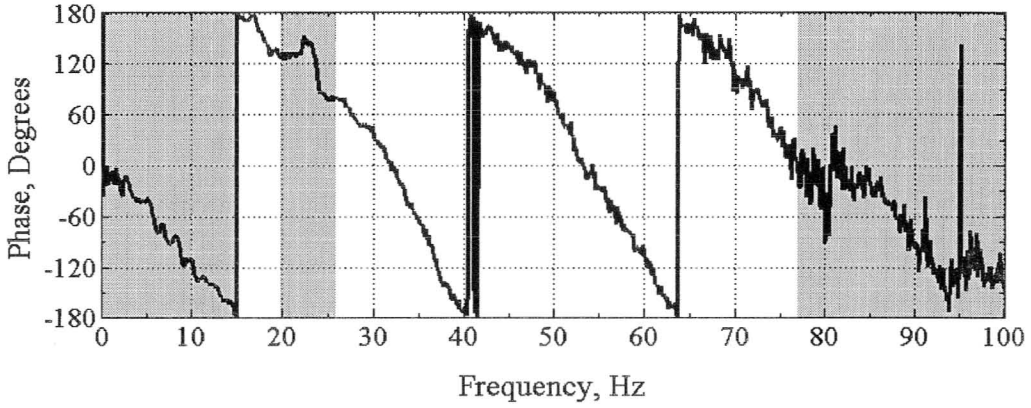


Figure M.11 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (2G1_F_21.DAT)

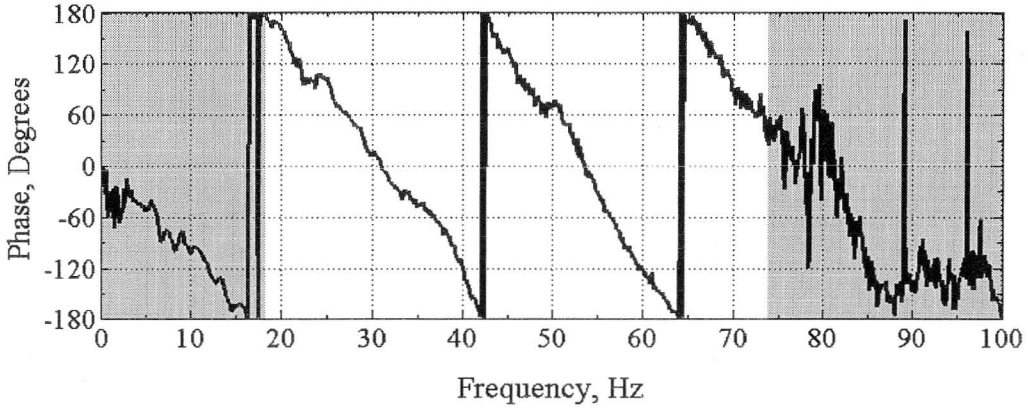


Figure M.12 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (2G1_F_43.DAT)

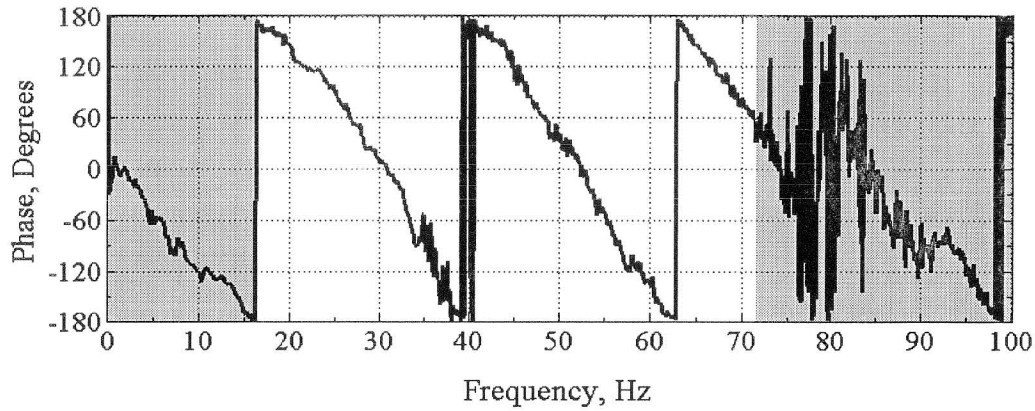


Figure M.13 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (2G4_F_21.DAT)

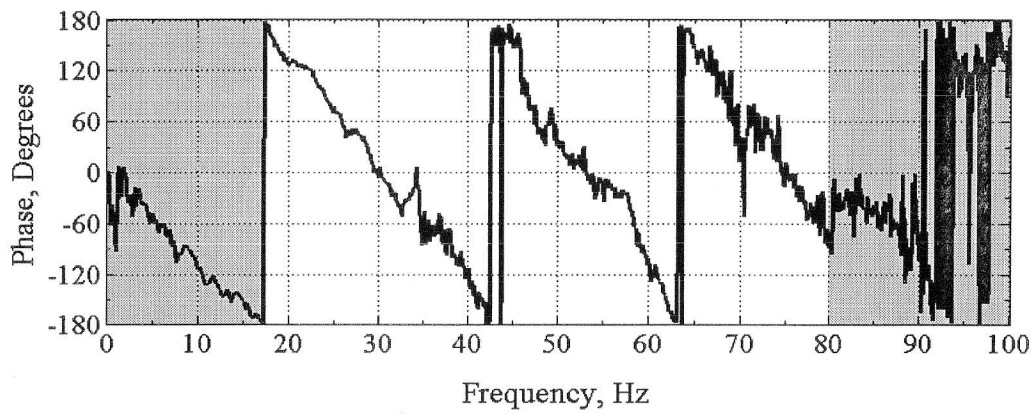


Figure M.14 Phase Plots Measured by SASW Testing with 25-ft Receiver Spacing (2G4_F_43.DAT)

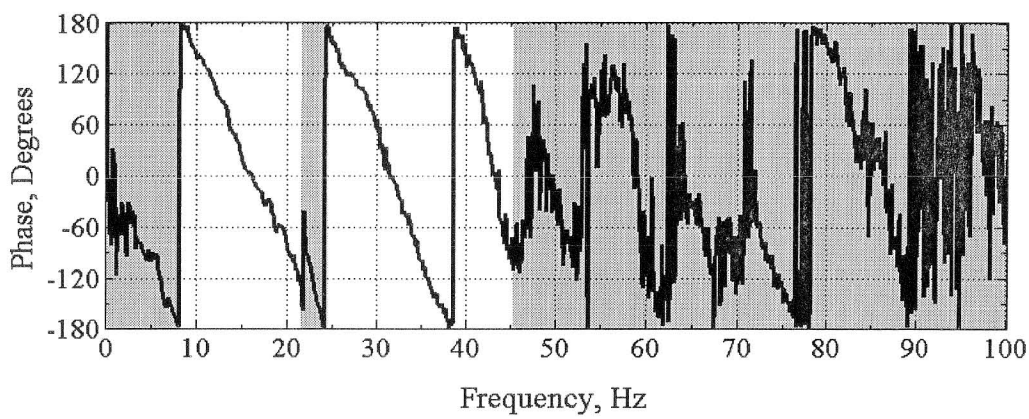


Figure M.15 Phase Plots Measured by SASW Testing with 50-ft Receiver Spacing (2G2_F_21.DAT)

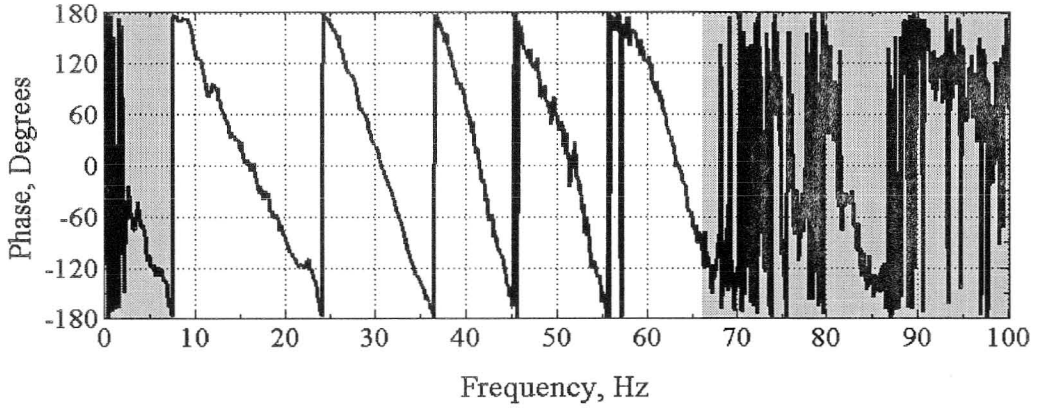


Figure M.16 Phase Plots Measured by SASW Testing with 50-ft Receiver Spacing (2G3_F_21.DAT)

Table M.1 Tables of Masking Parameters Used on Data Collected during Second Site Visit at Site F

Receiver Spacing (ft)	Masking Interval	Masking Start Frequency, Hz	Masking Stop Frequency, Hz	Number of Jumps	Filename
2	1	0	158	1	2F5_F_43.DAT
	2	229	800	-	
2	1	0	128	1	2F6_F_43.DAT
	2	137	157	1	
	3	201	800	-	
3	1	0	148	1	2F3_F_21.DAT
	2	183	400	-	
3	1	0	101	1	2F4_F_21.DAT
	2	125	132	1	
	3	159	400	-	
6	1	0	54	1	2F3_F_43.DAT
	2	123	400	-	
6	1	0	54	1	2F4_F_43.DAT
	2	113.5	400	-	
9	1	0	37.25	1	2F1_F_21.DAT
	2	85.5	200	-	
9	1	0	37.25	1	2F2_F_21.DAT
	2	84.25	200	-	
18	1	0	25.75	1	2F1_F_43.DAT
	2	29.5	30.5	1	
	3	95.75	200	-	
18	1	0	26	1	2F2_F_43.DAT
	2	29.25	31.5	1	
	3	119.75	200	-	
25	1	0	15.12	1	2G1_F_21.DAT
	2	19.88	25.88	1	
	3	76.75	100	-	
25	1	0	18.25	1	2G1_F_43.DAT
	2	73.75	100	-	
25	1	0	16.38	1	2G4_F_21.DAT
	2	71.5	100	-	
25	1	0	17.38	1	2G4_F_43.DAT
	2	79.75	100	-	
50	1	0	8.25	1	2G2_F_21.DAT
	2	21.62	24.5	2	
	3	45.25	100	-	
50	1	0	7.62	1	2G3_F_21.DAT
	2	66.12	100	-	

Performed by Jiabei Yuan Checked by Yin-Cheng Lin

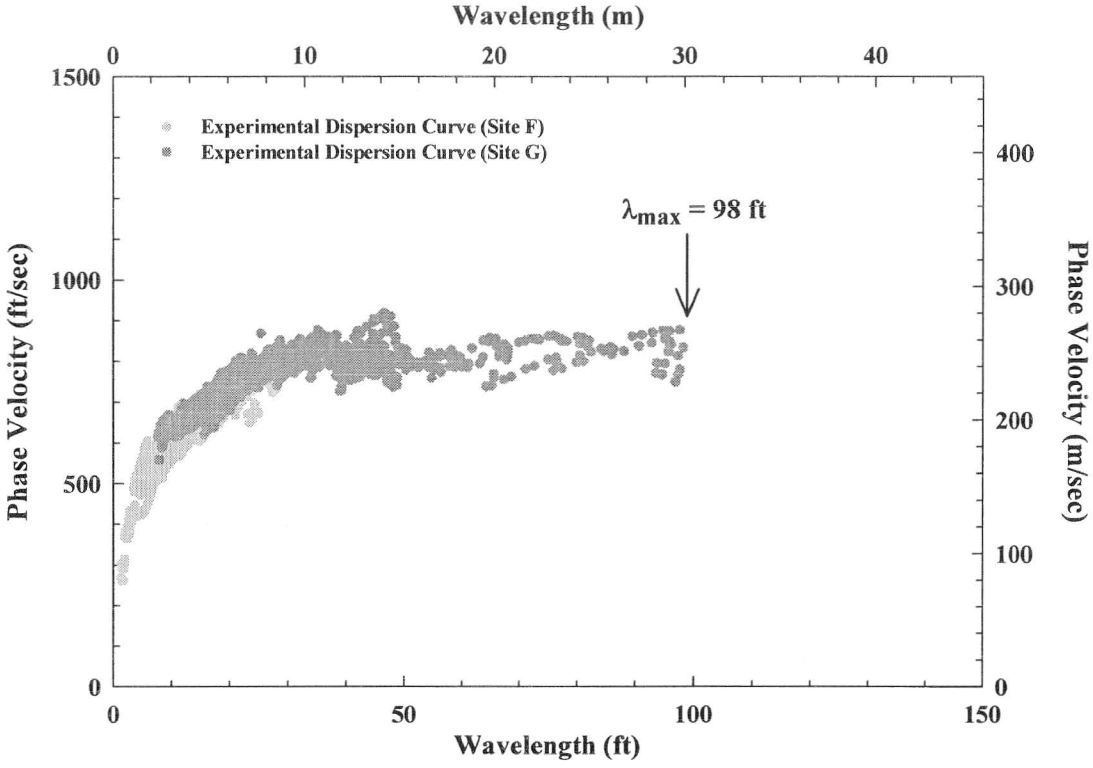


Figure M.17 Experimental Dispersion Curve Measured during Second Site Visit at Site F at Vogtle, GA; Linear Wavelength Axis

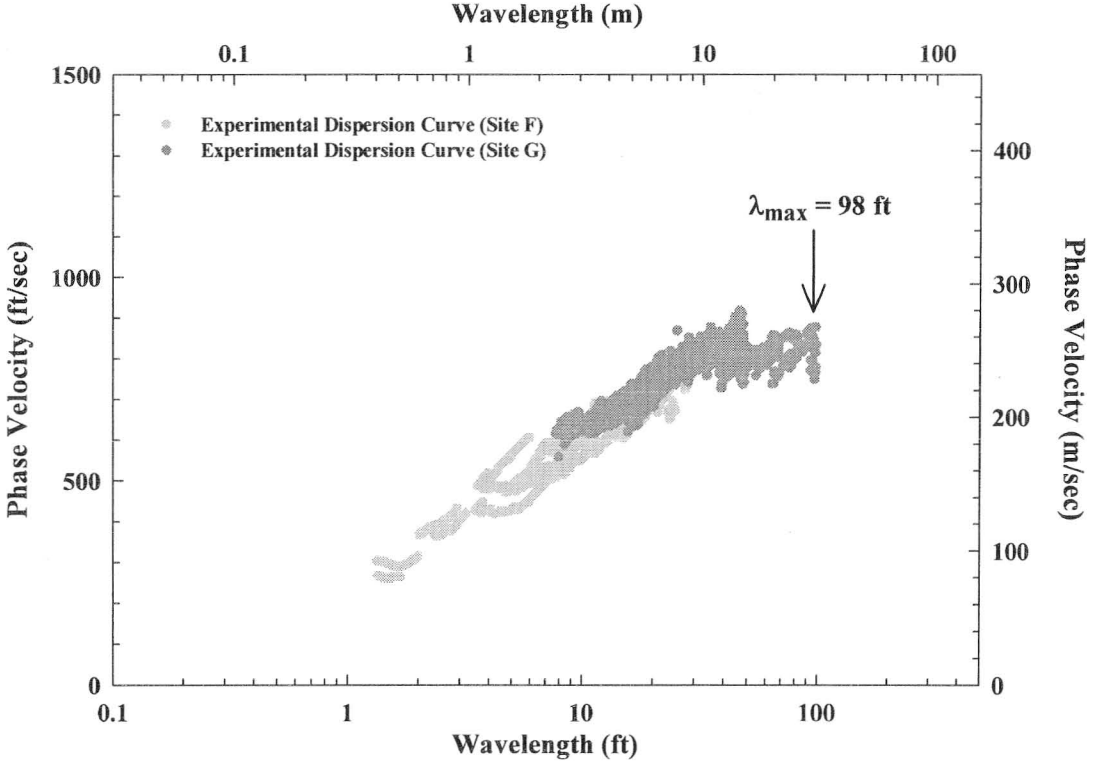


Figure M.18 Experimental Dispersion Curve Measured during Second Site Visit at Site F at Vogtle, GA; Logarithmic Wavelength Axis

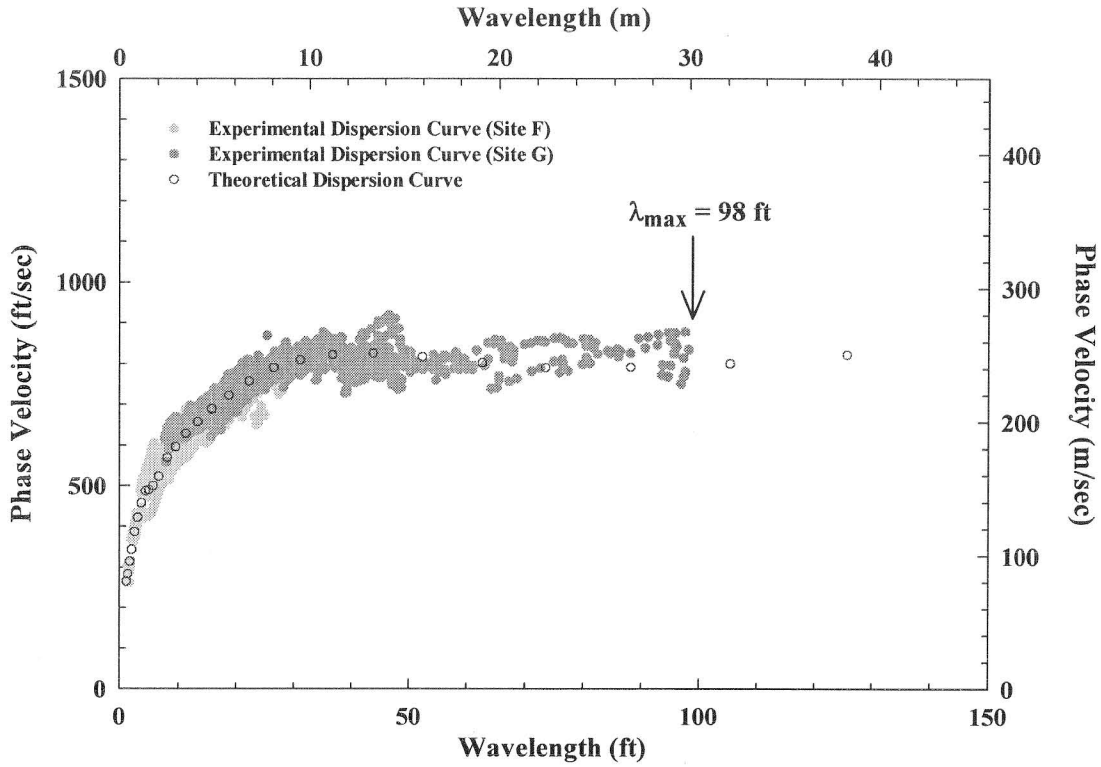


Figure M.19 Experimental and Theoretical Dispersion Curves from Site F in Second Site Visit at Vogtle, GA; Linear Wavelength Axis

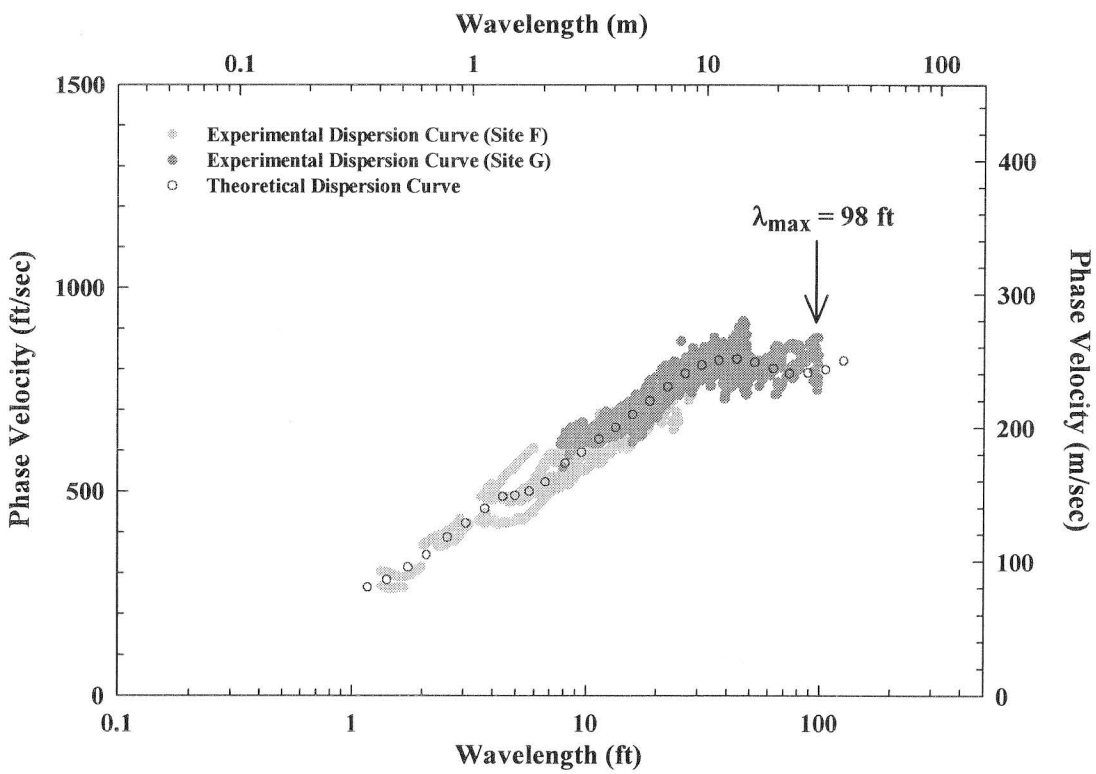


Figure M.20 Experimental and Theoretical Dispersion Curves from Site F in Second Site Visit at Vogtle, GA; Logarithmic Wavelength Axis

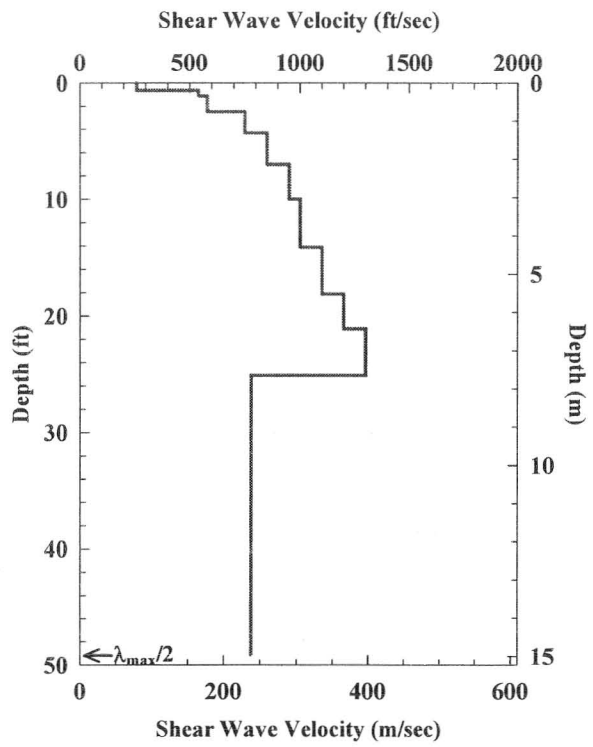


Figure M.21 Shear Wave Velocity Profile Determined at Site F during Second Site Visit at Vogtle, GA

Table M.2 Profile Parameters Used to Develop Preliminary Theoretical Dispersion Curve at Site F in the Second Site Visit at Vogtle, GA

Layer No.	Thickness, ft	Depth to Top of Layer, ft	S-Wave Velocity, ft/s	Assumed Poissons Ratio	P-Wave Velocity, ft/s	Assumed Total Unit Weight, pcf
1	0.65	0.0	260	0.24	445	128
2	0.5	0.65	540	0.24	923	128
3	1.35	1.15	580	0.24	992	128
4	1.8	2.5	750	0.24	1282	128
5	2.7	4.3	850	0.24	1453	128
6	3.0	7.0	950	0.24	1624	128
7	4.1	10.0	1000	0.24	1710	128
8	4.0	14.1	1100	0.24	1881	128
9	3.0	18.1	1200	0.24	2052	128
10	4.0	21.1	1300	0.24	2223	128
11	23.9	25.1	780	0.24	1334	128
12*	22.1	49.0	780	0.24	1334	128
13*#	30.0	71.1	1900	0.42	5000	135
14*#	Half Space	101.1	2200	0.38	5000	135

* Layer below maximum depth of the V_S Profile.

\# Layer below water tatble.

Performed by Yin-Cheng Lin Checked by K. H. Stokoe

Yin-Cheng Lin Kenneth H. Stokoe, II

Appendix N

SASW Measurements of Third Site Visit at Vogtle, GA
Site Location: Site A

1. Data Sheet(s) N.2
2. Phase Plots from SASW Tests N.4
3. Table of Masking Parameters N.14
4. Experimental Dispersion Curves N.17
5. Matching the Experimental and Theoretical Dispersion Curves N.18
6. Shear Wave Velocity Profile N.19
7. Table of Profile Parameters N.19

3 - Receiver SASW Data Sheet

Page 1 of 1

Project : Vogtle

Location : A(SA3#1)

Date/(Time) : Dec 12 / 2007 (9 AM :00 ~ :)

Personnel : stokoe, Yuan

Recorded by : Yuan.

Checked by : stokoe

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

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

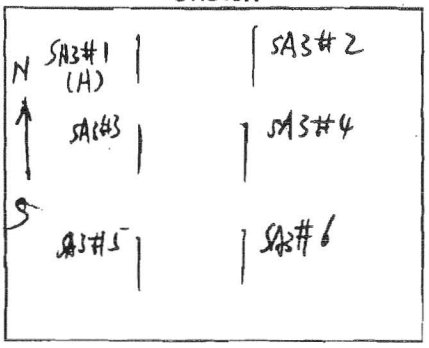
R3 I.D. : UT07-4.5Hz-03

Data Sheet # : SA3#1

Disk # : SA3#1

elev: 232.48

Sketch



Distance (ft)			Impact Direction		Impact Source	Record #	Freq. Range (Hz)	Notes
S - R1	R1 - R2	R2 - R3						
1	1	2	For	Rev	small hammer	3A1	0 ~ 800	
1	1	2	For	Rev	"	3A2	0 ~ 800	
3	3	6	For	Rev	med hammer	3A3	0 ~ 400	
3	3	6	For	Rev	"	3A4	0 ~ 400	
9	9	18	For	Rev	big hammer	3A5	0 ~ 200	small hammer better at higher freq.
9	9	18	For	Rev	sledge hammer	3A6	0 ~ 200	
9	9	18	For	Rev	big hammer	3A7	0 ~ 200	sledge hammer better at smaller freq.
9	9	18	For	Rev	sledge hammer	3A8	0 ~ 200	
			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