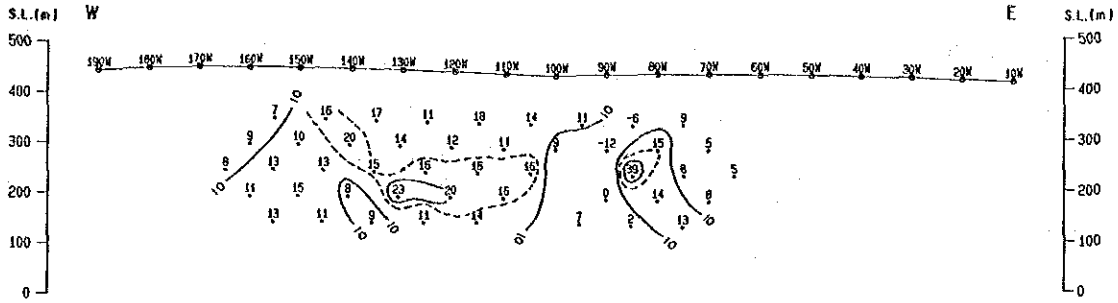


Fig. A-4 (1~22) Phase Pseudo-Section

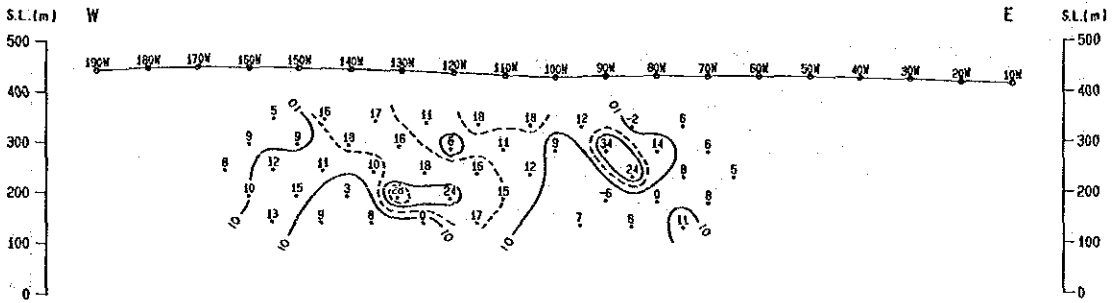


LINE-110S

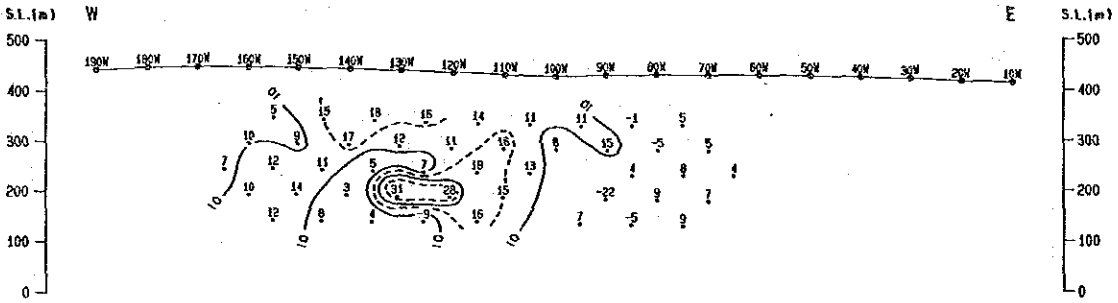
Raw Phase (-mrad) [0.125Hz]



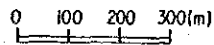
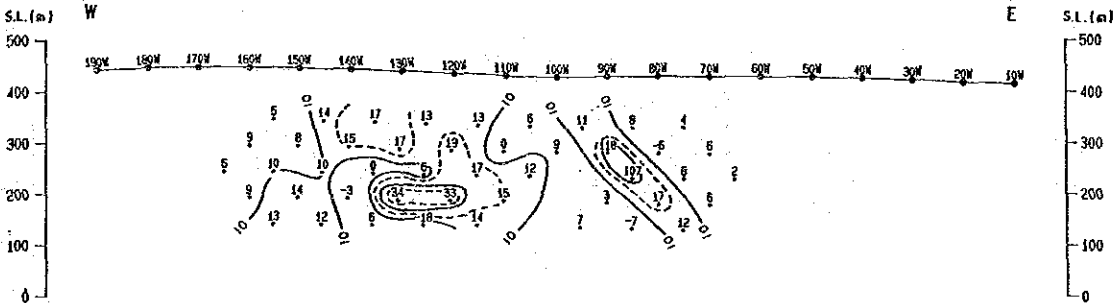
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]



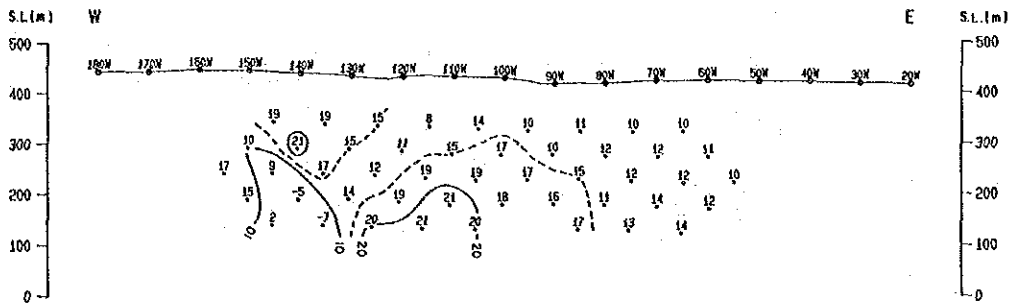
Raw Phase (-mrad) [0.875Hz]



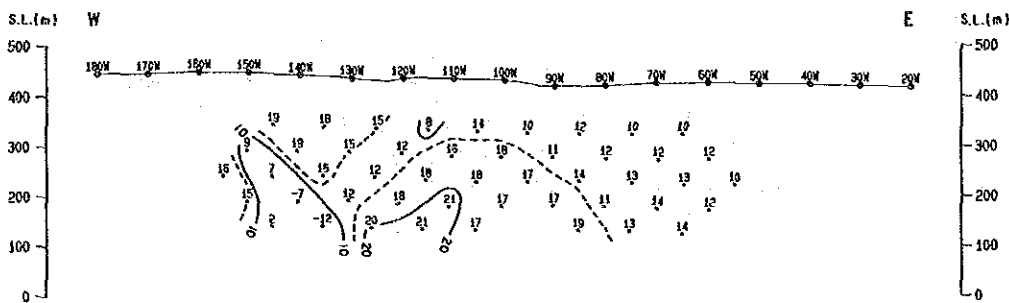


LINE-130S

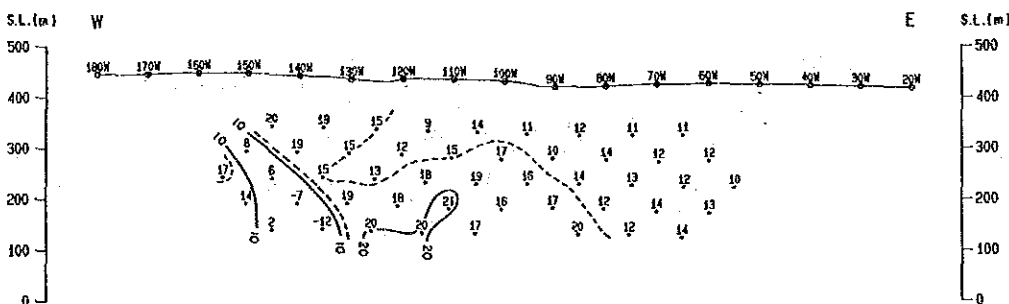
Raw Phase (-mrad) [0.125Hz]



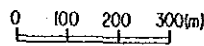
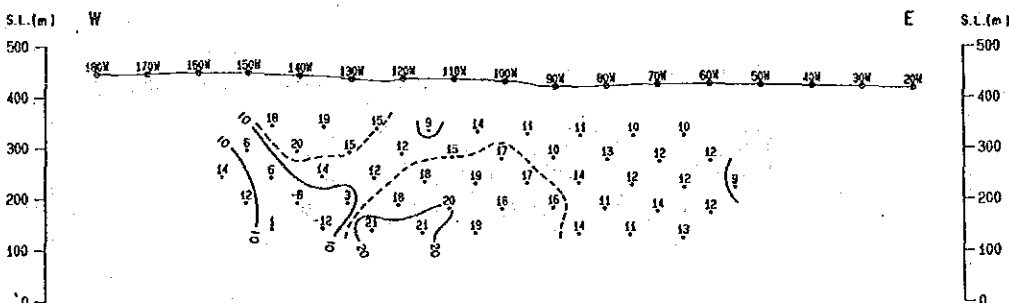
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

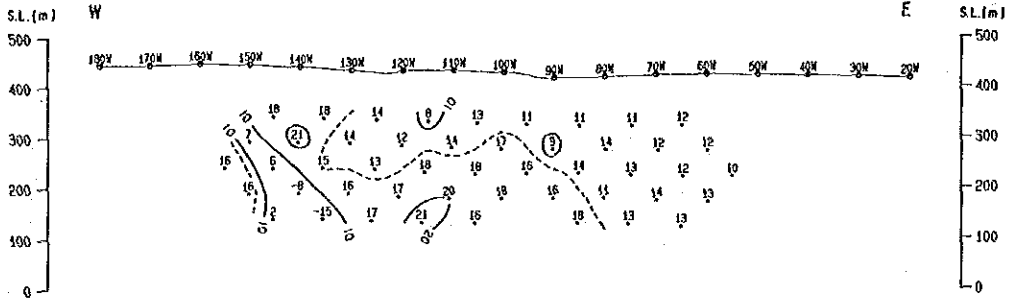


Raw Phase (-mrad) [0.875Hz]

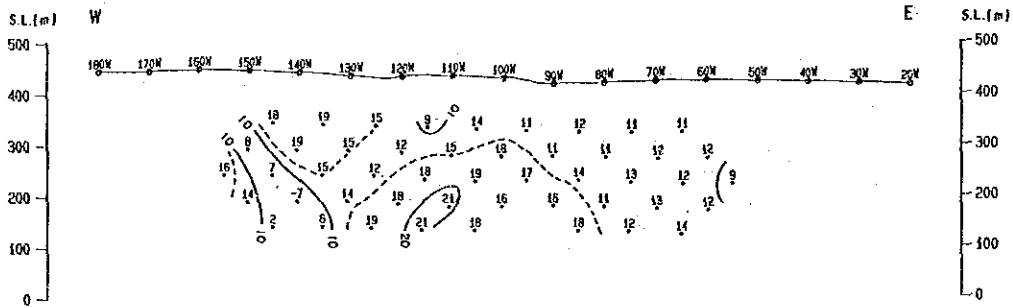


# LINE-130S

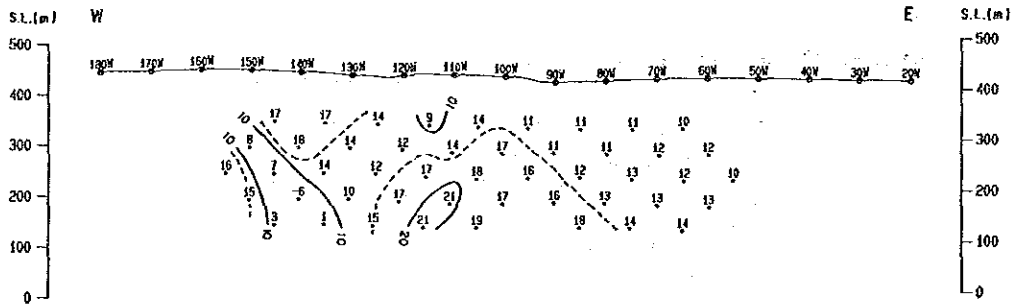
Raw Phase (-mrad) [1.125Hz]



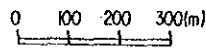
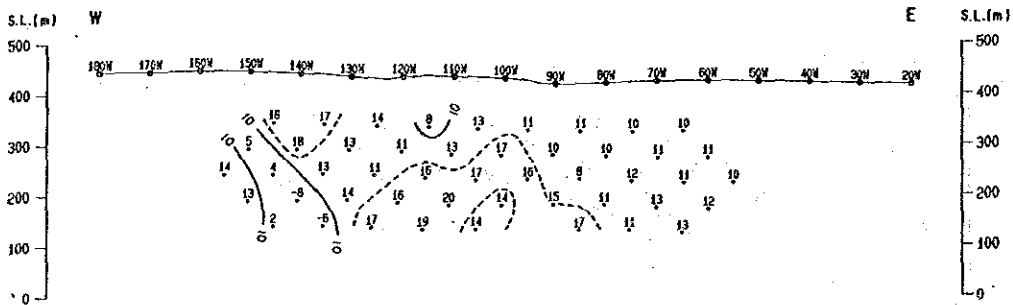
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

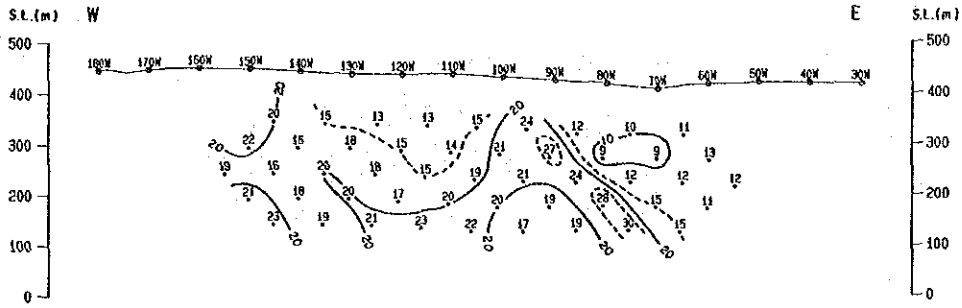


Raw Phase (-mrad) [5Hz]

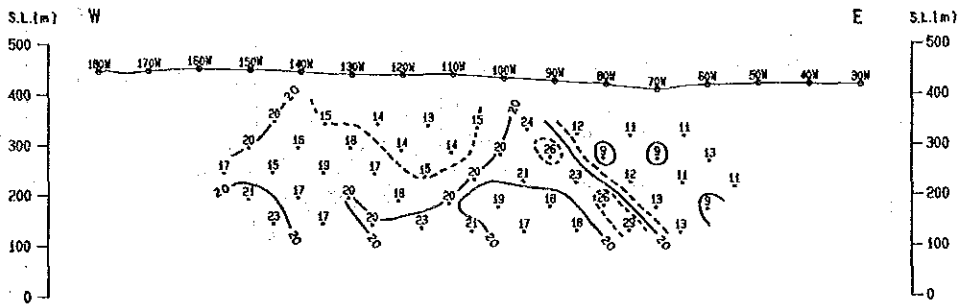


LINE-150S

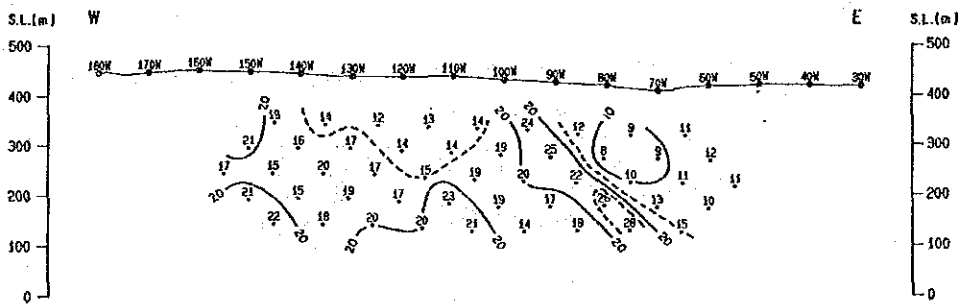
Raw Phase (-mrad) [0.125Hz]



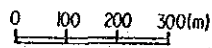
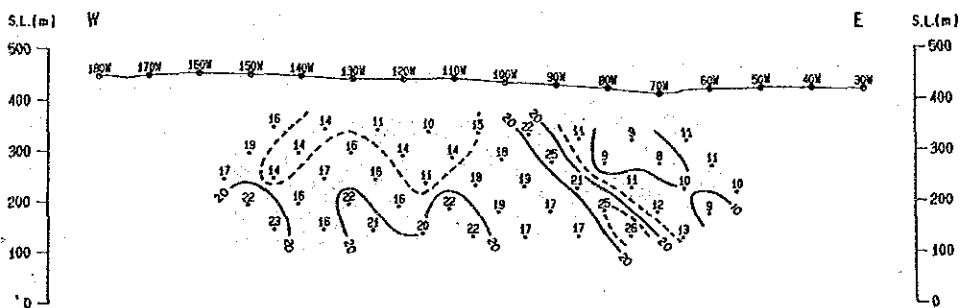
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

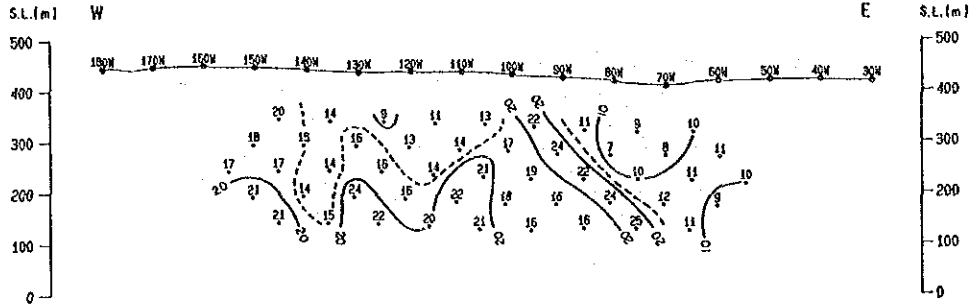


Raw Phase (-mrad) [0.875Hz]

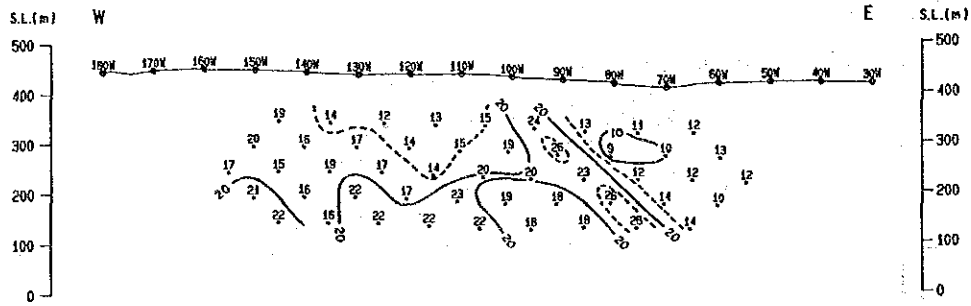


LINE-150S

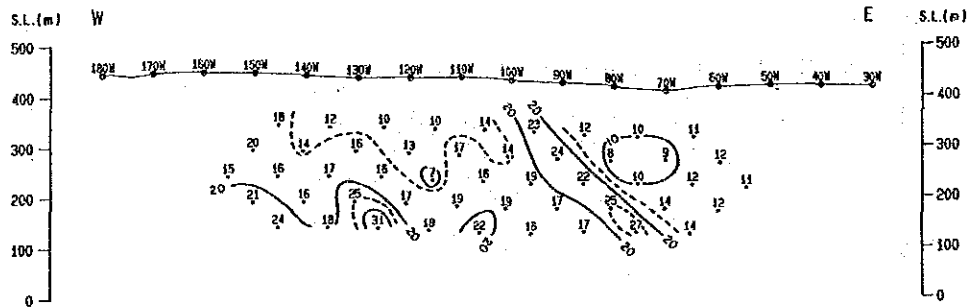
Raw Phase (-mrad) [1.125Hz]



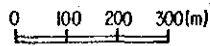
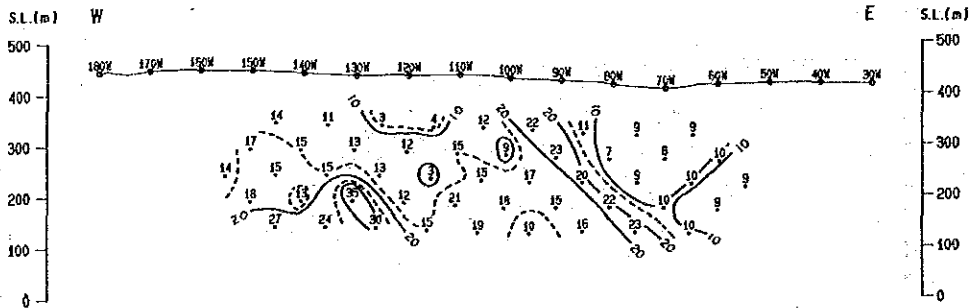
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]



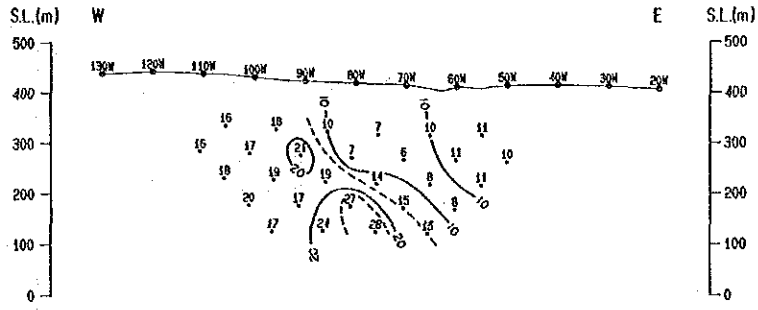
Raw Phase (-mrad) [5Hz]



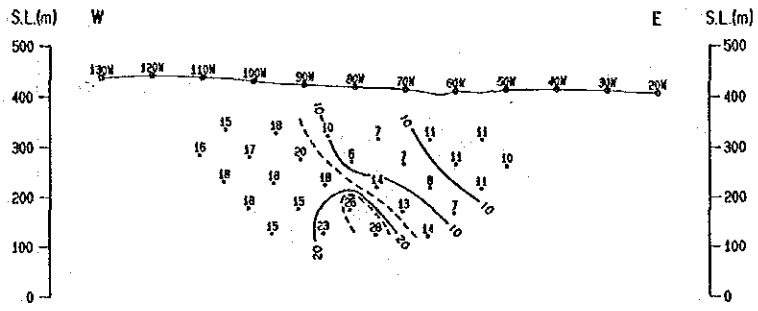


LINE-160S

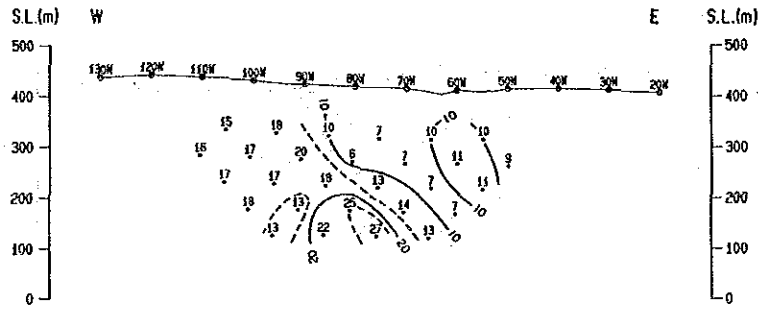
Raw Phase (-mrad) [0.125Hz]



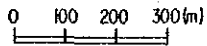
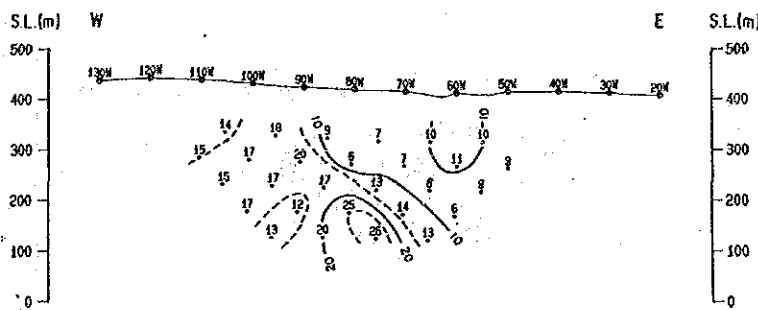
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

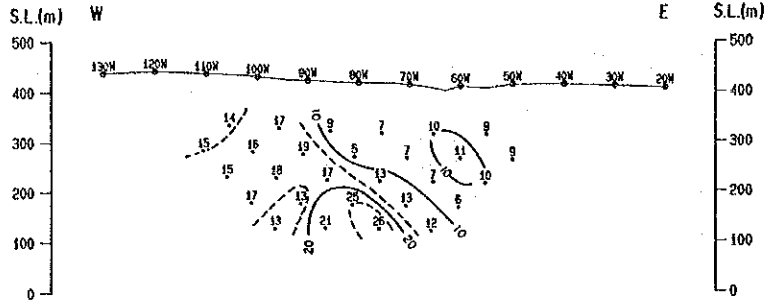


Raw Phase (-mrad) [0.875Hz]

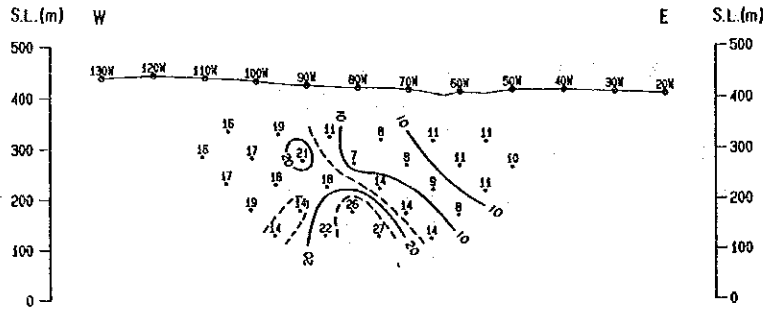


LINE-160S

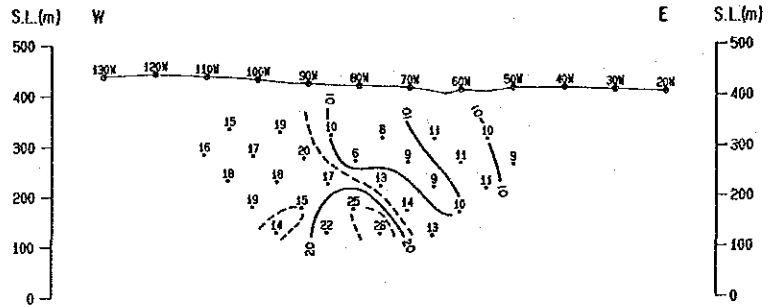
Raw Phase (-mrad) [1.125Hz]



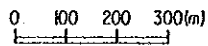
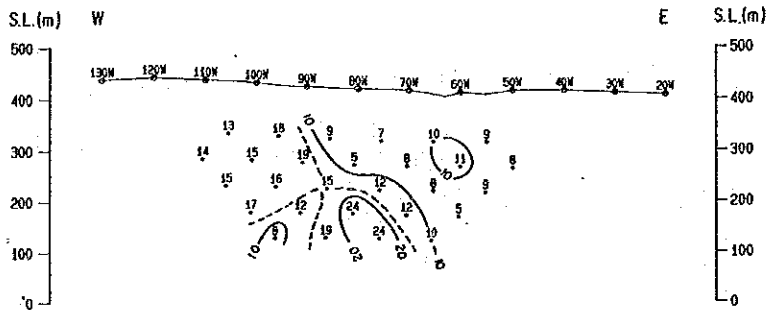
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

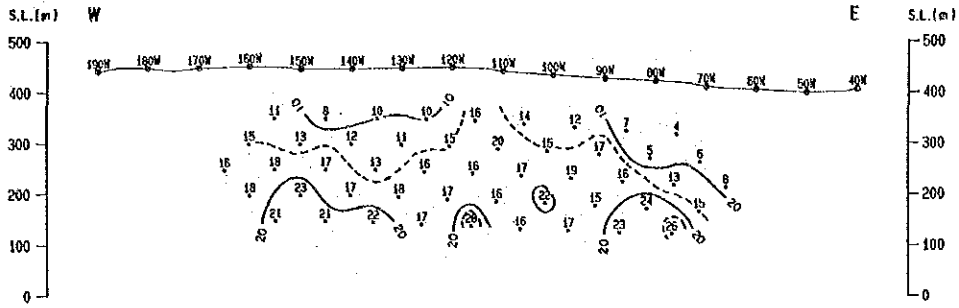


Raw Phase (-mrad) [5Hz]

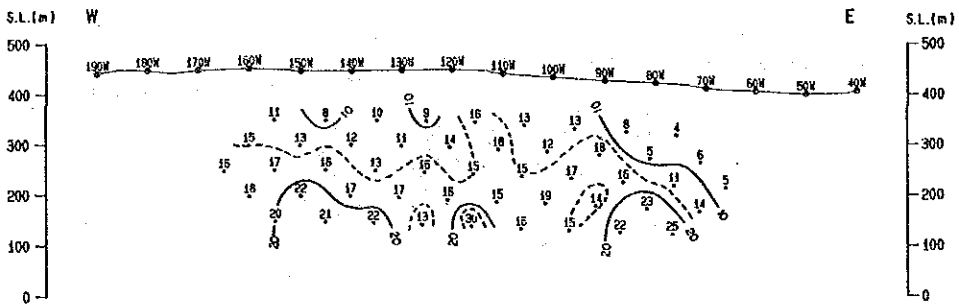


LINE-170S

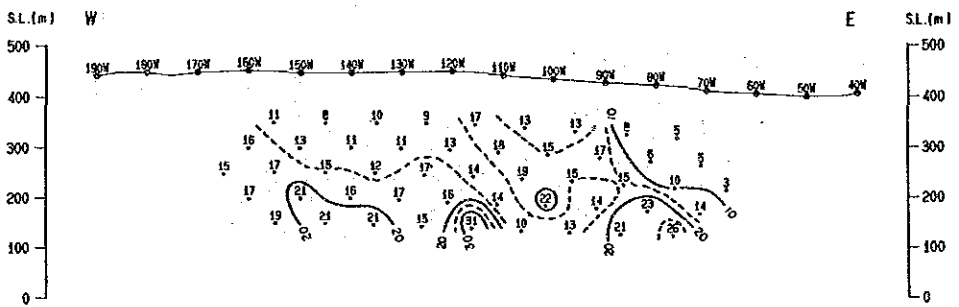
Raw Phase (-mrad) [0.125Hz]



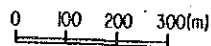
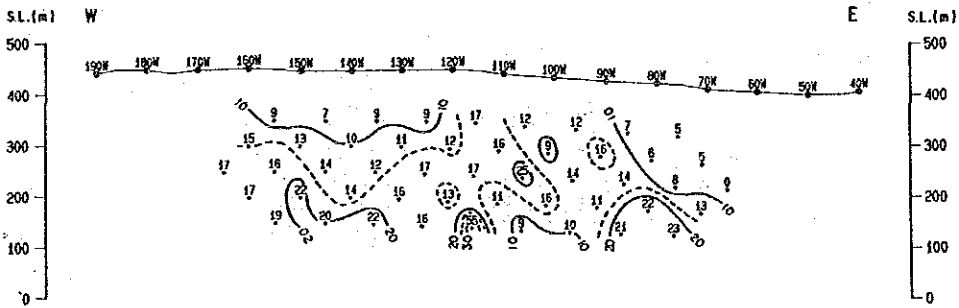
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

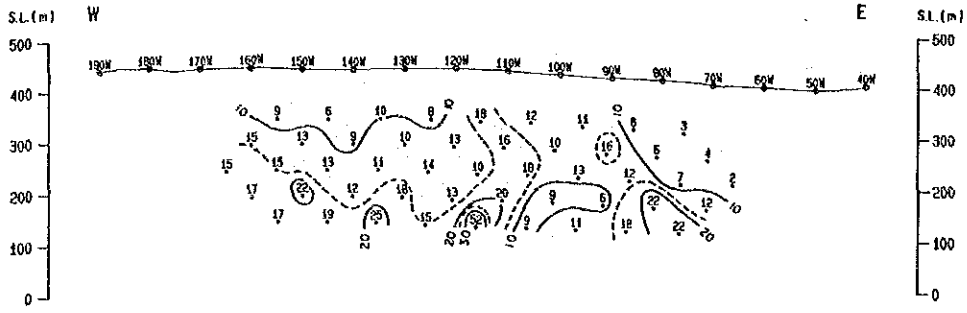


Raw Phase (-mrad) [0.875Hz]

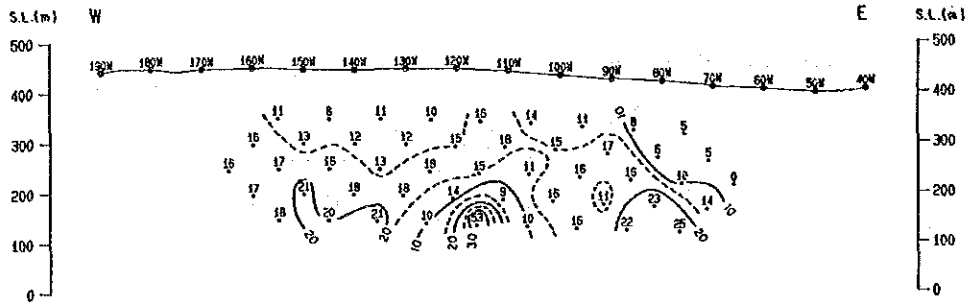


LINE-170S

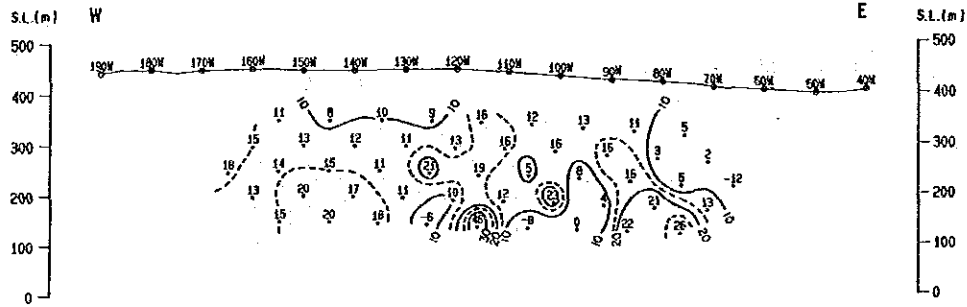
Raw Phase (-mrad) [1.125Hz]



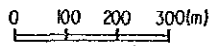
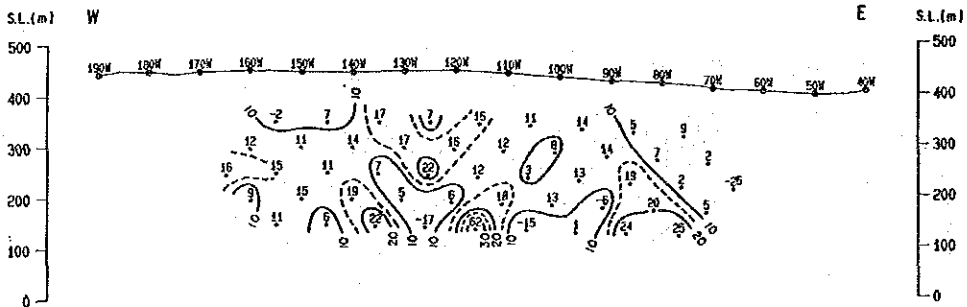
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

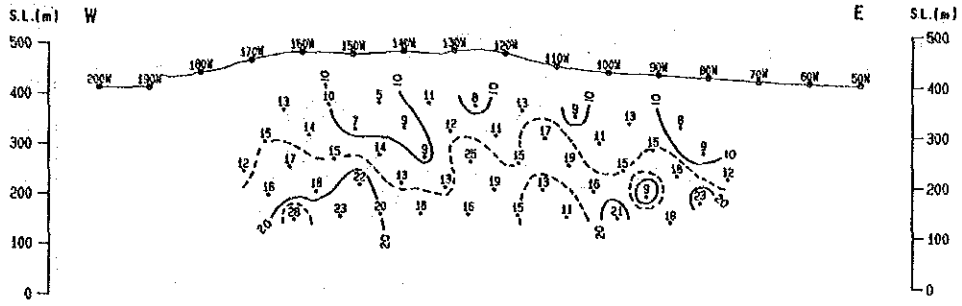


Raw Phase (-mrad) [5Hz]

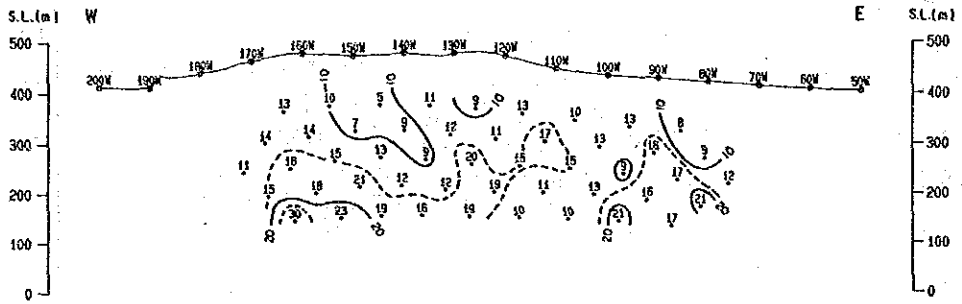


# LINE-190S

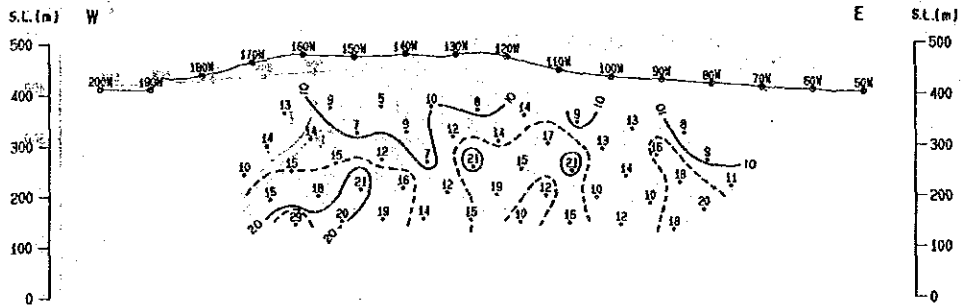
Raw Phase (-mrad) [0.125Hz]



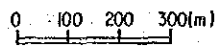
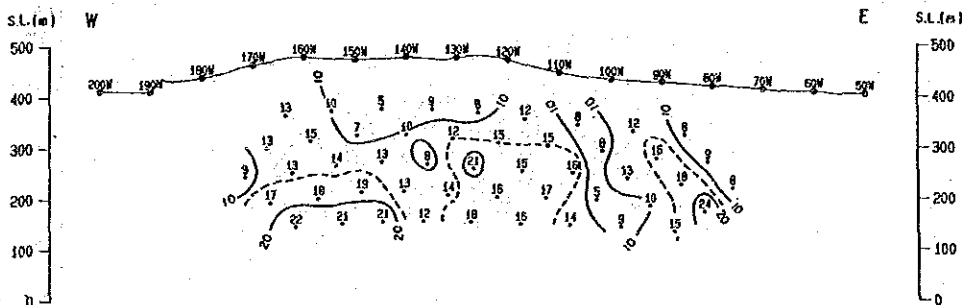
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

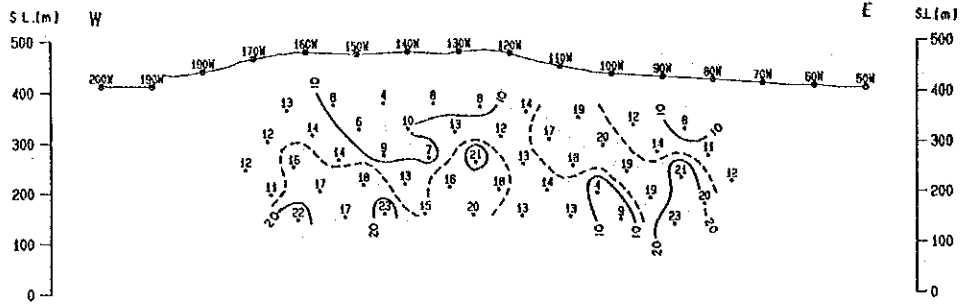


Raw Phase (-mrad) [0.875Hz]

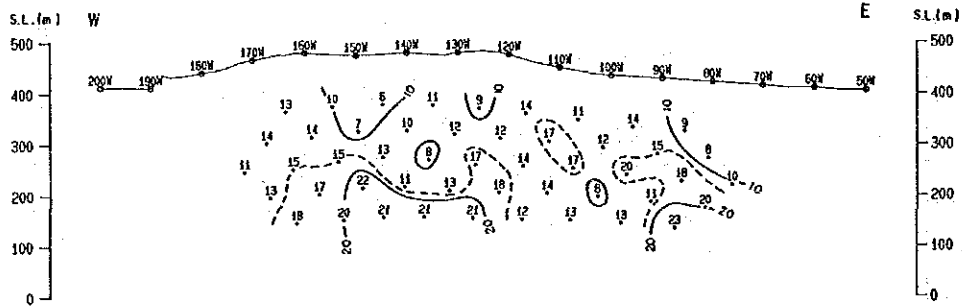


LINE-190S

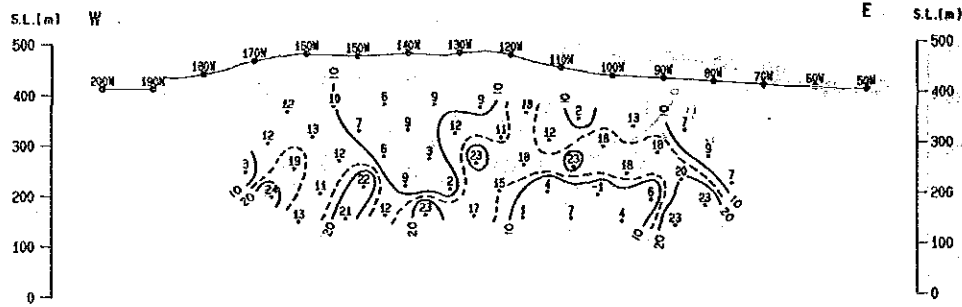
Raw Phase (-mrad) [1.125Hz]



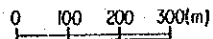
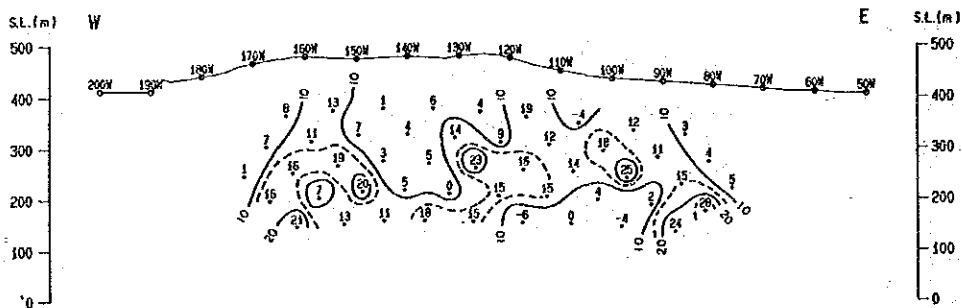
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

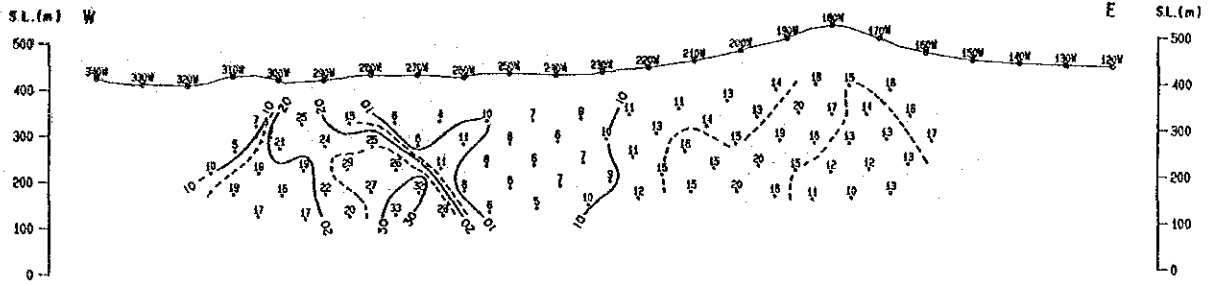


Raw Phase (-mrad) [5Hz]

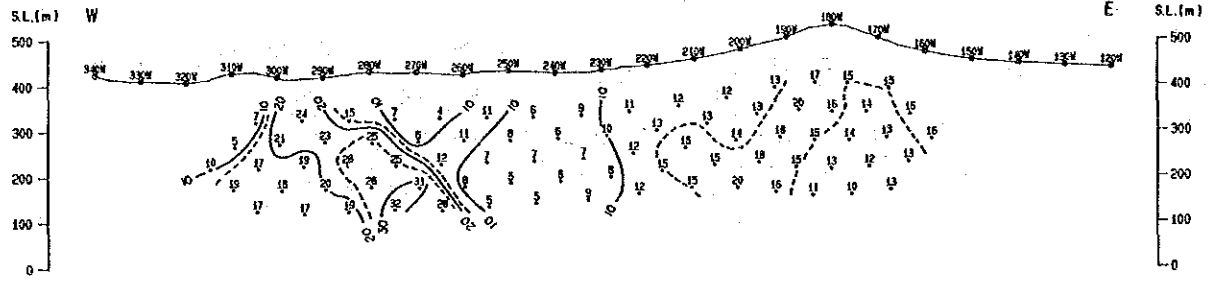


LINE-270S

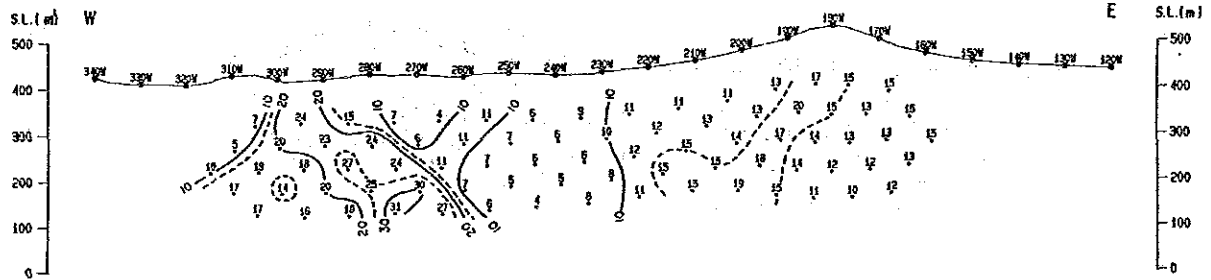
Raw Phase (-mrad) [0.125Hz]



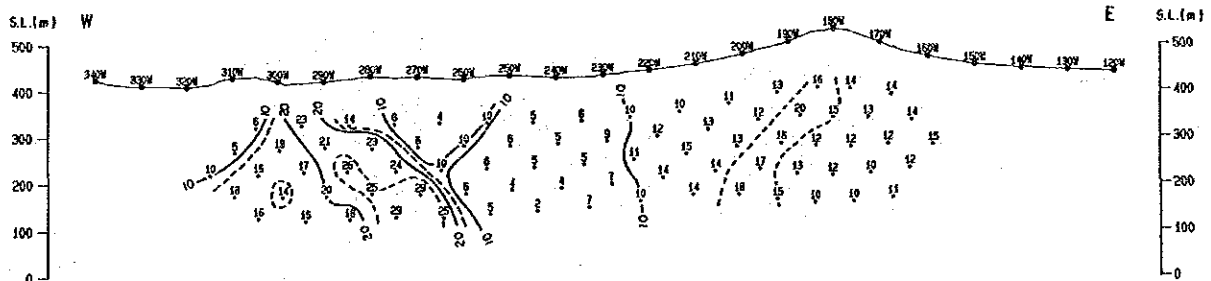
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]



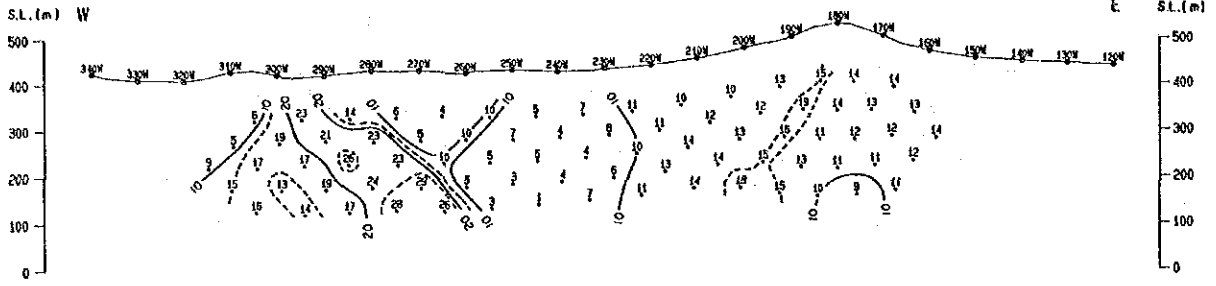
Raw Phase (-mrad) [0.875Hz]



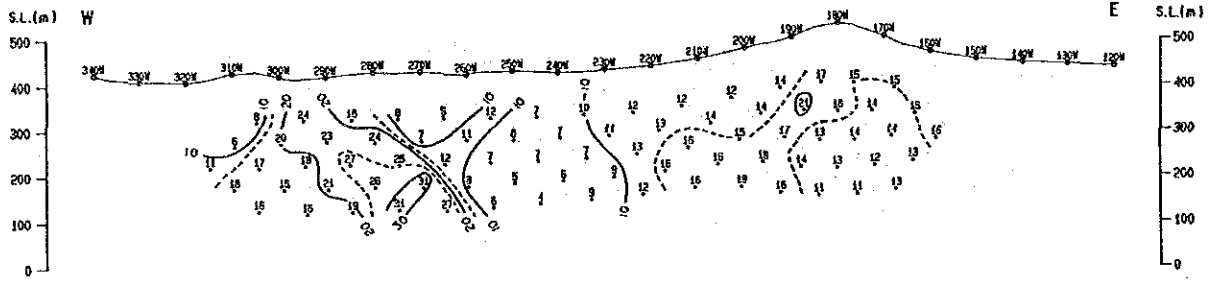
0 100 200 300(m)

LINE-270S

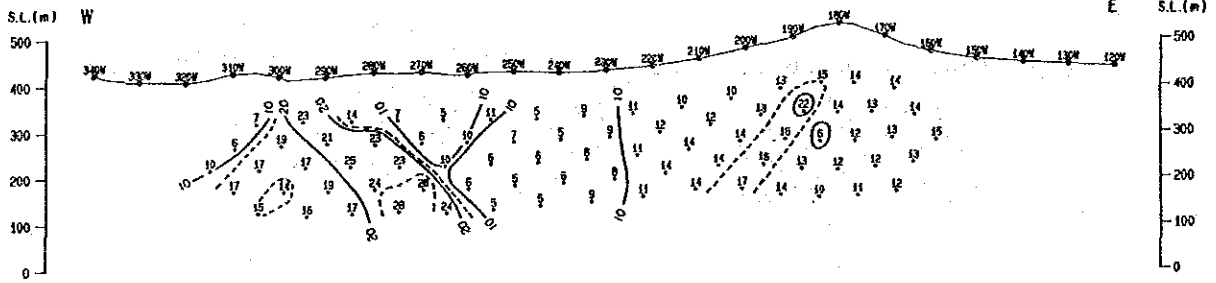
Raw Phase (-mrad) [1.125Hz]



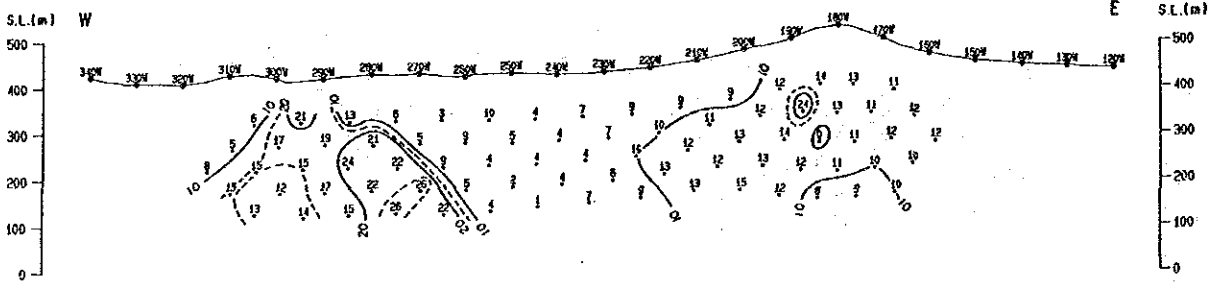
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]



Raw Phase (-mrad) [5Hz]

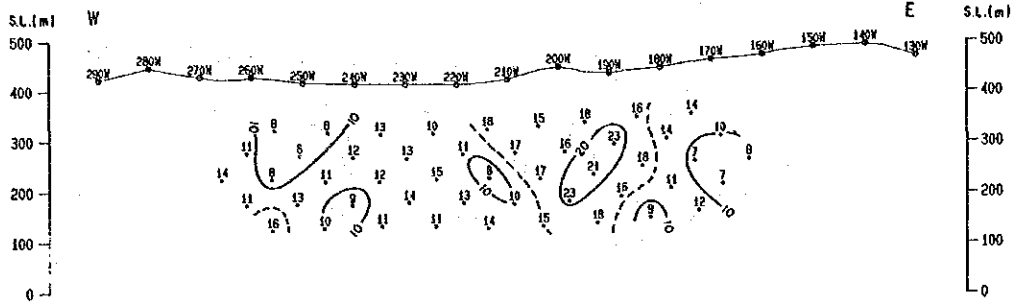


0 100 200 300(m)

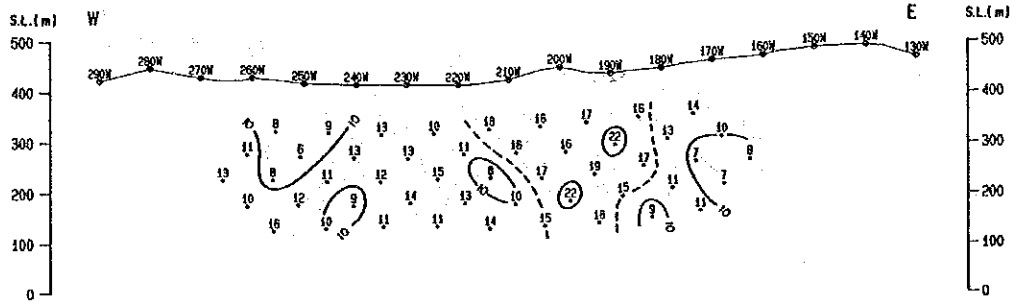


LINE-290S

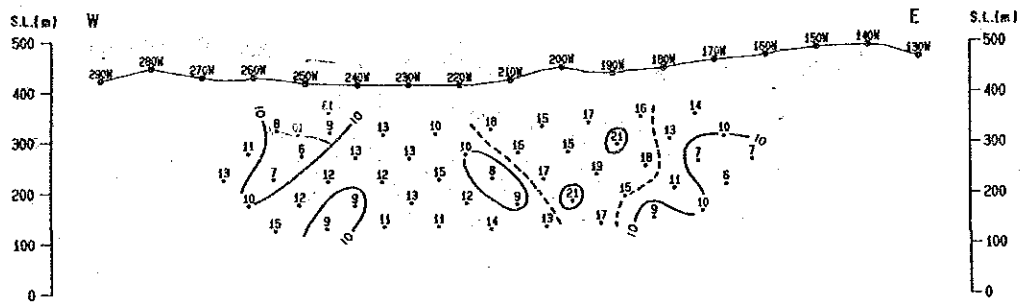
Raw Phase (-mrad) [0.125Hz]



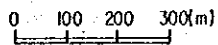
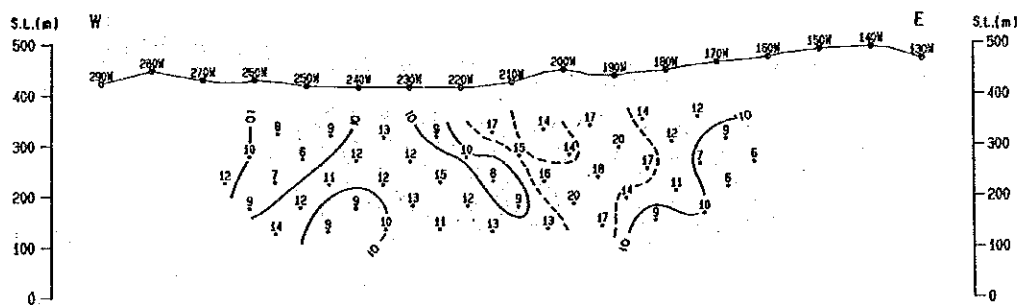
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

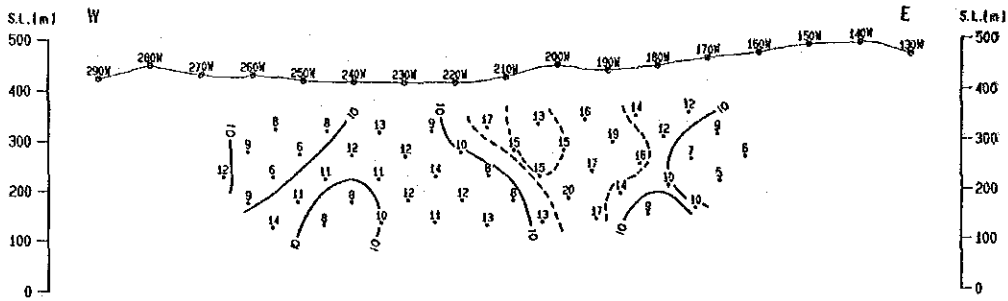


Raw Phase (-mrad) [0.875Hz]

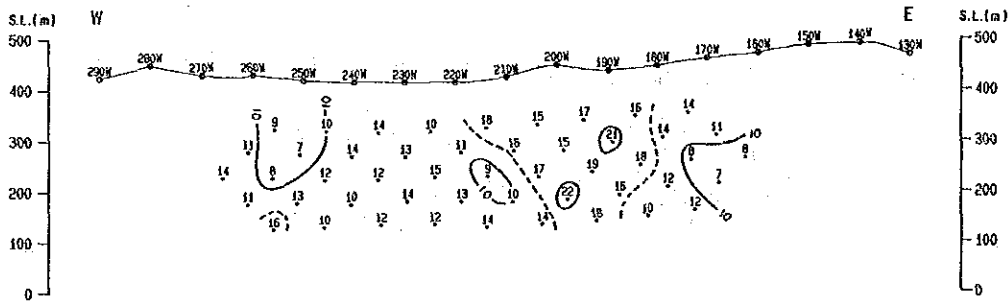


LINE-290S

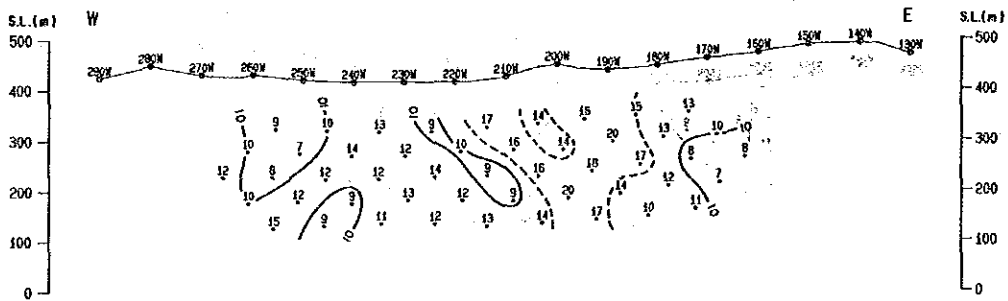
Raw Phase (-mrad) [1.125Hz]



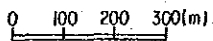
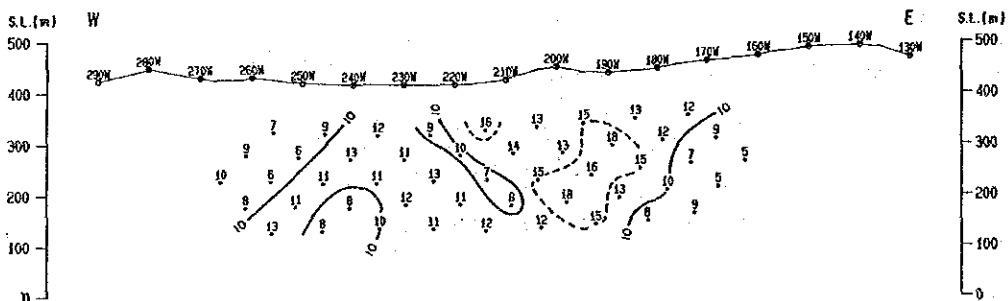
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

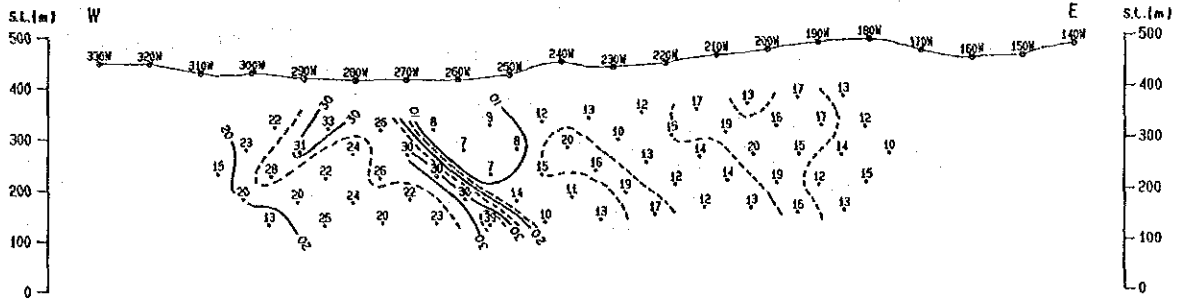


Raw Phase (-mrad) [5Hz]

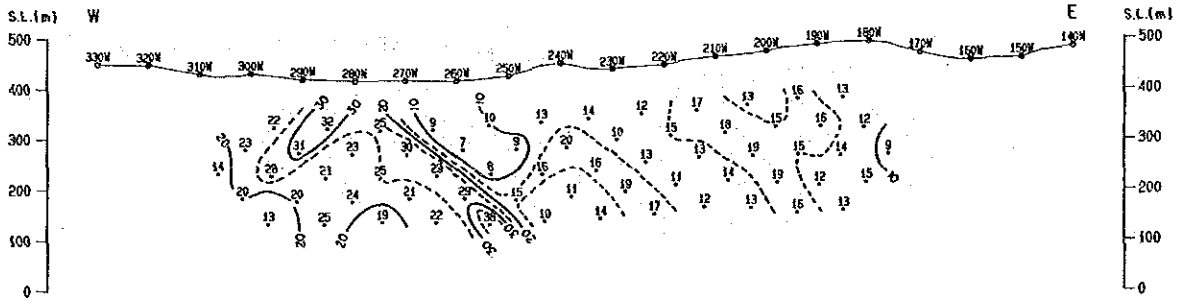


LINE-310S

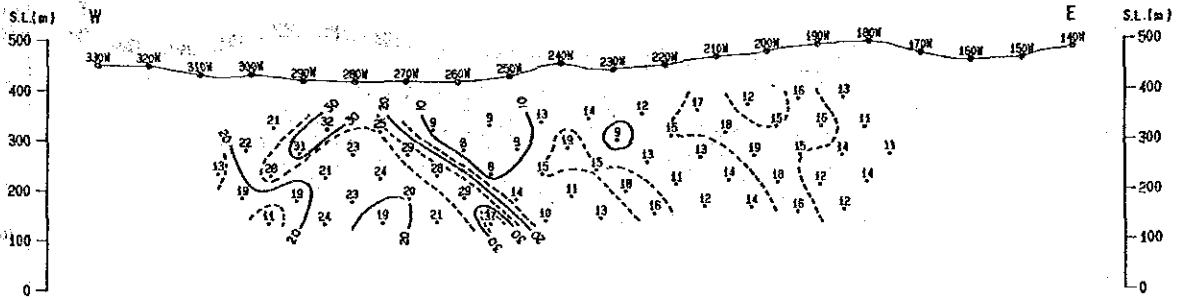
Raw Phase (-mrad) [0.125Hz]



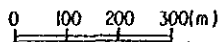
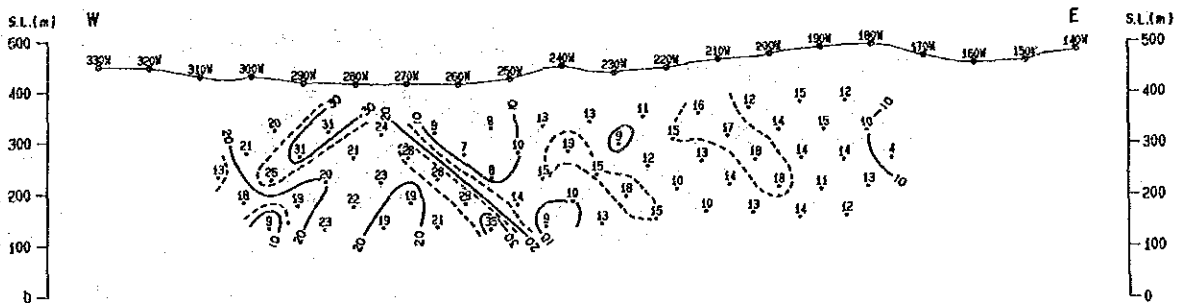
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

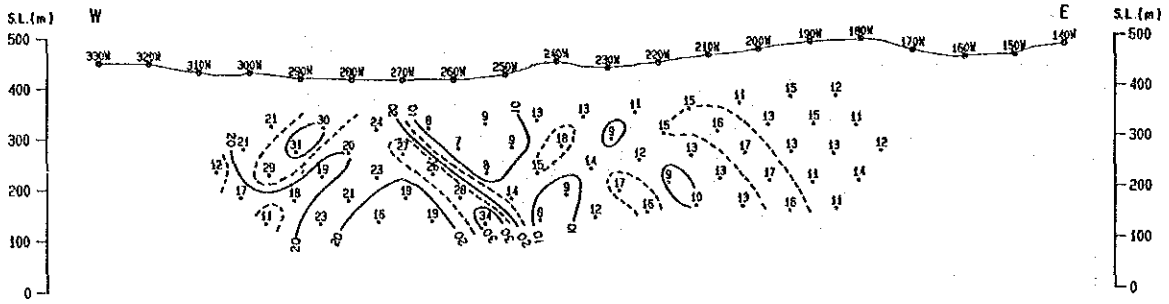


Raw Phase (-mrad) [0.875Hz]

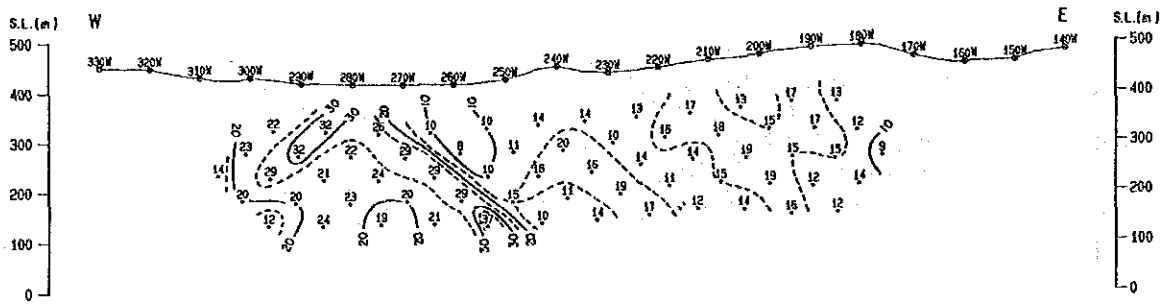


LINE-310S

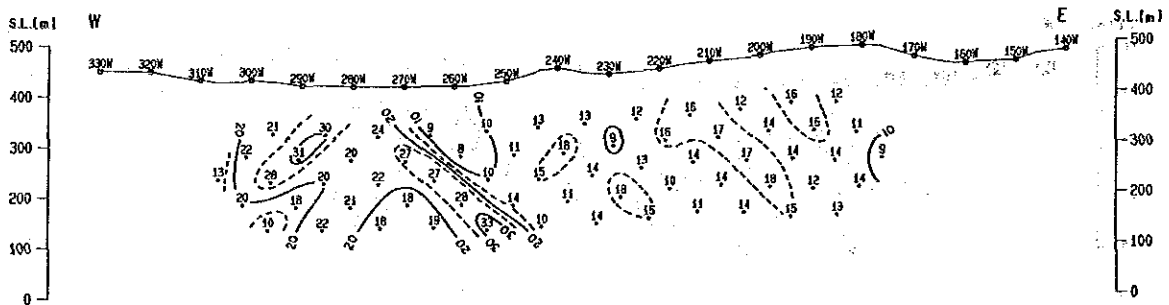
Raw Phase (-mrad) [1.125Hz]



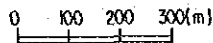
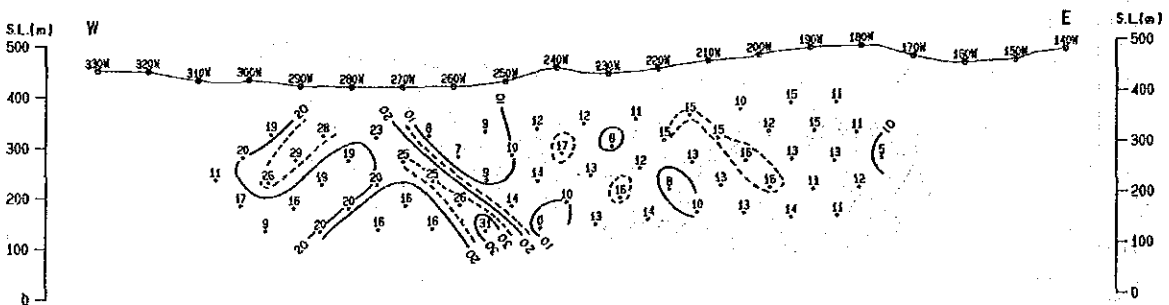
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

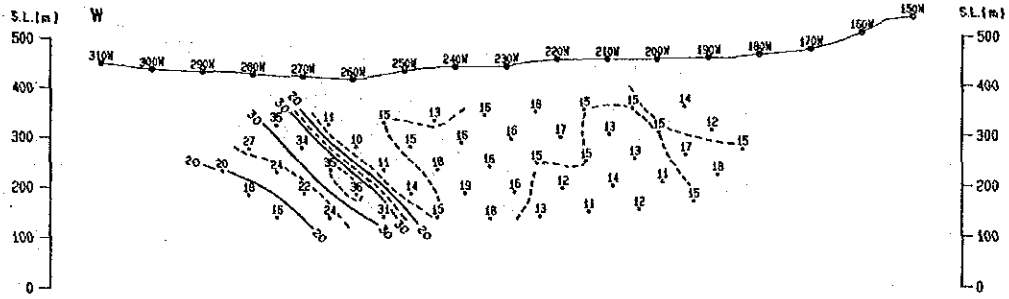


Raw Phase (-mrad) [5Hz]

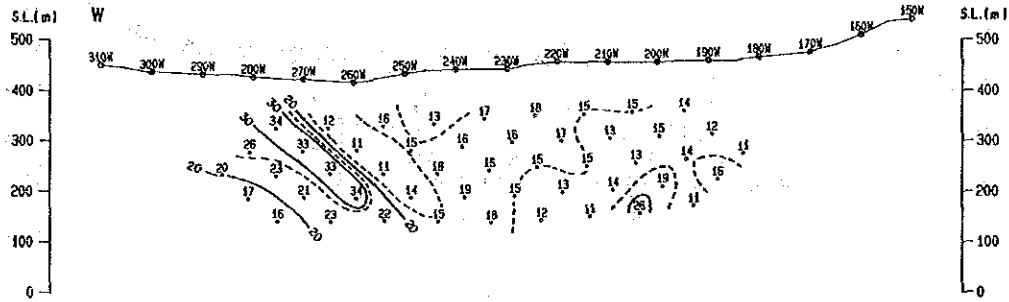


LINE-330S

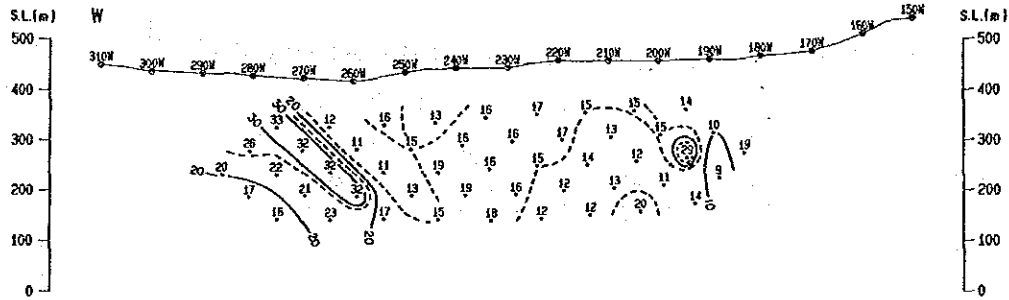
Raw Phase (-mrad) [0.125Hz]



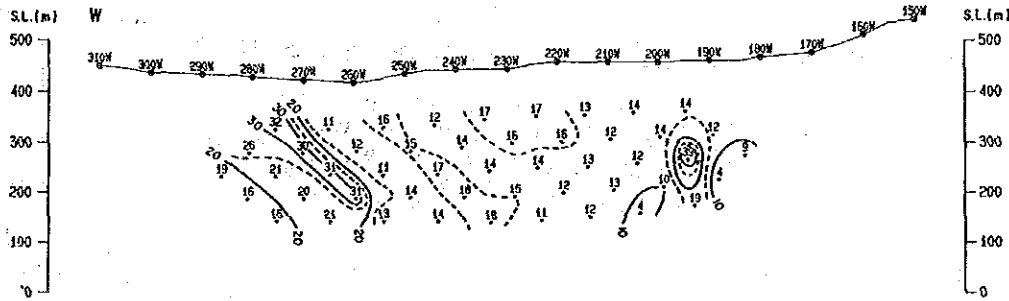
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]



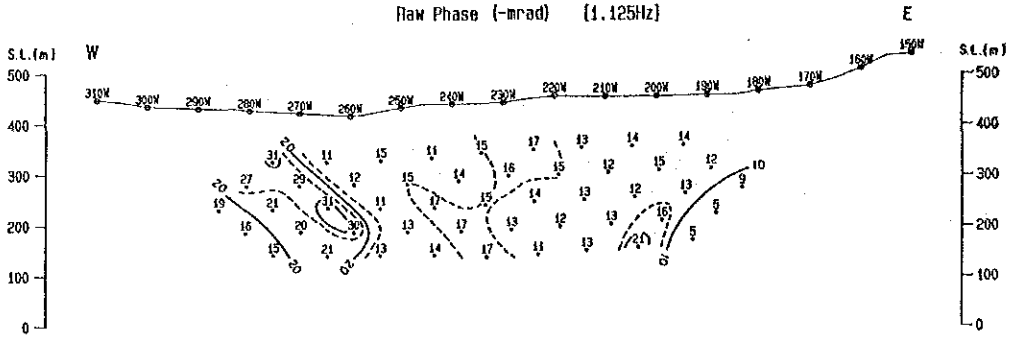
Raw Phase (-mrad) [0.875Hz]



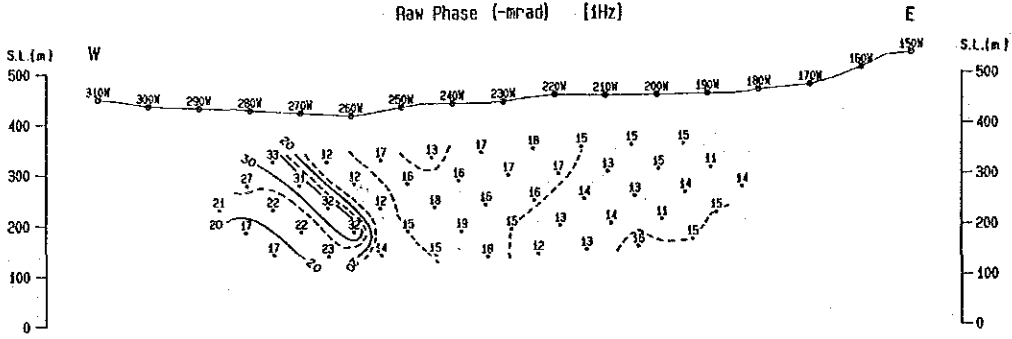
0 100 200 300(m)

LINE-330S

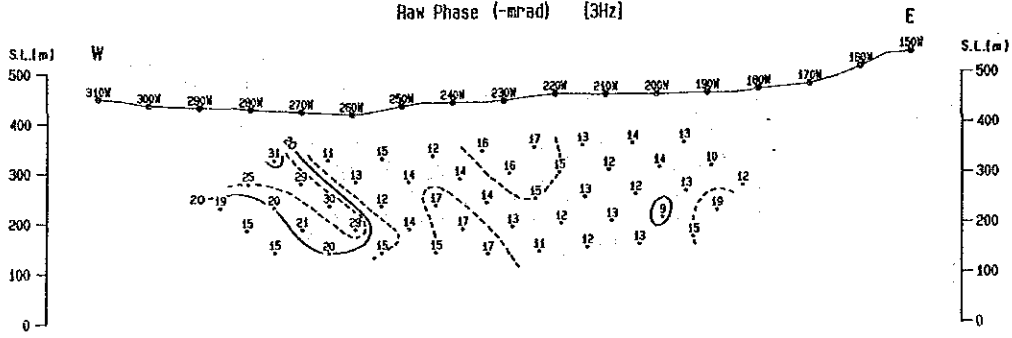
Raw Phase (-mrad) [1.125Hz]



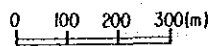
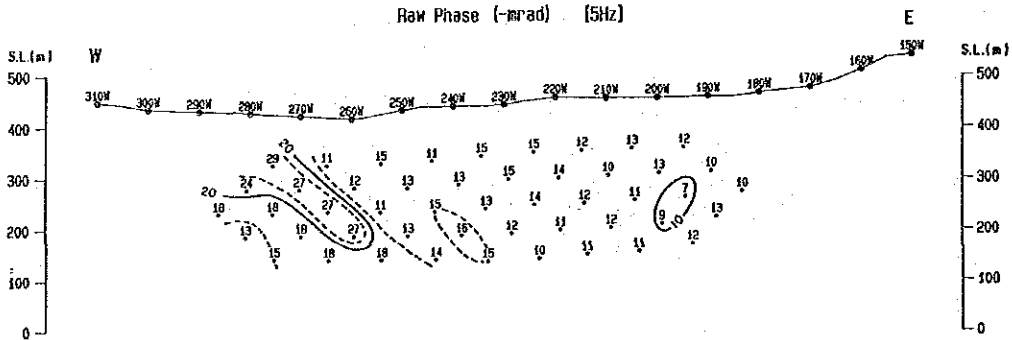
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

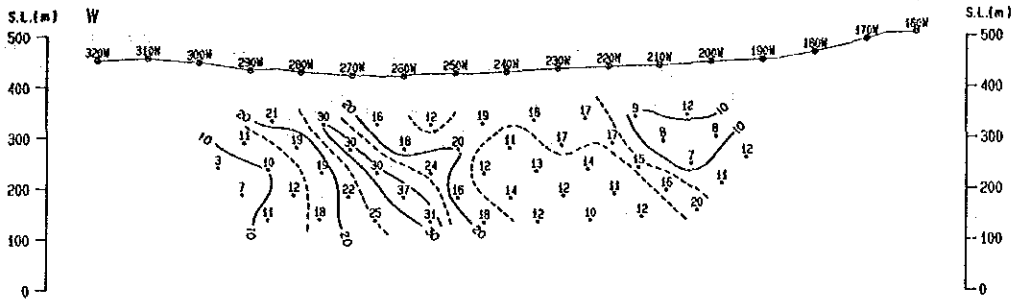


Raw Phase (-mrad) [5Hz]

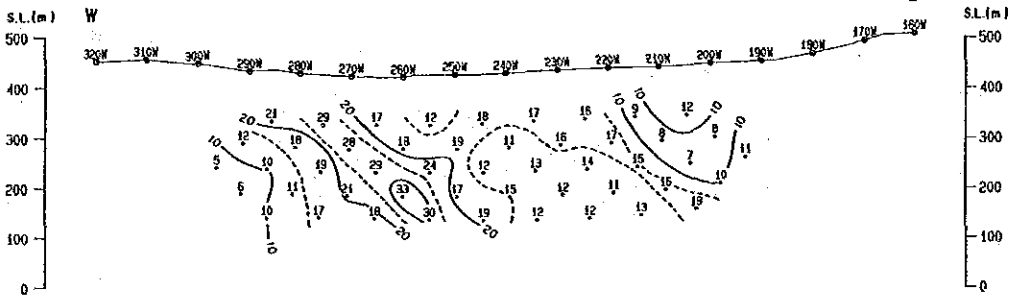


LINE-350S

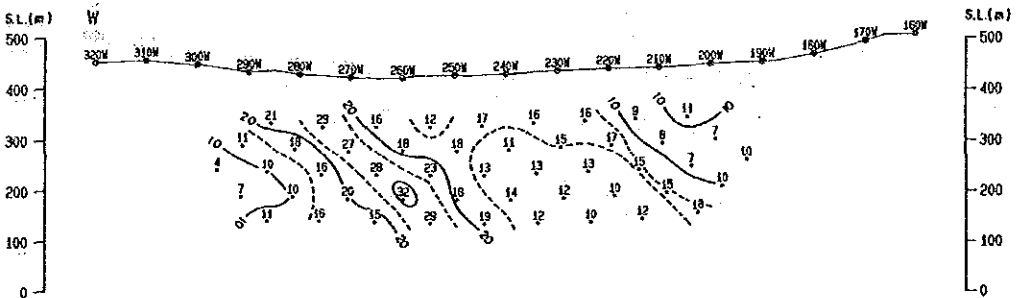
Raw Phase (-mrad) [0.125Hz]



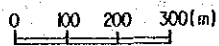
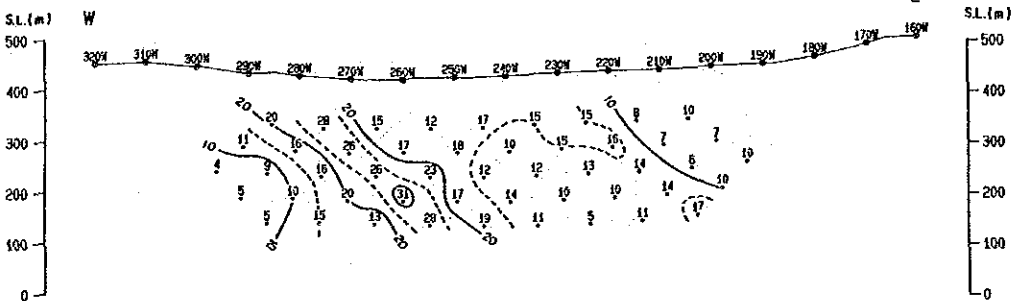
Raw Phase (-mrad) [0.375Hz]



Raw Phase (-mrad) [0.625Hz]

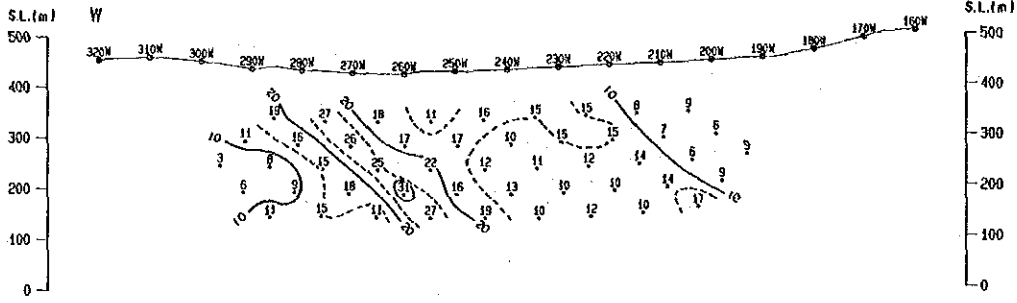


Raw Phase (-mrad) [0.875Hz]

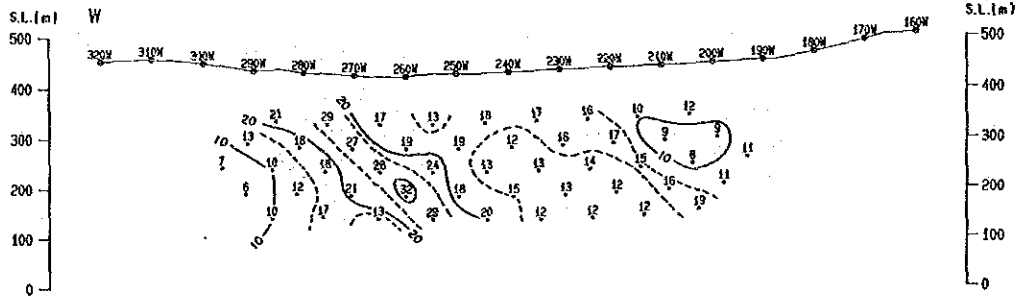


LINE-350S

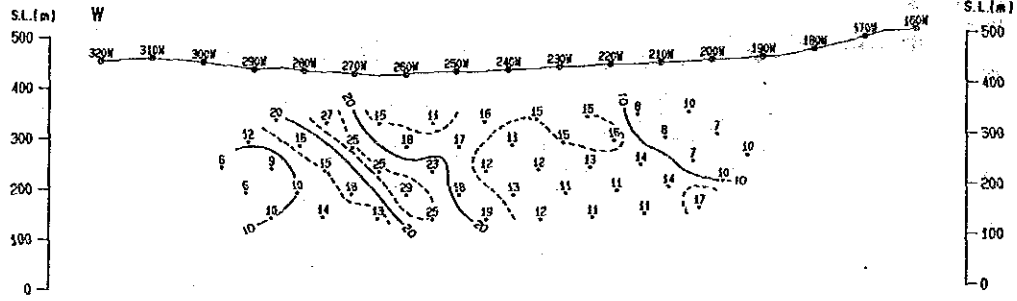
Raw Phase (-mrad) [1.125Hz]



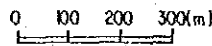
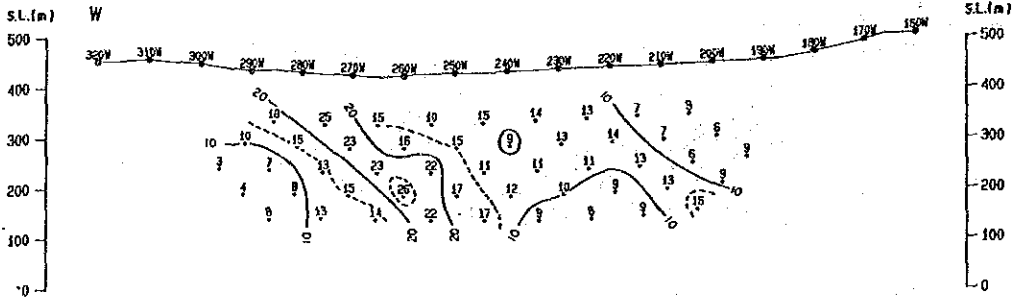
Raw Phase (-mrad) [1Hz]



Raw Phase (-mrad) [3Hz]

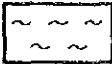
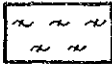
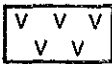


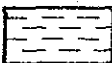

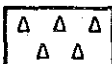
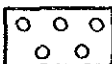



Raw Phase (-mrad) [5Hz]





# LEGEND

	mv - bt - qtz schist
	chl - bt - qtz schist
	amphibole schist
	graphite
	quartz
	soil
	weathered rock
	brecciated
	boulder
	schistosity, waving

qtz	: quartz	⓪	: sample for ore analysis
bt	: biotite	Ⓟ	: sample for polished section
mv	: muscovite	Ⓣ	: sample for thin section
amp	: amphibole	Ⓢ	: sample for physical property
chl	: chlorite		
gnt	: garnet		
str	: staurolite		
gp	: graphite		
⊙	: abundant		
○	: common		
◦	: a little		
•	: rare		

Fig. A-5 Columanar Section of Core Logs (1:200)



# DRILLING LOG

HOLE NO. MBP-1 (1)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.15 m

COORDINATES: E794.90 , N8551.91  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS				ORE MINERALS				REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite	ROCK NAME	pyrrhotite	pyrite	chalcopyrite		magnetite
1.60	(hatched)																	brown soil with quartzite boulders (A,B)
10	(diagonal lines)				?	?												gray highly weathered mica - qtz schist (C)
11.50	(wavy lines)				?	?												segregated quartz vein partly observed
20	(wavy lines)				?	?												
30	(wavy lines)				?	?												
30.33	(wavy lines)				?	?												
31.60	(wavy lines)				?	?												bt - chl schist
34.45	(wavy lines)				?	?												↑ 34.45~34.50m (S), 34.50m (T), 34.50~35.00m (O)
36.75	(wavy lines)				?	?												
37.70	(wavy lines)				?	?												
38.55	(wavy lines)				?	?												bt - amp schist
40	(wavy lines)				?	?												



# DRILLING LOG

HOLE NO. MBP-1

(3)

LOCATION: Palmeiropolis area

COORDINATES: E794.90, N8551.91

DIRECTION: 285°

INCLINATION: -60°

FINAL DEPTH: 300.15 m

DEPTH (m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS					ORE MINERALS				REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite	ROCK NAME	pyrrhotite	pyrite	chalcopyrite	magnetite		
87.00	~ /	○			○	○									○	○	?		↑ 87.00~87.50m ① ↓ 87.50~87.55m ②
87.50		○			○	○									○	○			
88.00		○			○	○									○	○			
88.50		○			○	○									○	○			
89.00		○			○	○									○	○			
89.50		○			○	○									○	○			
90.00		○			○	○									○	○			
90.50		○			○	○									○	○			
91.00		○			○	○									○	○			
91.50		○			○	○									○	○			
94.40		○			○	○								○	○			mv - bt - qtz - schist	
95.00	~ /	○			○	○								○	○				
95.50	~ /	○			○	○								○	○				
96.00	~ /	○			○	○								○	○				
96.50	~ /	○			○	○								○	○				
97.00	~ /	○			○	○								○	○				
97.50	~ /	○			○	○								○	○				
98.00	~ /	○			○	○								○	○				
98.50	~ /	○			○	○								○	○				
99.00	~ /	○			○	○								○	○				
100.00		○			○	○								○	○			chl - bt - qtz schist	
100.50	~ /	○			○	○								○	○				
101.00	~ /	○			○	○								○	○				
101.50	~ /	○			○	○								○	○				
102.00	~ /	○			○	○								○	○				
102.50	~ /	○			○	○								○	○				
103.00	~ /	○			○	○								○	○				
103.50	~ /	○			○	○								○	○				
104.00	~ /	○			○	○								○	○				
104.50	~ /	○			○	○								○	○				
110.00	~ /	○			○	○								○	○			chl - bt - qtz - amp schist	
110.50	~ /	○			○	○								○	○				
111.00	~ /	○			○	○								○	○				
111.50	~ /	○			○	○								○	○				
112.00	~ /	○			○	○								○	○				
112.50	~ /	○			○	○								○	○				
113.00	~ /	○			○	○								○	○				
113.50	~ /	○			○	○								○	○				
114.00	~ /	○			○	○								○	○				
114.95	~ /	○			○	○								○	○				
120.00	~ /	○			○	○								○	○				

# DRILLING LOG

HOLE NO. MBP-1

(4)

LOCATION : Palmeiropolis area

COORDINATES: E794.90, N8551.91

DIRECTION : 285°

INCLINATION: -60°

FINAL DEPTH: 300.15 m

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS			ROCK NAME	ORE MINERALS			REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite		chalcopyrite
122.00	V V V	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
130	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
140	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
143.90	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
146.00	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
150	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
155.50	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
	/	○	○	○	○	○	○	○	○	○				○	○	○	
160	/	○	○	○	○	○	○	○	○	○				○	○	○	

gnt - pl - chl - bt - qtz schist

mv - bt - qtz schist

136.25 ~ 137.30m brecciated

155.50 ~ 235.90m  
chl - bt - qtz schist /  
mv - bt - qtz schist

# DRILLING LOG

HOLE NO. MBP-1

(5)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.15 m

COORDINATES: E794.90 , N8551.91  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite	chalcopyrite	
160.15		o			o		•	o				o					
162.50		o			o		•	o				o					
166.10		o			o		•	o				o					
170		o			o		•	o				o					
172.40		o			o		•	o				o					
180		o			o		•	o				o					
180.50		o			o		•	o				o					
185.10		o			o		•	o				o					
186.70		o			o		•	o				o					
190		o			o		•	o				o					
190.40		o			o		•	o				o					
195.60		o			o		•	o				o					
197.90		o			o		•	o				o					
198.90		o			o		•	o				o					
200		o			o		•	o				o					

chl - bt - qtz schist / mv - bt - qtz schist

↑ 193.50 ~ 194.00m ⊙  
 194.00m ⊕  
 194.00 ~ 194.05m ⊙

# DRILLING LOG

HOLE NO. MBP-1

(6)

LOCATION : Palmeiropolis area

COORDINATES: E794.90 , N8551.91

DIRECTION : 285°

INCLINATION: -60°

FINAL DEPTH: 300.15 m

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS				ROCK NAME	ORE MINERALS			REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite		pyrrhotite	pyrite	chalcopyrite		magnetite
204.65		○			○	○							○	○			schist / quartzite	
204.80		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
210		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
212.85		○			○	○							○	○			schist / quartzite	
213.60		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
216.10		○			○	○							○	○				
		○			○	○							○	○				
217.70		○			○	○							○	○				
	○			○	○							○	○					
220		○			○	○							○	○			schist / quartzite	
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
222.10		○			○	○							○	○				
		○			○	○							○	○				
223.15		○			○	○							○	○			schist / quartzite	
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
225.40		○			○	○							○	○				
		○			○	○							○	○				
230		○			○	○							○	○			schist / quartzite	
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
234.70		○			○	○							○	○				
	○			○	○							○	○					
235.90		○			○	○							○	○			schist / quartzite	
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
		○			○	○							○	○				
240		○			○	○							○	○				

235.90 300.15m  
my - bt - qtz schist



# DRILLING LOG

HOLE NO. MBP- 1

( 7 )

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.15 m

COORDINATES: E794.91 , N8551.91  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS				ROCK NAME	ORE MINERALS			REMARKS
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite		pyrrhotite	pyrite	chalcopyrite	
250	/ / / / /	⊙			○	○								○			
255.10 255.75	/ / / / /	⊙			○	○								○			
260	/ / / / /	⊙			○	○								○			
270	/ / / / /	⊙			○	○								○			
280	/ / / / /	⊙			○	○								○			
mv - bt - qtz schist																	
↓ 266.50~267.00m ⊙ 267.00m ① 267.00~267.05m ③																	

# DRILLING LOG

HOLE NO. MBP-1

(8)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.15 m

COORDINATES: E794.90, N8551.91  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite	chalcopyrite	
284.85		○			○	○							○				
		○			○	○							○				
		○			○	○							○				
		○			○	○							○				
		○			○	○							○				
		○			○	○							○				
		○			○	○							○				
		○			○	○							○				
		○			○	○							○				
286.50			○			○	○						○				
290		○			○	○						○					
300		○			○	○						○					
300.15																	

# DRILLING LOG

HOLE NO. MBP-2 (1)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.12 m

COORDINATES: E792.73 , N8551.17  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite	chalcopyrite	
0.65	[soil pattern]																brown soil (A)
1.85	[soil pattern]																reddish brown soil (B)
5.70	[soil pattern]																yellow ~ yellow brown soil (B)
10	[diagonal lines]																greenish gray highly weathered rock (C) (fine amphibolite ?)
17.10	[diagonal lines]																fine amphibolite
21.45	[diagonal lines]																
28.95	[diagonal lines]	•	•			○	⊙	•	○			○	•	○			
30	[diagonal lines]	•	•			○	⊙	•	○			○	•	○			
30	[diagonal lines]	•	•			○	⊙	•	○			○	•	○			28.95 m ⊕ ↓ 28.95 ~ 29.00m ⊙ 29.00 ~ 29.50m ⊙
40	[diagonal lines]	•	•			○	⊙	•	○			○	•	○			

# DRILLING LOG

HOLE NO. MBP-2

(2)

LOCATION : Palmeiropolis area

COORDINATES: E792.73 , N8551.17

DIRECTION : 285°

INCLINATION: -60°

FINAL DEPTH: 300.12 m

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite	chalcopyrite	
48	✓ ↓	○	•		•		○	○				•	•				
49	✓ ↓	○	•		•		○	○				•	•				
50	✓ ↓	○	•		•		○	○				•	•				
51	✓ ↓	○	•		•		○	○				•	•				
52	✓ ↓	○	•		•		○	○				•	•				
53	✓ ↓	○	•		•		○	○				•	•				
54	✓ ↓	○	•		•		○	○				•	•				
55	✓ ↓	○	•		•		○	○				•	•				
56	✓ ↓	○	•		•		○	○				•	•				
57	✓ ↓	○	•		•		○	○				•	•				
58	✓ ↓	○	•		•		○	○				•	•				
59	✓ ↓	○	•		•		○	○				•	•				
60	✓ ↓	○	•		•		○	○				•	•				
61	✓ ↓	○	•		•		○	○				•	•				
62	✓ ↓	○	•		•		○	○				•	•				
63	✓ ↓	○	•		•		○	○				•	•				
64	✓ ↓	○	•		•		○	○				•	•				
65	✓ ↓	○	•		•		○	○				•	•				
66	✓ ↓	○	•		•		○	○				•	•				
67	✓ ↓	○	•		•		○	○				•	•				
68	✓ ↓	○	•		•		○	○				•	•				
69	✓ ↓	○	•		•		○	○				•	•				
70	✓ ↓	○	•		•		○	○				•	•				
71	✓ ↓	○	•		•		○	○				•	•				
72	✓ ↓	○	•		•		○	○				•	•				
73	✓ ↓	○	•		•		○	○				•	•				
74	✓ ↓	○	•		•		○	○				•	•				
75	✓ ↓	○	•		•		○	○				•	•				
76	✓ ↓	○	•		•		○	○				•	•				
77	✓ ↓	○	•		•		○	○				•	•				
78	✓ ↓	○	•		•		○	○				•	•				
79	✓ ↓	○	•		•		○	○				•	•				
80	✓ ↓	○	•		•		○	○				•	•				

bt - chl - qtz - amp schist

62.45 ~ 62.50m (S)  
 62.50m (T)  
 62.50 ~ 63.00m (O)

74.20 ~ 75.30m  
 biotite flakes along  
 schistosity





# DRILLING LOG

HOLE NO. MBP-2

(5)

LOCATION: Palmeiropolis area

COORDINATES: E792.73, N8551.17

DIRECTION: 285°

INCLINATION: -60°

FINAL DEPTH: 300.12 m

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite		pyrrhotite	pyrite	chalcopyrite	magnetite	
165.00	V	○	○	○	○	○	○	○				○	○	○	○			
167.00	V	○	○	○	○	○	○	○				○	○	○	○			
168.20	V	○	○	○	○	○	○	○				○	○	○	○			
170	V	○	○	○	○	○	○	○				○	○	○	○			
180	V	○	○	○	○	○	○	○				○	○	○	○			
190	V	○	○	○	○	○	○	○				○	○	○	○			
200	V	○	○	○	○	○	○	○				○	○	○	○			

↑ 165.00 ~ 167.00m (gp-qtz sch)  
 \* 165.00 ~ 166.00m ①  
 \* 166.00 ~ 167.00m ②  
 ↓ 167.00 ~ 168.00m ③

gnt - str - mv - bt - qtz schist

↑ 195.00 ~ 195.50m ④  
 ↓ 195.60 ~ 195.65m ⑤

# DRILLING LOG

HOLE NO. MBP-2

(6)

LOCATION : Palmeiropolis area

COORDINATES: E 792.73 , N 8551.17

DIRECTION : 285°

INCLINATION: -60°

FINAL DEPTH: 300.12 m

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite		pyrrhotite	pyrite	chalcopyrite	magnetite		
210	~	⊙		•	⊙	⊙	•	•	⊙	⊙									
220	~	⊙		•	⊙	⊙	•	•	⊙	⊙									
230	~	⊙		•	⊙	⊙	•	•	⊙	⊙									
240	~	⊙		•	⊙	⊙	•	•	⊙	⊙									

gnt - str - mv - bt - qtz schist

x 233.20 ~ 233.25m ⊙  
233.35m ⊕







# DRILLING LOG

HOLE NO. MBP-3

(1)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.10 m

COORDINATES: E792.73, N8550.82  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS			REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite		chalcopyrite
0.85																	dark brown soil (A)
2.75																	brown soil (B)
																	yellowish gray soil (C)
10																	
13.70																	
	Δ	⊙	○			•	•						○				gray brecciated highly silicified rock
	Δ	⊙	○			•	•					•					
	Δ	⊙	○			•	•					•					
	Δ	⊙	○			•	•					•					
20	Δ	⊙	○			•	•					•					
	Δ	⊙	○									•					
	Δ	⊙	○									?					
	Δ	⊙	○									?					
24.70		⊙	○			•	•					?					x 32.50m ⊕
	~	⊙	○									•	•	•			
	~	•	○									○	•				
	~	•	○									•	•	•			
30	~	•	○									○	•				
	~	•	○									•	•	•			
	~	•	○									•	•	•			
	~	•	○									•	•	•			
	~	•	○									•	•	•			
	~	•	○									•	•	•			
40	~	•	○			•	•	○				•	•	•			39.95~40.00m ⊙ x 40.00m ⊕

# DRILLING LOG

HOLE NO. MBP-3

(2)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.10m

COORDINATES: E792.73 , N8550.82  
 INCLINATION: -60°

DEPTH (m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS			REMARKS		
		quartz	plagioclase	K-feldspar	biotite	moscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite		chalcopyrite	magnetite
41.10	V	○	○		○	○	○						○	○				
50	V	○	○		○	○	○						○	○				
52.25	V	○	○		○	○	○						○	○				
53.20	V	○	○		○	○	○						○	○				
60	V	○	○		○	○	○						○	○				
70	V	○	○		○	○	○						○	○				
74.45	V	○	○		○	○	○						○	○				
80	V	○	○		○	○	○						○	○				

bt - chl - qtz - amp schist with gp - qtz schist

x 50.10m ⊕

# DRILLING LOG

HOLE NO. MBP-3

(3)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.10 m

COORDINATES: E792.73 , N8550.82  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS			REMARKS					
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite		chalcopyrite	magnetite			
90	V	○	○		.		○	⊙		○		○	.								
90.80	V	○	○		.		○	⊙		.		○	.								gp - qtz schist
100	V	○	○		.		○	⊙		.		○	.								bt - chl - qtz - amp schist
102.20	V	○	○		.		○	⊙		.		○	.								gp - qtz schist
110	V	○	○		.		○	⊙		.		○	.								
	V	○	○		.		○	⊙		.		○	.								x111.95~112.00m ⊙
	V	?	○		.		○	⊙		.		○	.								113.30~140.05m massive amphibolite
	V	?	.		○		○	⊙		.		○	.								x116.00m ⊕
120	V	?	○		○		○	⊙		.		○	.								amphibolite



# DRILLING LOG

HOLE NO. MBP-3

(5)

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.10 m

COORDINATES: E792.73 , N8550.82  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS				ROCK NAME	ORE MINERALS			REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite		pyrrhotite	pyrite	chalcocopyrite		magnetite
162.50	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
170	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
180	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
190	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		
200	R	⊙			⊙	⊙			⊙			⊙			⊙	⊙		

x 165.00m ⊕  
 165.00 ~ 165.05m ⊙

↕ 184.50 ~ 185.50m ⊕  
 185.50 ~ 185.55m ⊙





# DRILLING LOG

HOLE NO. MBP-3

(7)

LOCATION : Palmeiropolis area

COORDINATES: E792.73 , N8550.82

DIRECTION : 285°

INCLINATION: -60°

FINAL DEPTH: 300.10 m

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS							ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS	
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite	graphite		pyrrhotite	pyrite	chalcopyrite	magnetite		
250	~ / ~	⊙	•		○			•		•	•	•				•	•	•	
251.00	~ / ~	⊙	•		○			•		•	•	•				•	•	•	
260	V / V	⊙	•		○			•		•	•	•				•	•	•	
264.50	V / V	⊙	•		○			•		•	•	•				•	•	•	
270	~ / ~	⊙	•		○			•		•	•	•				•	•	•	
280	~ / ~	⊙	•		○			•		•	•	•				•	•	•	

# DRILLING LOG

HOLE NO. MBP-3

( 8 )

LOCATION : Palmeiropolis area  
 DIRECTION : 285°  
 FINAL DEPTH: 300.10 m

COORDINATES: E792.73 , N8550.82  
 INCLINATION: -60°

DEPTH(m)	COLUMN	PRINCIPAL CONSTITUENTS						ACCESSORY MINERALS				ROCK NAME	ORE MINERALS				REMARKS		
		quartz	plagioclase	K-feldspar	biotite	muscovite	amphibole	chlorite	garnet	staurolite	calcite		graphite	pyrrhotite	pyrite	chalcopyrite		magnetite	
284.00	V V K	⊙	•	○	○	○	○	•	•	•	•	•	•	•	•	•	•	•	x 280.95m ①
286.50	~ ~ / /	⊙	•	○	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
290	V V / /	⊙	•	○	•	•	•	•	•	•	•	•	•	•	•	•	•	•	x 290.00 ~ 290.05m ②
295.00	V V / /	⊙	•	○	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
300	~ ~ / /	⊙	•	○	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
300.10																			







