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1986 ICE ISLAND REFRACTION SURVEY
PHASE I REPORT

by

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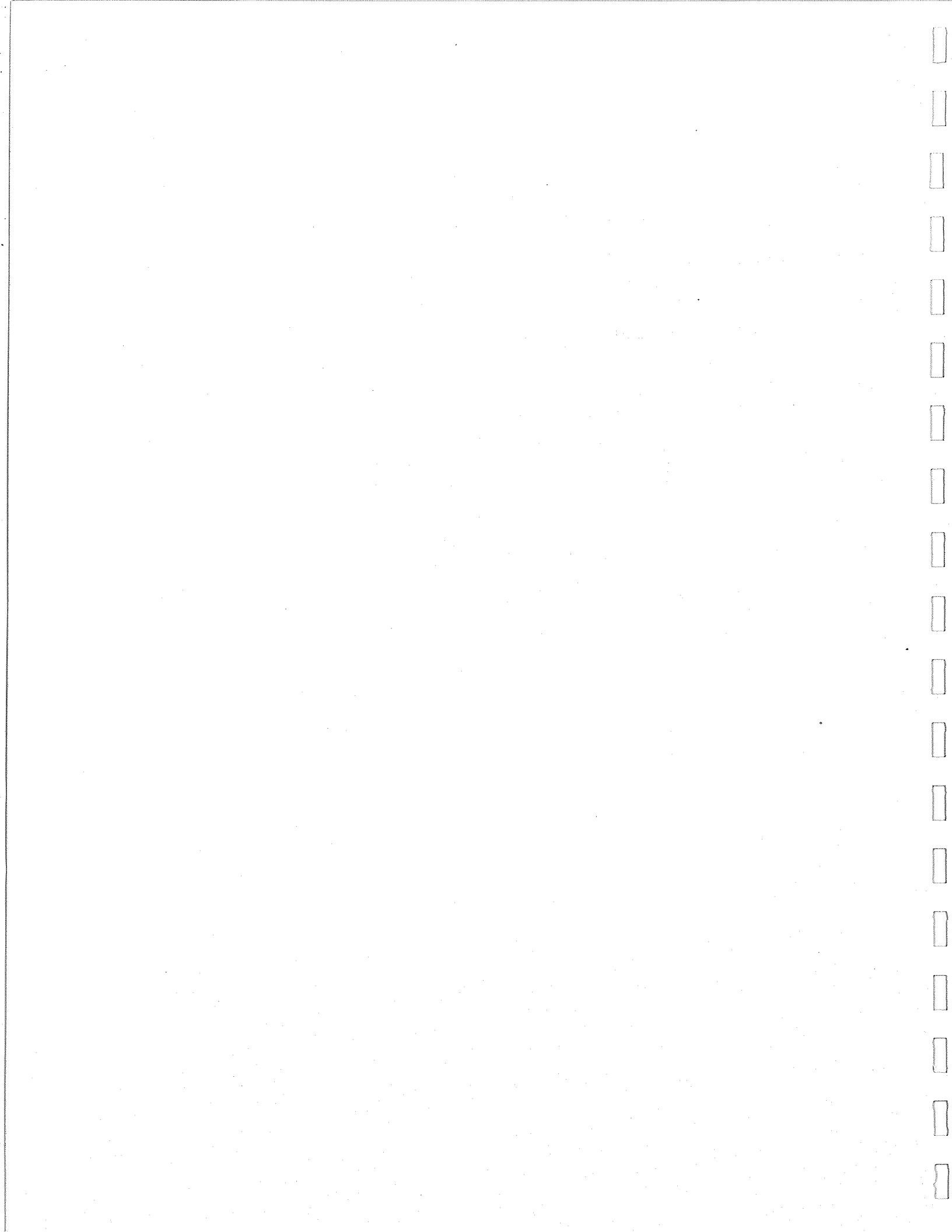
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Résumé

Pendant le levé de sismique réfraction effectué en avril 1986 dans le cadre du projet de l'île de glace, quatre et demi profils inverses parallèles à la marge continentale polaire au nord-ouest des îles Ellesmere et Axel Heiberg furent enregistrés. Un total de 35 tirs enregistrés par un total de 850 receveurs ont fourni 540 km de profils de réfraction avec un espacement effective de 2.5 km.

La transcription et l'arrangement de données de terrain sont maintenant terminées et les profils présentant les données de l'onde directe (dans l'eau) et de la sismique crustale sont présentés dans ce volume.

Une étude de tirs d'essai enregistrés par différentes configurations de réseaux de géophones suggère aucun effet d'importance sur le signal sismique.

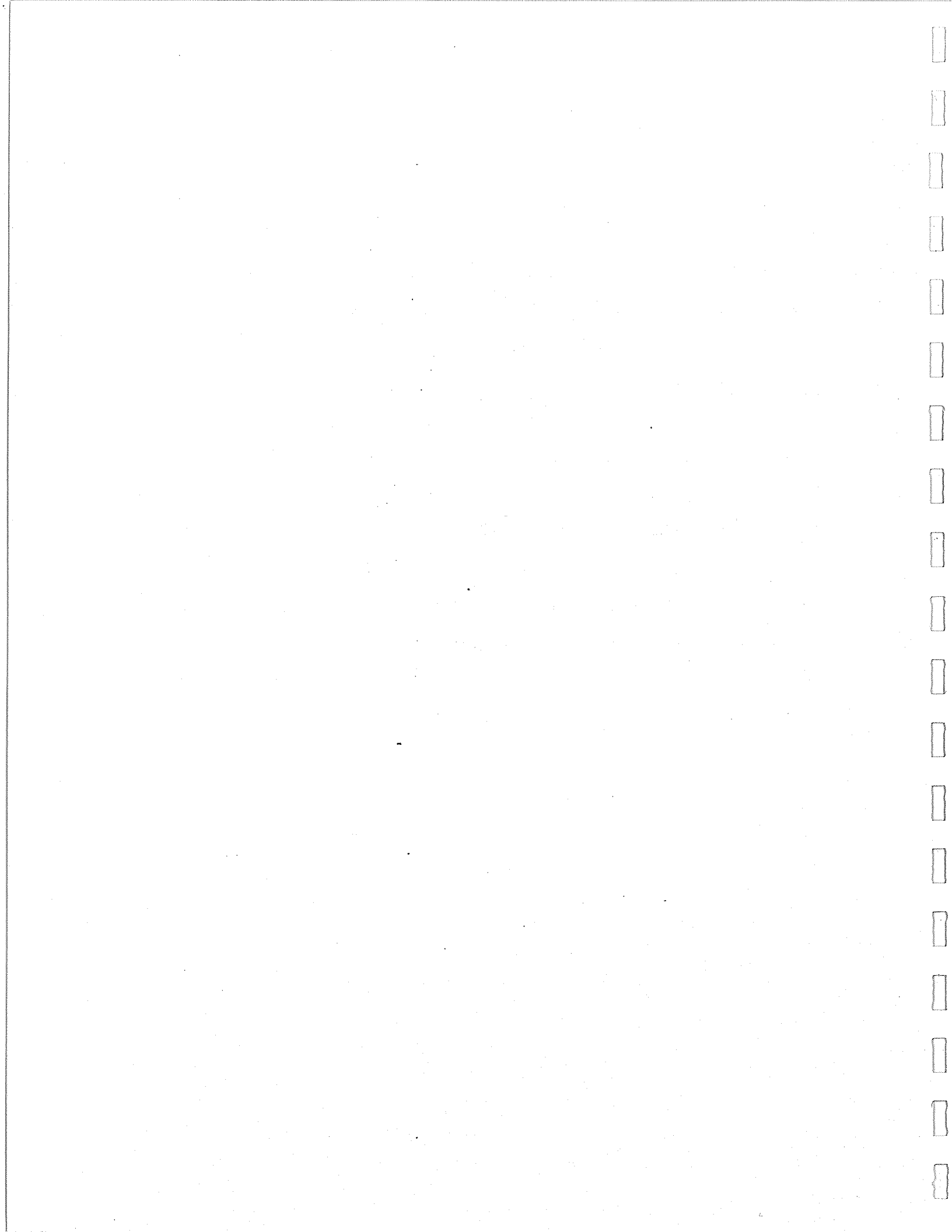


Abstract

The April 1986 Ice Island seismic refraction survey included four and one half reversed 120 km long profiles parallel and perpendicular to the polar continental margin northwest of Ellesmere and Axel Heiberg Islands. A total of 35 shots into 850 deployments of recorders yielded 540 km of refraction line with an effective receiver spacing of 2.5 km.

Transformation of the field data to workable formats is now completed and plots of the water wave and crustal seismic data are presented in this volume.

Test shots fired into different configurations of geophone arrays suggest no significant difference in signal response for high signal to noise environments.

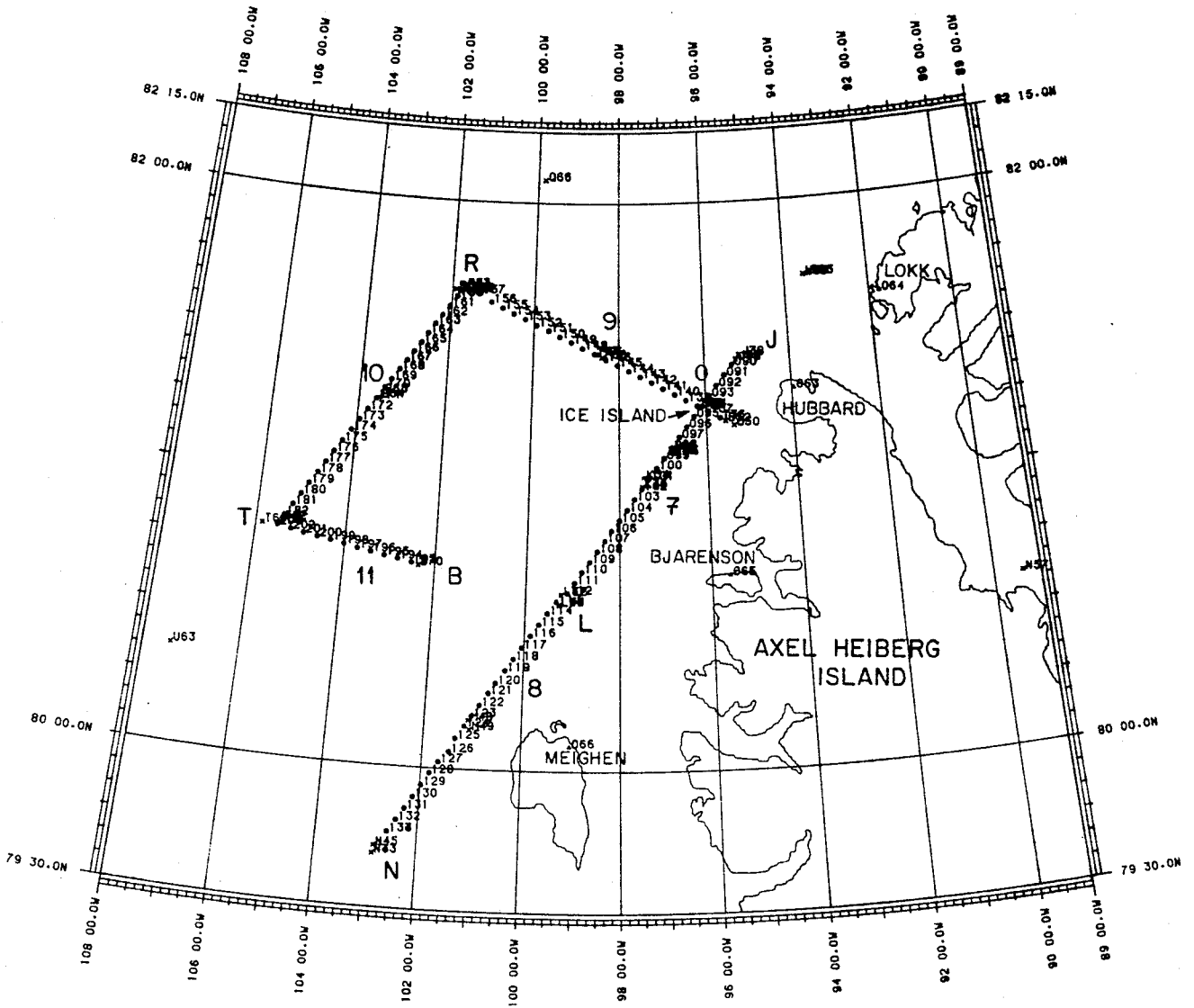


1- Introduction

The Ice Island seismic refraction surveys started in 1985 as part of the Frontier Geoscience Program to increase our understanding of the Canadian Polar margin. The first refraction survey was carried out in April 1985 and was described in Geological Survey of Canada Open file Report 1196. The second Ice Island refraction survey was carried out in April 1986 and is reported here.

The major participating institutes in the 1986 survey were the Lithosphere and Canadian Shield Division (Ottawa), the Institute of Sedimentary and Petroleum Geology (Calgary), the Atlantic Geoscience Centre (Dartmouth), Pacific Geoscience Centre (Sidney) and the Geophysics Division (Ottawa). Many other Arctic professionals assisted in the field (see list, Appendix A).

The site of the survey was limited to an operational range of about 300 km from the new location of the Ice Island off Cape Hubbard northwest of Ellesmere and Axel Heiberg Islands. Refraction profiles were collected along and across the Polar margin (see Fig. 1). The basic refraction spreads were 120 km long consisting of two 60 km sections along which the old "Backpack" and the new "Lunchbox" seismic



ICE ISLAND REFRACTION SURVEY 1986
 MAP PROJECTION IS POLAR STEREOGRAPHIC. SCALE IS 1/ 2000000
 APRIL 23, 1987 AT TIME 16.38

Fig. 1

recorders were deployed respectively. The seismometer spacing of 5 km was effectively reduced to 2.5 by shots offset by 2.5 km at both ends of the profiles. Large offset shots at 60 and 120 km from the ends of the profile and fan shots provided additional information down to the crust-mantle boundary. Shots were constructed of units of seven or eight 27.2 kg Geogel 60% charges composited to make explosive sources of from 190 to 900 kg. The units were lowered on a rope to a depth of 100 m below sea level and detonated electronically from a safe distance.

A total of 35 shots were fired into 850 deployments of seismic recorders covering 540 km of reversed refraction lines. Using resources similar to the 1985 survey, the 1986 refraction team succeeded in increasing the volume of collected data by about 100 per cent by deploying 11 more seismic recorders than in 1985 and using more working hours from the 24 hours of daylight available in the Arctic.

This report is a summary of the field operations and initial data reformatting. The field data are transformed into workable formats and is presented in this volume. Special consideration has been given to the continuity of the data formats such that all Ice Island refraction data could be readily merged in future interpretations. The same naming conventions as the 1985 survey are used for shot points and recording stations.

2- Field procedures

2.1 Logistics

The 1986 refraction survey was carried out from the Ice Camp established by the Polar Continental Shelf Project using a Twin Otter fixed wing aircraft, a Bell 205A and a Bell 206L Helicopter. Twelve old Backpacks and eleven new Lunchbox seismic recorders were used during the survey. The new prototype single channel Lunchbox recorders were employed for the first time in the Arctic environment and performed well. They feature all-solid state digital recording with 1 Megabyte of memory capable of storing 72 minutes of seismic data at a rate of 120 samples per second. Compaq Portable 286 microcomputers were used to load shot windows and retrieve recorded data from the Lunchboxes. Details of the new recording schemes are beyond the scope of this report and will appear in future GSC reports.

2.2 Navigation

The 1986 refraction survey was supported by three

independent navigation systems. Dynamic navigation was achieved using a Sercel U.H.F. Syledis system. Four transmitter stations located on shore at Lokk, Hubbard, Bjarensen and Meighen (see Fig. 1) and two mobile units aboard the Helicopters were used in navigating to projected shot and recording sites. A Global Positioning System (GPS) was used to accurately position the Syledis transmitting stations. A Marconi 761 doppler receiver system was used to position shot points N1, H1, Q1, U1 and NS which could not be covered by the Syledis system. The three navigation systems were cross-checked when possible and showed remarkable internal consistency.

2.3 Data processing on the Ice

Compaq 286 portable microcomputers were used to load shot windows into the new Lunchbox recorders and retrieve recorded data. The Lunchbox data were stored on 1/4 inch DC-1000 cartridges as well as floppy diskettes and other media. The Backpack data were recorded on cassettes. Special software written for the microcomputers was used to project field parameters routinely and provided the field crew with updated shot and recorder locations before each deployment. The field data were logged to shot and receiver logs daily

and were printed and distributed on the Ice Island at the end of the experiment.

2.4 Instrument malfunctions

The 1986 survey experienced far fewer instrument malfunctions than in 1985. The shooting systems worked flawlessly and all of the shots were detonated electronically on the minute marks. The Backpack recorders worked much better than the previous year and only one system failed to record during two of the deployments. Backpack number 22 had to be repaired in the field and missed one deployment totally. The Lunchbox recorders performed well and there were only two cases of data loss due to hardware problems, which were identified and corrected in the field. Although both types of recorder were deployed inside thermally insulated boxes, the Lunchboxes were deployed without insulation in a test deployment and survived with recorded data after about 8 hours of Arctic conditions, with temperatures falling to about -30 degrees centigrade. The overall recording performance as shown in Table 1 was excellent with a success rate of nearly 95 per cent which is unmatched to date for Arctic experiments.

3. Data processing in Ottawa

The refraction processing systems implemented on the VAX 11/750 minicomputer and the Compaq microcomputers were used to transform the field data to workable formats ready for interpretations. The "Toronto" format was used to store the final waveform and header data (details of this format are available from the Lithosphere and Canadian Shield Division). Problems were encountered recovering the data recorded on some of the Backpacks (due primarily to the old Cassette recorders used in these instruments) but the Lunchbox data were easily transferred from the Compaq to the VAX on the Ethernet link. In a few cases, small errors were found in the field location of some recorders by examining the water wave arrivals, and some traces had small timing problems. These problems demonstrate again that recording of the water waves is essential for a final quality check on the integrity of the Ice Island data. Details of data transformation procedures are given below.

3.1 Timing corrections

A satellite clock receiving information from the

Geocentric Orbiting Earth Satellite with an accuracy of 1 ms was used as a master clock in the field, and both the recording and the shooting instruments were synchronized to it. The timing errors were therefore restricted to the drift of the internal clocks in the shooter boxes and the recording instruments over periods of up to about 10 hours.

The shooter box time corrections were all in the range of 10 ms but were not properly logged for individual shots and are therefore not available for timing corrections.

The Backpack and Lunchbox time corrections are given in Tables 2 and 3. The average corrections are about 10 ms.

An additional 16.1 ms delay must be applied to all shot times to account for the travel time of the shock waves through the 100 meters of primacord that was used to detonate the charges.

These time corrections have not been incorporated in the refraction data analysis yet, however they will be applied to the final composite seismic sections.

3.2 Water wave data

To provide a quality check on navigation, the recording windows were set in order to record several seconds of the slow water wave data from each shot. Since the velocity of the water waves through the top layers of the ocean water is

about 1440 m/s, and the impulsive water wave arrivals can usually be picked to better than 100 ms, it was often possible to identify and correct errors in the order of 150 m in the positions of shots or recorders by using the reversed water wave arrival times. Six recorder locations (126, 131, 147, 169, 170, and 201) were found to be in error by about one km probably due to Syledis system reading errors. The positions of these recorders have been adjusted such that their water wave arrivals match others in the same sections. The water wave sections also showed that the recorder clock for site 148 had erratic jumps during the recording of shots L54, R53 and R51 and a correction of -8 seconds had to be applied to align water wave arrivals. These seismograms must be regarded as less reliable in the determination of details of the seismic structure in the final interpretations.

Tables 4 and 5 show shot and receiver locations after all water wave corrections. Using the data in these tables, shot to receiver distances and azimuths were calculated and both the water wave and seismic sections were plotted in Figures 2A through 39B (Appendix B). Some of the traces appear (e.g. trace 102 of shot J38, Fig. 3A) to lack water wave or seismic signal in the plotted windows but the entire recording windows of these traces have been searched and no appreciable signal energy could be identified. The data

presented in this volume is therefore all of the available recorded data for the 1986 refraction survey.

The water wave data show remarkable dispersive features on some of the sections and the first arrivals do not line up as expected (see, for example, Fig. 15A). In these cases only the regular move out of the water wave could be used as a quality check on the navigation.

3.3 Test shot

To test the recording and shooting procedures and optimize geophone configurations, a test shot was fired into groups of recorders sited at the edge of the Ice Island and at one remote site 25 km from the Ice Island. Each of the Backpack recorders were attached to a string of four geophones, with the phones set at the corners of a square array. The Lunchboxes were connected to strings of four geophones in linear, cross and square shaped arrays. The initial analysis of data recorded from the test shot did not show any substantial signal improvement between various forms of geophone layouts. A square shaped geophone configuration was used for the 1986 survey for ease of field deployment.

Fig. 1A shows both the seismic and water wave data from the test shot at some of the recorders.

4- Summary

The phase I of the 1986 Ice Island seismic refraction data presented in this report is a natural continuation of the 1985 Open File Report. The data is prepared such that the two refraction experiments can be interpreted together or individually.

Adequate navigating systems were important in proper positioning of the shot and recorder sites and water wave data provided an additional quality check on the positions. Reformating of Backpack data was slow and troublesome while transformation of Lunchbox data was straightforward after the necessary software systems were developed.

Table - 1
Recording Instrument Performance Log

ICE ISLAND REFRACTION SURVEY 1986		APRIL 19-30, 1986	
Isa Asudeh and Larry Johnston		April 30, 1986	
Statistics:			
Total number of possible recordings		849	
Total number of successful recordings		805	%94.8
Number of Backpacks failed to record due to:			
	dead backpacks	17	
	backpacks not deployed	9	
Number of Lunchboxes failed to record due to:			
	dead lunch boxes	18	
Total number of unsuccessful recordings		44	% 5.2
Backpack and Lunchbox codes:			
*	recorded data		
n	not deployed		
d	dead Backpack or Lunchbox		
Navigation codes:			
N	NAVSAT fix		
S	SYLEDIS fix		
Other codes:			
st	shot number		
sn	refraction section		
sp	shot point		
window	start time of recording		
dur	length of recording		

Backpack Performance Log

st	date	day	sn	sp	window	dur	backpacks:													
	Apr.				hr:mn	sec	10	11	12	13	14	16	17	18	19	20	21	22		
32	19	109	TS	J2	00:30	120	*	*	*	*	*	*	*	*	*	*	*	*		
33	21	111	JL	N1	21:30	180	*	*	*	*	*	*	*	*	*	*	*	*		
34	21	111	JL	k1	22:16	150	*	*	*	*	*	*	*	*	*	*	*	*		
35	21	111	JL	L1N	22:31	150	*	*	*	*	*	*	*	*	*	*	*	*		
36	21	111	JL	K2	22:46	150	*	*	*	*	*	*	*	*	*	*	*	*		
37	21	111	JL	L2	23:01	150	*	*	*	*	*	*	*	*	*	*	*	*		
38	21	111	JL	J1	23:45	150	*	*	*	*	*	*	*	*	*	*	*	*		
39	21	112	JL	H1	00:00	126	*	*	*	*	*	*	*	*	*	*	*	*		
40	21	112	JL	J2	00:20	126	*	*	*	*	*	*	*	*	*	*	*	*		
41	24	114	LN	L1N	19:15	180	*	*	*	*	*	*	*	*	*	*	*	n		
42	24	114	LN	L2	19:30	150	*	*	*	*	*	*	*	*	*	*	*	n		
43	24	114	LN	N1	20:01	150	*	*	*	*	*	*	*	*	*	*	*	n		
44	24	114	LN	K2	20:15	150	*	*	*	*	*	*	*	*	*	*	*	n		
45	24	114	LN	N2	20:31	150	*	*	*	*	*	*	*	*	*	*	*	n		
46	24	114	LN	J2	21:00	150	*	*	*	*	*	*	*	*	*	*	*	n		
47	24	114	LN	H1	21:30	200	*	*	*	*	*	*	*	*	*	*	*	n		
48	24	114	LN	M1	21:46	200	*	*	*	*	*	*	*	*	*	*	*	n		
49	24	114	LN	M2	22:31	175	*	*	*	*	*	*	*	*	*	*	*	n		
50	25	115	OR	O1	19:15	180	*	*	*	*	*	*	d	*	*	*	*	*		
51	25	115	OR	R1	19:31	150	*	*	*	*	*	*	d	*	*	*	*	*		
52	25	115	OR	O2	19:45	150	*	*	*	*	*	*	d	*	*	*	*	*		
53	25	115	OR	R2	20:01	150	*	*	*	*	*	*	d	*	*	*	*	*		
54	25	115	OR	L1N	20:15	150	*	*	*	*	*	*	d	*	*	*	*	*		
55	25	115	OR	P1	20:46	150	*	*	*	*	*	*	d	*	*	*	*	*		
56	25	115	OR	P2	21:01	150	*	*	*	*	*	*	d	*	*	*	*	*		
57	25	115	OR	NS	21:45	180	*	*	*	*	*	*	d	*	*	*	*	*		
58	28	118	RT	L1N	19:00	150	*	*	*	*	*	*	d	*	*	*	*	*		
59	28	118	RT	R3	19:21	150	*	*	*	*	*	*	d	*	*	*	*	*		
60	28	118	RT	T1	19:41	150	*	*	*	*	*	*	d	*	*	*	*	*		
61	28	118	RT	R2	20:00	150	*	*	*	*	*	*	d	*	*	*	*	*		
62	28	118	RT	T2	20:21	150	*	*	*	*	*	*	d	*	*	*	*	*		
63	28	118	RT	U1	20:40	150	*	*	*	*	*	*	d	*	*	*	*	*		
64	28	118	RT	S1	21:21	150	*	*	*	*	*	*	d	*	*	*	*	*		
65	28	118	RT	S2	22:01	150	*	*	*	*	*	*	d	*	*	*	*	*		
66	28	118	RT	Q1	22:20	150	*	*	*	*	*	*	d	*	*	*	*	*		

Lunch Box Performance Log

st	date	day	sn	sp	window	dur	lunch boxes:												
							01	02	03	04	05	06	08	09	0A	0C	0E		
32	19	109	TS	J2	00:30	120	*	*	*	*	*	*	*	*	*	*	d	*	*
33	21	111	JL	N1	21:30	120	*	*	*	*	*	*	*	*	*	*	d	*	*
34	21	111	JL	k1	22:16	120	*	*	*	*	*	*	*	*	*	*	d	*	*
35	21	111	JL	L1N	22:31	120	*	*	*	*	*	*	*	*	*	*	d	*	*
36	21	111	JL	K2	22:46	120	*	*	*	*	*	*	*	*	*	*	d	*	*
37	21	111	JL	L2	23:01	120	*	*	*	*	*	*	*	*	*	*	d	*	*
38	21	111	JL	J1	23:45	120	*	*	*	*	*	*	*	*	*	*	d	*	*
39	21	112	JL	H1	00:00	120	*	*	*	*	*	*	*	*	*	*	d	*	*
40	21	112	JL	J2	00:20	120	*	*	*	*	*	*	*	*	*	*	d	*	*
41	24	114	LN	L1N	19:15	180	*	*	*	d	*	*	*	*	*	*	*	*	*
42	24	114	LN	L2	19:30	150	*	*	*	d	*	*	*	*	*	*	*	*	*
43	24	114	LN	N1	20:01	150	*	*	*	d	*	*	*	*	*	*	*	*	*
44	24	114	LN	K2	20:15	150	*	*	*	d	*	*	*	*	*	*	*	*	*
45	24	114	LN	N2	20:31	150	*	*	*	d	*	*	*	*	*	*	*	*	*
46	24	114	LN	J2	21:00	150	*	*	*	d	*	*	*	*	*	*	*	*	*
47	24	114	LN	H	21:30	180	*	*	*	d	*	*	*	*	*	*	*	*	*
48	24	114	LN	M1	21:46	180	*	*	*	d	*	*	*	*	*	*	*	*	*
49	24	114	LN	M2	22:31	180	*	*	*	d	*	*	*	*	*	*	*	*	*
50	25	115	OR	O1	19:15	180	*	*	*	*	*	*	*	*	*	*	*	*	*
51	25	115	OR	R1	19:31	150	*	*	*	*	*	*	*	*	*	*	*	*	*
52	25	115	OR	O2	19:45	150	*	*	*	*	*	*	*	*	*	*	*	*	*
53	25	115	OR	R2	20:01	150	*	*	*	*	*	*	*	*	*	*	*	*	*
54	25	115	OR	L1N	20:15	150	*	*	*	*	*	*	*	*	*	*	*	*	*
55	25	115	OR	P1	20:46	150	*	*	*	*	*	*	*	*	*	*	*	*	*
56	25	115	OR	P2	21:01	150	*	*	*	*	*	*	*	*	*	*	*	*	*
57	25	115	OR	NS	21:45	180	*	*	*	*	*	*	*	*	*	*	*	*	*
58	28	118	RT	L1N	19:00	150	*	*	*	*	*	*	*	*	*	*	*	*	*
59	28	118	RT	R3	19:21	150	*	*	*	*	*	*	*	*	*	*	*	*	*
60	28	118	RT	T1	19:41	150	*	*	*	*	*	*	*	*	*	*	*	*	*
61	28	118	RT	R2	20:00	150	*	*	*	*	*	*	*	*	*	*	*	*	*
62	28	118	RT	T2	20:21	150	*	*	*	*	*	*	*	*	*	*	*	*	*
63	28	118	RT	U1	20:40	150	*	*	*	*	*	*	*	*	*	*	*	*	*
64	28	118	RT	S1	21:21	150	*	*	*	*	*	*	*	*	*	*	*	*	*
65	28	118	RT	S2	22:01	150	*	*	*	*	*	*	*	*	*	*	*	*	*
66	28	118	RT	Q1	22:20	150	*	*	*	*	*	*	*	*	*	*	*	*	*
67	29	119	LT	L1N	22:20	150	*	*	*	*	*	*	*	*	*	*	*	*	*
68	29	119	LT	I4	22:40	150	*	*	*	*	*	*	*	*	*	*	*	*	*
69	29	119	LT	T0	23:40	150	*	*	*	*	*	*	*	*	*	*	*	*	*
70	30	119	LT	B4	00:01	150	*	*	*	*	*	*	*	*	*	*	*	*	*

Table - 2
Backpack Clock Corrections

bp10

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 16:46	109 2:14	9.5	-0.002	-0.21
111 15:20	112 18:20	27.0	0.007	0.26
114 13:44	115 3:54	14.2	0.002	0.14
115 13:47	116 2:12	12.4	0.001	0.08
118 12:37	119 4:54	16.3	0.001	0.06

bp11

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 17: 6	109 2:18	9.2	-0.009	-0.98
111 15:30	112 17:53	26.4	0.009	0.34
114 13:50	115 3:47	14.0	0.007	0.50
115 13:52	116 2:18	12.4	0.066	5.31
118 12:42	119 4:23	15.7	0.008	0.51

bp12

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 17:16	109 1:43	8.4	0.000	0.00
111 15:38	112 17:30	25.9	0.001	0.04
114 13:56	115 3:38	13.7	0.001	0.07
115 13:59	116 1:46	11.8	0.001	0.08
118 12:46	119 4:55	16.2	0.000	0.00

bp13

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
114 14: 5	115 3:43	13.6	0.012	0.88
115 14: 5	116 1:50	11.8	0.011	0.94

bp14

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 17:35	109 1:32	8.0	-0.003	-0.38
111 15:51	112 17:49	26.0	0.010	0.39
114 14:10	115 3:34	13.4	0.007	0.52
115 14:10	116 1:39	11.5	0.005	0.44
118 12:55	119 4:16	15.3	0.007	0.46

bp16

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 17:46	109 12:54	19.1	-0.006	-0.31
111 15:56	112 2:51	10.9	0.007	0.64
114 14:16	115 3:25	13.2	0.010	0.76
115 14:15	116 1:33	11.3	0.007	0.62
118 13: 0	119 4:33	15.6	0.011	0.71

bp17

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 17:53	109 2: 4	8.2	0.005	0.61
111 16: 2	112 3:39	11.6	0.008	0.69

bp18

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 18: 3	109 2:30	8.4	0.000	0.00
111 16: 6	112 3: 2	10.9	0.003	0.27
114 15: 9	115 3:14	12.1	0.004	0.33
115 14:27	116 2: 3	11.6	0.002	0.17
118 13:10	119 4:30	15.3	0.004	0.26

bp19

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 18: 8	109 1:57	7.8	-0.007	-0.90
111 16:13	112 3:31	11.3	0.008	0.71
114 14:36	115 3:58	13.4	0.012	0.90
115 14:36	116 2: 8	11.5	0.008	0.69
118 13:14	119 4:43	15.5	0.012	0.78

bp20

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
108 18:15	109 2: 1	7.8	-0.006	-0.77
114 14:45	115 3: 9	12.4	0.004	0.32

bp21

From day hr:mn	To day hr:mn	Hours	Correction sec	Rate/hour ms
114 14:50	115 3:20	12.5	0.017	1.36
115 14:49	116 1:58	11.1	0.017	1.52
118 13:28	119 4:27	15.0	0.021	1.40

bp22

From	To	Hours	Correction	Rate/hour
day hr:mn	day hr:mn		sec	ms
108 18:30	109 1:39	7.1	-0.003	-0.42
111 16:27	112 2:57	10.5	0.004	0.38
115 14:54	116 1:27	10.6	0.005	0.47
118 13:47	119 4: 0	14.2	-0.007	-0.49

Table - 3
Lunchbox Clock Corrections

Dep. Code	Lunchbox Name	Site Name	Date	Start Time April UT	Stop Time UT	Time Corr. ms
** Deployment: TEST						
TEST	0001	074	18	108:15:29:23	109:05:10:03	-1
TEST	0002	068	18	108:15:32:15	109:02:42:12	1
TEST	0003	071	18	108:15:35:00	109:02:57:11	11
TEST	0004	067	18	108:15:40:32	109:02:23:55	1
TEST	0005	070	18	108:15:43:20	109:03:51:07	-3
TEST	0006	073	18	108:15:46:02	109:03:19:37	4
TEST	0008	076	18	108:15:48:36	109:05:18:39	4
TEST	0009	069	18	108:15:51:21	109:02:48:22	2
TEST	000A	077	18	108:15:53:50		0
TEST	000C	072	18	108:15:56:27	109:05:05:42	8
TEST	000E	075	18	108:15:59:06	109:05:14:22	9
** Deployment: JL						
JL	0001	091	21	111:04:18:00	112:06:11:00	16
JL	0002	100	21	111:04:13:00	112:03:48:45	3
JL	0003	096	21	111:04:09:00	112:05:55:00	6
JL	0004	094	21	111:04:22:00	112:03:05:50	3
JL	0005	097	21	111:04:26:00	112:04:13:20	9
JL	0006	099	21	111:04:30:00	112:06:52:00	8
JL	0008	095	21	111:04:35:00	112:06:35:00	11
JL	0009	090	21	111:04:39:00	112:04:49:00	11
JL	000A		21	111:04:43:00		0
JL	000E	093	21	111:04:48:00	112:05:34:00	8
JL	000C	092	21	111:04:55:00	112:07:10:00	4
** Deployment: LN						
LN	0001	115	24	114:03:16:21	115:02:17:55	1
LN	0002	116	24	114:03:18:57	115:03:23:46	3
LN	0003	120	24	114:03:21:31	115:01:45:49	19
LN	0004		24	114:03:24:05		0
LN	0005	122	24	114:03:26:42	115:06:49:59	6
LN	0006	123	24	114:03:29:22	115:05:55:04	6
LN	0008	121	24	114:03:33:31	115:05:16:06	3
LN	0009	119	24	114:03:36:10	115:04:38:50	4
LN	000A	114	24	114:03:38:43	115:04:59:46	9
LN	000E	113	24	114:03:42:04	115:02:57:02	6
LN	000C	118	24	114:03:51:50	115:06:11:10	15
** Deployment: OR						
OR	0001	145	25	115:13:10:47	116:03:13:19	0
OR	000A	138	25	115:13:13:32	116:05:42:54	6
OR	0005	139	25	115:13:16:09	116:04:10:22	3
OR	0002	141	25	115:13:18:38	116:03:27:52	2

Dep. Code	Lunchbox Name	Site Name	Date	Start Time April UT	Stop Time UT	Time Corr. ms
OR	000C	136	25	115:13:21:11	116:14:27:56	14
OR	0006	140	25	115:13:24:08	116:04:25:43	8
OR	0003	146	25	115:13:26:34	116:03:42:15	13
OR	000E	144	25	115:13:29:00	116:06:42:57	5
OR	0004	143	25	115:13:31:33	116:03:56:22	2
OR	0009	137	25	115:13:34:30	116:05:29:32	3
OR	0008	142	25	115:13:36:57	116:04:39:08	2
** Deployment: RT						
RT	0001	167	28	118:11:46:42	119:07:48:09	0
RT	0002	169	28	118:11:54:05	119:07:32:51	4
RT	0003	170	28	118:11:57:02	119:08:04:13	17
RT	0004	165	28	118:11:59:35	119:06:04:12	3
RT	0005	164	28	118:12:02:06	119:06:51:15	4
RT	0006	161	28	118:12:04:43	119:06:19:16	13
RT	0008	168	28	118:12:07:22	119:07:18:53	2
RT	0009	166	28	118:12:10:04	119:08:34:09	3
RT	000C	162	28	118:12:13:00	119:07:05:01	12
RT	000E	163	28	118:12:16:36	119:06:37:00	6
RT	000A	160	28	118:12:19:12	119:08:18:58	8
** Deployment: LT						
LT	0001	202	29	119:14:38:47	120:04:58:38	0
LT	0002	196	29	119:14:42:11	120:04:25:32	4
LT	0003	197	29	119:14:44:44	120:04:33:57	14
LT	0004	203	29	119:14:47:27	120:05:22:23	3
LT	0005	199	29	119:14:49:57	120:04:17:54	5
LT	0006	195	29	119:14:52:33	120:04:42:06	10
LT	0008	198	29	119:14:55:01	120:05:14:10	2
LT	0009	193	29	119:14:57:40	120:05:36:01	2
LT	000A	194	29	119:15:00:11	120:04:06:59	10
LT	000C	200	29	119:15:02:49	120:05:05:47	11
LT	000E	201	29	119:15:05:38	120:04:50:09	5
LT	0001	202	29	119:14:38:47	120:16:36:37	0
LT	0002	196	29	119:14:42:11	120:17:00:55	8
LT	0003	197	29	119:14:44:44	120:17:34:08	25
LT	0004	203	29	119:14:47:27	120:17:54:58	5
LT	0005	199	29	119:14:49:57	120:18:16:30	10
LT	0006	195	29	119:14:52:33	120:18:37:34	18
LT	0008	198	29	119:14:55:01	120:19:16:42	3
LT	0009	193	29	119:14:57:40	120:19:44:34	4
LT	000A	194	29	119:15:00:11	120:20:07:24	17
LT	000C	200	29	119:15:02:49	120:20:31:22	22
LT	000E	201	29	119:15:05:38	120:21:22:00	10

Table - 4
Shot Data Summary

#	Fix No.	Line Name	Section Name	Shot Name	Shot Point	Lat.	N	Long.	W	Date	Time	UT	Depth	Charges	#	Kg
											April	hr:mn:sec	m			
32	12	I06	TE	J32	J2	81.443817		95.277803		19	00:30:00.0		100		4	108.8
33	0	I07	JL	N33	N1	79.689667		102.863778		21	21:30:00.0		100		18	489.6
34	27	I07	JL	K34	K1	81.034303		97.462722		21	22:16:00.0		100		6	163.2
35	17	I07	JL	L35	L1N	80.585844		99.305664		21	22:31:00.0		100		8	217.6
36	29	I07	JL	L36	K2	81.002114		97.506197		21	22:46:00.0		100		6	163.2
37	19	I07	JL	L37	L2	80.622561		99.259339		21	23:01:00.0		100		8	217.6
38	24	I07	JL	J38	J1	81.459589		95.192867		21	23:45:00.0		100		6	163.2
39	0	I07	JL	H39	H1	81.727750		93.541500		22	00:00:00.0		100		27	734.4
40	13	I07	JL	J40	J2	81.444039		95.276614		22	00:20:00.0		100		6	163.2
41	17	I08	LN	L41	L1N	80.585844		99.305664		24	19:15:00.0		100		8	217.6
42	20	I08	LN	L42	L2	80.622656		99.260372		24	19:30:00.0		100		8	217.6
43	6	I08	LN	N43	N1	79.690722		102.866889		24	20:01:00.0		100		8	217.6
44	30	I08	LN	K44	K2	81.002161		97.505969		24	20:15:00.0		100		18	489.6
45	7	I08	LN	N45	N2	79.717622		102.849142		24	20:31:00.0		100		8	217.6
46	13	I08	LN	J46	J2	81.444039		95.276614		24	21:00:00.0		100		27	734.4
47	0	I08	LN	H47	H1	81.727750		93.541500		24	21:30:00.0		100		33	897.6
48	21	I08	LN	M48	M1	80.173658		101.111825		24	21:46:00.0		100		17	462.4
49	22	I08	LN	M49	M2	80.140464		101.077517		24	22:31:00.0		100		6	163.2
50	55	I09	OR	O50	O1	81.211428		95.374661		25	19:15:00.0		100		8	217.6
51	60	I09	OR	R51	R1	81.687089		101.916211		25	19:31:00.0		100		8	217.6
52	57	I09	OR	O52	O2	81.227692		95.570169		25	19:45:00.0		100		8	217.6
53	61	I09	OR	R53	R2	81.697386		101.712494		25	20:01:00.0		100		8	217.6
54	17	I09	OR	L54	L1N	80.585844		99.305664		25	20:15:00.0		100		18	489.6
55	62	I09	OR	P55	P1	81.469522		98.532414		25	20:46:00.0		100		6	163.2
56	63	I09	OR	P56	P2	81.458842		98.408511		25	21:01:00.0		100		6	163.2
57	0	I09	OR	N57	NS	80.602278		89.390083		25	21:45:00.0		100		26	707.2
58	17	I10	RT	L58	L1N	80.585844		99.305664		28	19:00:00.0		100		20	544.0
59	61	I10	RT	R59	R3	81.680436		101.819564		28	19:20:00.0		100		11	299.2
60	113	I10	RT	T60	T1	80.809528		105.524397		28	19:41:00.0		100		9	244.8
61	60	I10	RT	R61	R2	81.695694		101.710214		28	20:00:00.0		100		9	244.8
62	114	I10	RT	T62	T2	80.822636		105.443686		28	20:21:00.0		100		9	244.8
63	0	I10	RT	U63	U1	80.345139		107.427083		28	20:40:00.0		100		18	489.6
64	115	I10	RT	S64	S1	81.285542		103.551578		28	21:21:00.0		100		7	190.4
65	116	I10	RT	S65	S2	81.304478		103.482069		28	22:01:00.0		100		5	136.0
66	0	I10	RT	Q66	Q1	82.082028		99.841194		28	22:20:00.0		100		18	489.6
67	17	I11	LT	L67	L1N	80.585844		99.305664		29	22:20:00.0		100		9	244.8
68	140	I11	LT	I68	I4	81.133994		96.844800		29	22:40:00.0		100		9	244.8
69	112	I11	LT	T69	T0	80.805081		105.871353		29	23:40:00.0		100		7	190.4
70	139	I11	LT	B70	B4	80.708381		102.370517		30	00:01:00.0		100		6	163.2

Table - 5
Recording and Navigation Sites Summary

#	Fix	Line	Site	Site	Lat.	N	Long.	W	Navig.	Date	Time
No.	Name	Code	Name						System	April	UT
1	1		ICE CAMP		81.119167		96.791111	NAV		18	
2	2		SYL BJARN		80.685667		95.623306	NAV		18	
3	3		SYL MEIGN		80.087722		99.045389	NAV		18	
4	4		SYL HUBB		81.330944		93.965528	NAV		18	
5	5		SYL LOKK		81.641550		91.744339	NAV		18	
6	9	I06	067 LB04		81.278133		96.171736	SYL		18	00:00
7	9	I06	068 LB02		81.278133		96.171736	SYL		18	00:00
8	9	I06	070 LB05		81.278133		96.171736	SYL		18	00:00
9	9	I06	083 BP16		81.278133		96.171736	SYL		18	00:00
10	9	I06	086 BP18		81.278133		96.171736	SYL		18	00:00
11	23	I06	074 LB01		81.122000		96.828297	SYL		19	15:08
12	23	I06	071 LB03		81.122000		96.828297	SYL		19	15:08
13	23	I06	073 LB06		81.122000		96.828297	SYL		19	15:08
14	23	I06	076 LB08		81.122000		96.828297	SYL		19	15:08
15	23	I06	069 LB09		81.122000		96.828297	SYL		19	15:08
16	23	I06	077 LB0A		81.122000		96.828297	SYL		19	15:08
17	23	I06	072 LB0C		81.122000		96.828297	SYL		19	15:08
18	23	I06	075 LB0E		81.122000		96.828297	SYL		19	15:08
19	23	I06	084 BP10		81.122000		96.828297	SYL		19	15:08
20	23	I06	088 BP11		81.122000		96.828297	SYL		19	15:08
21	23	I06	082 BP12		81.122000		96.828297	SYL		19	15:08
22	23	I06	089 BP13		81.122000		96.828297	SYL		19	15:08
23	23	I06	085 BP14		81.122000		96.828297	SYL		19	15:08
24	23	I06	087 BP17		81.122000		96.828297	SYL		19	15:08
25	23	I06	080 BP19		81.122000		96.828297	SYL		19	15:08
26	23	I06	079 BP20		81.122000		96.828297	SYL		19	15:08
27	23	I06	078 BP21		81.122000		96.828297	SYL		19	15:08
28	23	I06	081 BP22		81.122000		96.828297	SYL		19	15:08
29	31	I07	090 LB09		81.424081		95.376689	SYL		21	18:07
30	32	I07	091 LB01		81.388850		95.566650	SYL		21	18:16
31	33	I07	092 LB0C		81.352764		95.758178	SYL		21	18:25
32	34	I07	093 LB0E		81.317994		95.932086	SYL		21	18:35
33	35	I07	094 LB04		81.281350		96.116281	SYL		21	18:43
34	36	I07	095 LB08		81.246856		96.296186	SYL		21	18:53
35	37	I07	096 LB03		81.210961		96.473075	SYL		21	19:02
36	38	I07	097 LB05		81.174722		96.650192	SYL		21	19:40
37	39	I07	098 LB0A		81.139153		96.826950	SYL		21	19:48
38	40	I07	099 LB06		81.102006		97.004158	SYL		21	19:57
39	41	I07	100 LB02		81.067158		97.172786	SYL		21	20:05
40	42	I07	101 BP17		81.030558		97.353183	SYL		21	17:54
41	43	I07	102 BP12		80.994403		97.512419	SYL		21	18:11
42	44	I07	103 BP22		80.958472		97.685047	SYL		21	18:23
43	45	I07	104 BP21		80.920411		97.851103	SYL		21	18:34

#	Fix	Line	Site	Site	Lat.	N	Long.	W	Navig.	Date	Time
No.	Name	Code	Name						System	April	UT
44	46	I07	105	BP16	80.883317		98.020347		SYL	21	18:43
45	47	I07	106	BP19	80.847378		98.193911		SYL	21	18:52
46	48	I07	107	BP18	80.812217		98.338503		SYL	21	19:02
47	49	I07	108	BP11	80.775022		98.501014		SYL	21	20:49
48	50	I07	109	BP14	80.738414		98.664083		SYL	21	20:58
49	51	I07	110	BP20	80.702644		98.830131		SYL	21	21:07
50	52	I07	111	BP13	80.664536		98.981544		SYL	21	21:14
51	53	I07	112	BP10	80.627889		99.137106		SYL	21	21:21
52	64	I08	113	LBOE	80.597119		99.366169		SYL	24	16:44
53	65	I08	114	LBOA	80.556444		99.549117		SYL	24	16:52
54	66	I08	115	LB01	80.515625		99.719369		SYL	24	16:59
55	67	I08	116	LB02	80.475950		99.888031		SYL	24	17:06
56	68	I08	117	LB04	80.433994	100.060056			SYL	24	17:13
57	69	I08	118	LB0C	80.393175	100.227708			SYL	24	17:22
58	70	I08	119	LB09	80.352283	100.396261			SYL	24	17:28
59	71	I08	120	LB03	80.306381	100.582944			SYL	24	18:06
60	72	I08	121	LB08	80.270367	100.724953			SYL	24	18:09
61	73	I08	122	LB05	80.227603	100.896256			SYL	24	18:15
62	74	I08	123	LB06	80.188053	101.046481			SYL	24	18:23
63	75	I09	142	LB08	81.368650	97.252236			SYL	25	15:43
64	76	I09	141	LB02	81.346678	96.991061			SYL	25	15:52
65	77	I09	140	LB06	81.325111	96.726775			SYL	25	15:55
66	78	I09	139	LB05	81.303297	96.471183			SYL	25	16:03
67	79	I09	138	LBOA	81.282575	96.214789			SYL	25	16:10
68	80	I09	137	LB09	81.260472	95.956256			SYL	25	16:15
69	81	I09	136	LB0C	81.238286	95.694864			SYL	25	16:22
70	82	I09	146	LB03	81.450064	98.311897			SYL	25	17:05
71	83	I09	145	LB01	81.430678	98.050594			SYL	25	17:13
72	84	I09	144	LBOE	81.409825	97.781653			SYL	25	17:19
73	85	I09	143	LB04	81.389267	97.515603			SYL	25	17:27
74	89	I08	124	BP19	80.152478	101.182597			SYL	24	17:28
75	90	I08	125	BP18	80.108111	101.355108			SYL	24	17:36
76	91	I08	126	BP20	80.060000	101.466667			SYL	24	17:43
77	92	I08	127	BP17	80.022556	101.669200			SYL	24	17:51
78	93	I08	128	BP21	79.982231	101.839150			SYL	24	18:02
79	94	I08	129	BP16	79.938492	101.991797			SYL	24	18:10
80	95	I08	134	BP13	79.768381	102.609558			SYL	24	18:44
81	96	I08	133	BP14	79.767772	102.601106			SYL	24	18:58
82	97	I08	132	BP11	79.811428	102.445600			SYL	24	19:08
83	98	I08	131	BP10	79.852778	102.294444			SYL	24	19:18
84	99	I08	130	BP12	79.894725	102.144447			SYL	24	19:32
85	100	I09	147	BP22	81.470944	98.585278			SYL	25	22:11
86	101	I09	148	BP14	81.490833	98.865094			SYL	25	22:18
87	102	I09	149	BP18	81.511314	99.126500			SYL	25	22:24
88	103	I09	150	BP11	81.530292	99.400269			SYL	25	22:31
89	104	I09	151	BP21	81.550792	99.665678			SYL	25	22:37
90	105	I09	152	BP12	81.568578	99.950422			SYL	25	22:44

#	Fix	Line	Site	Site	Lat.	N	Long.	W	Navig.	Date	Time
No.	Name	Code	Name						System	April	UT
91	106	I09	153	BP16	81.589864		100.221375		SYL	25	22:49
92	107	I09	154	BP13	81.607836		100.501039		SYL	25	22:56
93	108	I09	155	BP20	81.627017		100.776700		SYL	25	23:27
94	109	I09	156	BP10	81.646586		101.052703		SYL	25	23:34
95	110	I09	157	BP17	81.676711		101.336847		SYL	25	23:42
96	111	I09	158	BP19	81.681397		101.617181		SYL	25	23:49
97	117	I10	170	LB03	81.323417		103.437792		SYL	28	16:02
98	118	I10	169	LB02	81.353889		103.302878		SYL	28	16:13
99	119	I10	168	LB08	81.391108		103.132514		SYL	28	16:22
100	120	I10	167	LB01	81.424850		102.979486		SYL	28	16:32
101	121	I10	166	LB09	81.458744		102.828406		SYL	28	16:41
102	122	I10	165	LB04	81.491631		102.668356		SYL	28	16:50
103	123	I10	164	LB05	81.526542		102.524642		SYL	28	16:58
104	124	I10	163	LBOE	81.560603		102.367486		SYL	28	18:00
105	125	I10	162	LBOC	81.593172		102.213636		SYL	28	18:08
106	126	I10	161	LB06	81.626908		102.048531		SYL	28	18:17
107	127	I10	160	LBOA	81.662433		101.881853		SYL	28	18:26
108	128	I11	193	LB09	80.715436		102.527475		SYL	29	16:22
109	129	I11	194	LBOA	80.725542		102.831528		SYL	29	16:31
110	130	I11	195	LB06	80.734072		103.125281		SYL	29	16:38
111	131	I11	196	LB02	80.743072		103.423144		SYL	29	17:09
112	132	I11	197	LB03	80.751067		103.723458		SYL	29	17:18
113	133	I11	198	LB08	80.761392		104.021719		SYL	29	17:26
114	134	I11	199	LB05	80.770778		104.323392		SYL	29	17:32
115	135	I11	200	LBOC	80.778225		104.625156		SYL	29	17:48
116	136	I11	201	LBOE	80.784883		104.935833		SYL	29	17:57
117	137	I11	202	LB01	80.793778		105.226933		SYL	30	18:06
118	138	I11	203	LB04	80.802572		105.537311		SYL	29	18:33
119	141	I10	171	BP22	81.281553		103.616533		SYL	28	23:07
120	142	I10	172	BP19	81.241153		103.785275		SYL	28	23:14
121	143	I10	173	BP20	81.202094		103.954656		SYL	28	23:21
122	144	I10	174	BP16	81.163750		104.115197		SYL	28	23:30
123	145	I10	175	BP17	81.121839		104.290094		SYL	28	23:38
124	146	I10	176	BP21	81.082467		104.455942		SYL	29	01:18
125	147	I10	177	BP18	81.042631		104.613664		SYL	29	01:34
126	148	I10	178	BP11	81.002831		104.764792		SYL	29	01:37
127	149	I10	179	BP12	80.961764		104.936292		SYL	29	01:44
128	150	I10	180	BP14	80.921433		105.087989		SYL	29	01:51
129	151	I10	181	BP13	80.881708		105.246067		SYL	29	01:58
130	152	I10	182	BP10	80.840572		105.413322		SYL	29	02:07

Appendix A - Participants List

Scientific Staff

Jay Ardai	Lamont Doherty Geological Observatory
Isa Asudeh	Lithosphere and Canadian Shield Division
Jack Davidson	Bedford Institute of Oceanography
Dave Forsyth	Lithosphere and Canadian Shield Division
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Hans Weber	Geophysics Division
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Morley Wright	Bedford Institute of Oceanography

Air Crews

Twin Otter (Bradley 24) Helicopters (Quasar MQN, PDU)

Duncan Grant	Jim Feaver
Doug McLeod	Marc Hutcheson
Richard Campbell	Richard Rondeau
Mike Eddings	Jody McCrae

Appendix B - Water Wave and Crustal Sections

The Seismic Refraction Sections are arranged as follows:

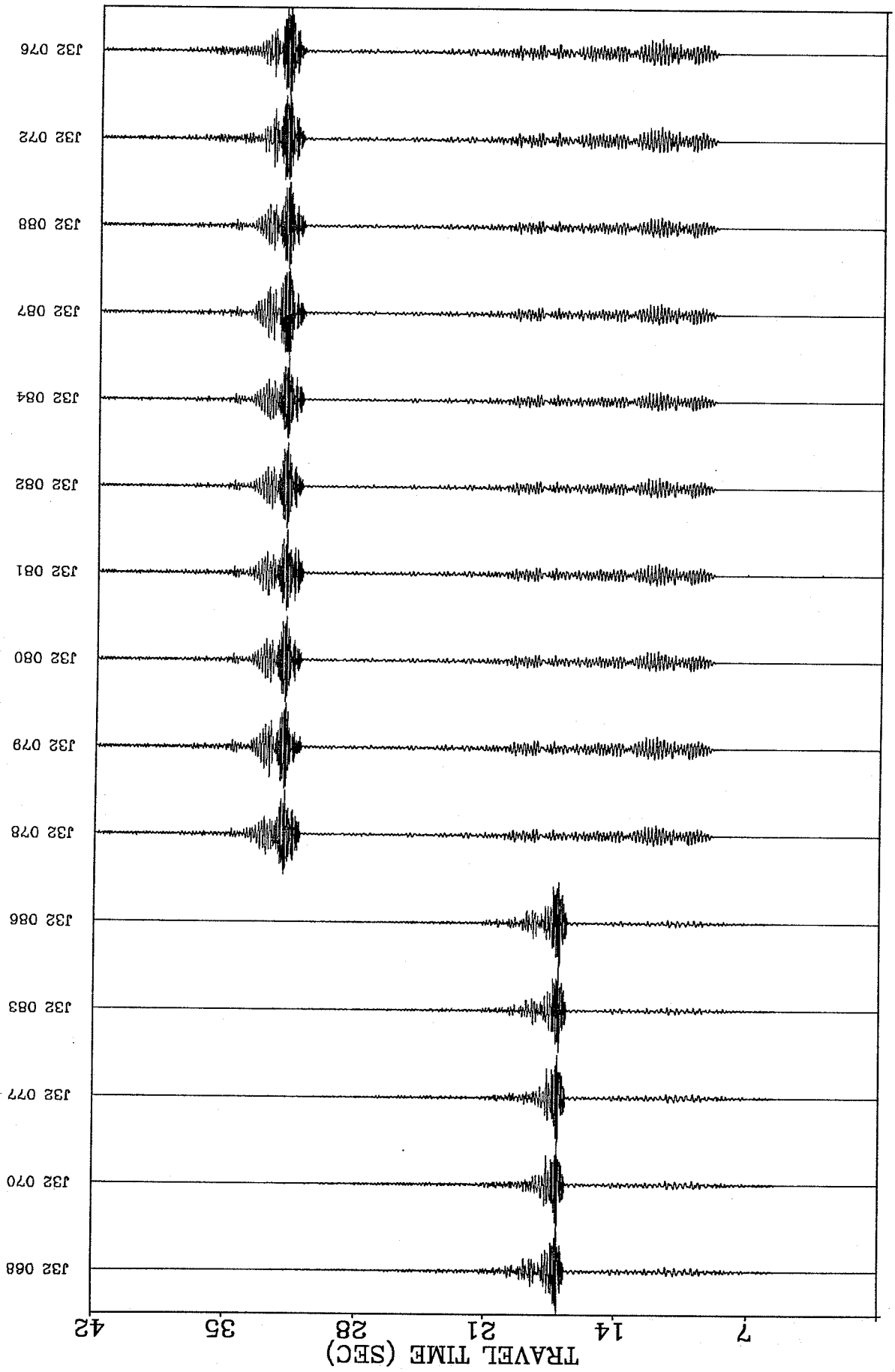
- a) A table of section specifications with all available header information sorted on distances between shots and recorders,
- b) A second table with header information sorted on azimuth of recorders for the fan shots only,
- c) Water wave sections plotted with reduction velocity of 1.44 km/s,
- d) Crustal seismic sections with reduction velocity of 6.00 km/s.

Note that the traces in all sections are normalized by arbitrary scales and do not reflect true amplitudes. No clock corrections or water depth static corrections have been applied to the plotted data.

Line: I06 Shot: J32
 ** Ice Island 86 ** Field shot point: J2 Section: TE
 Shot time: 1986 APR. 19 0:30: 0.00
 Lat.: 81.44382 N, Long.: 95.27780 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 108.8 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
068	81.27813	96.17174	0.0	23.82	219.47	0:29:58.00	0.100	spz	LB02	120
083	81.27813	96.17174	0.0	23.82	219.47	0:29:59.17	0.100	spz	BP16	120
070	81.27813	96.17174	0.0	23.82	219.47	0:29:58.00	0.100	spz	LB05	120
086	81.27813	96.17174	0.0	23.82	219.47	0:29:59.19	0.100	spz	BP18	120
077	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LBOA	120
075	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LBOE	120
069	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LB09	120
082	81.12200	96.82830	0.0	44.50	216.91	0:29:59.18	0.100	spz	BP12	120
088	81.12200	96.82830	0.0	44.50	216.91	0:29:59.19	0.100	spz	BP11	120
081	81.12200	96.82830	0.0	44.50	216.91	0:29:59.17	0.100	spz	BP22	120
076	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LB08	120
085	81.12200	96.82830	0.0	44.50	216.91	0:30: 7.17	0.100	spz	BP14	120
078	81.12200	96.82830	0.0	44.50	216.91	0:29:59.17	0.100	spz	BP21	120
087	81.12200	96.82830	0.0	44.50	216.91	0:29:59.18	0.100	spz	BP17	120
071	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LB03	120
084	81.12200	96.82830	0.0	44.50	216.91	0:29:59.19	0.100	spz	BP10	120
079	81.12200	96.82830	0.0	44.50	216.91	0:29:59.17	0.100	spz	BP20	120
080	81.12200	96.82830	0.0	44.50	216.91	0:29:59.18	0.100	spz	BP19	120
072	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LB0C	120
074	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LB01	120
073	81.12200	96.82830	0.0	44.50	216.91	0:29:58.00	0.100	spz	LB06	120

Fig. 1A - Seismic & water waves shot J32



Line: I07 Shot: H39
 ** Ice Island 86 ** Field shot point: H1 Section: JL
 Shot time: 1986 APR. 22 0: 0: 0.00
 Lat.: 81.72775 N, Long.: 93.54150 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 734.4 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
090	81.42408		95.37669		0.0	45.29	222.43	23:59:58.00	0.100		spz	LB09	120
091	81.38885		95.56665		0.0	50.34	222.27	23:59:58.00	0.100		spz	LB01	120
092	81.35276		95.75818		0.0	55.49	222.12	23:59:58.00	0.100		spz	LB0C	120
093	81.31799		95.93208		0.0	60.35	221.89	23:59:58.00	0.100		spz	LB0E	120
095	81.24686		96.29619		0.0	70.40	221.67	23:59:58.00	0.100		spz	LB08	120
096	81.21096		96.47308		0.0	75.41	221.54	23:59:58.00	0.100		spz	LB03	120
097	81.17472		96.65019		0.0	80.47	221.43	23:59:58.00	0.100		spz	LB05	120
099	81.10201		97.00416		0.0	90.61	221.28	23:59:58.00	0.100		spz	LB06	120
100	81.06716		97.17278		0.0	95.48	221.24	23:59:58.00	0.100		spz	LB02	120
101	81.03056		97.35318		0.0	100.63	221.23	23:59:59.17	0.100		spz	BP17	120
102	80.99440		97.51242		0.0	105.52	221.10	23:59:59.17	0.100		spz	BP12	120
103	80.95847		97.68504		0.0	110.55	221.10	23:59:59.17	0.100		spz	BP22	120
104	80.92041		97.85110		0.0	115.70	220.99	23:59:59.17	0.100		spz	BP21	120
105	80.88332		98.02035		0.0	120.81	220.95	23:59:59.17	0.100		spz	BP16	120
106	80.84738		98.19391		0.0	125.87	221.00	23:59:59.17	0.100		spz	BP19	120
107	80.81222		98.33850		0.0	130.55	220.89	23:59:59.17	0.100		spz	BP18	120
108	80.77502		98.50101		0.0	135.62	220.84	23:59:59.18	0.100		spz	BP11	120
109	80.73841		98.66409		0.0	140.65	220.83	23:59:59.18	0.100		spz	BP14	120
110	80.70264		98.83013		0.0	145.64	220.87	23:59:59.17	0.100		spz	BP20	120
111	80.66454		98.98154		0.0	150.69	220.78	23:59:59.17	0.100		spz	BP13	120
112	80.62789		99.13711		0.0	155.66	220.76	23:59:59.17	0.100		spz	BP10	120

Fig. 2A - Water wave section JL shot H39

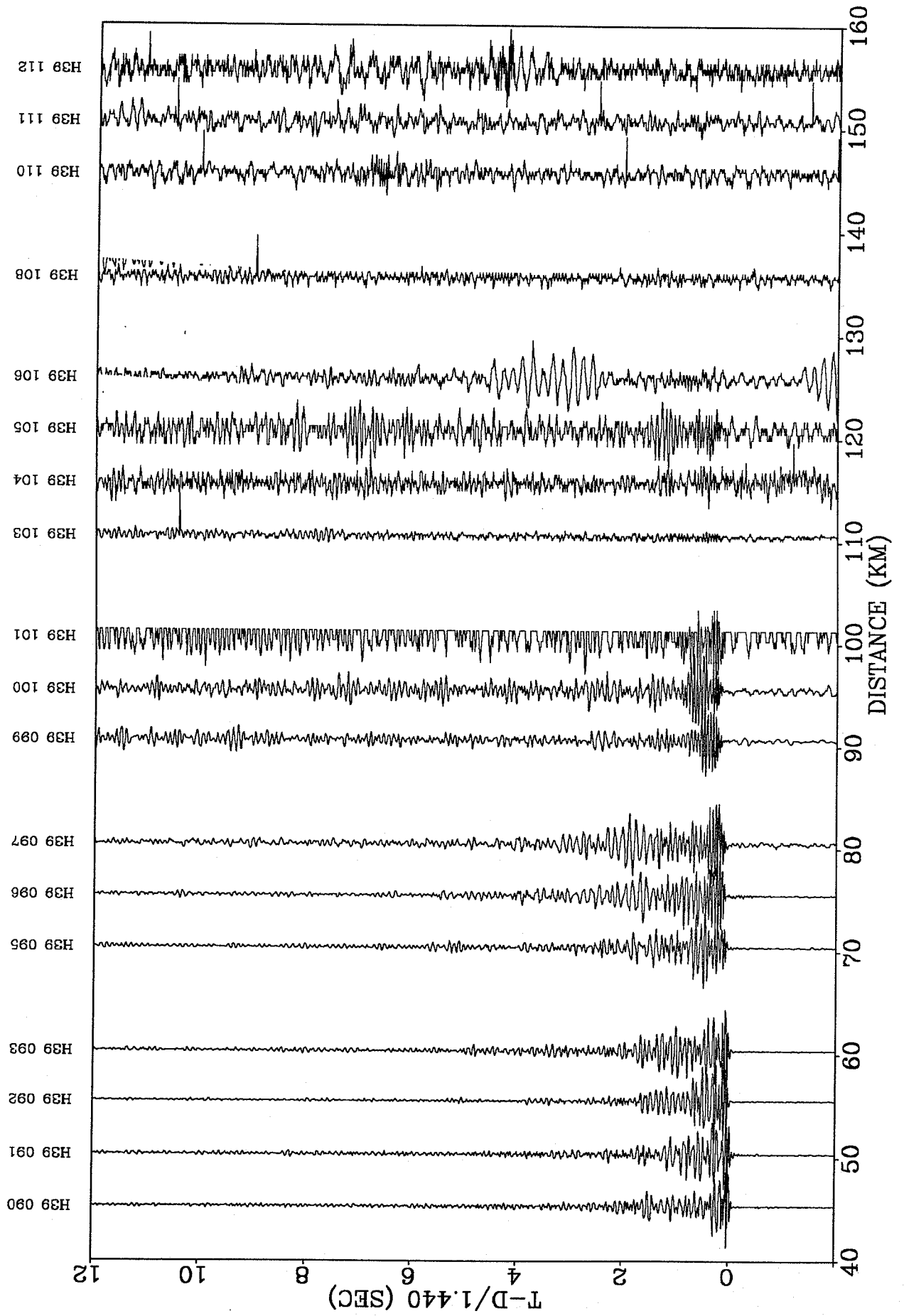
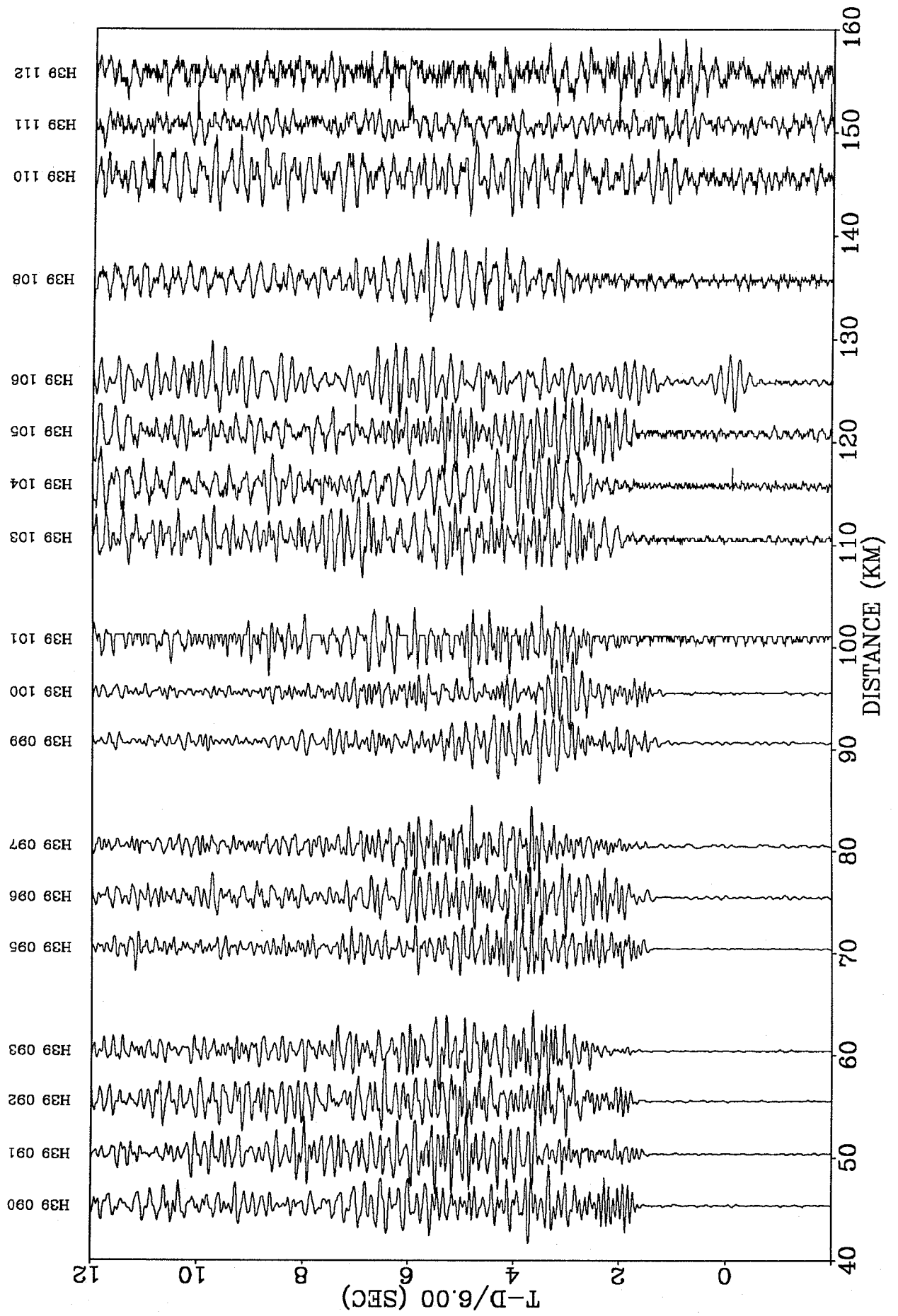


Fig. 2B - Seismic section JL shot H39



Line: I07 Shot: J38
 ** Ice Island 86 ** Field shot point: J1 Section: JL
 Shot time: 1986 APR. 21 23:45: 0.00
 Lat.: 81.45959 N, Long.: 95.19286 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
090	81.42408	95.37669	0.0	5.01	217.71	23:44:58.00	0.100	spz	LB09	120
091	81.38885	95.56665	0.0	10.06	218.42	23:44:58.00	0.100	spz	LB01	120
092	81.35276	95.75818	0.0	15.21	218.62	23:44:58.00	0.100	spz	LB0C	120
093	81.31799	95.93208	0.0	20.07	218.38	23:44:58.00	0.100	spz	LBOE	120
095	81.24686	96.29619	0.0	30.13	218.50	23:44:58.00	0.100	spz	LB08	120
096	81.21096	96.47308	0.0	35.14	218.44	23:44:58.00	0.100	spz	LB03	120
097	81.17472	96.65019	0.0	40.19	218.41	23:44:58.00	0.100	spz	LB05	120
099	81.10201	97.00416	0.0	50.35	218.42	23:44:58.00	0.100	spz	LB06	120
100	81.06716	97.17278	0.0	55.21	218.45	23:44:58.00	0.100	spz	LB02	120
101	81.03056	97.35318	0.0	60.36	218.54	23:44:59.18	0.100	spz	BP17	120
102	80.99440	97.51242	0.0	65.26	218.41	23:44:59.19	0.100	spz	BP12	120
103	80.95847	97.68504	0.0	70.28	218.48	23:44:59.17	0.100	spz	BP22	120
104	80.92041	97.85110	0.0	75.44	218.38	23:44:59.17	0.100	spz	BP21	120
105	80.88332	98.02035	0.0	80.55	218.39	23:44:59.17	0.100	spz	BP16	120
106	80.84738	98.19391	0.0	85.60	218.51	23:44:59.19	0.100	spz	BP19	120
107	80.81222	98.33850	0.0	90.29	218.39	23:44:59.17	0.100	spz	BP18	120
108	80.77502	98.50101	0.0	95.36	218.38	23:44:59.17	0.100	spz	BP11	120
109	80.73841	98.66409	0.0	100.39	218.40	23:44:59.17	0.100	spz	BP14	120
110	80.70264	98.83013	0.0	105.37	218.50	23:44:59.19	0.100	spz	BP20	120
111	80.66454	98.98154	0.0	110.43	218.40	23:44:59.18	0.100	spz	BP13	120
112	80.62789	99.13711	0.0	115.40	218.40	23:44:59.17	0.100	spz	BP10	120

Fig. 3A - Water wave section JL shot J38

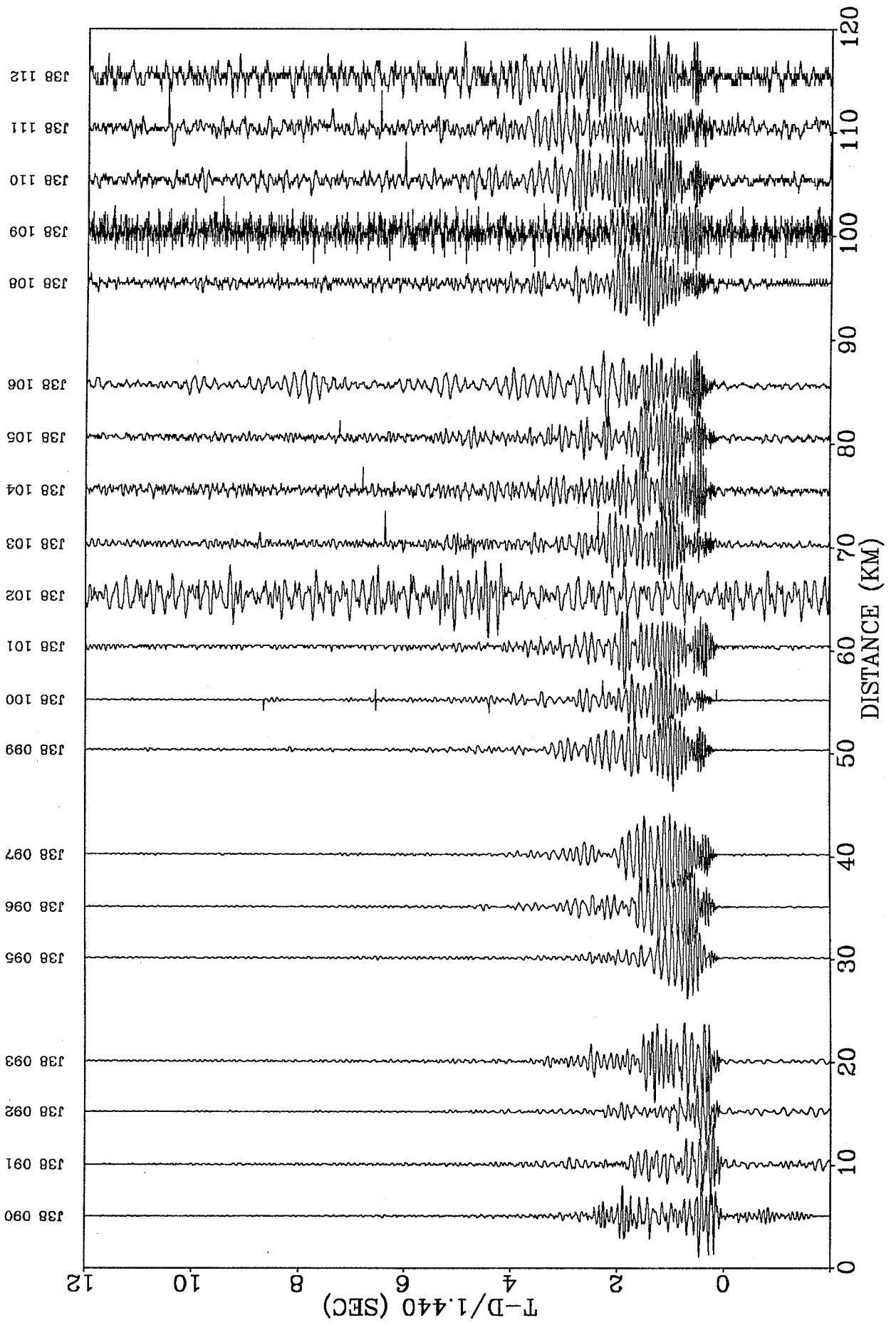
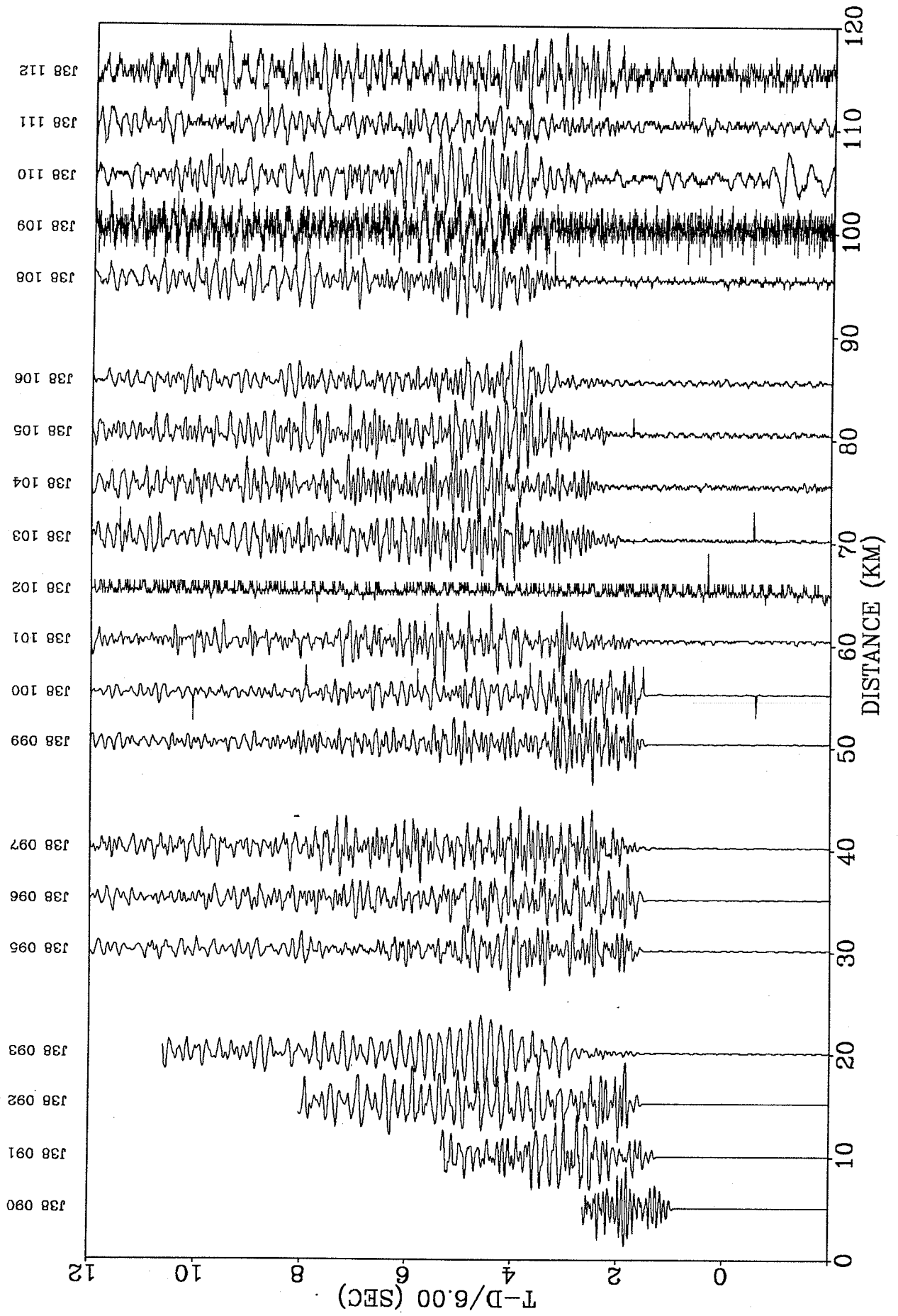


Fig. 3B - Seismic section JL shot J38



Line: I07 Shot: J40
 ** Ice Island 86 ** Field shot point: J2 Section: JL
 Shot time: 1986 APR. 22 0:20: 0.00
 Lat.: 81.44404 N, Long.: 95.27661 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
090	81.42408	95.37669	0.0	2.78	216.81	0:19:58.00	0.100	spz	LB09	120
091	81.38885	95.56665	0.0	7.83	218.26	0:19:58.00	0.100	spz	LB01	120
092	81.35276	95.75818	0.0	12.99	218.52	0:19:58.00	0.100	spz	LB0C	120
093	81.31799	95.93208	0.0	17.85	218.26	0:19:58.00	0.100	spz	LB0E	120
095	81.24686	96.29619	0.0	27.90	218.39	0:19:58.00	0.100	spz	LB08	120
096	81.21096	96.47308	0.0	32.92	218.34	0:19:58.00	0.100	spz	LB03	120
097	81.17472	96.65019	0.0	37.97	218.30	0:19:58.00	0.100	spz	LB05	120
099	81.10201	97.00416	0.0	48.12	218.32	0:19:58.00	0.100	spz	LB06	120
100	81.06716	97.17278	0.0	52.98	218.36	0:19:58.00	0.100	spz	LB02	120
101	81.03056	97.35318	0.0	58.14	218.45	0:19:59.17	0.100	spz	BP17	120
102	80.99440	97.51242	0.0	63.03	218.31	0:19:59.17	0.100	spz	BP12	120
103	80.95847	97.68504	0.0	68.06	218.39	0:19:59.18	0.100	spz	BP22	120
104	80.92041	97.85110	0.0	73.21	218.29	0:19:59.18	0.100	spz	BP21	120
105	80.88332	98.02035	0.0	78.32	218.30	0:19:59.18	0.100	spz	BP16	120
106	80.84738	98.19391	0.0	83.38	218.42	0:19:59.18	0.100	spz	BP19	120
107	80.81222	98.33850	0.0	88.07	218.30	0:19:59.18	0.100	spz	BP18	120
108	80.77502	98.50101	0.0	93.14	218.29	0:19:59.17	0.100	spz	BP11	120
109	80.73841	98.66409	0.0	98.16	218.31	0:19:59.18	0.100	spz	BP14	120
110	80.70264	98.83013	0.0	103.15	218.41	0:19:59.18	0.100	spz	BP20	120
111	80.66454	98.98154	0.0	108.21	218.31	0:19:59.17	0.100	spz	BP13	120
112	80.62789	99.13711	0.0	113.18	218.31	0:19:59.19	0.100	spz	BP10	120

Fig. 4A - Water wave section JL shot J40

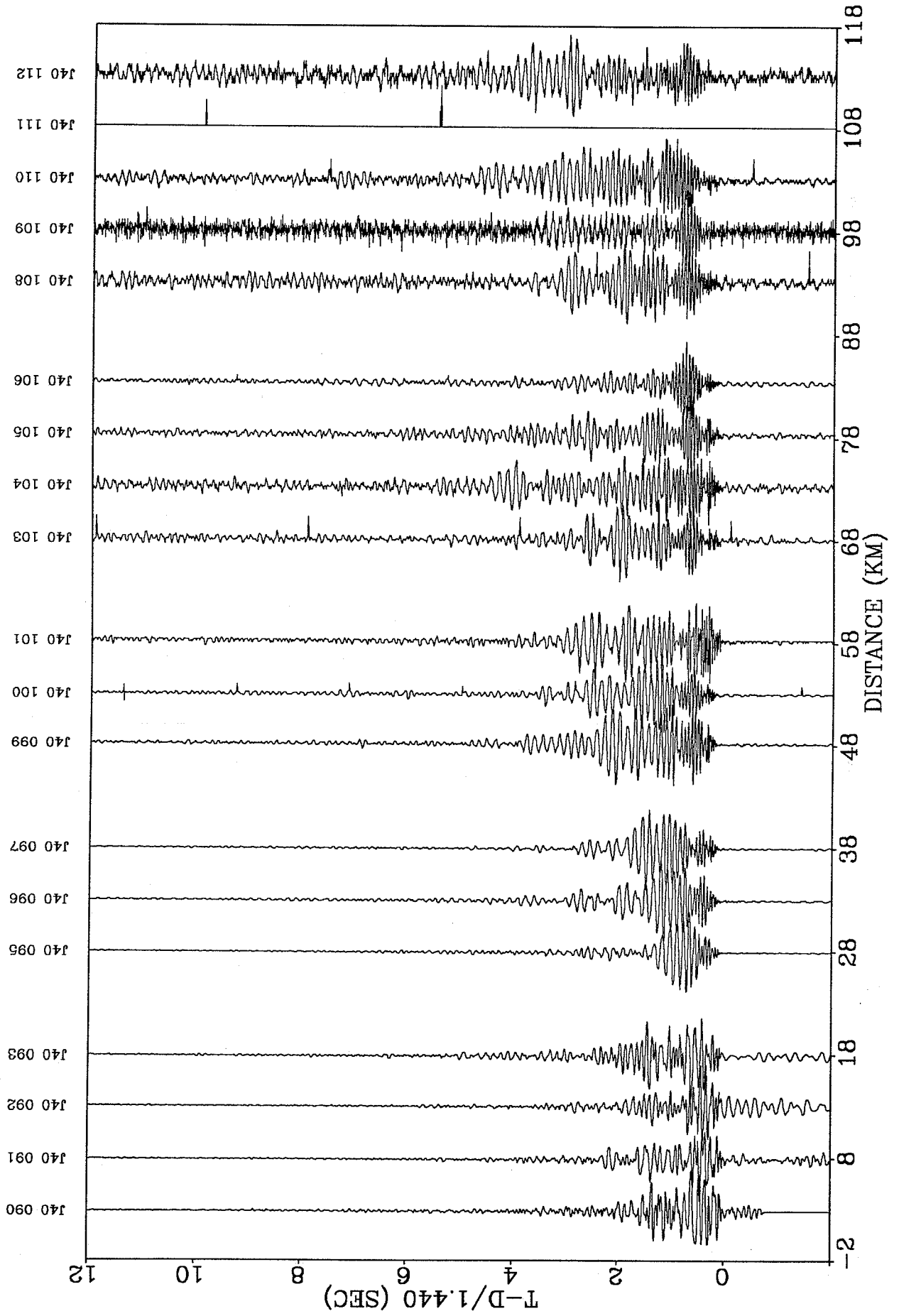
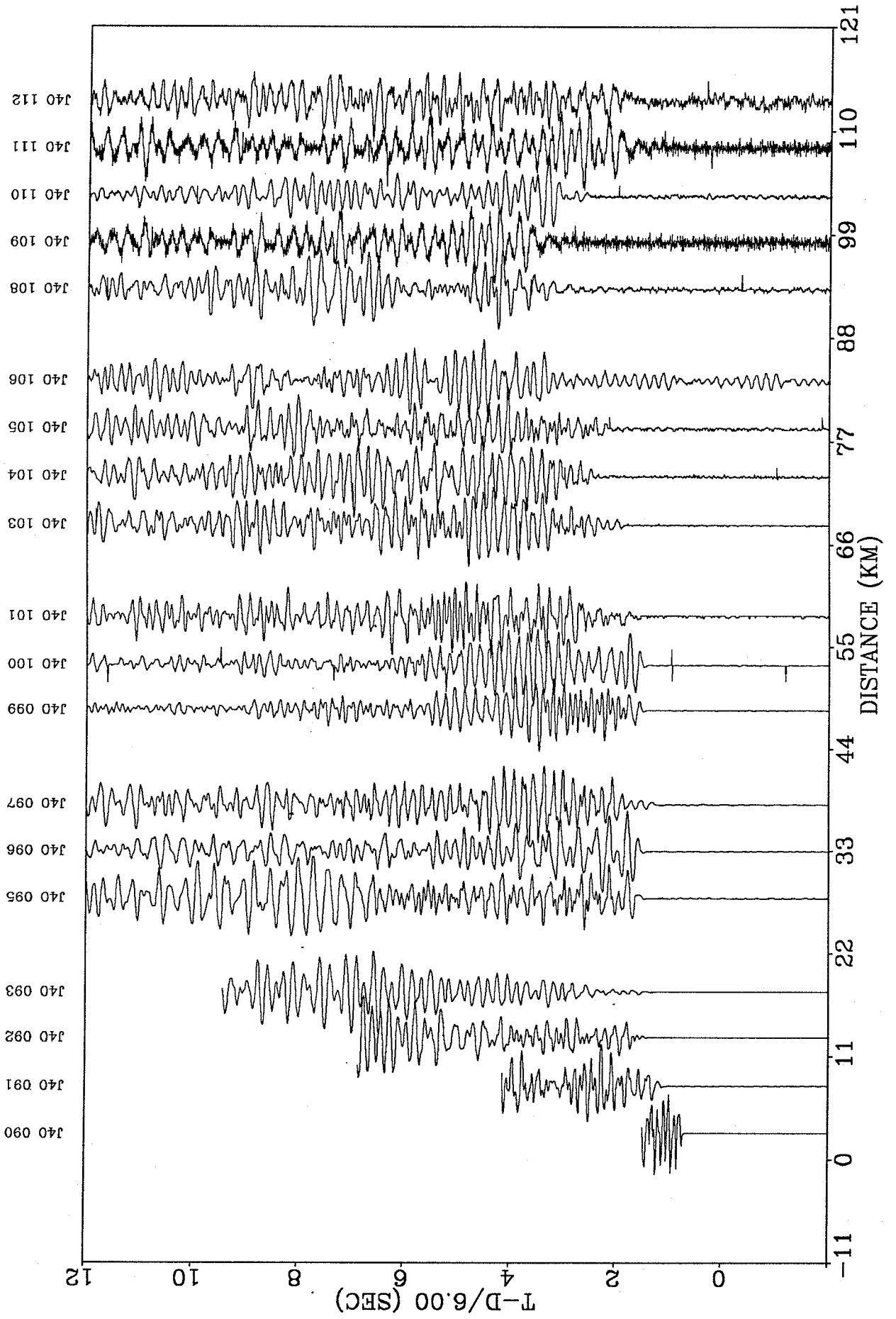


Fig. 4B - Seismic section JL shot J40



Line: I07 Shot: K34
 ** Ice Island 86 ** Field shot point: K1 Section: JL
 Shot time: 1986 APR. 21 22:16: 0.00
 Lat.: 81.03430 N, Long.: 97.46272 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
090	81.42408	95.37669	0.0	56.18	38.19	22:14:58.00	0.100	spz	LB09	120
091	81.38885	95.56665	0.0	51.13	38.32	22:14:58.00	0.100	spz	LB01	120
092	81.35276	95.75818	0.0	45.98	38.50	22:14:58.00	0.100	spz	LB0C	120
093	81.31799	95.93208	0.0	41.12	38.86	22:14:58.00	0.100	spz	LB0E	120
095	81.24686	96.29619	0.0	31.08	39.63	22:14:58.00	0.100	spz	LB08	120
096	81.21096	96.47308	0.0	26.08	40.36	22:14:58.00	0.100	spz	LB03	120
097	81.17472	96.65019	0.0	21.04	41.43	22:14:58.00	0.100	spz	LB05	120
099	81.10201	97.00416	0.0	10.97	46.22	22:14:58.00	0.100	spz	LB06	120
100	81.06716	97.17278	0.0	6.23	53.79	22:14:58.00	0.100	spz	LB02	120
101	81.03056	97.35318	0.0	1.95	102.32	22:14:59.18	0.100	spz	BP17	120
102	80.99440	97.51242	0.0	4.54	191.03	22:14:59.17	0.100	spz	BP12	120
103	80.95847	97.68504	0.0	9.32	204.76	22:14:59.17	0.100	spz	BP22	120
104	80.92041	97.85110	0.0	14.42	208.33	22:14:59.19	0.100	spz	BP21	120
105	80.88332	98.02035	0.0	19.50	210.41	22:14:59.17	0.100	spz	BP16	120
106	80.84738	98.19391	0.0	24.52	212.00	22:14:59.18	0.100	spz	BP19	120
107	80.81222	98.33850	0.0	29.21	212.32	22:14:59.19	0.100	spz	BP18	120
108	80.77502	98.50101	0.0	34.27	212.85	22:14:59.17	0.100	spz	BP11	120
109	80.73841	98.66409	0.0	39.29	213.34	22:14:59.18	0.100	spz	BP14	120
110	80.70264	98.83013	0.0	44.26	213.88	22:14:59.18	0.100	spz	BP20	120
111	80.66454	98.98154	0.0	49.32	213.91	22:14:59.19	0.100	spz	BP13	120
112	80.62789	99.13711	0.0	54.29	214.12	22:14:59.18	0.100	spz	BP10	120

Line: I07 Shot: K34
 ** Ice Island 86 ** Field shot point: K1 Section: JL
 Shot time: 1986 APR. 21 22:16: 0.00
 Lat.: 81.03430 N, Long.: 97.46272 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
101	81.03056	97.35318	0.0	1.95	102.32	22:14:59.18	0.100	spz	BP17	120
102	80.99440	97.51242	0.0	4.54	191.03	22:14:59.17	0.100	spz	BP12	120
100	81.06716	97.17278	0.0	6.23	53.79	22:14:58.00	0.100	spz	LB02	120
103	80.95847	97.68504	0.0	9.32	204.76	22:14:59.17	0.100	spz	BP22	120
099	81.10201	97.00416	0.0	10.97	46.22	22:14:58.00	0.100	spz	LB06	120
104	80.92041	97.85110	0.0	14.42	208.33	22:14:59.19	0.100	spz	BP21	120
105	80.88332	98.02035	0.0	19.50	210.41	22:14:59.17	0.100	spz	BP16	120
097	81.17472	96.65019	0.0	21.04	41.43	22:14:58.00	0.100	spz	LB05	120
106	80.84738	98.19391	0.0	24.52	212.00	22:14:59.18	0.100	spz	BP19	120
096	81.21096	96.47308	0.0	26.08	40.36	22:14:58.00	0.100	spz	LB03	120
107	80.81222	98.33850	0.0	29.21	212.32	22:14:59.19	0.100	spz	BP18	120
095	81.24686	96.29619	0.0	31.08	39.63	22:14:58.00	0.100	spz	LB08	120
108	80.77502	98.50101	0.0	34.27	212.85	22:14:59.17	0.100	spz	BP11	120
109	80.73841	98.66409	0.0	39.29	213.34	22:14:59.18	0.100	spz	BP14	120
093	81.31799	95.93208	0.0	41.12	38.86	22:14:58.00	0.100	spz	LB0E	120
110	80.70264	98.83013	0.0	44.26	213.88	22:14:59.18	0.100	spz	BP20	120
092	81.35276	95.75818	0.0	45.98	38.50	22:14:58.00	0.100	spz	LB0C	120
111	80.66454	98.98154	0.0	49.32	213.91	22:14:59.19	0.100	spz	BP13	120
091	81.38885	95.56665	0.0	51.13	38.32	22:14:58.00	0.100	spz	LB01	120
112	80.62789	99.13711	0.0	54.29	214.12	22:14:59.18	0.100	spz	BP10	120
090	81.42408	95.37669	0.0	56.18	38.19	22:14:58.00	0.100	spz	LB09	120

Fig. 5A - Water wave section JL shot K34

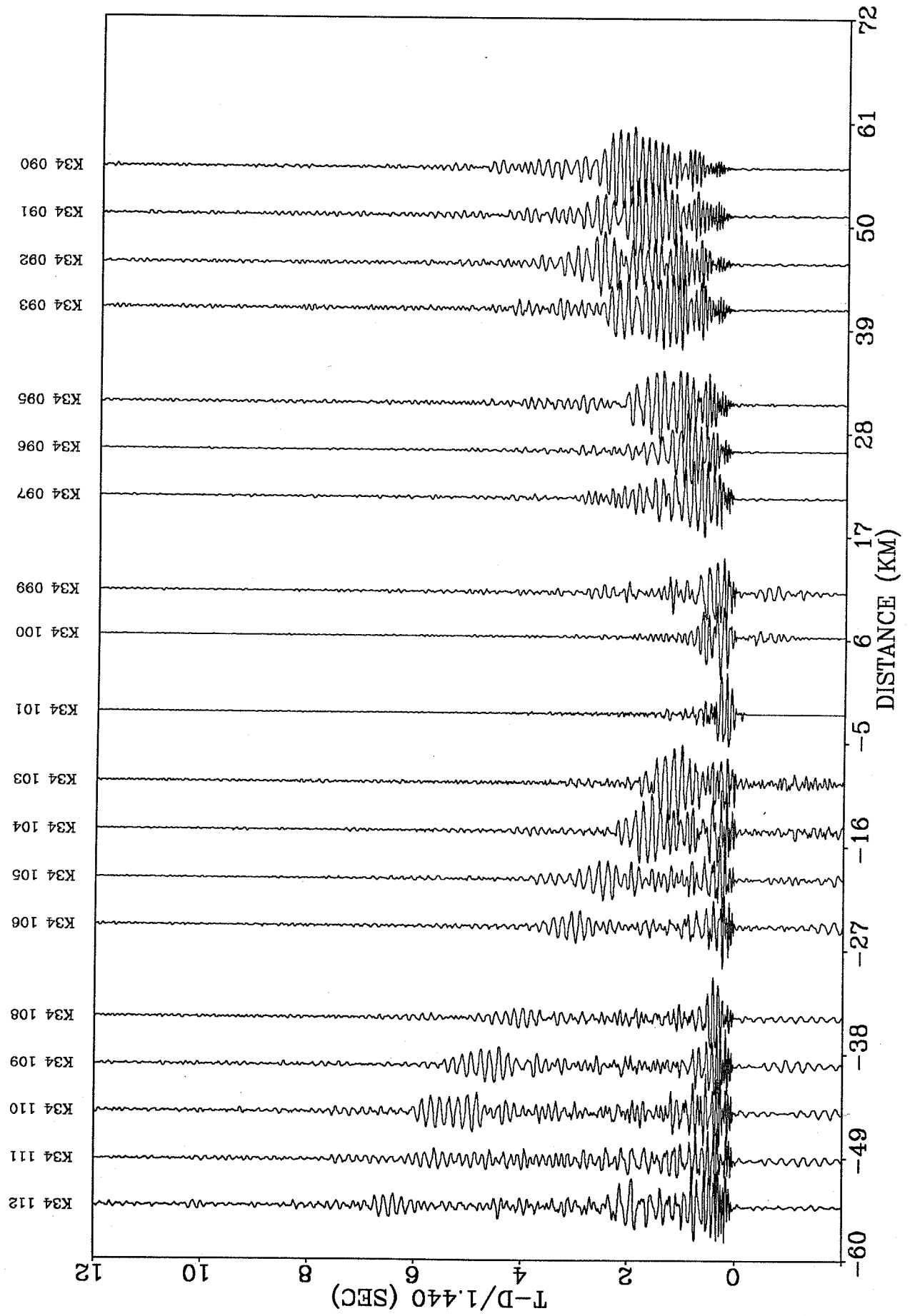
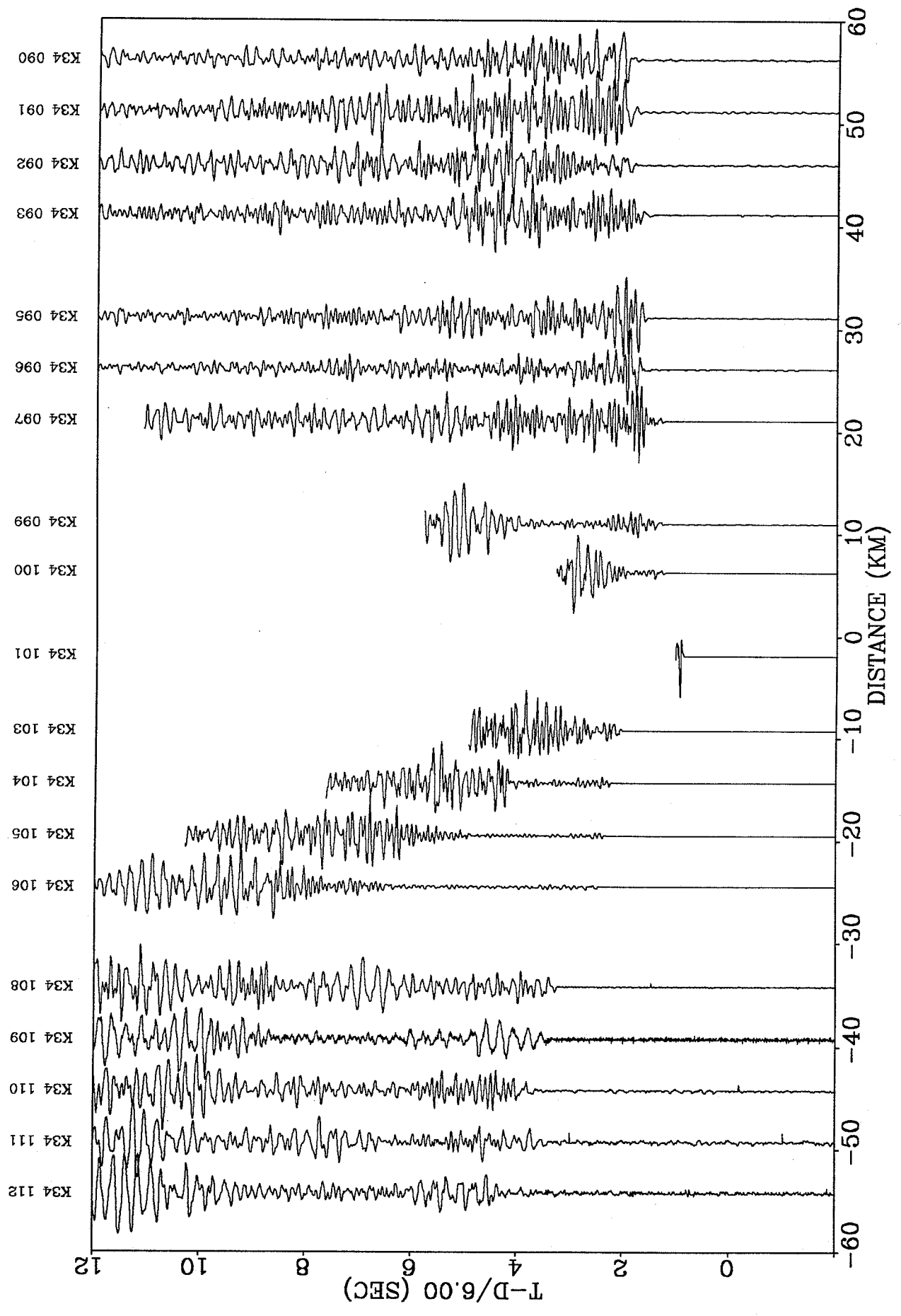


Fig. 5B - Seismic section JL shot K34



Line: I07 Shot: L35
 ** Ice Island 86 ** Field shot point: L1N Section: JL
 Shot time: 1986 APR. 21 22:31: 0.00
 Lat.: 80.58585 N, Long.: 99.30566 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
112	80.62789	99.13711	0.0	5.61	33.12	22:29:59.19	0.100	spz	BP10	120
111	80.66454	98.98154	0.0	10.58	33.70	22:29:59.17	0.100	spz	BP13	240
110	80.70264	98.83013	0.0	15.64	33.27	22:29:59.19	0.100	spz	BP20	120
109	80.73841	98.66409	0.0	20.63	34.00	22:29:59.17	0.100	spz	BP14	120
108	80.77502	98.50101	0.0	25.65	34.17	22:29:59.18	0.100	spz	BP11	120
107	80.81222	98.33850	0.0	30.72	34.15	22:29:59.17	0.100	spz	BP18	120
106	80.84738	98.19391	0.0	35.41	33.90	22:29:59.19	0.100	spz	BP19	120
105	80.88332	98.02035	0.0	40.47	34.20	22:29:59.18	0.100	spz	BP16	120
104	80.92041	97.85110	0.0	45.57	34.23	22:29:59.17	0.100	spz	BP21	120
103	80.95847	97.68504	0.0	50.73	34.10	22:29:59.17	0.100	spz	BP22	120
102	80.99440	97.51242	0.0	55.75	34.21	22:29:59.16	0.100	spz	BP12	120
101	81.03056	97.35318	0.0	60.65	34.09	22:29:59.18	0.100	spz	BP17	120
100	81.06716	97.17278	0.0	65.80	34.20	22:29:58.00	0.100	spz	LB02	120
099	81.10201	97.00416	0.0	70.67	34.23	22:29:58.00	0.100	spz	LB06	120
097	81.17472	96.65019	0.0	80.82	34.25	22:29:58.00	0.100	spz	LB05	120
096	81.21096	96.47308	0.0	85.87	34.24	22:29:58.00	0.100	spz	LB03	120
095	81.24686	96.29619	0.0	90.89	34.23	22:29:58.00	0.100	spz	LB08	120
093	81.31799	95.93208	0.0	100.94	34.28	22:29:58.00	0.100	spz	LB0E	120
092	81.35276	95.75818	0.0	105.80	34.24	22:29:58.00	0.100	spz	LB0C	120
091	81.38885	95.56665	0.0	110.95	34.28	22:29:58.00	0.100	spz	LB01	120
090	81.42408	95.37669	0.0	116.01	34.31	22:29:58.00	0.100	spz	LB09	120

Fig. 6A - Water wave section JL shot L35

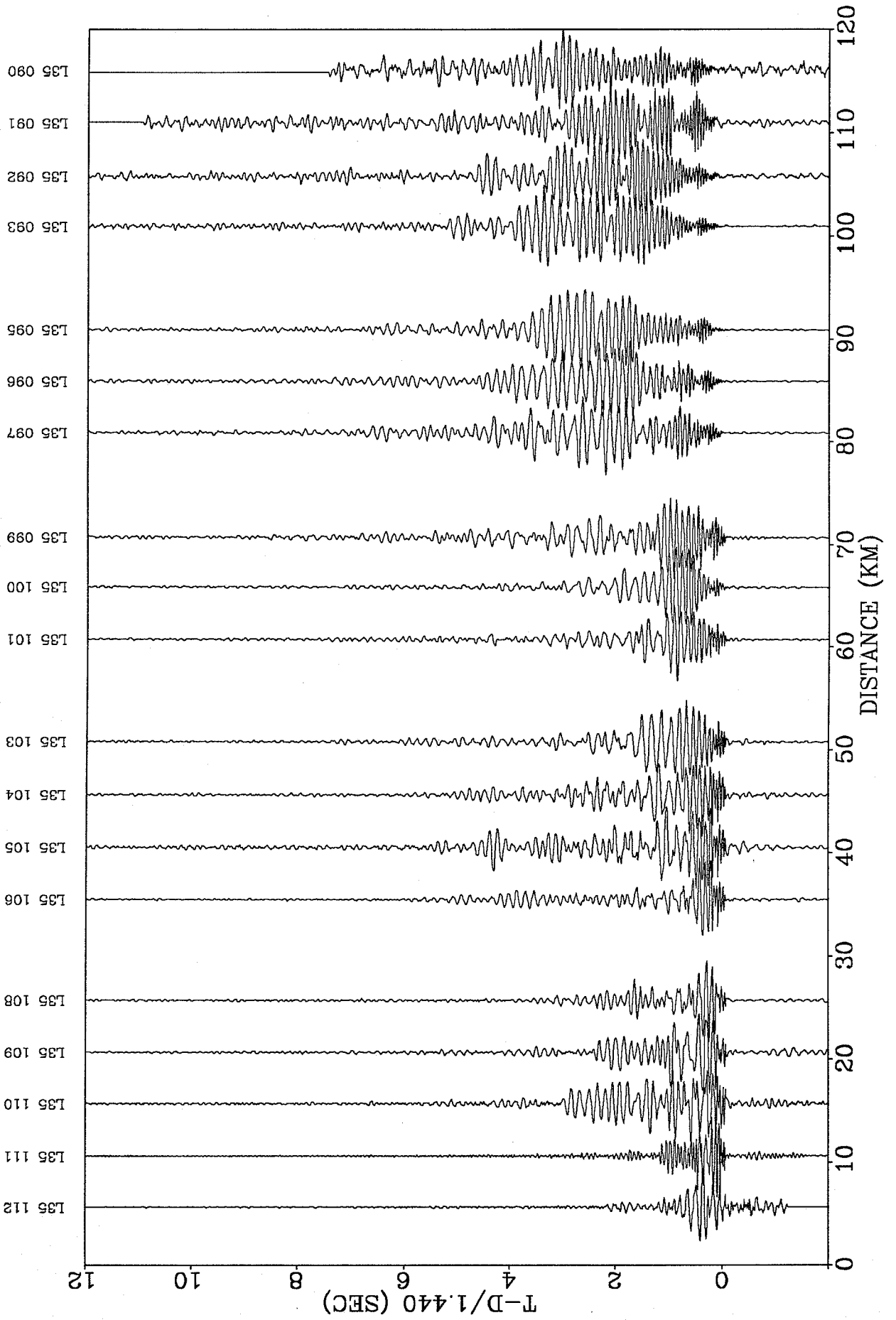
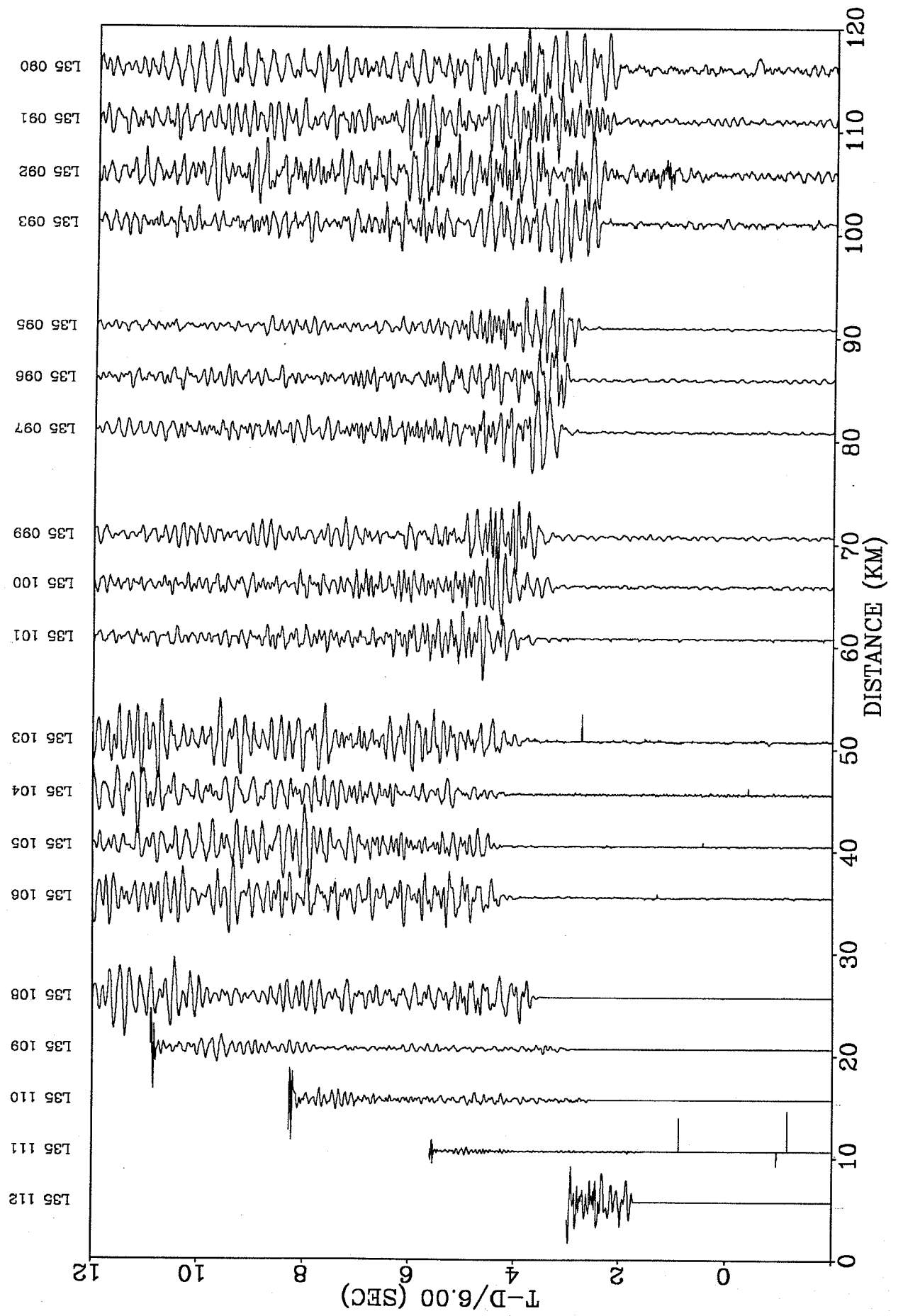


Fig. 6B - Seismic section JL shot L35



Line: I07 Shot: L36
 ** Ice Island 86 ** Field shot point: K2 Section: JL
 Shot time: 1986 APR. 21 22:46: 0.00
 Lat.: 81.00211 N, Long.: 97.50620 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
090	81.42408	95.37669	0.0	59.50	36.58	22:44:58.00	0.100	spz	LB09	120
091	81.38885	95.56665	0.0	54.44	36.56	22:44:58.00	0.100	spz	LB01	120
092	81.35276	95.75818	0.0	49.29	36.54	22:44:58.00	0.100	spz	LB0C	120
093	81.31799	95.93208	0.0	44.43	36.67	22:44:58.00	0.100	spz	LB0E	120
095	81.24686	96.29619	0.0	34.38	36.74	22:44:58.00	0.100	spz	LB08	120
096	81.21096	96.47308	0.0	29.36	36.90	22:44:58.00	0.100	spz	LB03	120
097	81.17472	96.65019	0.0	24.31	37.12	22:44:58.00	0.100	spz	LB05	120
099	81.10201	97.00416	0.0	14.16	37.77	22:44:58.00	0.100	spz	LB06	120
100	81.06716	97.17278	0.0	9.30	38.46	22:44:58.00	0.100	spz	LB02	120
101	81.03056	97.35318	0.0	4.15	39.96	22:44:59.18	0.100	spz	BP17	120
102	80.99440	97.51242	0.0	0.87	187.20	22:44:59.18	0.100	spz	BP12	120
103	80.95847	97.68504	0.0	5.79	212.81	22:44:59.17	0.100	spz	BP22	120
104	80.92041	97.85110	0.0	10.95	213.73	22:44:59.18	0.100	spz	BP21	120
105	80.88332	98.02035	0.0	16.05	214.53	22:44:59.17	0.100	spz	BP16	120
107	80.81222	98.33850	0.0	25.80	215.12	22:44:59.18	0.100	spz	BP18	120
108	80.77502	98.50101	0.0	30.86	215.25	22:44:59.17	0.100	spz	BP11	120
106	80.84738	98.19391	0.0	21.10	215.38	22:44:59.18	0.100	spz	BP19	120
109	80.73841	98.66409	0.0	35.89	215.44	22:44:59.18	0.100	spz	BP14	120
111	80.66454	98.98154	0.0	45.93	215.58	22:44:59.19	0.100	spz	BP13	120
112	80.62789	99.13711	0.0	50.91	215.64	22:44:59.18	0.100	spz	BP10	120
110	80.70264	98.83013	0.0	40.88	215.76	22:44:59.18	0.100	spz	BP20	120

Line: I07 Shot: L36
 ** Ice Island 86 ** Field shot point: K2 Section: JL
 Shot time: 1986 APR. 21 22:46: 0.00
 Lat.: 81.00211 N, Long.: 97.50620 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
102	80.99440	97.51242	0.0	0.87	187.20	22:44:59.18	0.100	spz	BP12	120
101	81.03056	97.35318	0.0	4.15	39.96	22:44:59.18	0.100	spz	BP17	120
103	80.95847	97.68504	0.0	5.79	212.81	22:44:59.17	0.100	spz	BP22	120
100	81.06716	97.17278	0.0	9.30	38.46	22:44:58.00	0.100	spz	LB02	120
104	80.92041	97.85110	0.0	10.95	213.73	22:44:59.18	0.100	spz	BP21	120
099	81.10201	97.00416	0.0	14.16	37.77	22:44:58.00	0.100	spz	LB06	120
105	80.88332	98.02035	0.0	16.05	214.53	22:44:59.17	0.100	spz	BP16	120
106	80.84738	98.19391	0.0	21.10	215.38	22:44:59.18	0.100	spz	BP19	120
097	81.17472	96.65019	0.0	24.31	37.12	22:44:58.00	0.100	spz	LB05	120
107	80.81222	98.33850	0.0	25.80	215.12	22:44:59.18	0.100	spz	BP18	120
096	81.21096	96.47308	0.0	29.36	36.90	22:44:58.00	0.100	spz	LB03	120
108	80.77502	98.50101	0.0	30.86	215.25	22:44:59.17	0.100	spz	BP11	120
095	81.24686	96.29619	0.0	34.38	36.74	22:44:58.00	0.100	spz	LB08	120
109	80.73841	98.66409	0.0	35.89	215.44	22:44:59.18	0.100	spz	BP14	120
110	80.70264	98.83013	0.0	40.88	215.76	22:44:59.18	0.100	spz	BP20	120
093	81.31799	95.93208	0.0	44.43	36.67	22:44:58.00	0.100	spz	LB0E	120
111	80.66454	98.98154	0.0	45.93	215.58	22:44:59.19	0.100	spz	BP13	120
092	81.35276	95.75818	0.0	49.29	36.54	22:44:58.00	0.100	spz	LB0C	120
112	80.62789	99.13711	0.0	50.91	215.64	22:44:59.18	0.100	spz	BP10	120
091	81.38885	95.56665	0.0	54.44	36.56	22:44:58.00	0.100	spz	LB01	120
090	81.42408	95.37669	0.0	59.50	36.58	22:44:58.00	0.100	spz	LB09	120

Fig. 7A - Water wave section JL shot L36

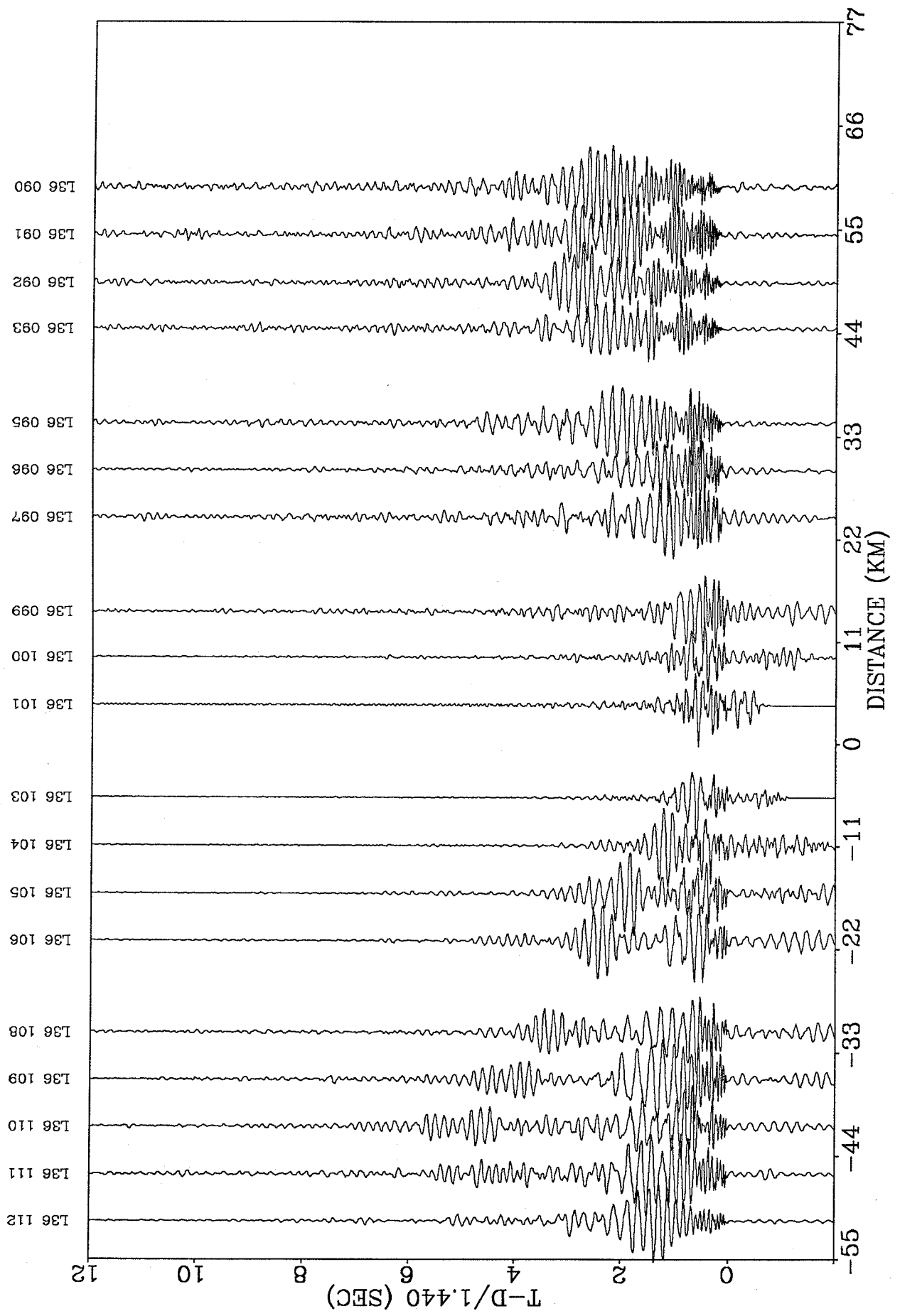
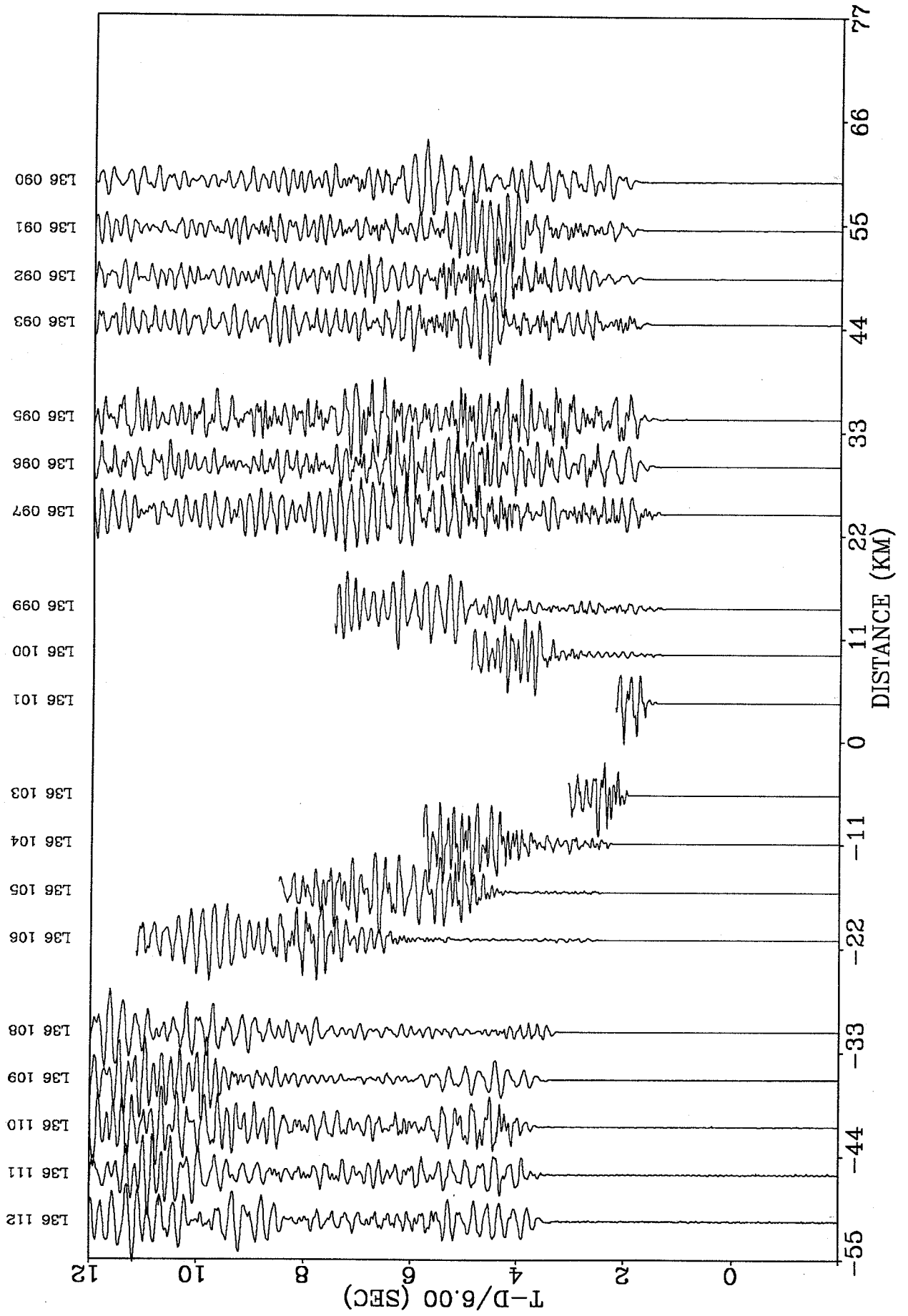


Fig. 7B - Seismic section JL shot L36



Line: I07 Shot: L37
 ** Ice Island 86 ** Field shot point: L2 Section: JL
 Shot time: 1986 APR. 21 23: 1: 0.00
 Lat.: 80.62256 N, Long.: 99.25934 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
112	80.62789	99.13711	0.0	2.30	74.95	22:59:59.17	0.100	spz	BP10	120
111	80.66454	98.98154	0.0	6.89	46.96	22:59:59.18	0.100	spz	BP13	120
110	80.70264	98.83013	0.0	11.85	40.80	22:59:59.19	0.100	spz	BP20	120
109	80.73841	98.66409	0.0	16.83	39.47	22:59:59.17	0.100	spz	BP14	120
108	80.77502	98.50101	0.0	21.85	38.43	22:59:59.18	0.100	spz	BP11	120
107	80.81222	98.33850	0.0	26.90	37.62	22:59:59.18	0.100	spz	BP18	120
106	80.84738	98.19391	0.0	31.58	36.82	22:59:59.18	0.100	spz	BP19	120
105	80.88332	98.02035	0.0	36.64	36.76	22:59:59.18	0.100	spz	BP16	120
104	80.92041	97.85110	0.0	41.74	36.48	22:59:59.18	0.100	spz	BP21	120
103	80.95847	97.68504	0.0	46.89	36.10	22:59:59.17	0.100	spz	BP22	120
102	80.99440	97.51242	0.0	51.91	36.03	22:59:59.19	0.100	spz	BP12	120
101	81.03056	97.35318	0.0	56.81	35.75	22:59:59.17	0.100	spz	BP17	120
100	81.06716	97.17278	0.0	61.96	35.73	22:59:58.00	0.100	spz	LB02	120
099	81.10201	97.00416	0.0	66.82	35.65	22:59:58.00	0.100	spz	LB06	120
097	81.17472	96.65019	0.0	76.97	35.50	22:59:58.00	0.100	spz	LB05	120
096	81.21096	96.47308	0.0	82.02	35.41	22:59:58.00	0.100	spz	LB03	120
095	81.24686	96.29619	0.0	87.04	35.34	22:59:58.00	0.100	spz	LB08	120
093	81.31799	95.93208	0.0	97.09	35.27	22:59:58.00	0.100	spz	LB0E	120
092	81.35276	95.75818	0.0	101.95	35.19	22:59:58.00	0.100	spz	LB0C	120
091	81.38885	95.56665	-0.0	107.10	35.18	22:59:58.00	0.100	spz	LB01	120
090	81.42408	95.37669	0.0	112.16	35.18	22:59:58.00	0.100	spz	LB09	120

Fig. 8A - Water wave section JL shot L37

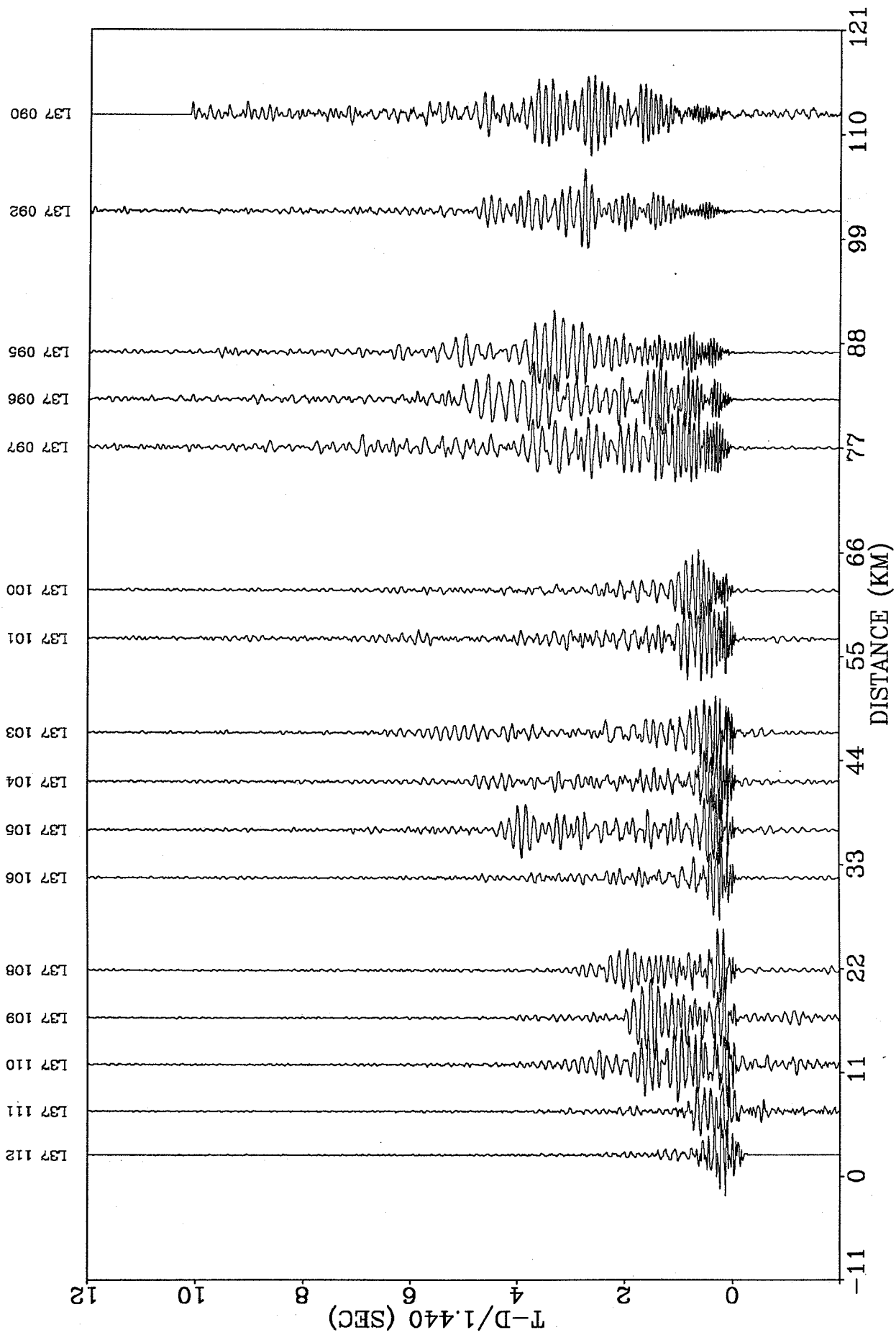
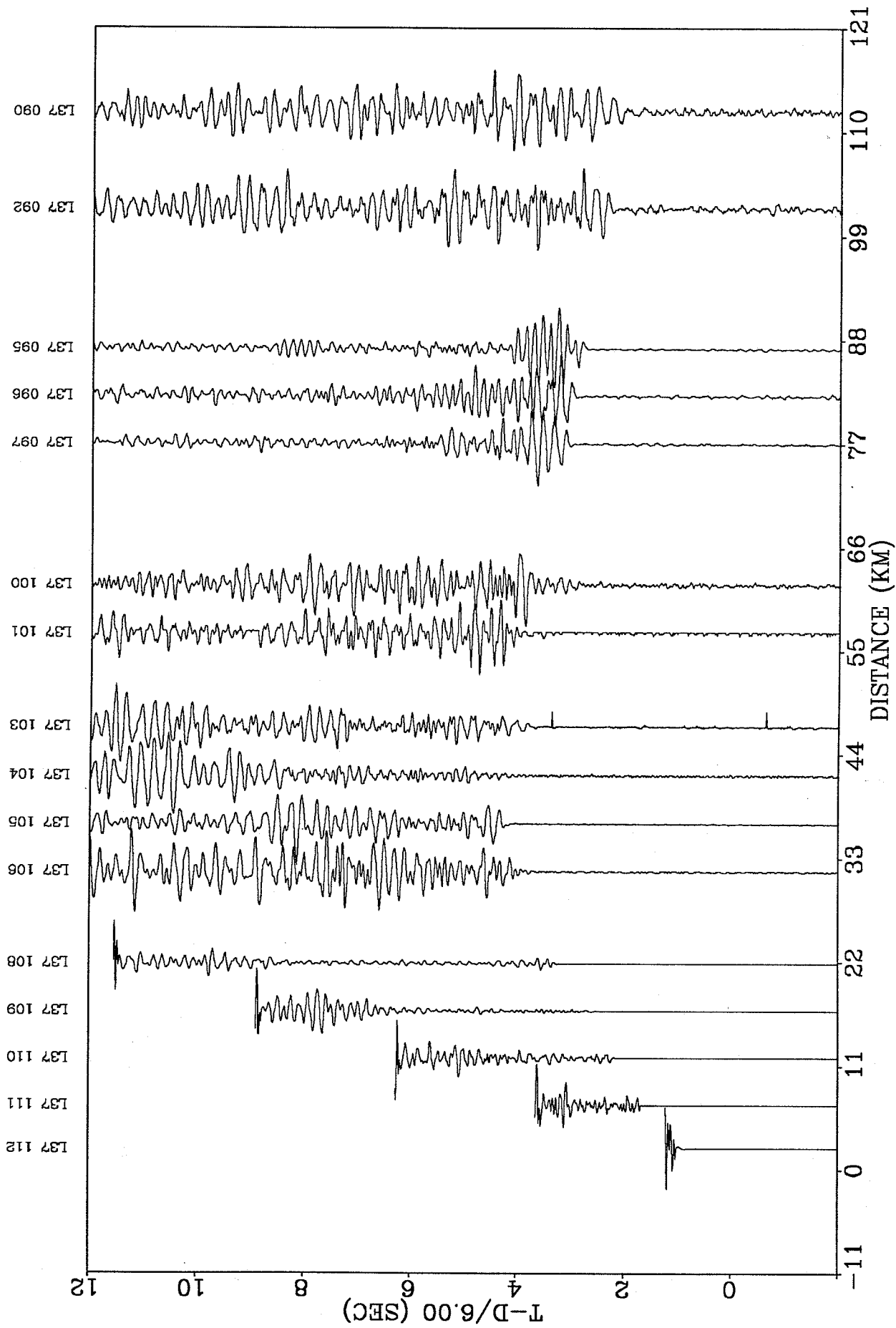


Fig. 8B - Seismic section JL shot L37



Line: I07 Shot: N33

** Ice Island 86 ** Field shot point: N1 Section: JL

Shot time: 1986 APR. 21 21:30: 0.00

Lat.: 79.68967 N, Long.: 102.86378 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 489.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
112	80.62789	99.13711	0.0	126.59	32.35	21:29:59.18	0.100	spz	BP10	120
111	80.66454	98.98154	0.0	131.56	32.30	21:29:59.18	0.100	spz	BP13	120
110	80.70264	98.83013	0.0	136.61	32.17	21:30: 7.18	0.100	spz	BP20	120
109	80.73841	98.66409	0.0	141.60	32.19	21:29:59.17	0.100	spz	BP14	120
108	80.77502	98.50101	0.0	146.62	32.16	21:29:59.18	0.100	spz	BP11	120
107	80.81222	98.33850	0.0	151.69	32.11	21:29:59.17	0.100	spz	BP18	120
106	80.84738	98.19391	0.0	156.38	32.01	21:29:59.17	0.100	spz	BP19	120
105	80.88332	98.02035	0.0	161.43	32.03	21:29:59.17	0.100	spz	BP16	120
104	80.92041	97.85110	0.0	166.54	32.00	21:29:59.17	0.100	spz	BP21	120
103	80.95847	97.68504	0.0	171.69	31.92	21:29:59.17	0.100	spz	BP22	120
102	80.99440	97.51242	0.0	176.72	31.92	21:29:59.17	0.100	spz	BP12	120
101	81.03056	97.35318	0.0	181.61	31.84	21:29:59.17	0.100	spz	BP17	120
100	81.06716	97.17278	0.0	186.76	31.85	21:29:58.00	0.100	spz	LB02	120
099	81.10201	97.00416	0.0	191.63	31.83	21:29:58.00	0.100	spz	LB06	120
097	81.17472	96.65019	0.0	201.78	31.79	21:29:58.00	0.100	spz	LB05	120
096	81.21096	96.47308	0.0	206.83	31.76	21:29:58.00	0.100	spz	LB03	120
095	81.24686	96.29619	0.0	211.85	31.73	21:29:58.00	0.100	spz	LB08	120
093	81.31799	95.93208	0.0	221.90	31.70	21:29:58.00	0.100	spz	LB0E	120
092	81.35276	95.75818	0.0	226.76	31.67	21:29:58.00	0.100	spz	LB0C	120
091	81.38885	95.56665	0.0	231.91	31.66	21:29:58.00	0.100	spz	LB01	120
090	81.42408	95.37669	0.0	236.96	31.66	21:29:58.00	0.100	spz	LB09	120

Fig. 9A - Water wave section JL shot N33

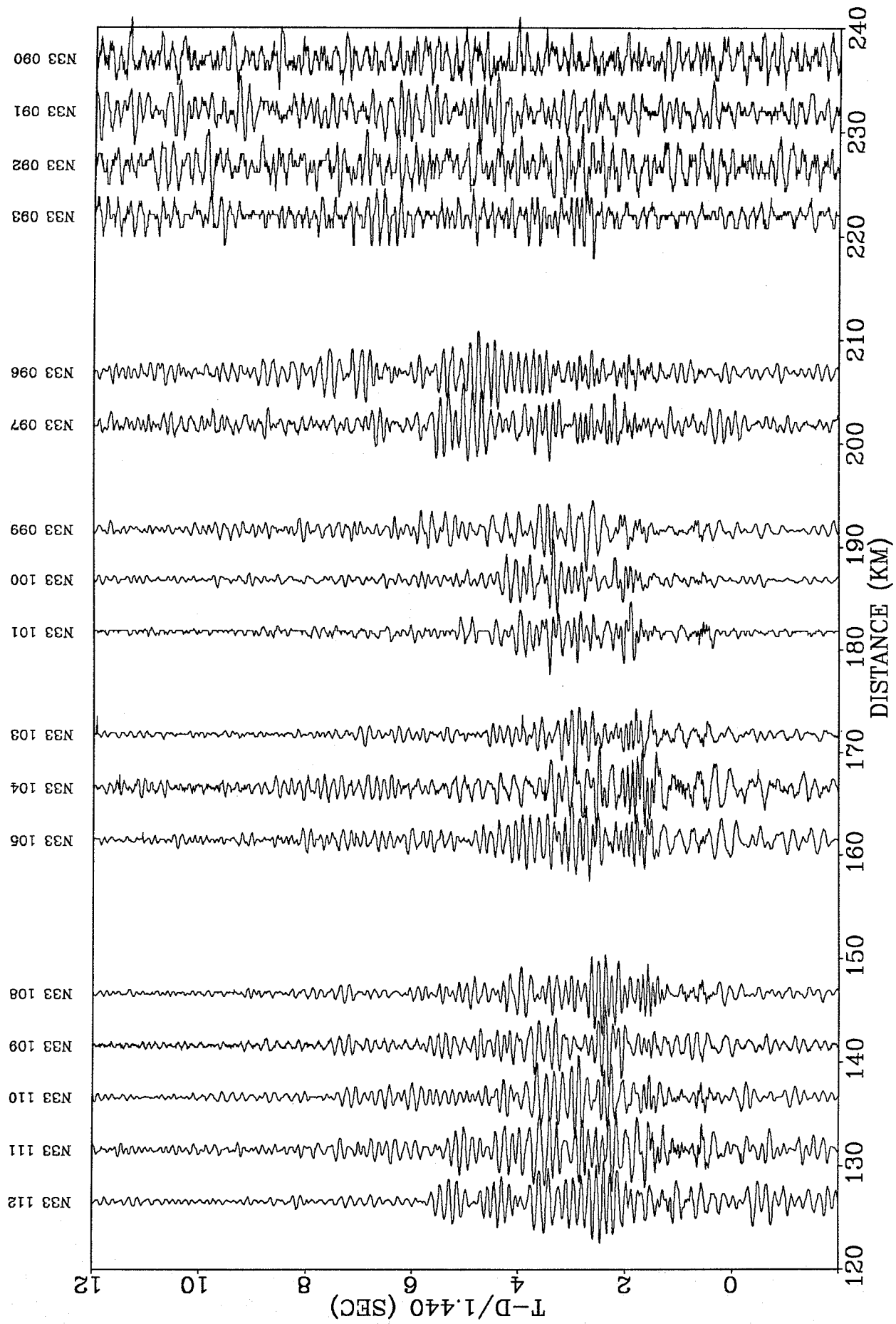
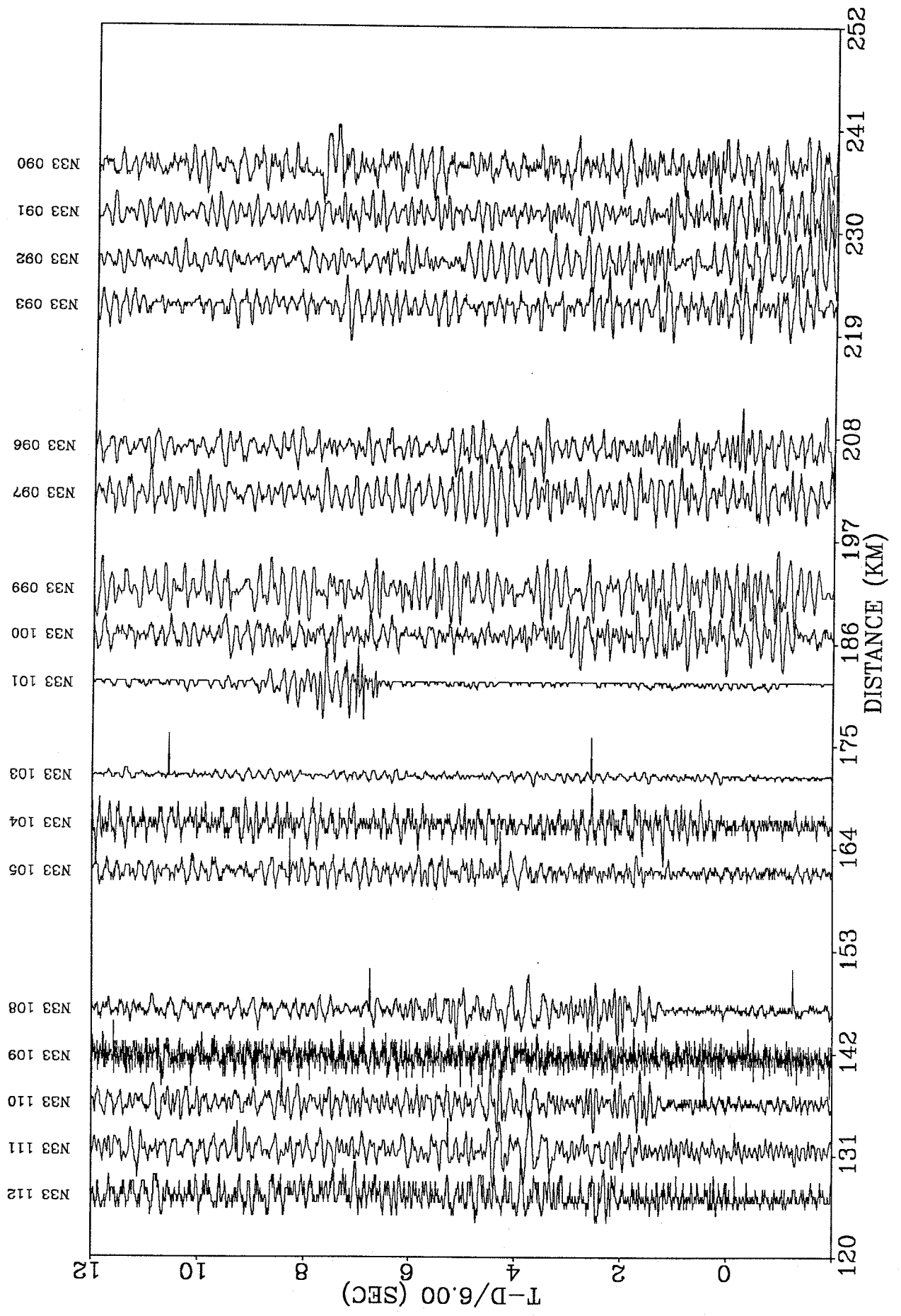


Fig. 9B - Seismic section JL shot N33



Line: I08 Shot: H47
 ** Ice Island 86 ** Field shot point: H1 Section: LN
 Shot time: 1986 APR. 24 21:30: 0.00
 Lat.: 81.72775 N, Long.: 93.54150 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 897.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
113	80.59712	99.36617	0.0	160.88	221.27	21:29:58.00	0.100	spz	LB0E	120
114	80.55644	99.54912	0.0	166.52	221.30	21:29:58.00	0.100	spz	LB0A	120
115	80.51563	99.71937	0.0	172.05	221.27	21:29:58.00	0.100	spz	LB01	120
116	80.47595	99.88803	0.0	177.46	221.27	21:29:58.00	0.100	spz	LB02	120
118	80.39317	100.22771	0.0	188.65	221.24	21:29:58.00	0.100	spz	LB0C	120
119	80.35228	100.39626	0.0	194.20	221.24	21:29:58.00	0.100	spz	LB09	120
120	80.30638	100.58295	0.0	200.40	221.24	21:29:58.00	0.100	spz	LB03	120
121	80.27037	100.72495	0.0	205.23	221.23	21:29:58.00	0.100	spz	LB08	120
122	80.22760	100.89626	0.0	211.00	221.23	21:29:58.00	0.100	spz	LB05	120
123	80.18805	101.04648	0.0	216.26	221.21	21:29:58.00	0.100	spz	LB06	120
124	80.15248	101.18259	0.0	221.01	221.19	21:29:59.16	0.100	spz	BP19	120
125	80.10811	101.35511	0.0	226.96	221.20	21:29:59.19	0.100	spz	BP18	120
126	80.06000	101.46667	0.0	232.63	220.91	21:29:59.17	0.100	spz	BP20	120
127	80.02255	101.66920	0.0	238.27	221.15	21:29:59.18	0.100	spz	BP17	120
128	79.98223	101.83915	0.0	243.84	221.22	21:29:59.17	0.100	spz	BP21	120
129	79.93849	101.99180	0.0	249.56	221.19	21:29:59.17	0.100	spz	BP16	120
130	79.89472	102.14445	0.0	255.28	221.15	21:29:59.18	0.100	spz	BP12	120
131	79.85278	102.29444	0.0	260.81	221.15	21:29:59.17	0.100	spz	BP10	120
132	79.81142	102.44560	0.0	266.31	221.15	21:29:59.17	0.100	spz	BP11	120
133	79.76777	102.60110	0.0	272.07	221.15	21:29:59.17	0.100	spz	BP14	120
134	79.76838	102.60956	0.0	272.11	221.19	21:29:59.16	0.100	spz	BP13	120

Fig. 10A - Water wave section LN shot H47

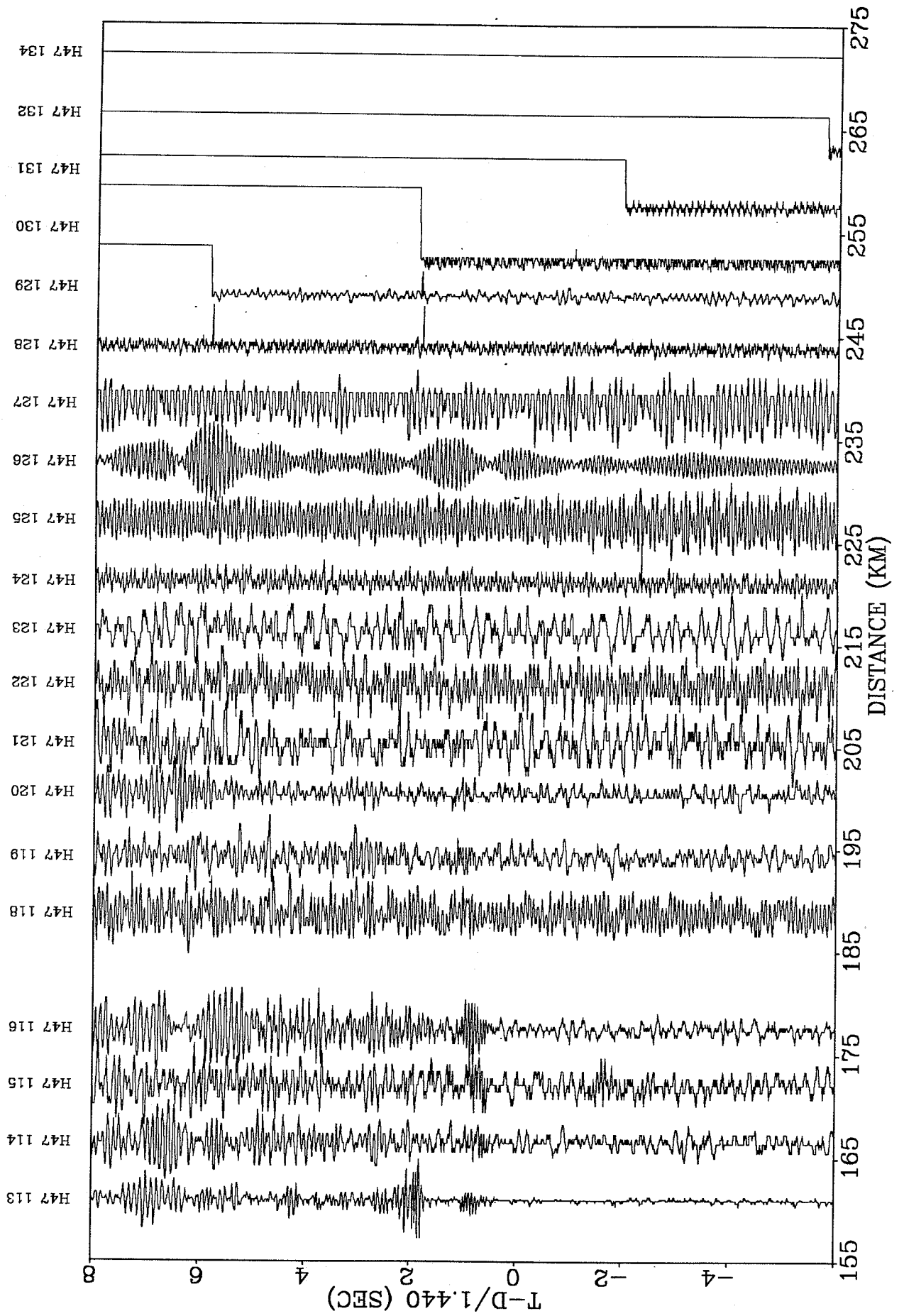
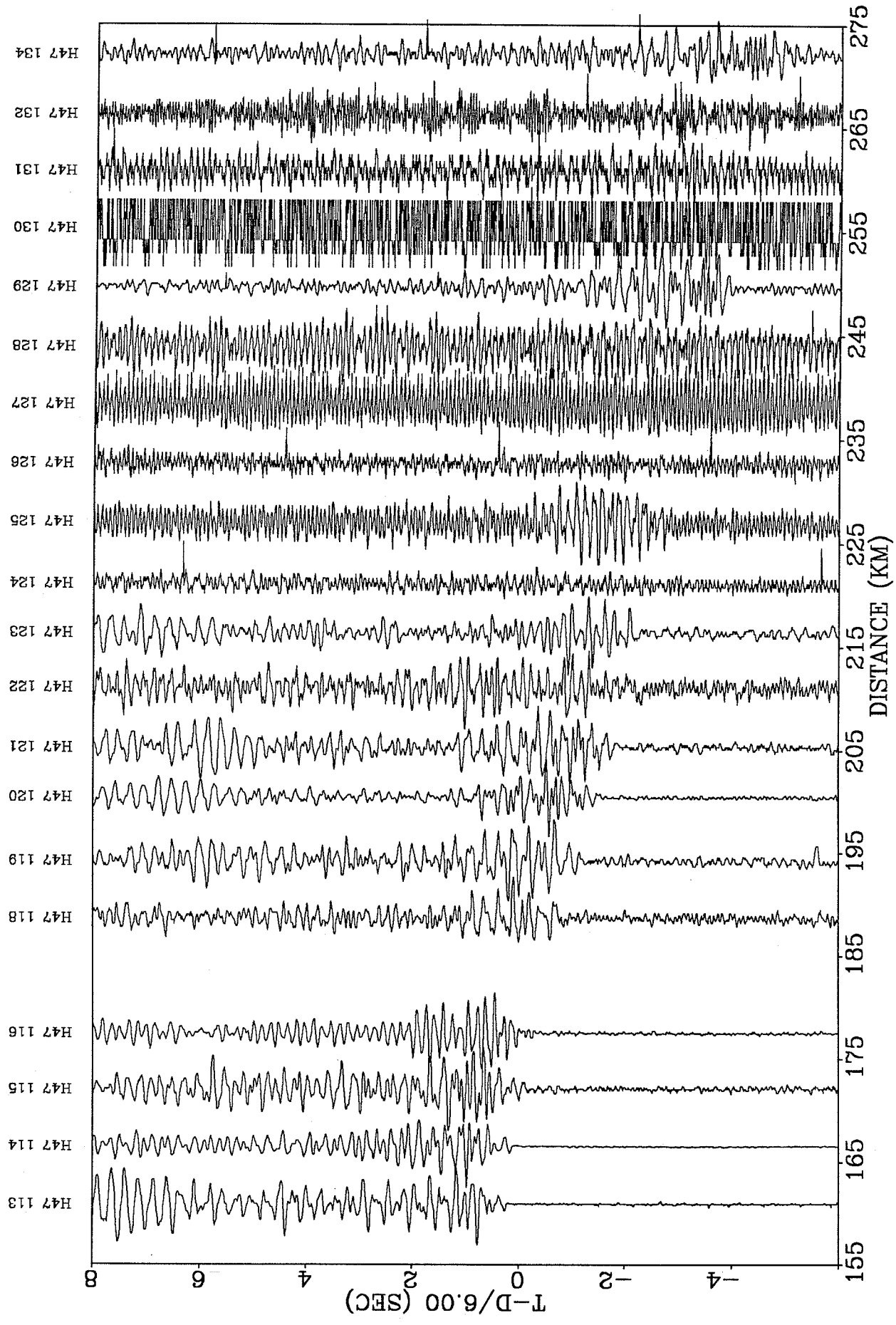


Fig. 10B - Seismic section LN shot H47



Line: I08 Shot: J46
 ** Ice Island 86 ** Field shot point: J2 Section: LN
 Shot time: 1986 APR. 24 21: 0: 0.00
 Lat.: 81.44404 N, Long.: 95.27661 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 734.4 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
113	80.59712	99.36617	0.0	118.38	219.04	20:59:58.00	0.100	spz	LB0E	120
114	80.55644	99.54912	0.0	124.02	219.11	20:59:58.00	0.100	spz	LB0A	120
115	80.51563	99.71937	0.0	129.55	219.09	20:59:58.00	0.100	spz	LB01	120
116	80.47595	99.88803	0.0	134.96	219.11	20:59:58.00	0.100	spz	LB02	120
118	80.39317	100.22771	0.0	146.15	219.10	20:59:58.00	0.100	spz	LB0C	120
119	80.35228	100.39626	0.0	151.70	219.12	20:59:58.00	0.100	spz	LB09	120
120	80.30638	100.58295	0.0	157.90	219.13	20:59:58.00	0.100	spz	LB03	120
121	80.27037	100.72495	0.0	162.73	219.13	20:59:58.00	0.100	spz	LB08	120
122	80.22760	100.89626	0.0	168.50	219.15	20:59:58.00	0.100	spz	LB05	120
123	80.18805	101.04648	0.0	173.76	219.13	20:59:58.00	0.100	spz	LB06	120
124	80.15248	101.18259	0.0	178.51	219.12	20:59:59.18	0.100	spz	BP19	120
125	80.10811	101.35511	0.0	184.46	219.14	20:59:59.17	0.100	spz	BP18	120
126	80.06000	101.46667	0.0	190.14	218.79	20:59:59.16	0.100	spz	BP20	120
127	80.02255	101.66920	0.0	195.77	219.10	20:59:59.19	0.100	spz	BP17	120
128	79.98223	101.83915	0.0	201.34	219.20	20:59:59.18	0.100	spz	BP21	120
129	79.93849	101.99180	0.0	207.06	219.16	20:59:59.17	0.100	spz	BP16	120
130	79.89472	102.14445	0.0	212.78	219.13	20:59:59.18	0.100	spz	BP12	120
131	79.85278	102.29444	0.0	218.31	219.13	20:59:59.17	0.100	spz	BP10	120
132	79.81142	102.44560	0.0	223.81	219.15	20:59:59.18	0.100	spz	BP11	120
133	79.76777	102.60110	0.0	229.58	219.15	20:59:59.18	0.100	spz	BP14	120
134	79.76838	102.60956	0.0	229.61	219.20	20:59:59.19	0.100	spz	BP13	120

Fig. 11A - Water wave section LN shot J46

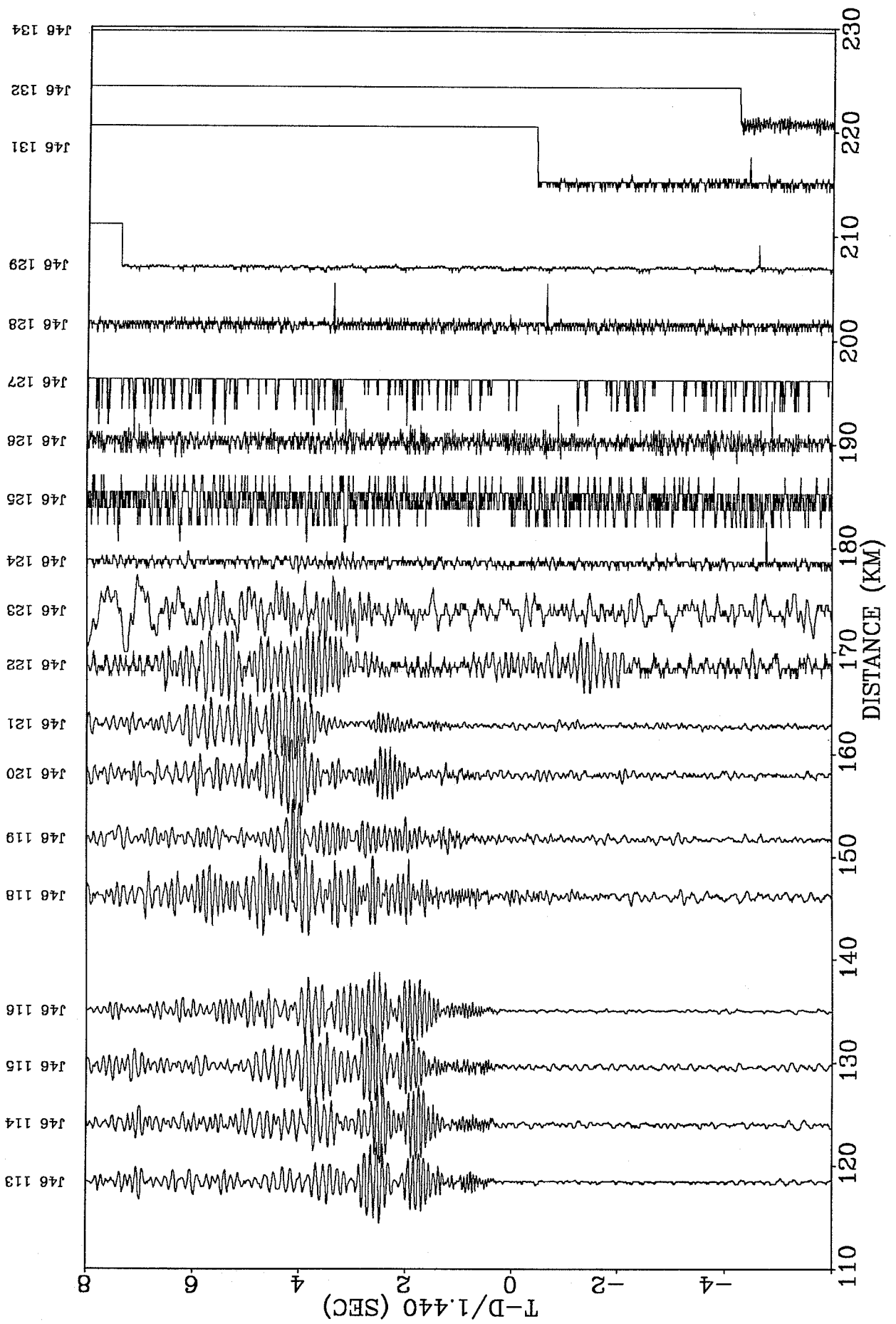
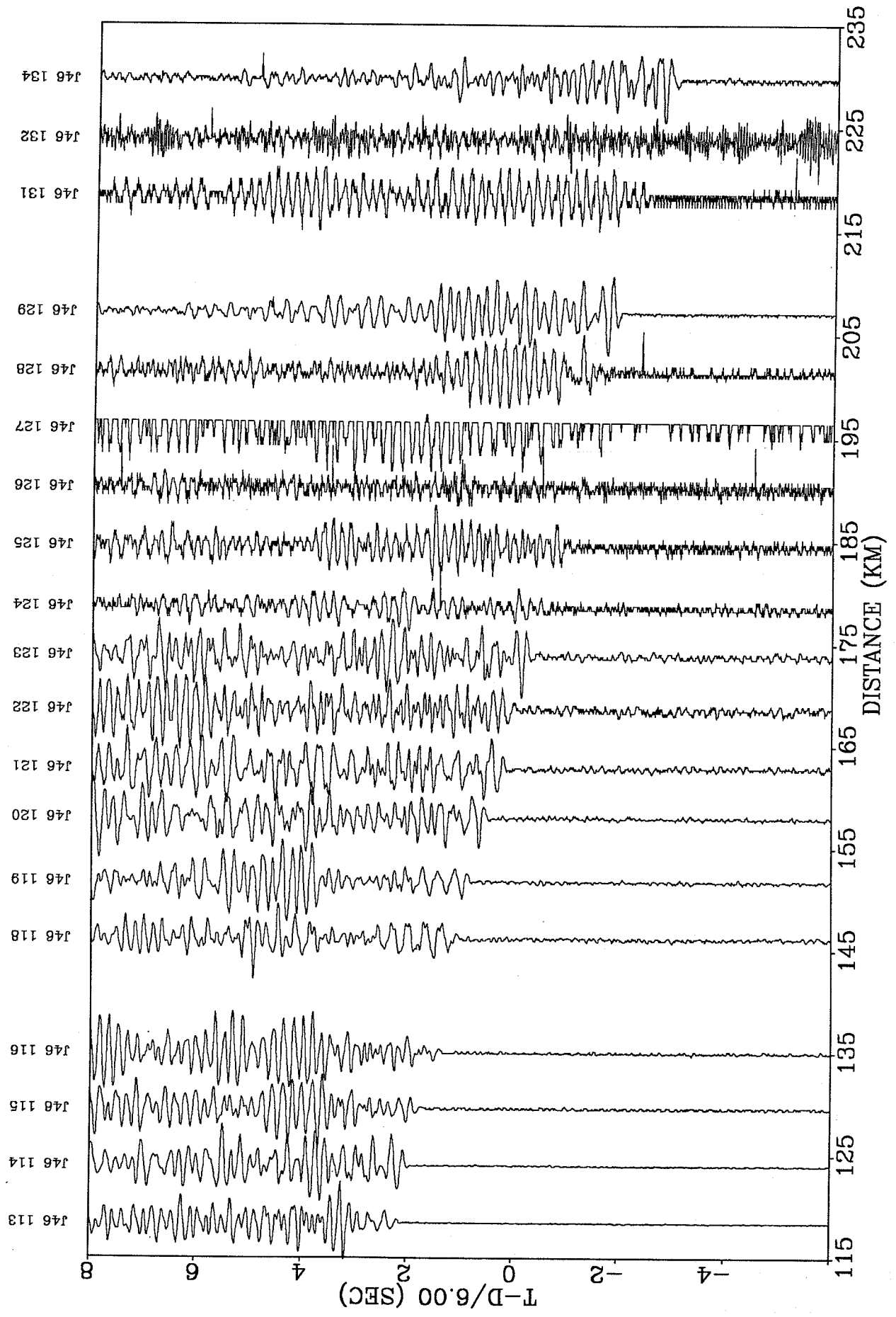


Fig. 11B - Seismic section LN shot J46



Line: I08 Shot: K44
 ** Ice Island 86 ** Field shot point: K2 Section: LN
 Shot time: 1986 APR. 24 20:15: 0.00
 Lat.: 81.00216 N, Long.: 97.50597 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 489.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
113	80.59712	99.36617	0.0	56.11	217.22	20:14:58.00	0.100	spz	LBOE	120
114	80.55644	99.54912	0.0	61.75	217.31	20:14:58.00	0.100	spz	LBOA	120
115	80.51563	99.71937	0.0	67.28	217.25	20:14:58.00	0.100	spz	LB01	120
116	80.47595	99.88803	0.0	72.69	217.26	20:14:58.00	0.100	spz	LB02	120
118	80.39317	100.22771	0.0	83.88	217.20	20:14:58.00	0.100	spz	LB0C	120
119	80.35228	100.39626	0.0	89.43	217.21	20:14:58.00	0.100	spz	LB09	120
120	80.30638	100.58295	0.0	95.64	217.21	20:14:58.00	0.100	spz	LB03	120
121	80.27037	100.72495	0.0	100.47	217.19	20:14:58.00	0.100	spz	LB08	120
122	80.22760	100.89626	0.0	106.24	217.20	20:14:58.00	0.100	spz	LB05	120
123	80.18805	101.04648	0.0	111.50	217.16	20:14:58.00	0.100	spz	LB06	120
124	80.15248	101.18259	0.0	116.24	217.14	20:14:59.17	0.100	spz	BP19	120
125	80.10811	101.35511	0.0	122.19	217.15	20:14:59.17	0.100	spz	BP18	120
126	80.06000	101.46667	0.0	127.87	216.64	20:14:59.17	0.100	spz	BP20	120
127	80.02255	101.66920	0.0	133.50	217.08	20:14:59.19	0.100	spz	BP17	120
128	79.98223	101.83915	0.0	139.07	217.22	20:14:59.17	0.100	spz	BP21	120
129	79.93849	101.99180	0.0	144.79	217.15	20:14:59.17	0.100	spz	BP16	120
130	79.89472	102.14445	0.0	150.51	217.11	20:14:59.17	0.100	spz	BP12	120
131	79.85278	102.29444	0.0	156.05	217.10	20:14:59.19	0.100	spz	BP10	120
132	79.81142	102.44560	0.0	161.54	217.12	20:14:59.17	0.100	spz	BP11	120
133	79.76777	102.60110	0.0	167.31	217.12	20:14:59.18	0.100	spz	BP14	120
134	79.76838	102.60956	0.0	167.34	217.18	20:14:59.18	0.100	spz	BP13	120

Fig. 12A - Water wave section LN shot K44

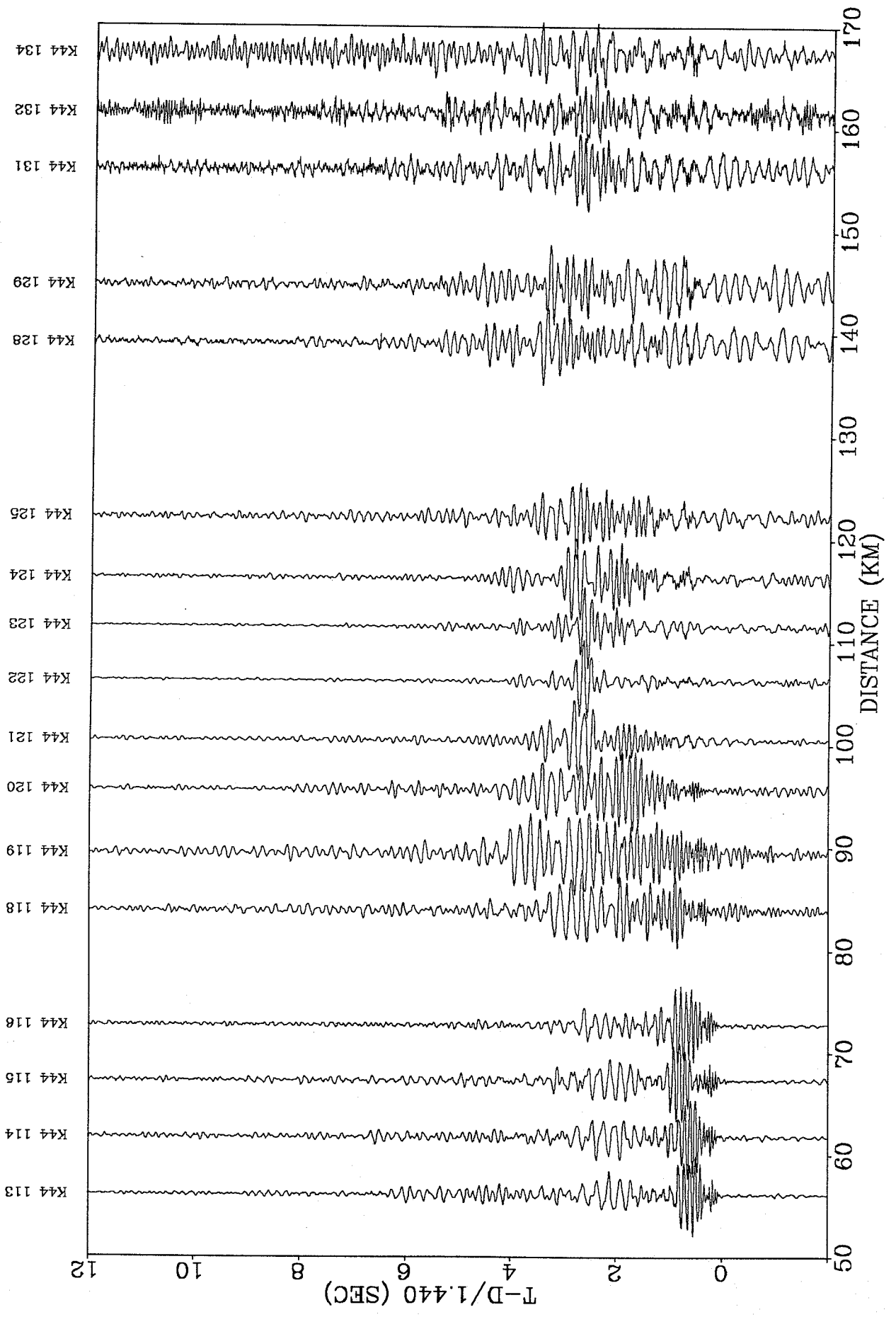
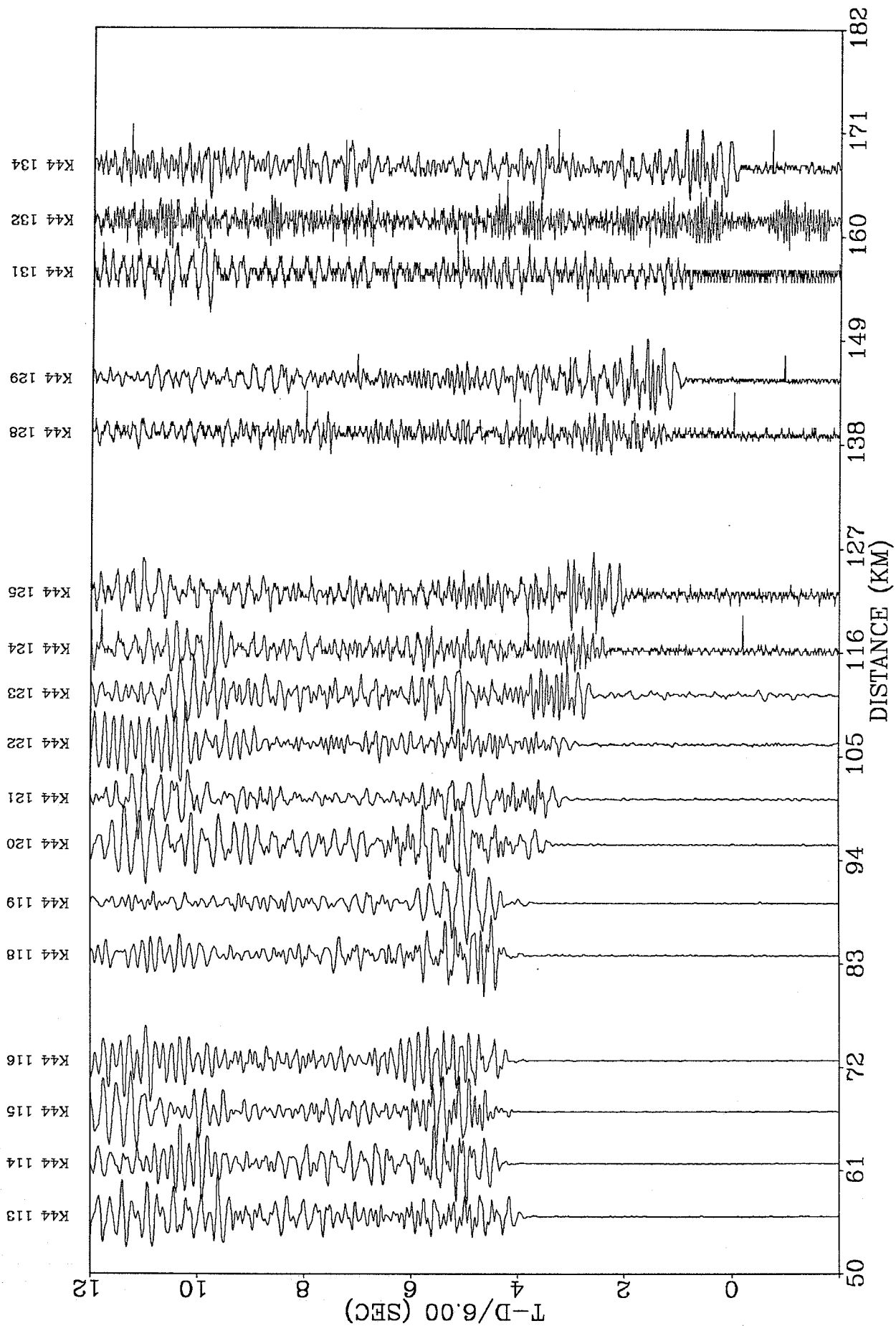


Fig. 12B. - Seismic section LN shot K44



Line: I08 Shot: L41
 ** Ice Island 86 ** Field shot point: L1N Section: LN
 Shot time: 1986 APR. 24 19:15: 0.00
 Lat.: 80.58585 N, Long.: 99.30566 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
113	80.59712	99.36617	0.0	1.68	318.77	19:14:58.00	0.100	spz	LB0E	120
114	80.55644	99.54912	0.0	5.53	233.73	19:14:58.00	0.100	spz	LB0A	120
115	80.51563	99.71937	0.0	10.91	224.25	19:14:58.00	0.100	spz	LB01	120
116	80.47595	99.88803	0.0	16.28	221.38	19:14:58.00	0.100	spz	LB02	120
118	80.39317	100.22771	0.0	27.43	218.79	19:14:58.00	0.100	spz	LB0C	120
119	80.35228	100.39626	0.0	32.97	218.25	19:14:58.00	0.100	spz	LB09	120
120	80.30638	100.58295	0.0	39.17	217.82	19:14:58.00	0.100	spz	LB03	120
121	80.27037	100.72495	0.0	44.00	217.51	19:14:58.00	0.100	spz	LB08	120
122	80.22760	100.89626	0.0	49.76	217.29	19:14:58.00	0.100	spz	LB05	120
123	80.18805	101.04648	0.0	55.02	217.02	19:14:58.00	0.100	spz	LB06	120
124	80.15248	101.18259	0.0	59.76	216.86	19:14:59.19	0.100	spz	BP19	120
125	80.10811	101.35511	0.0	65.71	216.75	19:14:59.18	0.100	spz	BP18	120
126	80.06000	101.46667	0.0	71.36	215.71	19:14:59.17	0.100	spz	BP20	120
127	80.02255	101.66920	0.0	77.01	216.42	19:14:59.19	0.100	spz	BP17	120
128	79.98223	101.83915	0.0	82.59	216.57	19:14:59.18	0.100	spz	BP21	120
129	79.93849	101.99180	0.0	88.30	216.40	19:14:59.19	0.100	spz	BP16	120
130	79.89472	102.14445	0.0	94.02	216.26	19:14:59.16	0.100	spz	BP12	120
131	79.85278	102.29444	0.0	99.56	216.19	19:14:59.17	0.100	spz	BP10	120
132	79.81142	102.44560	0.0	105.05	216.17	19:14:59.17	0.100	spz	BP11	120
133	79.76777	102.60110	0.0	110.82	216.14	19:14:59.17	0.100	spz	BP14	120
134	79.76838	102.60956	0.0	110.85	216.23	19:14:59.17	0.100	spz	BP13	120

Fig. 13A - Water wave section LN shot L41

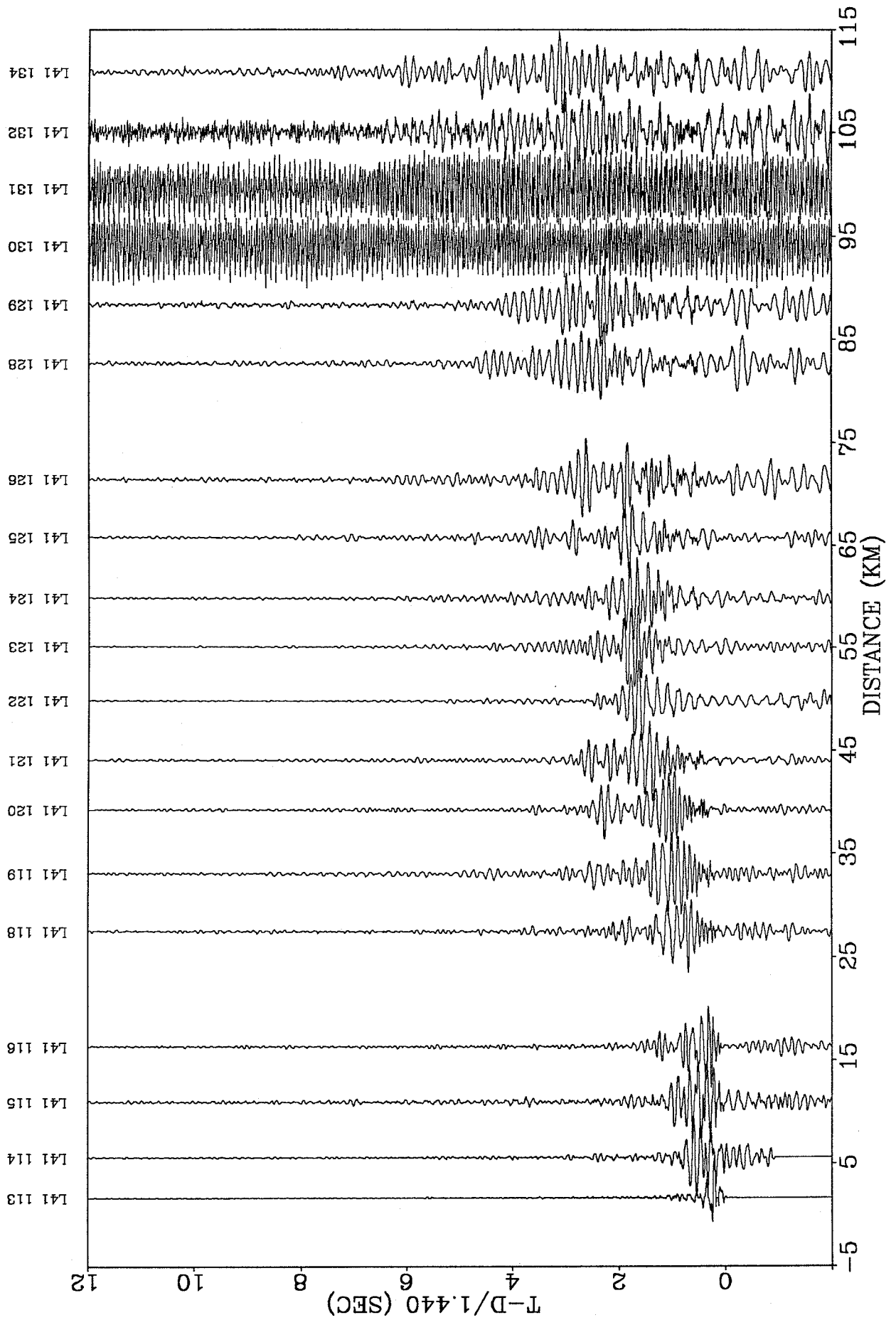
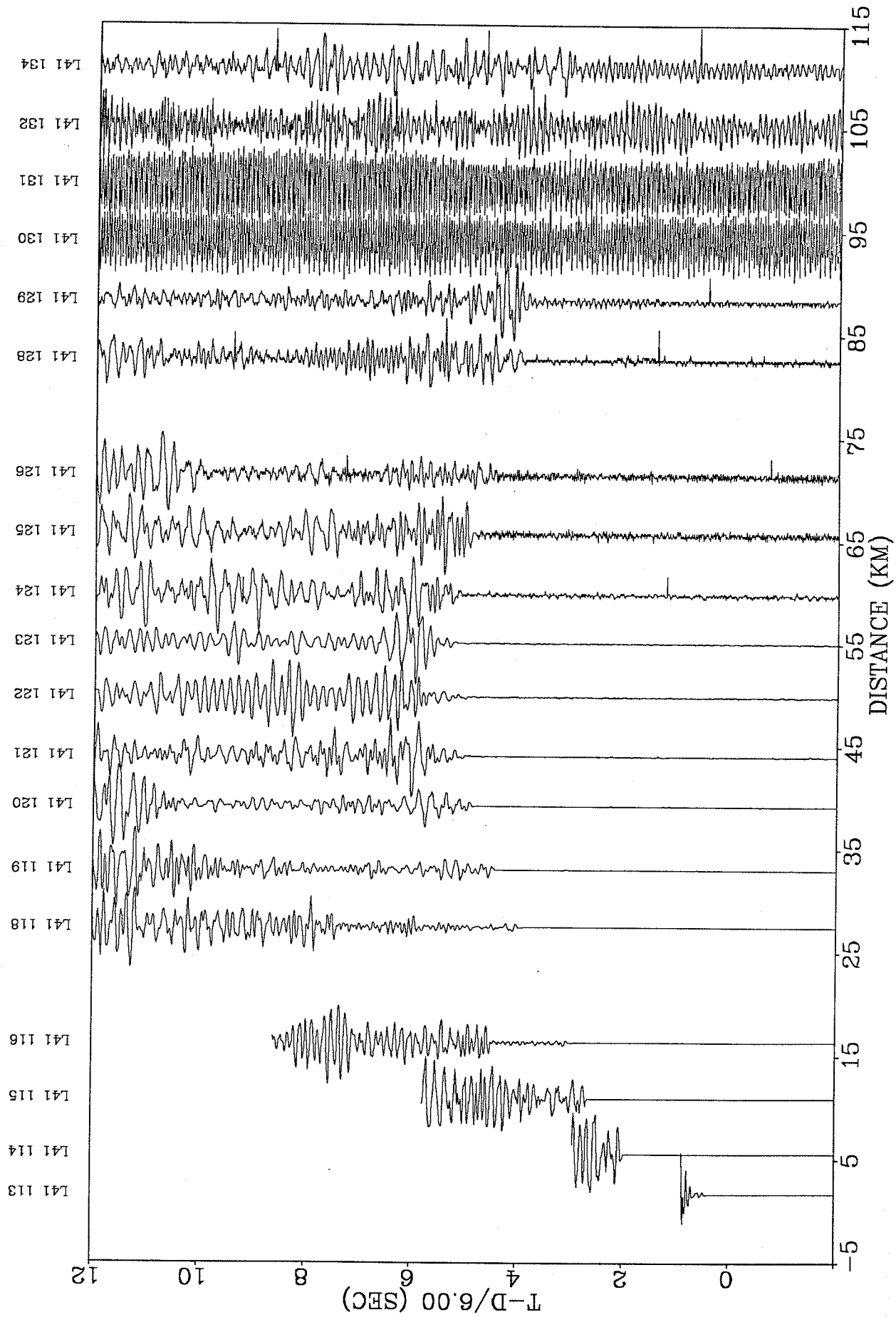


Fig. 13B - Seismic section LN shot L41



Line: I08 Shot: L42
 ** Ice Island 86 ** Field shot point: L2 Section: LN
 Shot time: 1986 APR. 24 19:30: 0.00
 Lat.: 80.62266 N, Long.: 99.26037 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
113	80.59712		99.36617		0.0	3.44	214.12	19:29:58.00	0.100	spz	LBOE	120	
114	80.55644		99.54912		0.0	9.08	215.64	19:29:58.00	0.100	spz	LBOA	120	
115	80.51563		99.71937		0.0	14.61	215.33	19:29:58.00	0.100	spz	LB01	120	
116	80.47595		99.88803		0.0	20.02	215.40	19:29:58.00	0.100	spz	LB02	120	
118	80.39317		100.22771		0.0	31.21	215.29	19:29:58.00	0.100	spz	LB0C	120	
119	80.35228		100.39626		0.0	36.76	215.34	19:29:58.00	0.100	spz	LB09	120	
120	80.30638		100.58295		0.0	42.96	215.37	19:29:58.00	0.100	spz	LB03	120	
121	80.27037		100.72495		0.0	47.79	215.33	19:29:58.00	0.100	spz	LB08	120	
122	80.22760		100.89626		0.0	53.57	215.37	19:29:58.00	0.100	spz	LB05	120	
123	80.18805		101.04648		0.0	58.82	215.30	19:29:58.00	0.100	spz	LB06	120	
124	80.15248		101.18259		0.0	63.57	215.28	19:29:59.17	0.100	spz	BP19	120	
125	80.10811		101.35511		0.0	69.52	215.31	19:29:59.18	0.100	spz	BP18	120	
126	80.06000		101.46667		0.0	75.20	214.44	19:29:59.18	0.100	spz	BP20	120	
127	80.02255		101.66920		0.0	80.83	215.21	19:29:59.17	0.100	spz	BP17	120	
128	79.98223		101.83915		0.0	86.40	215.43	19:29:59.17	0.100	spz	BP21	120	
129	79.93849		101.99180		0.0	92.12	215.34	19:29:59.19	0.100	spz	BP16	120	
130	79.89472		102.14445		0.0	97.84	215.27	19:29:59.17	0.100	spz	BP12	120	
131	79.85278		102.29444		0.0	103.38	215.26	19:29:59.17	0.100	spz	BP10	120	
132	79.81142		102.44560		0.0	108.87	215.29	19:29:59.19	0.100	spz	BP11	120	
133	79.76777		102.60110		0.0	114.64	215.30	19:29:59.18	0.100	spz	BP14	120	
134	79.76838		102.60956		0.0	114.67	215.39	19:29:59.19	0.100	spz	BP13	120	

Fig. 14A - Water wave section LN shot L42

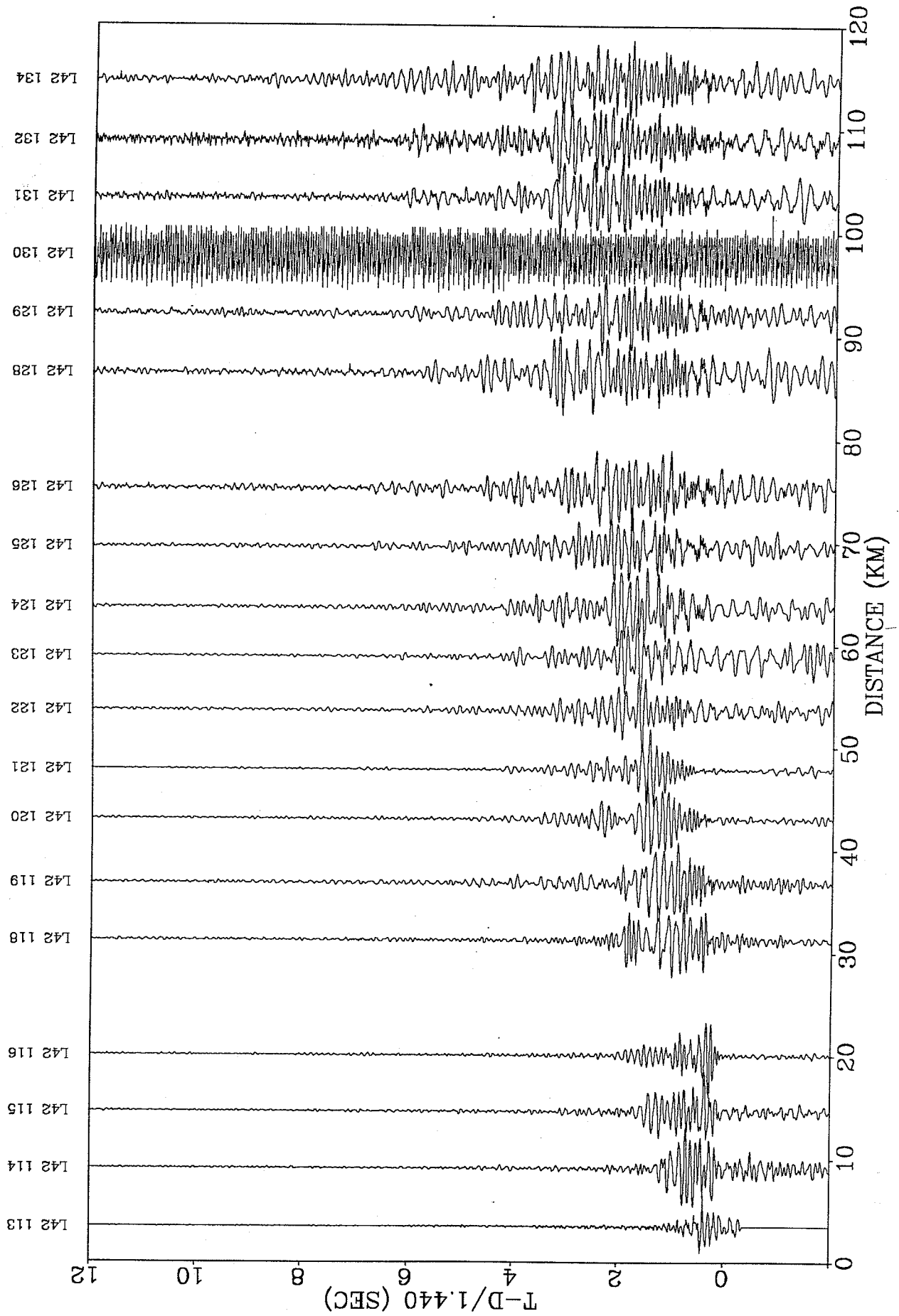
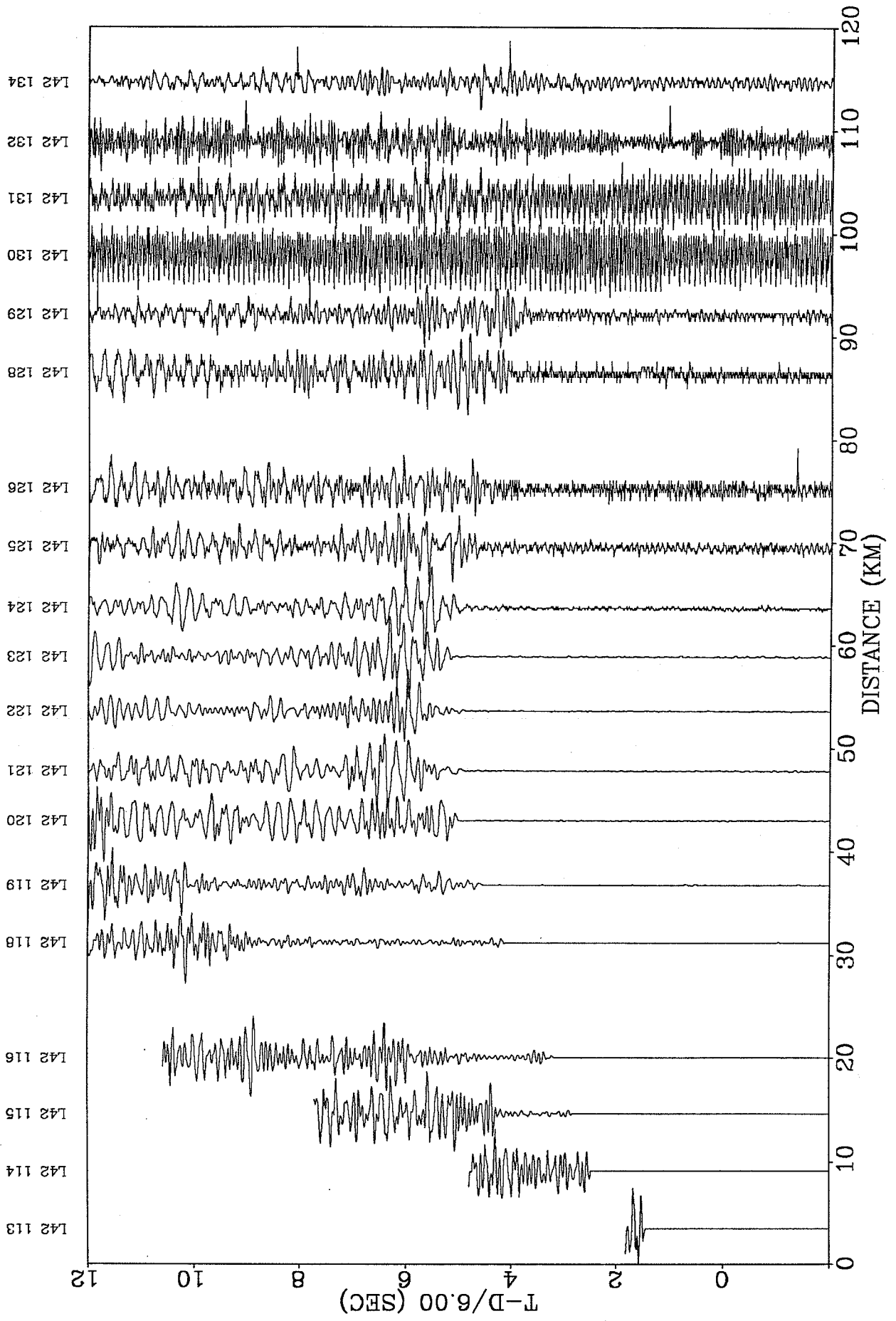


Fig. 14B - Seismic section LN shot L42



Line: I08 Shot: M48
 ** Ice Island 86 ** Field shot point: M1 Section: LN
 Shot time: 1986 APR. 24 21:46: 0.00
 Lat.: 80.17366 N, Long.: 101.11182 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 462.4 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
114	80.55644	99.54912	0.0	51.77	33.58	21:44:58.00	0.100	spz	LB0A	120
115	80.51563	99.71937	0.0	46.24	33.65	21:44:58.00	0.100	spz	LB01	120
113	80.59712	99.36617	0.0	57.41	33.69	21:44:58.00	0.100	spz	LB0E	120
116	80.47595	99.88803	0.0	40.83	33.63	21:44:58.00	0.100	spz	LB02	120
118	80.39317	100.22771	0.0	29.64	33.78	21:44:58.00	0.100	spz	LB0C	120
120	80.30638	100.58295	0.0	17.89	33.78	21:44:58.00	0.100	spz	LB03	120
119	80.35228	100.39626	0.0	24.09	33.77	21:44:58.00	0.100	spz	LB09	120
121	80.27037	100.72495	0.0	13.06	34.01	21:44:58.00	0.100	spz	LB08	120
122	80.22760	100.89626	0.0	7.29	34.12	21:44:58.00	0.100	spz	LB05	120
123	80.18805	101.04648	0.0	2.03	37.73	21:44:58.00	0.100	spz	LB06	120
126	80.06000	101.46667	0.0	14.40	208.36	21:44:59.16	0.100	spz	BP20	120
124	80.15248	101.18259	0.0	2.72	209.76	21:44:59.18	0.100	spz	BP19	120
125	80.10811	101.35511	0.0	8.67	212.56	21:44:59.18	0.100	spz	BP18	120
127	80.02255	101.66920	0.0	19.98	212.67	21:44:59.18	0.100	spz	BP17	120
131	79.85278	102.29444	0.0	42.53	213.17	21:44:59.19	0.100	spz	BP10	120
130	79.89472	102.14445	0.0	36.99	213.16	21:44:59.17	0.100	spz	BP12	120
132	79.81142	102.44560	0.0	48.02	213.28	21:44:59.19	0.100	spz	BP11	120
133	79.76777	102.60110	0.0	53.79	213.32	21:44:59.19	0.100	spz	BP14	120
129	79.93849	101.99180	0.0	31.27	213.31	21:44:59.18	0.100	spz	BP16	120
128	79.98223	101.83915	0.0	25.55	213.58	21:44:59.17	0.100	spz	BP21	120
134	79.76838	102.60956	0.0	53.82	213.51	21:44:59.18	0.100	spz	BP13	120

Line: I08 Shot: M48
 ** Ice Island 86 ** Field shot point: M1 Section: LN
 Shot time: 1986 APR. 24 21:46: 0.00
 Lat.: 80.17366 N, Long.: 101.11182 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 462.4 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
123	80.18805		101.04648		0.0	2.03	37.73	21:44:58.00	0.100	spz	LB06	120	
124	80.15248		101.18259		0.0	2.72	209.76	21:44:59.18	0.100	spz	BP19	120	
122	80.22760		100.89626		0.0	7.29	34.12	21:44:58.00	0.100	spz	LB05	120	
125	80.10811		101.35511		0.0	8.67	212.56	21:44:59.18	0.100	spz	BP18	120	
121	80.27037		100.72495		0.0	13.06	34.01	21:44:58.00	0.100	spz	LB08	120	
126	80.06000		101.46667		0.0	14.40	208.36	21:44:59.16	0.100	spz	BP20	120	
120	80.30638		100.58295		0.0	17.89	33.78	21:44:58.00	0.100	spz	LB03	120	
127	80.02255		101.66920		0.0	19.98	212.67	21:44:59.18	0.100	spz	BP17	120	
119	80.35228		100.39626		0.0	24.09	33.77	21:44:58.00	0.100	spz	LB09	120	
128	79.98223		101.83915		0.0	25.55	213.58	21:44:59.17	0.100	spz	BP21	120	
118	80.39317		100.22771		0.0	29.64	33.78	21:44:58.00	0.100	spz	LB0C	120	
129	79.93849		101.99180		0.0	31.27	213.31	21:44:59.18	0.100	spz	BP16	120	
130	79.89472		102.14445		0.0	36.99	213.16	21:44:59.17	0.100	spz	BP12	120	
116	80.47595		99.88803		0.0	40.83	33.63	21:44:58.00	0.100	spz	LB02	120	
131	79.85278		102.29444		0.0	42.53	213.17	21:44:59.19	0.100	spz	BP10	120	
115	80.51563		99.71937		0.0	46.24	33.65	21:44:58.00	0.100	spz	LB01	120	
132	79.81142		102.44560		0.0	48.02	213.28	21:44:59.19	0.100	spz	BP11	120	
114	80.55644		99.54912		0.0	51.77	33.58	21:44:58.00	0.100	spz	LB0A	120	
133	79.76777		102.60110		0.0	53.79	213.32	21:44:59.19	0.100	spz	BP14	120	
134	79.76838		102.60956		0.0	53.82	213.51	21:44:59.18	0.100	spz	BP13	120	
113	80.59712		99.36617		0.0	57.41	33.69	21:44:58.00	0.100	spz	LB0E	120	

Fig. 15A - Water wave section LN shot M48

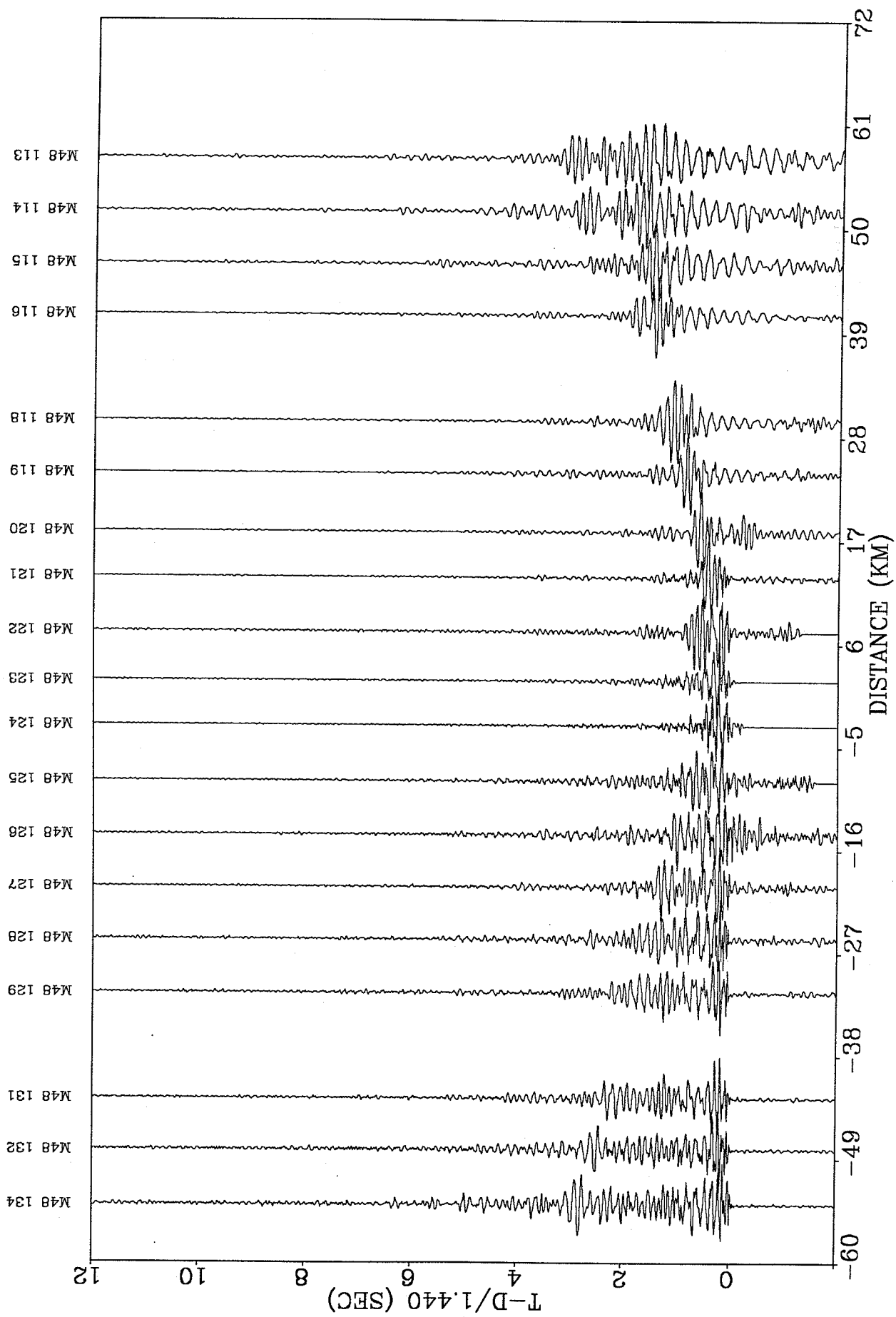
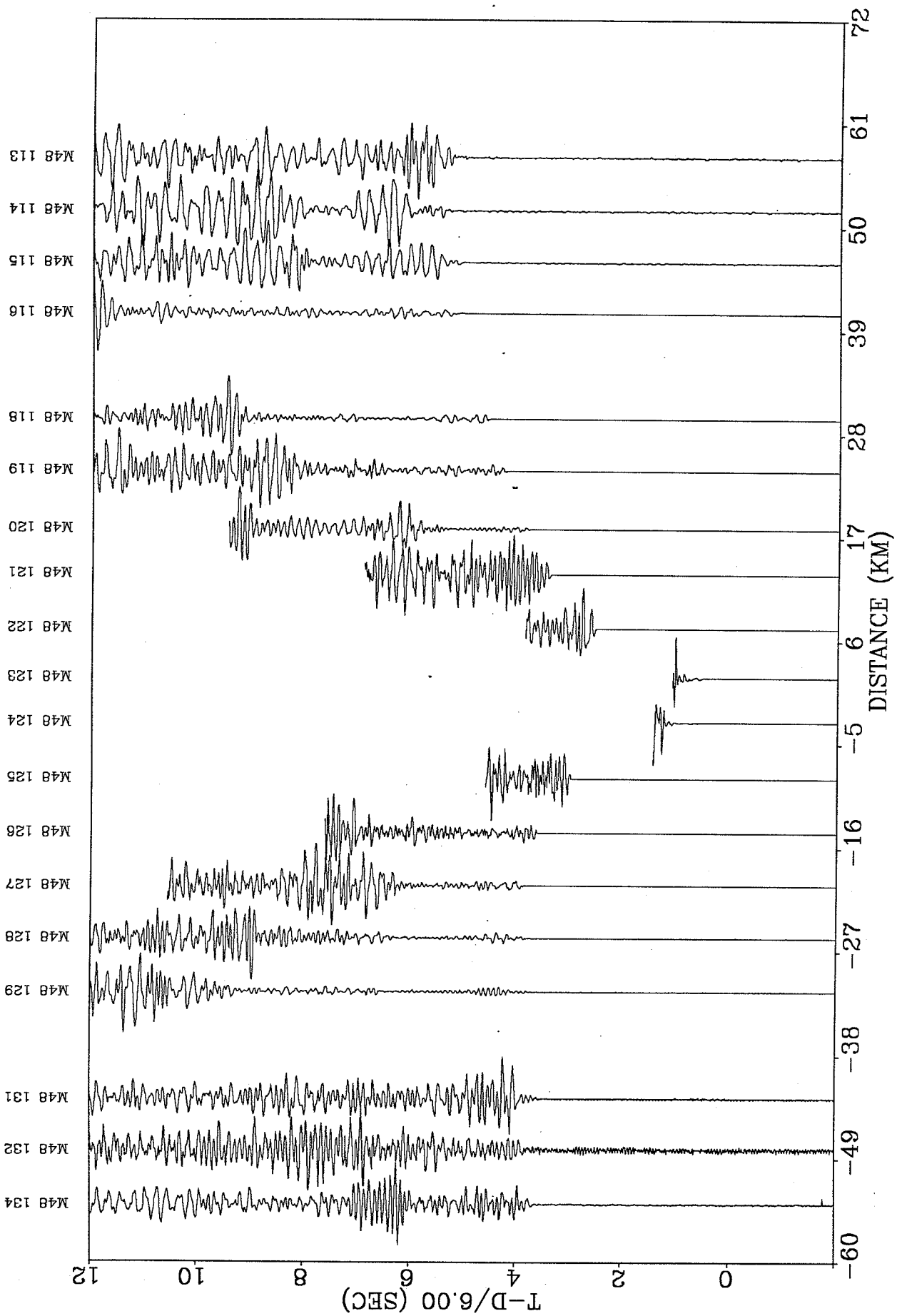


Fig. 15B - Seismic section LN shot M48



Line: I08 Shot: M49
 ** Ice Island 86 ** Field shot point: M2 Section: LN
 Shot time: 1986 APR. 24 22:31: 0.00
 Lat.: 80.14046 N, Long.: 101.07751 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
123	80.18805	101.04648	0.0	5.35	6.34	22:29:58.00	0.100	spz	LB06	120
122	80.22760	100.89626	0.0	10.32	19.44	22:29:58.00	0.100	spz	LB05	120
121	80.27037	100.72495	0.0	15.98	24.61	22:29:58.00	0.100	spz	LB08	120
120	80.30638	100.58295	0.0	20.77	26.61	22:29:58.00	0.100	spz	LB03	120
119	80.35228	100.39626	0.0	26.94	28.25	22:29:58.00	0.100	spz	LB09	120
118	80.39317	100.22771	0.0	32.46	29.21	22:29:58.00	0.100	spz	LB0C	120
116	80.47595	99.88803	0.0	43.63	30.25	22:29:58.00	0.100	spz	LB02	120
115	80.51563	99.71937	0.0	49.03	30.65	22:29:58.00	0.100	spz	LB01	120
114	80.55644	99.54912	0.0	54.56	30.89	22:29:58.00	0.100	spz	LB0A	120
113	80.59712	99.36617	0.0	60.19	31.25	22:29:58.00	0.100	spz	LB0E	120
133	79.76777	102.60110	0.0	51.11	216.25	22:29:59.18	0.100	spz	BP14	120
134	79.76838	102.60956	0.0	51.15	216.45	22:29:59.19	0.100	spz	BP13	120
132	79.81142	102.44560	0.0	45.36	216.57	22:29:59.18	0.100	spz	BP11	120
131	79.85278	102.29444	0.0	39.87	216.91	22:29:59.19	0.100	spz	BP10	120
130	79.89472	102.14445	0.0	34.35	217.50	22:29:59.17	0.100	spz	BP12	120
129	79.93849	101.99180	0.0	28.65	218.52	22:29:59.17	0.100	spz	BP16	120
126	80.06000	101.46667	0.0	11.69	219.94	22:29:59.17	0.100	spz	BP20	120
128	79.98223	101.83915	0.0	22.97	220.10	22:29:59.18	0.100	spz	BP21	120
127	80.02255	101.66920	0.0	17.40	221.14	22:29:59.18	0.100	spz	BP17	120
125	80.10811	101.35511	0.0	6.43	235.94	22:29:59.18	0.100	spz	BP18	120
124	80.15248	101.18259	0.0	2.42	303.80	22:29:59.19	0.100	spz	BP19	120

Line: I08 Shot: M49
 ** Ice Island 86 ** Field shot point: M2 Section: LN
 Shot time: 1986 APR. 24 22:31: 0.00
 Lat.: 80.14046 N, Long.: 101.07751 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
124	80.15248	101.18259	0.0	2.42	303.80	22:29:59.19	0.100	spz	BP19	120
123	80.18805	101.04648	0.0	5.35	6.34	22:29:58.00	0.100	spz	LB06	120
125	80.10811	101.35511	0.0	6.43	235.94	22:29:59.18	0.100	spz	BP18	120
122	80.22760	100.89626	0.0	10.32	19.44	22:29:58.00	0.100	spz	LB05	120
126	80.06000	101.46667	0.0	11.69	219.94	22:29:59.17	0.100	spz	BP20	120
121	80.27037	100.72495	0.0	15.98	24.61	22:29:58.00	0.100	spz	LB08	120
127	80.02255	101.66920	0.0	17.40	221.14	22:29:59.18	0.100	spz	BP17	120
120	80.30638	100.58295	0.0	20.77	26.61	22:29:58.00	0.100	spz	LB03	120
128	79.98223	101.83915	0.0	22.97	220.10	22:29:59.18	0.100	spz	BP21	120
119	80.35228	100.39626	0.0	26.94	28.25	22:29:58.00	0.100	spz	LB09	120
129	79.93849	101.99180	0.0	28.65	218.52	22:29:59.17	0.100	spz	BP16	120
118	80.39317	100.22771	0.0	32.46	29.21	22:29:58.00	0.100	spz	LB0C	120
130	79.89472	102.14445	0.0	34.35	217.50	22:29:59.17	0.100	spz	BP12	120
131	79.85278	102.29444	0.0	39.87	216.91	22:29:59.19	0.100	spz	BP10	120
116	80.47595	99.88803	0.0	43.63	30.25	22:29:58.00	0.100	spz	LB02	120
132	79.81142	102.44560	0.0	45.36	216.57	22:29:59.18	0.100	spz	BP11	120
115	80.51563	99.71937	0.0	49.03	30.65	22:29:58.00	0.100	spz	LB01	120
133	79.76777	102.60110	0.0	51.11	216.25	22:29:59.18	0.100	spz	BP14	120
134	79.76838	102.60956	0.0	51.15	216.45	22:29:59.19	0.100	spz	BP13	120
114	80.55644	99.54912	0.0	54.56	30.89	22:29:58.00	0.100	spz	LB0A	120
113	80.59712	99.36617	0.0	60.19	31.25	22:29:58.00	0.100	spz	LB0E	120

Fig. 16A - Water wave section LN shot M49

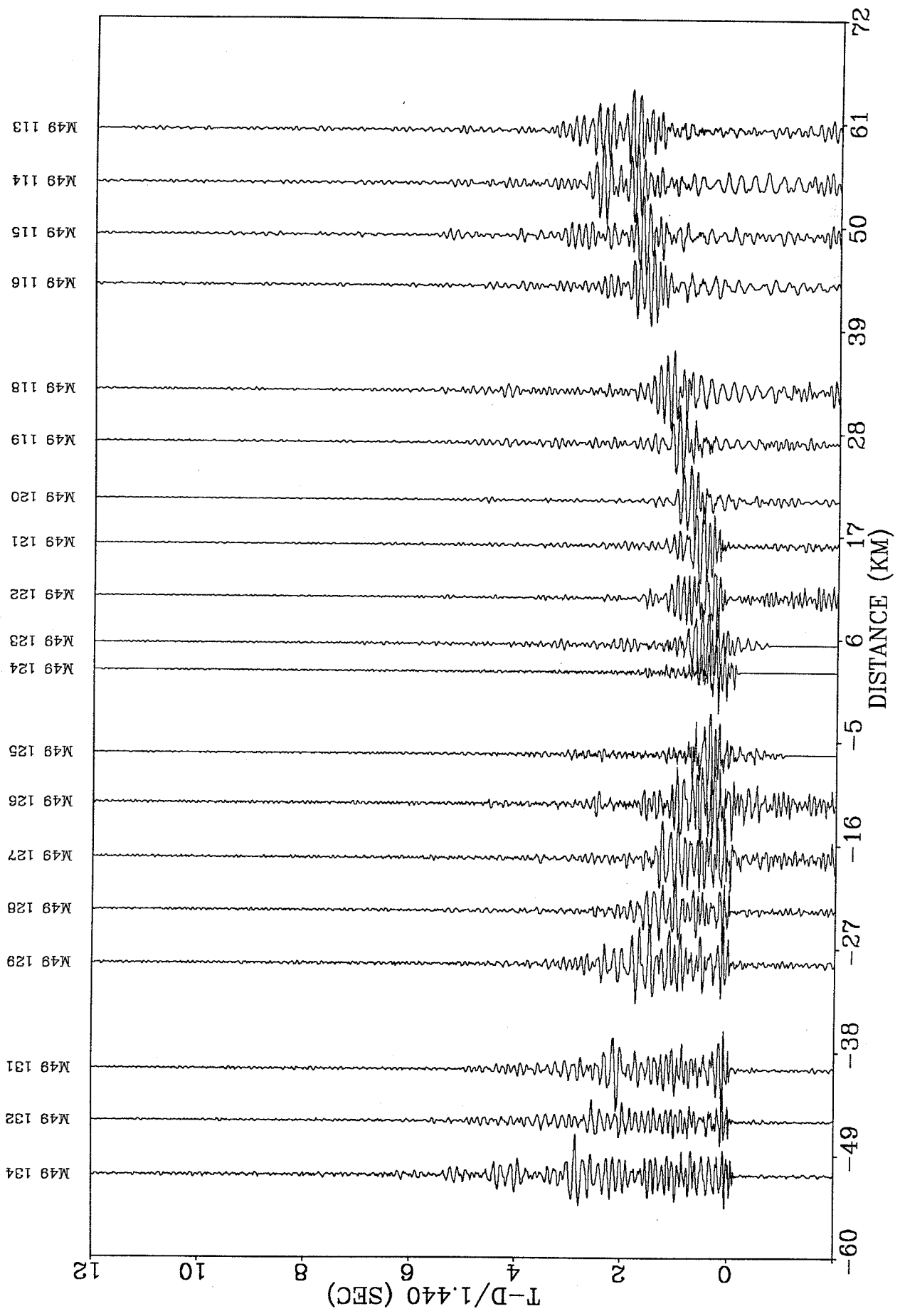
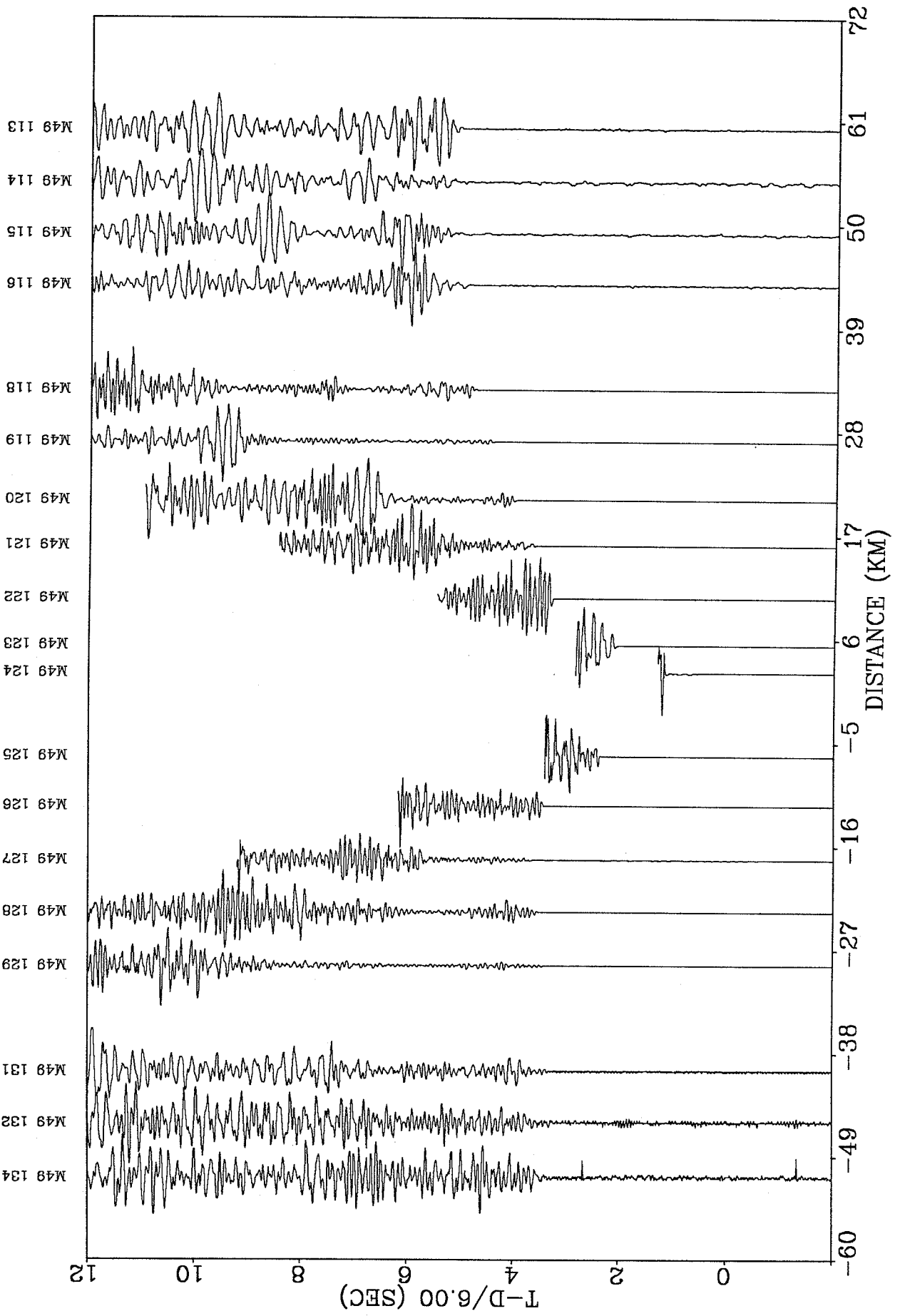


Fig. 16B - Seismic section LN shot M49



Line: I08 Shot: N43

** Ice Island 86 ** Field shot point: N1 Section: LN

Shot time: 1986 APR. 24 20: 1: 0.00

Lat.: 79.69072 N, Long.: 102.86689 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 217.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
134	79.76838	102.60956	0.0	10.07	30.45	19:59:59.18	0.100	spz	BP13	120
133	79.76777	102.60110	0.0	10.10	31.47	19:59:59.19	0.100	spz	BP14	120
132	79.81142	102.44560	0.0	15.87	31.64	19:59:59.19	0.100	spz	BP11	120
131	79.85278	102.29444	0.0	21.36	31.82	19:59:59.17	0.100	spz	BP10	120
130	79.89472	102.14445	0.0	26.89	31.76	19:59:59.19	0.100	spz	BP12	120
129	79.93849	101.99180	0.0	32.62	31.56	19:59:59.18	0.100	spz	BP16	120
128	79.98223	101.83915	0.0	38.34	31.39	19:59:59.19	0.100	spz	BP21	120
127	80.02255	101.66920	0.0	43.91	31.86	19:59:59.19	0.100	spz	BP17	120
126	80.06000	101.46667	0.0	49.56	33.00	19:59:59.19	0.100	spz	BP20	120
125	80.10811	101.35511	0.0	55.21	31.69	19:59:59.19	0.100	spz	BP18	120
124	80.15248	101.18259	0.0	61.17	31.73	19:59:59.18	0.100	spz	BP19	120
123	80.18805	101.04648	0.0	65.91	31.71	19:59:58.00	0.100	spz	LB06	120
122	80.22760	100.89626	0.0	71.17	31.66	19:59:58.00	0.100	spz	LB05	120
121	80.27037	100.72495	0.0	76.94	31.69	19:59:58.00	0.100	spz	LB08	120
120	80.30638	100.58295	0.0	81.77	31.68	19:59:58.00	0.100	spz	LB03	120
119	80.35228	100.39626	0.0	87.98	31.70	19:59:58.00	0.100	spz	LB09	120
118	80.39317	100.22771	0.0	93.53	31.72	19:59:58.00	0.100	spz	LB0C	120
116	80.47595	99.88803	0.0	104.72	31.70	19:59:58.00	0.100	spz	LB02	120
115	80.51563	99.71937	0.0	110.13	31.72	19:59:58.00	0.100	spz	LB01	120
114	80.55644	99.54912	0.0	115.66	31.70	19:59:58.00	0.100	spz	LBOA	120
113	80.59712	99.36617	0.0	121.30	31.76	19:59:58.00	0.100	spz	LBOE	120

Fig. 17A - Water wave section LN shot N43

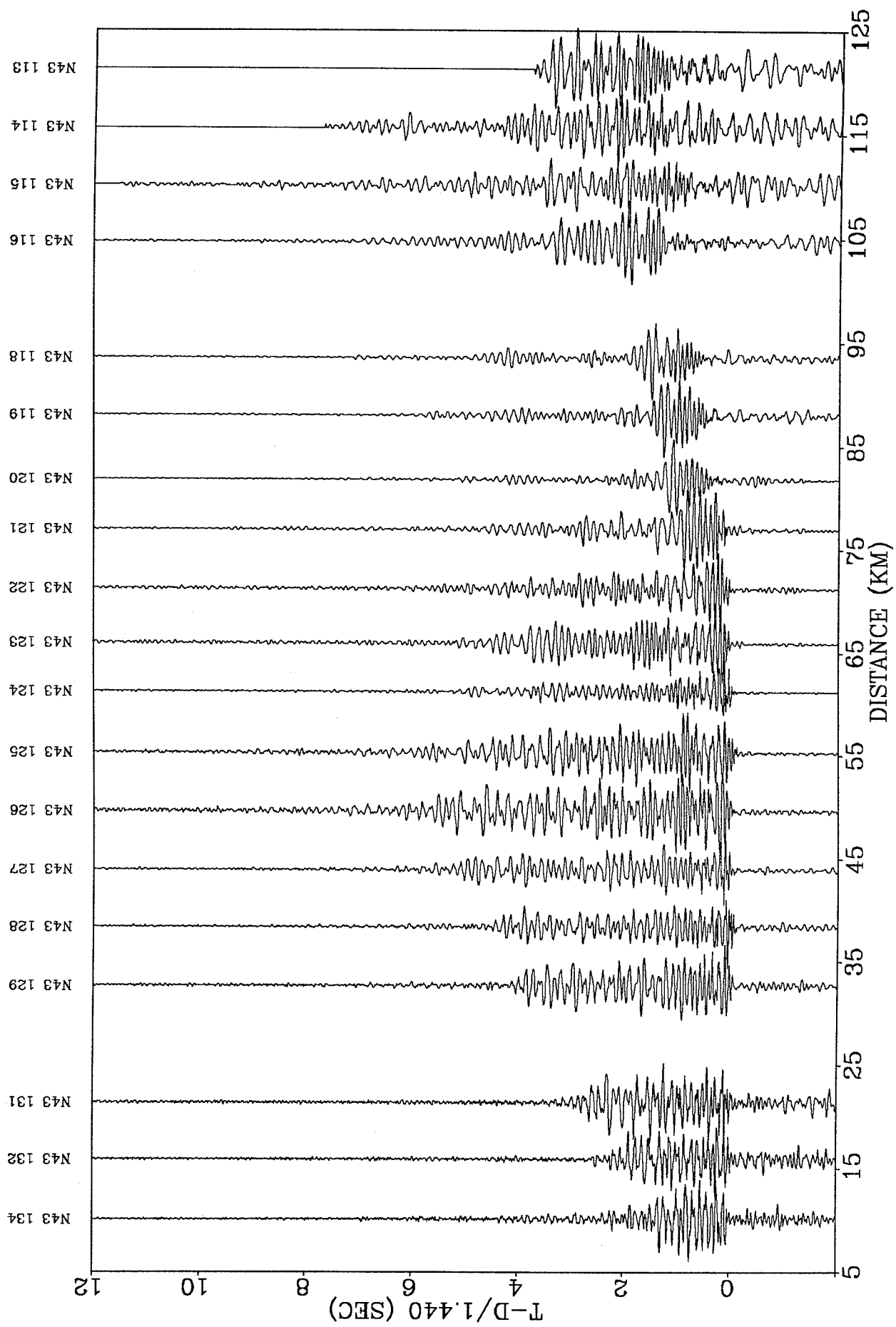
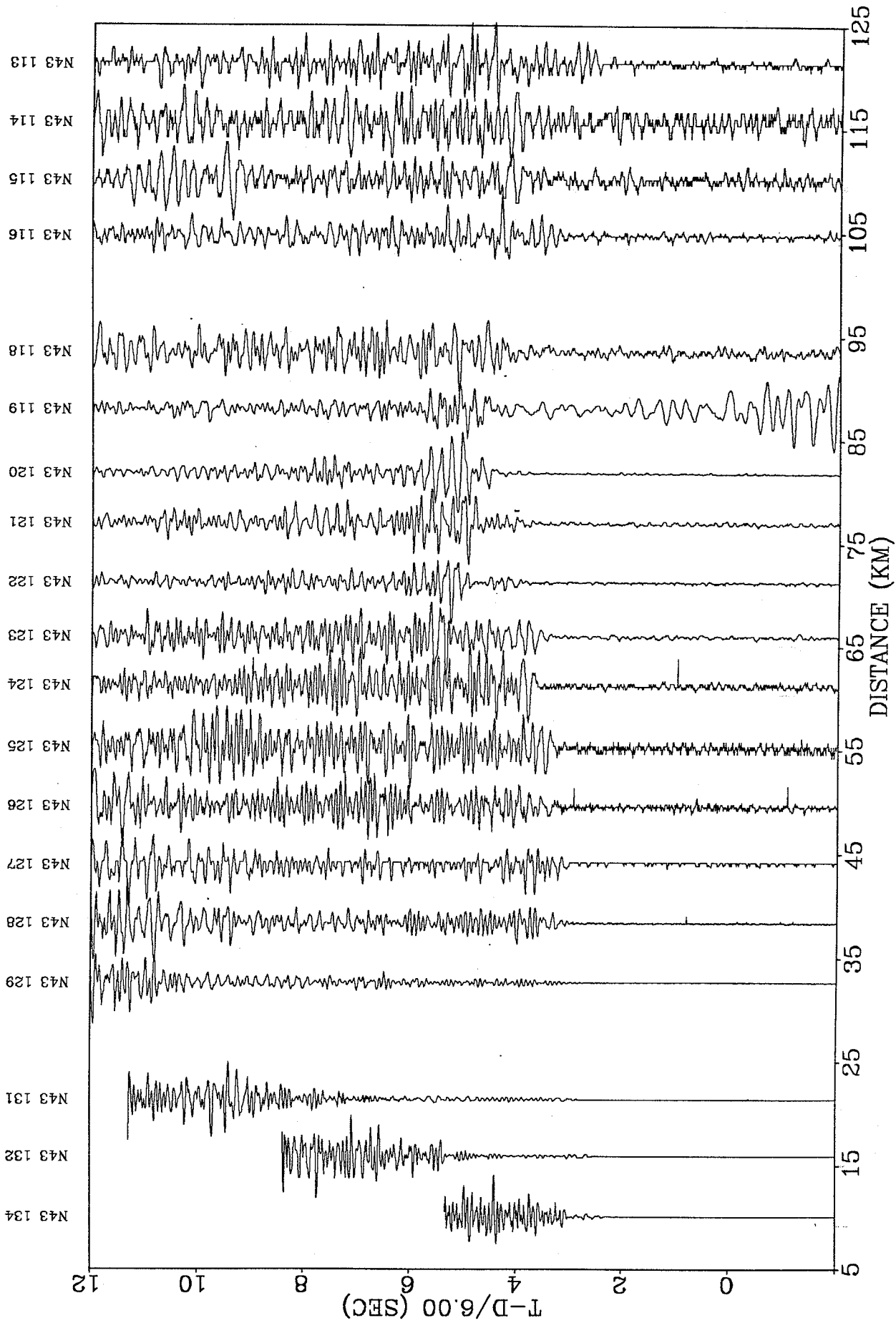


Fig. 17B - Seismic section LN shot N43



Line: I08 Shot: N45
 ** Ice Island 86 ** Field shot point: N2 Section: LN
 Shot time: 1986 APR. 24 20:31: 0.00
 Lat.: 79.71762 N, Long.: 102.84914 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
134	79.76838	102.60956	0.0	7.40	39.93	20:29:59.18	0.100	spz	BP13	120
133	79.76777	102.60110	0.0	7.46	41.26	20:29:59.19	0.100	spz	BP14	120
132	79.81142	102.44560	0.0	13.19	37.20	20:29:59.18	0.100	spz	BP11	120
131	79.85278	102.29444	0.0	18.67	35.78	20:29:59.17	0.100	spz	BP10	120
130	79.89472	102.14445	0.0	24.19	34.81	20:29:59.19	0.100	spz	BP12	120
129	79.93849	101.99180	0.0	29.90	34.02	20:29:59.17	0.100	spz	BP16	120
128	79.98223	101.83915	0.0	35.61	33.44	20:29:59.18	0.100	spz	BP21	120
127	80.02255	101.66920	0.0	41.19	33.66	20:29:59.18	0.100	spz	BP17	120
126	80.06000	101.46667	0.0	46.86	34.66	20:29:59.17	0.100	spz	BP20	120
125	80.10811	101.35511	0.0	52.49	33.10	20:29:59.18	0.100	spz	BP18	120
124	80.15248	101.18259	0.0	58.44	33.00	20:29:59.19	0.100	spz	BP19	120
123	80.18805	101.04648	0.0	63.19	32.88	20:29:58.00	0.100	spz	LB06	120
122	80.22760	100.89626	0.0	68.44	32.74	20:29:58.00	0.100	spz	LB05	120
121	80.27037	100.72495	0.0	74.21	32.69	20:29:58.00	0.100	spz	LB08	120
120	80.30638	100.58295	0.0	79.04	32.62	20:29:58.00	0.100	spz	LB03	120
119	80.35228	100.39626	0.0	85.25	32.58	20:29:58.00	0.100	spz	LB09	120
118	80.39317	100.22771	0.0	90.80	32.55	20:29:58.00	0.100	spz	LB0C	120
116	80.47595	99.88803	0.0	101.98	32.44	20:29:58.00	0.100	spz	LB02	120
115	80.51563	99.71937	0.0	107.40	32.42	20:29:58.00	0.100	spz	LB01	120
114	80.55644	99.54912	0.0	112.92	32.36	20:29:58.00	0.100	spz	LB0A	120
113	80.59712	99.36617	0.0	118.56	32.39	20:29:58.00	0.100	spz	LB0E	120

Fig. 18A - Water wave section LN shot N45

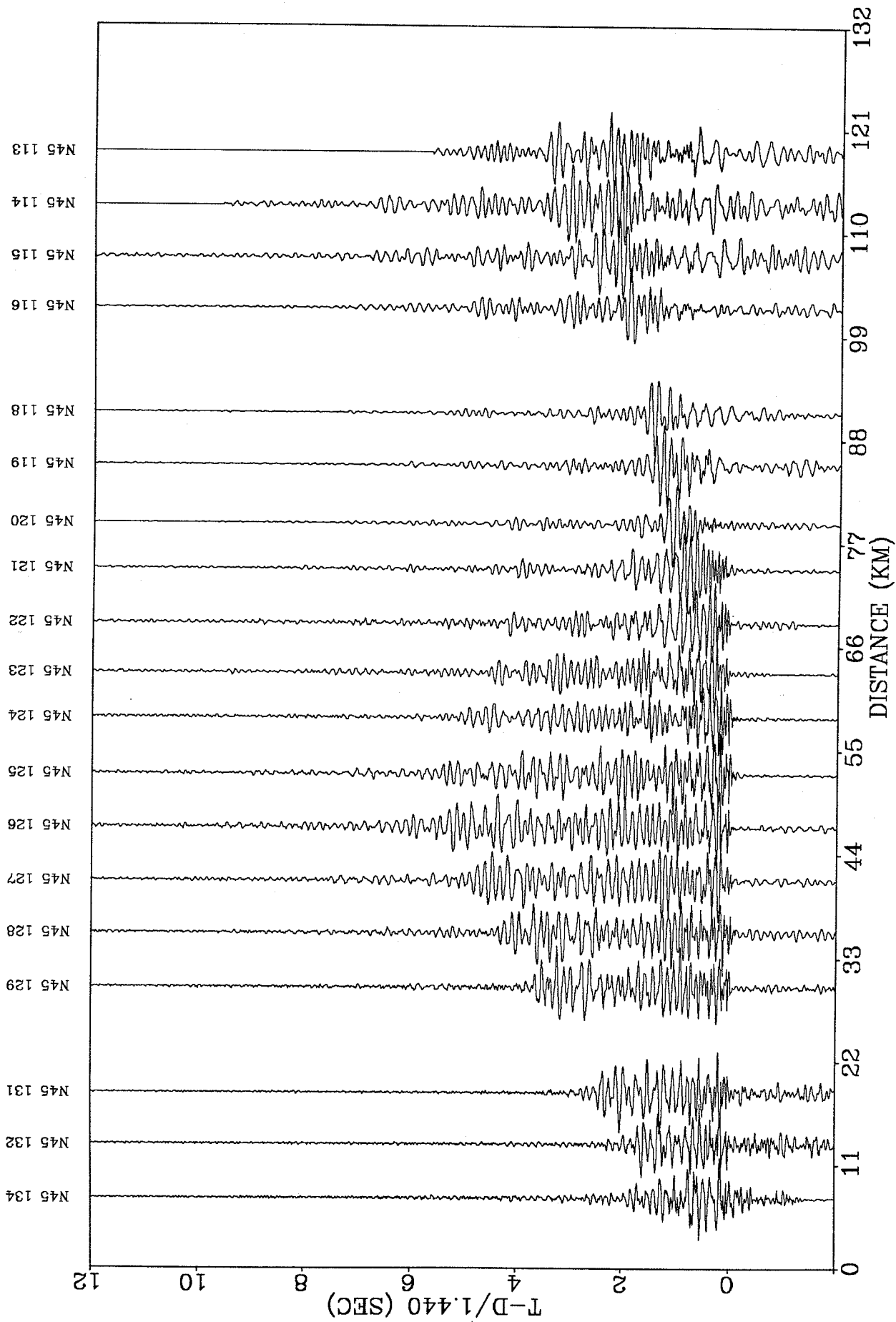
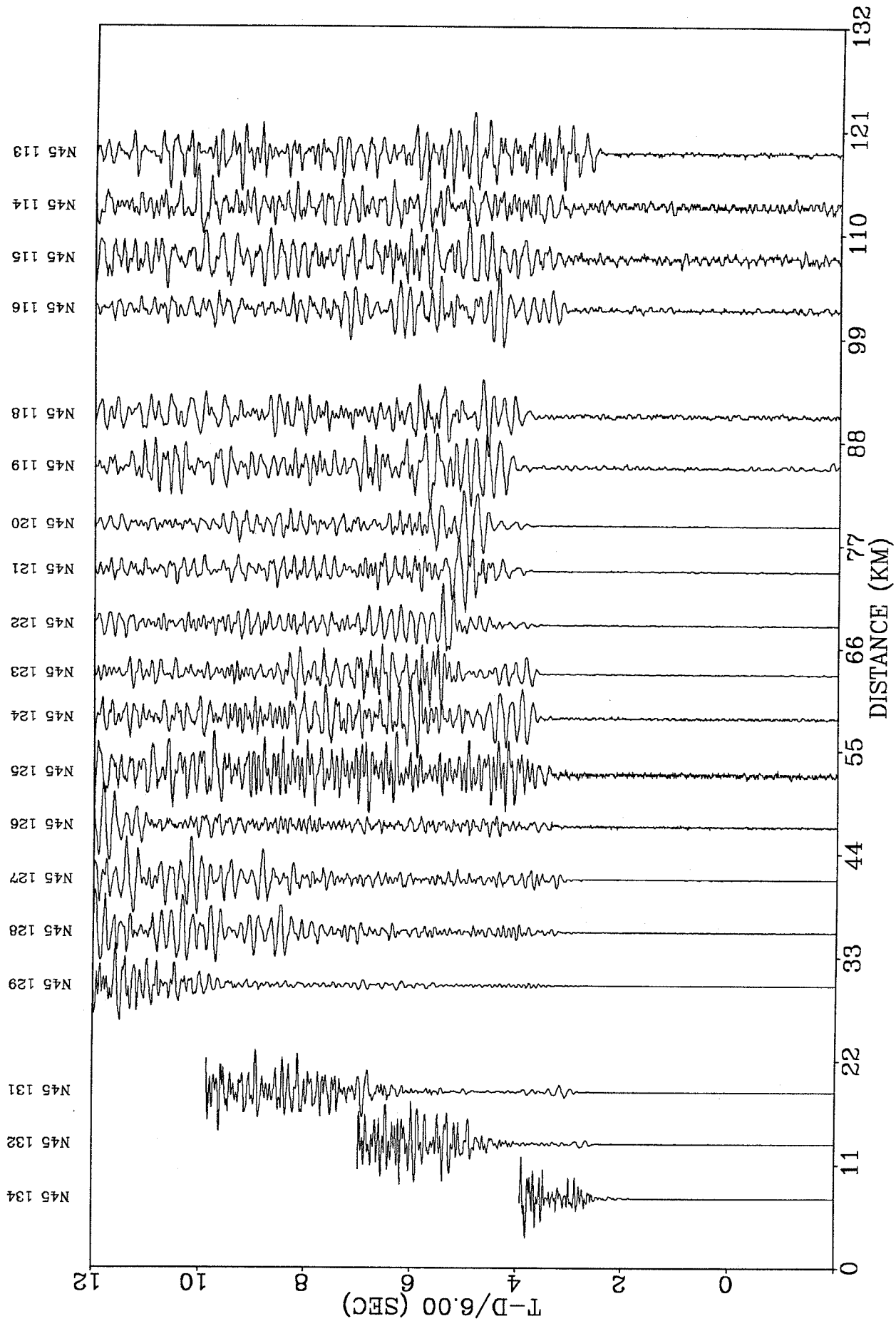


Fig. 18B - Seismic section LN shot N45



Line: I09 Shot: L54

** Ice Island 86 ** Field shot point: L1N Section: OR

Shot time: 1986 APR. 25 20:15: 0.00

Lat.: 80.58585 N, Long.: 99.30566 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 489.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
149	81.51131	99.12650	0.0	103.40	1.64	20:14:59.18	0.100	spz	BP18	120
148	81.49083	98.86510	0.0	101.35	4.12	20:15: 7.18	0.100	spz	BP14	120
147	81.47095	98.58528	0.0	99.63	6.88	20:14:59.17	0.100	spz	BP22	120
146	81.45007	98.31190	0.0	98.05	9.69	20:14:58.00	0.100	spz	LB03	120
145	81.43068	98.05059	0.0	96.85	12.45	20:14:58.00	0.100	spz	LB01	120
144	81.40983	97.78165	0.0	95.78	15.39	20:14:58.00	0.100	spz	LBOE	120
143	81.38927	97.51560	0.0	95.02	18.36	20:14:58.00	0.100	spz	LB04	120
142	81.36865	97.25224	0.0	94.51	21.35	20:14:58.00	0.100	spz	LB08	120
141	81.34668	96.99106	0.0	94.15	24.40	20:14:58.00	0.100	spz	LB02	120
140	81.32511	96.72678	0.0	94.14	27.47	20:14:58.00	0.100	spz	LB06	120
139	81.30330	96.47118	0.0	94.33	30.48	20:14:58.00	0.100	spz	LB05	120
138	81.28258	96.21479	0.0	94.91	33.44	20:14:58.00	0.100	spz	LB0A	120
137	81.26048	95.95625	0.0	95.67	36.43	20:14:58.00	0.100	spz	LB09	120
136	81.23829	95.69486	0.0	96.74	39.39	20:14:58.00	0.100	spz	LB0C	120
158	81.68140	101.61718	0.0	128.63	343.12	20:14:59.18	0.100	spz	BP19	120
156	81.64658	101.05270	0.0	122.21	346.59	20:14:59.16	0.100	spz	BP10	120
155	81.62701	100.77670	0.0	119.00	348.40	20:14:59.17	0.100	spz	BP20	120
154	81.60783	100.50104	0.0	115.98	350.33	20:14:59.17	0.100	spz	BP13	120
153	81.58987	100.22137	0.0	113.23	352.41	20:14:59.19	0.100	spz	BP16	120
152	81.56858	99.95042	0.0	110.31	354.51	20:14:59.19	0.100	spz	BP12	120
151	81.55079	99.66568	0.0	107.94	356.86	20:14:59.18	0.100	spz	BP21	120
150	81.53029	99.40027	0.0	105.48	359.15	20:14:59.17	0.100	spz	BP11	120

Line: I09 Shot: L54
 ** Ice Island 86 ** Field shot point: L1N Section: OR
 Shot time: 1986 APR. 25 20:15: 0.00
 Lat.: 80.58585 N, Long.: 99.30566 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 489.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
140	81.32511	96.72678	0.0	94.14	27.47	20:14:58.00	0.100	spz	LB06	120
141	81.34668	96.99106	0.0	94.15	24.40	20:14:58.00	0.100	spz	LB02	120
139	81.30330	96.47118	0.0	94.33	30.48	20:14:58.00	0.100	spz	LB05	120
142	81.36865	97.25224	0.0	94.51	21.35	20:14:58.00	0.100	spz	LB08	120
138	81.28258	96.21479	0.0	94.91	33.44	20:14:58.00	0.100	spz	LB0A	120
143	81.38927	97.51560	0.0	95.02	18.36	20:14:58.00	0.100	spz	LB04	120
137	81.26048	95.95625	0.0	95.67	36.43	20:14:58.00	0.100	spz	LB09	120
144	81.40983	97.78165	0.0	95.78	15.39	20:14:58.00	0.100	spz	LB0E	120
136	81.23829	95.69486	0.0	96.74	39.39	20:14:58.00	0.100	spz	LB0C	120
145	81.43068	98.05059	0.0	96.85	12.45	20:14:58.00	0.100	spz	LB01	120
146	81.45007	98.31190	0.0	98.05	9.69	20:14:58.00	0.100	spz	LB03	120
147	81.47095	98.58528	0.0	99.63	6.88	20:14:59.17	0.100	spz	BP22	120
148	81.49083	98.86510	0.0	101.35	4.12	20:15: 7.18	0.100	spz	BP14	120
149	81.51131	99.12650	0.0	103.40	1.64	20:14:59.18	0.100	spz	BP18	120
150	81.53029	99.40027	0.0	105.48	359.15	20:14:59.17	0.100	spz	BP11	120
151	81.55079	99.66568	0.0	107.94	356.86	20:14:59.18	0.100	spz	BP21	120
152	81.56858	99.95042	0.0	110.31	354.51	20:14:59.19	0.100	spz	BP12	120
153	81.58987	100.22137	0.0	113.23	352.41	20:14:59.19	0.100	spz	BP16	120
154	81.60783	100.50104	0.0	115.98	350.33	20:14:59.17	0.100	spz	BP13	120
155	81.62701	100.77670	0.0	119.00	348.40	20:14:59.17	0.100	spz	BP20	120
156	81.64658	101.05270	0.0	122.21	346.59	20:14:59.16	0.100	spz	BP10	120
158	81.68140	101.61718	0.0	128.63	343.12	20:14:59.18	0.100	spz	BP19	120

Fig. 19A - Water wave section OR shot L54

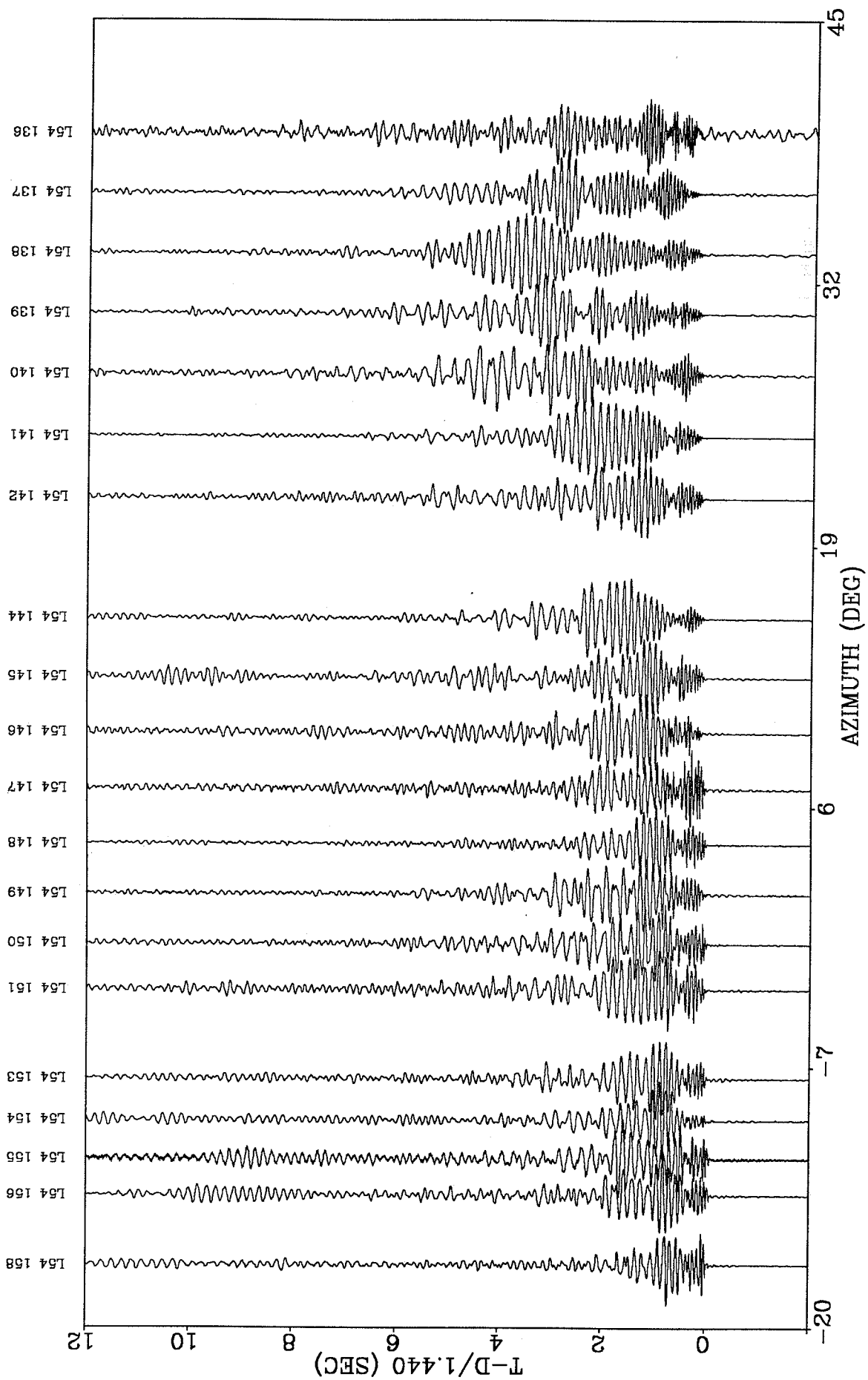
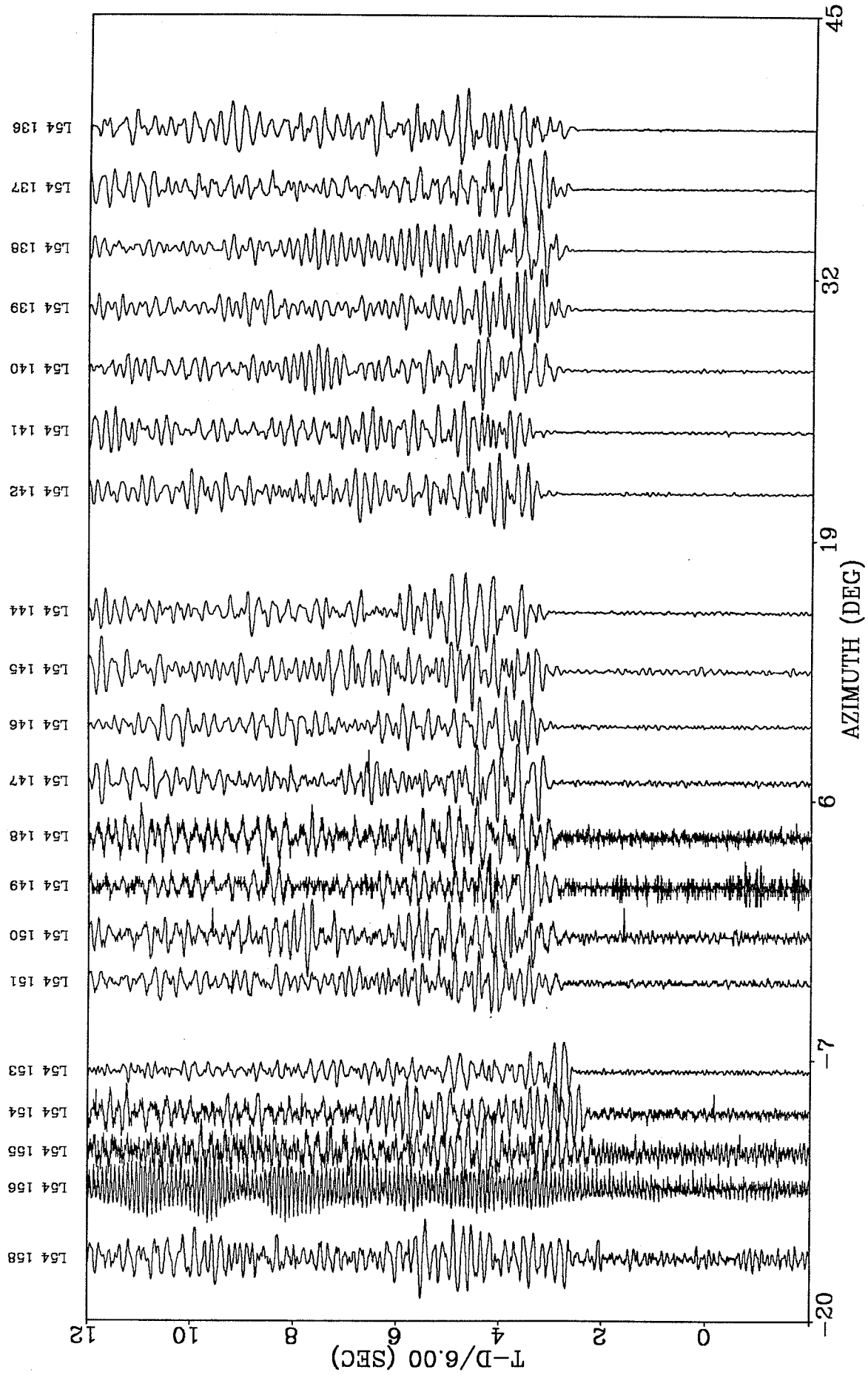


Fig. 19B - Seismic section OR shot L54



Line: I09 Shot: N57
 ** Ice Island 86 ** Field shot point: NS Section: OR
 Shot time: 1986 APR. 25 21:45: 0.00
 Lat.: 80.60228 N, Long.: 89.39008 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 707.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
136	81.23829	95.69486	0.0	131.78	305.67	21:44:58.00	0.100	spz	LB0C	120
137	81.26048	95.95625	0.0	136.87	305.66	21:44:58.00	0.100	spz	LB09	120
138	81.28258	96.21479	0.0	141.90	305.68	21:44:58.00	0.100	spz	LB0A	120
139	81.30330	96.47118	0.0	146.81	305.65	21:44:58.00	0.100	spz	LB05	120
140	81.32511	96.72678	0.0	151.76	305.68	21:44:58.00	0.100	spz	LB06	120
141	81.34668	96.99106	0.0	156.82	305.69	21:44:58.00	0.100	spz	LB02	120
142	81.36865	97.25224	0.0	161.84	305.72	21:44:58.00	0.100	spz	LB08	120
143	81.38927	97.51560	0.0	166.81	305.72	21:44:58.00	0.100	spz	LB04	120
144	81.40983	97.78165	0.0	171.82	305.71	21:44:58.00	0.100	spz	LB0E	120
145	81.43068	98.05059	0.0	176.87	305.71	21:44:58.00	0.100	spz	LB01	120
146	81.45007	98.31190	0.0	181.72	305.70	21:44:58.00	0.100	spz	LB03	120
147	81.47095	98.58528	0.0	186.82	305.71	21:44:59.17	0.100	spz	BP22	120
148	81.49083	98.86510	0.0	191.95	305.69	21:45: 3.18	0.100	spz	BP14	120
149	81.51131	99.12650	0.0	196.83	305.73	21:44:59.18	0.100	spz	BP18	120
150	81.53029	99.40027	0.0	201.81	305.71	21:44:59.19	0.100	spz	BP11	120
151	81.55079	99.66568	0.0	206.74	305.76	21:44:59.18	0.100	spz	BP21	120
152	81.56858	99.95042	0.0	211.81	305.70	21:44:59.17	0.100	spz	BP12	120
153	81.58987	100.22137	0.0	216.83	305.77	21:44:59.19	0.100	spz	BP16	120
154	81.60783	100.50104	0.0	221.81	305.75	21:44:59.18	0.100	spz	BP13	120
155	81.62701	100.77670	0.0	226.78	305.77	21:44:59.17	0.100	spz	BP20	120
156	81.64658	101.05270	0.0	231.77	305.80	21:44:59.18	0.100	spz	BP10	120
158	81.68140	101.61718	0.0	241.70	305.76	21:44:59.17	0.100	spz	BP19	120

Fig. 20A - Water wave section OR shot N57

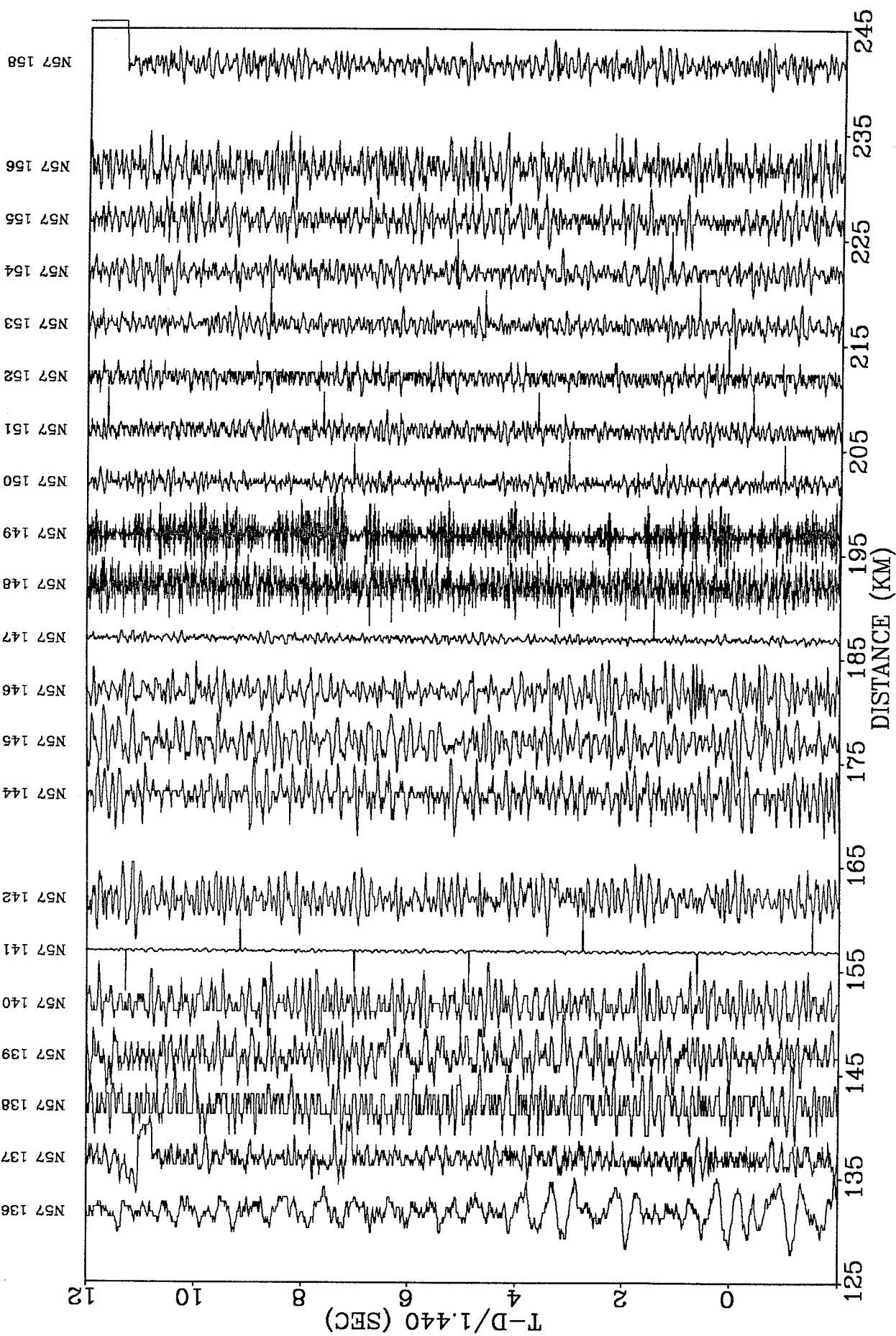
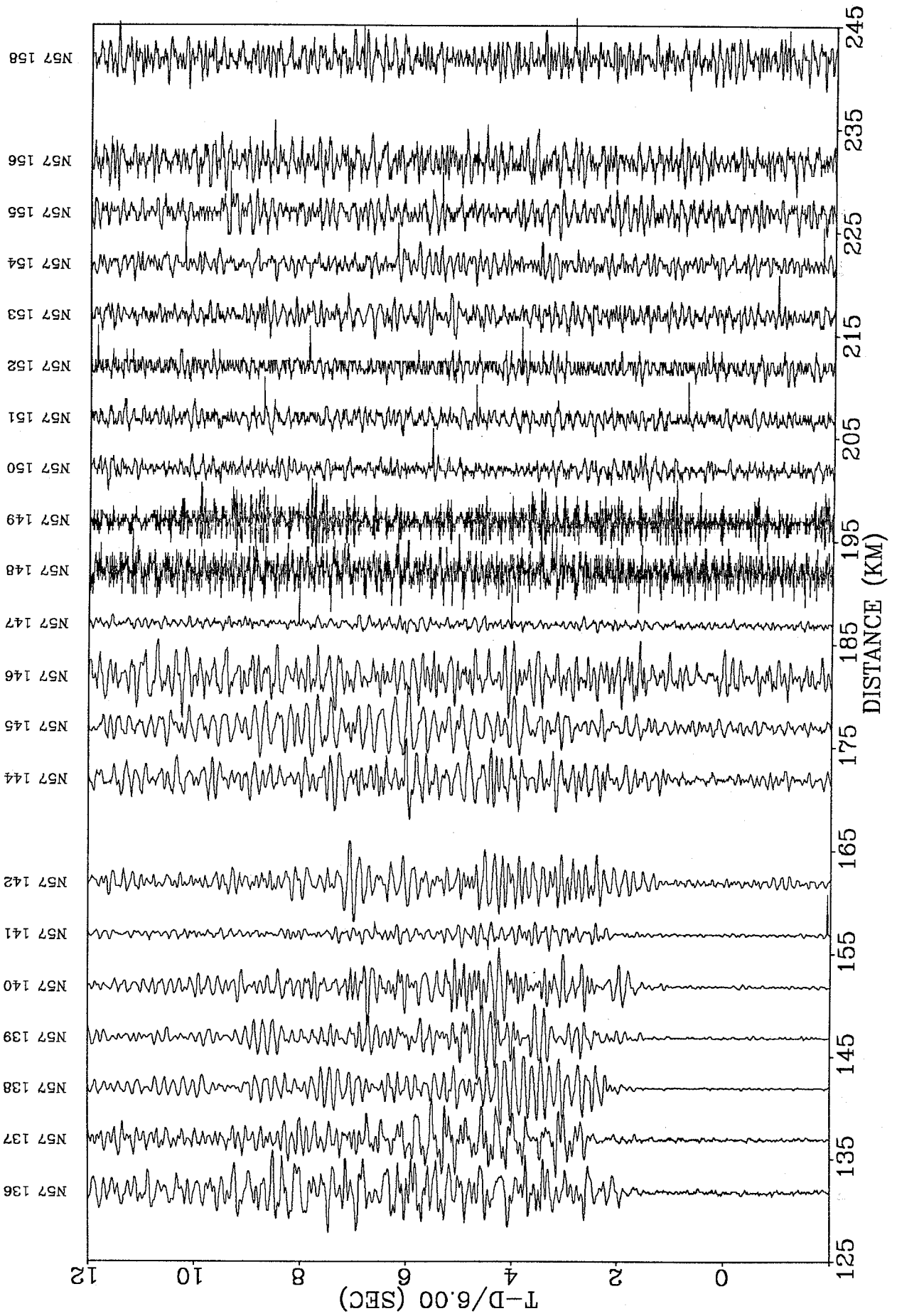


Fig. 20B - Seismic section OR shot N57



Line: I09 Shot: 050
 ** Ice Island 86 ** Field shot point: 01 Section: OR
 Shot time: 1986 APR. 25 19:15: 0.00
 Lat.: 81.21143 N, Long.: 95.37466 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
136	81.23829		95.69486		0.0	6.23	298.96	19:14:58.00	0.100	spz	LB0C	120	
137	81.26048		95.95625		0.0	11.31	299.25	19:14:58.00	0.100	spz	LB09	120	
138	81.28258		96.21479		0.0	16.34	299.51	19:14:58.00	0.100	spz	LB0A	120	
139	81.30330		96.47118		0.0	21.25	299.40	19:14:58.00	0.100	spz	LB05	120	
140	81.32511		96.72678		0.0	26.21	299.64	19:14:58.00	0.100	spz	LB06	120	
141	81.34668		96.99106		0.0	31.26	299.69	19:14:58.00	0.100	spz	LB02	120	
142	81.36865		97.25224		0.0	36.28	299.86	19:14:58.00	0.100	spz	LB08	120	
143	81.38927		97.51560		0.0	41.26	299.83	19:14:58.00	0.100	spz	LB04	120	
144	81.40983		97.78165		0.0	46.26	299.80	19:14:58.00	0.100	spz	LB0E	120	
145	81.43068		98.05059		0.0	51.31	299.82	19:14:58.00	0.100	spz	LB01	120	
146	81.45007		98.31190		0.0	56.16	299.77	19:14:58.00	0.100	spz	LB03	120	
147	81.47095		98.58528		0.0	61.26	299.81	19:15: 7.17	0.100	spz	BP22	120	
148	81.49083		98.86510		0.0	66.40	299.74	19:14:59.19	0.100	spz	BP14	120	
149	81.51131		99.12650		0.0	71.28	299.86	19:14:59.17	0.100	spz	BP18	120	
150	81.53029		99.40027		0.0	76.26	299.81	19:14:59.17	0.100	spz	BP11	120	
151	81.55079		99.66568		0.0	81.18	299.93	19:14:59.19	0.100	spz	BP21	120	
152	81.56858		99.95042		0.0	86.25	299.78	19:14:59.18	0.100	spz	BP12	120	
153	81.58987		100.22137		0.0	91.27	299.95	19:14:59.18	0.100	spz	BP16	120	
154	81.60783		100.50104		0.0	96.26	299.89	19:14:59.19	0.100	spz	BP13	120	
155	81.62701		100.77670		0.0	101.23	299.93	19:14:59.17	0.100	spz	BP20	120	
156	81.64658		101.05270		0.0	106.22	300.00	19:14:59.17	0.100	spz	BP10	120	
158	81.68140		101.61718		0.0	116.15	299.91	19:14:59.17	0.100	spz	BP19	120	

Fig. 21A - Water wave section OR shot 050

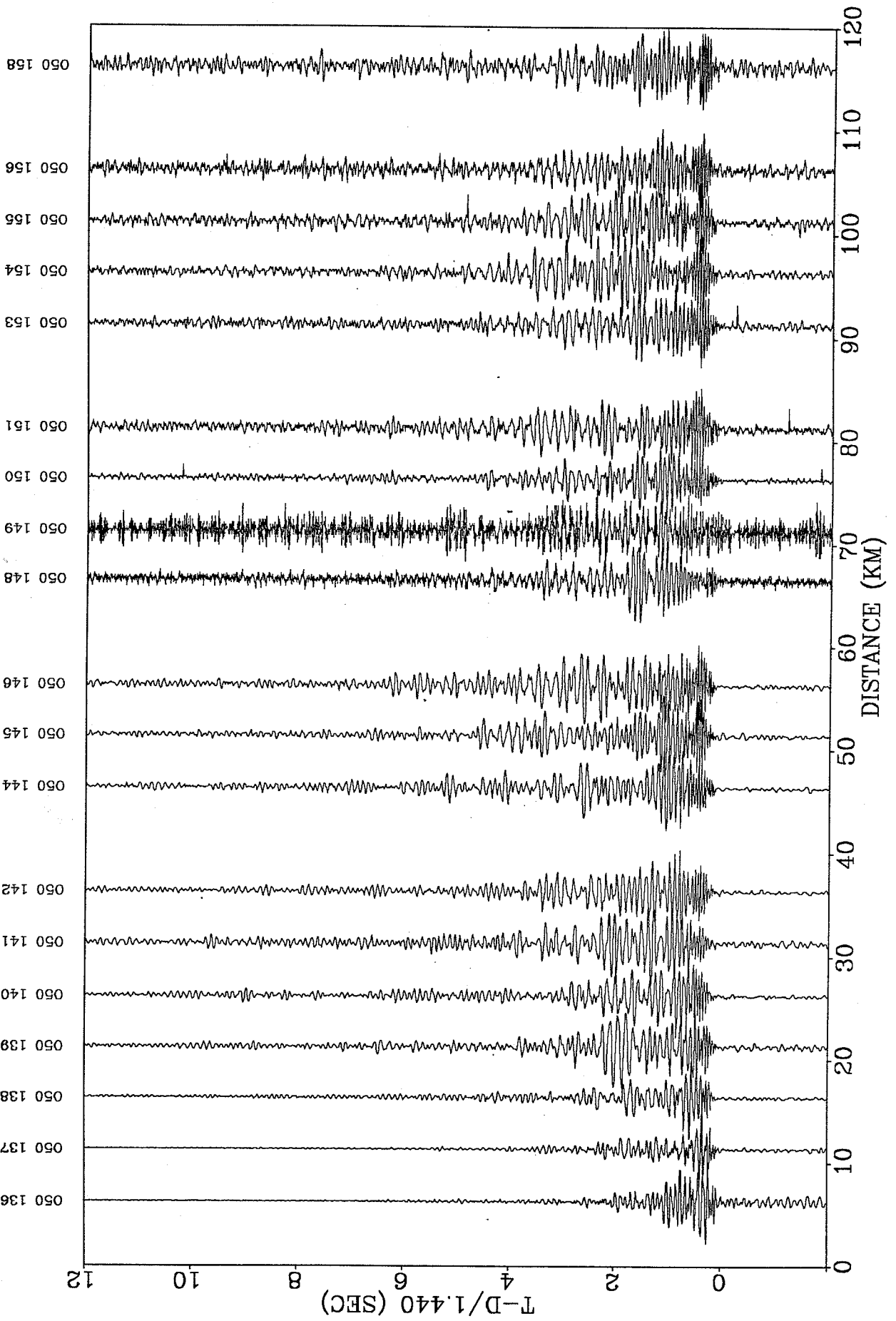
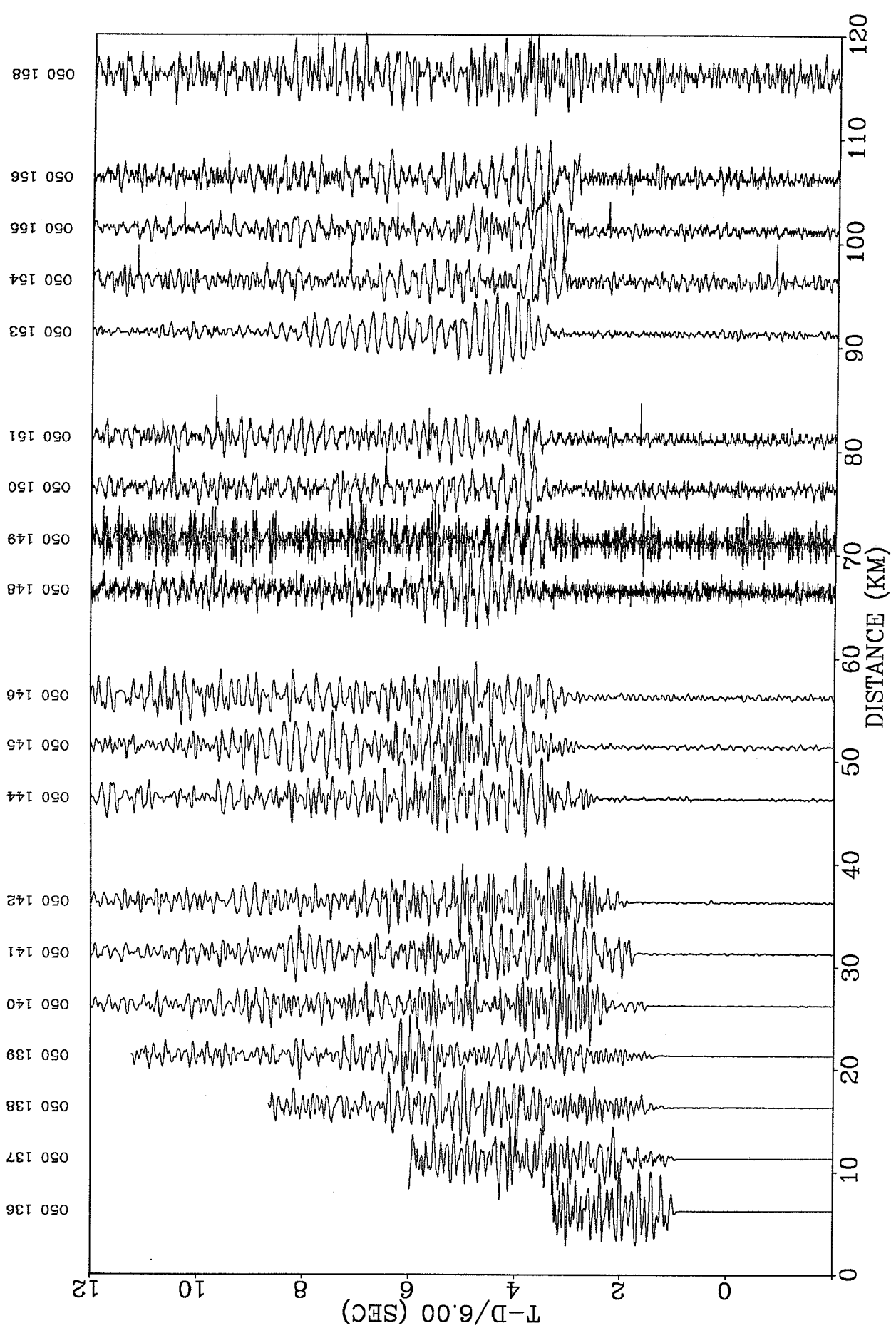


Fig. 21B - Seismic section OR shot 050



Line: I09 Shot: 052
 ** Ice Island 86 ** Field shot point: 02 Section: OR
 Shot time: 1986 APR. 25 19:45: 0.00
 Lat.: 81.22769 N, Long.: 95.57017 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
136	81.23829	95.69486	0.0	2.43	299.20	19:44:58.00	0.100	spz	LBOC	120
137	81.26048	95.95625	0.0	7.52	299.34	19:44:58.00	0.100	spz	LB09	120
138	81.28258	96.21479	0.0	12.55	299.56	19:44:58.00	0.100	spz	LBOA	120
139	81.30330	96.47118	0.0	17.46	299.37	19:44:58.00	0.100	spz	LB05	120
140	81.32511	96.72678	0.0	22.41	299.61	19:44:58.00	0.100	spz	LB06	120
141	81.34668	96.99106	0.0	27.47	299.63	19:44:58.00	0.100	spz	LB02	120
142	81.36865	97.25224	0.0	32.49	299.81	19:44:58.00	0.100	spz	LB08	120
143	81.38927	97.51560	0.0	37.46	299.75	19:44:58.00	0.100	spz	LB04	120
144	81.40983	97.78165	0.0	42.47	299.71	19:44:58.00	0.100	spz	LBOE	120
145	81.43068	98.05059	0.0	47.52	299.71	19:44:58.00	0.100	spz	LB01	120
146	81.45007	98.31190	0.0	52.37	299.65	19:44:58.00	0.100	spz	LB03	120
147	81.47095	98.58528	0.0	57.47	299.69	19:44:59.17	0.100	spz	BP22	120
148	81.49083	98.86510	0.0	62.60	299.61	19:45: 7.18	0.100	spz	BP14	120
149	81.51131	99.12650	0.0	67.48	299.74	19:44:59.18	0.100	spz	BP18	120
150	81.53029	99.40027	0.0	72.46	299.67	19:44:59.19	0.100	spz	BP11	120
151	81.55079	99.66568	0.0	77.39	299.80	19:44:59.18	0.100	spz	BP21	120
152	81.56858	99.95042	0.0	82.46	299.64	19:44:59.18	0.100	spz	BP12	120
153	81.58987	100.22137	0.0	87.48	299.81	19:44:59.17	0.100	spz	BP16	120
154	81.60783	100.50104	0.0	92.46	299.74	19:44:59.17	0.100	spz	BP13	120
155	81.62701	100.77670	0.0	97.44	299.78	19:44:59.19	0.100	spz	BP20	120
156	81.64658	101.05270	0.0	102.42	299.85	19:44:59.17	0.100	spz	BP10	120
158	81.68140	101.61718	0.0	112.35	299.76	19:44:59.18	0.100	spz	BP19	120

Fig. 22A - Water wave section OR shot 052

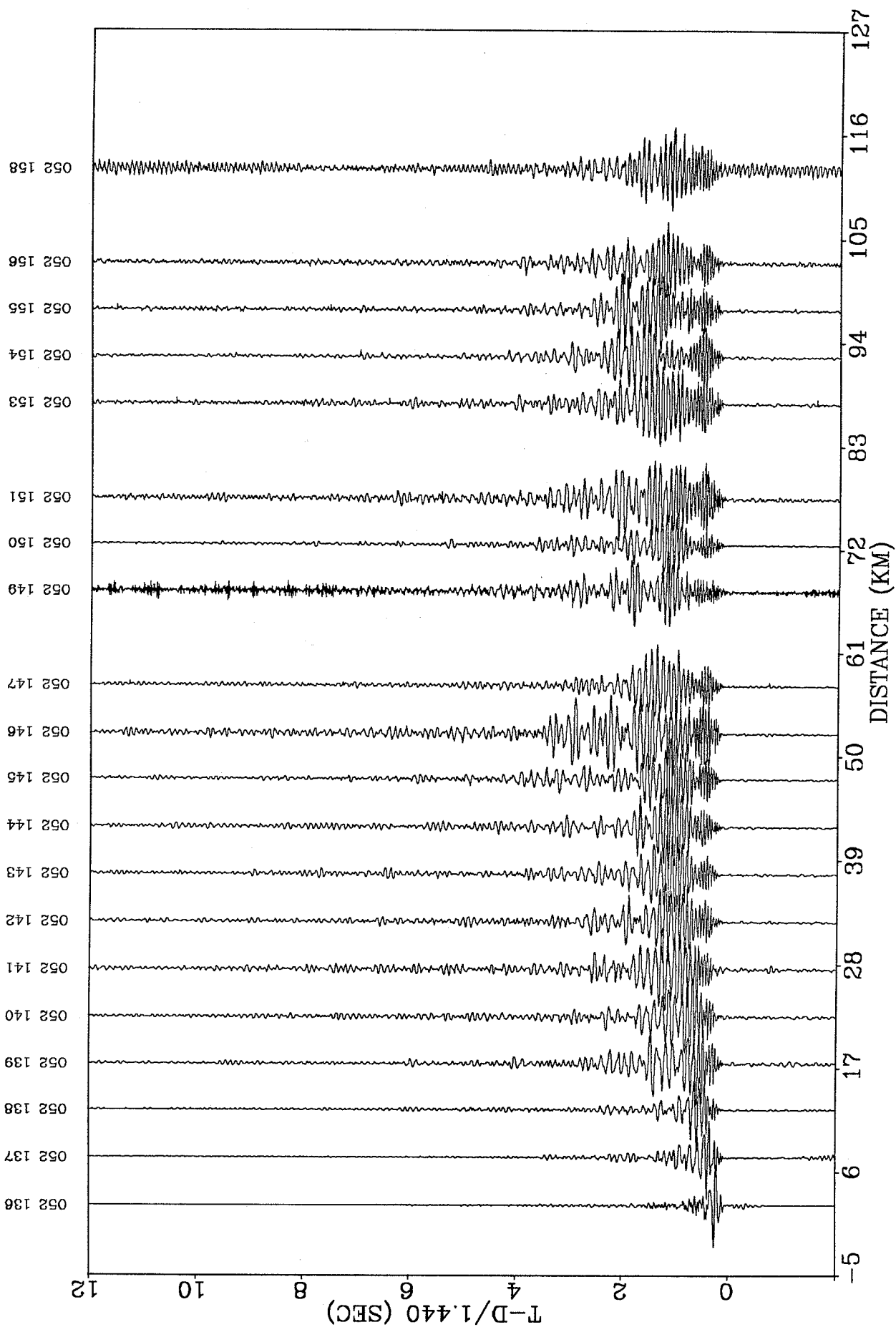
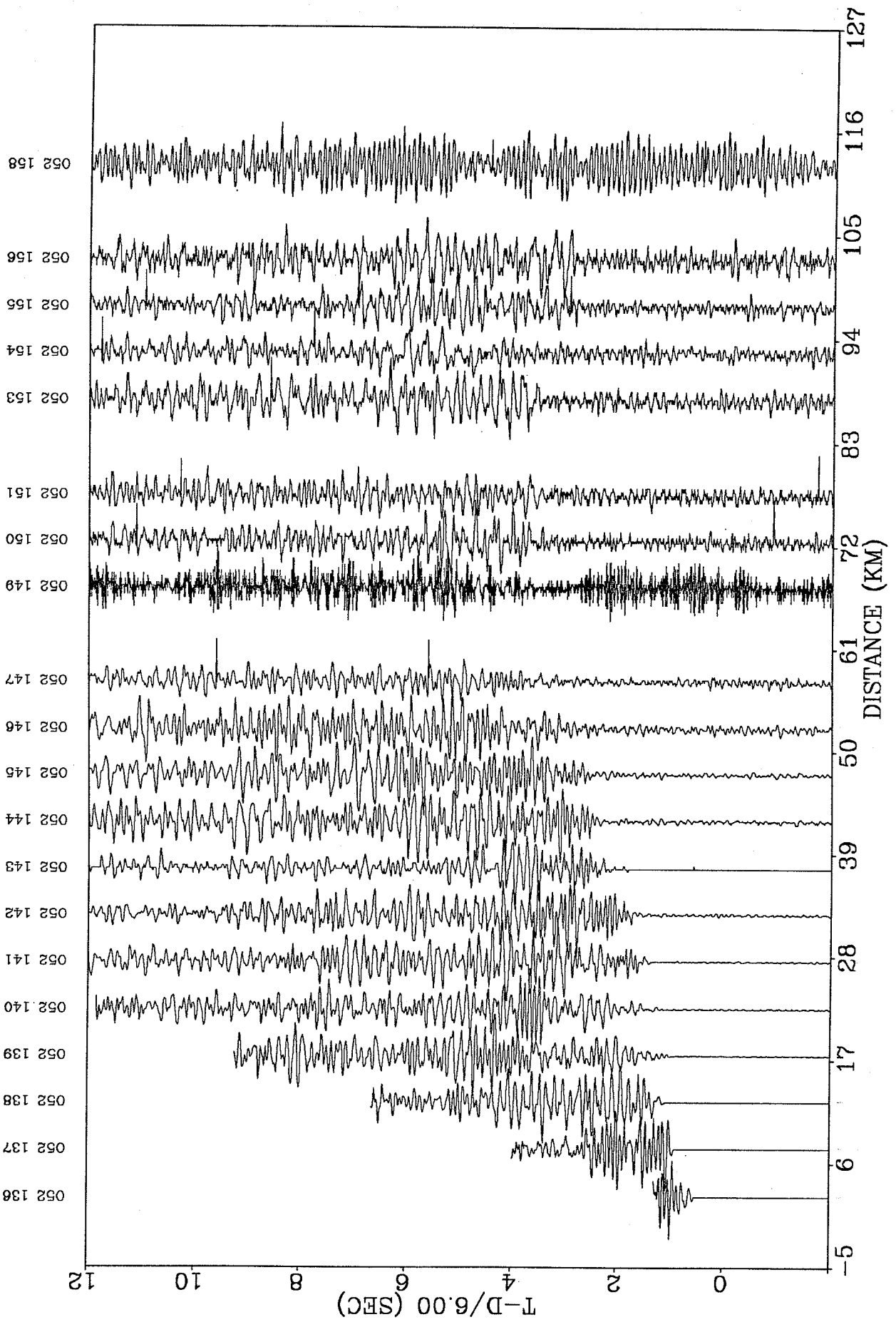


Fig. 22B - Seismic section OR shot 052



Line: I09 Shot: P55

** Ice Island 86 ** Field shot point: P1 Section: OR

Shot time: 1986 APR. 25 20:46: 0.00

Lat.: 81.46952 N, Long.: 98.53242 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
136	81.23829	95.69486	0.0	54.18	117.05	20:44:58.00	0.100	spz	LBOC	120
137	81.26048	95.95625	0.0	49.10	117.11	20:44:58.00	0.100	spz	LB09	120
138	81.28258	96.21479	0.0	44.07	117.12	20:44:58.00	0.100	spz	LBOA	120
140	81.32511	96.72678	0.0	34.20	117.23	20:44:58.00	0.100	spz	LB06	120
142	81.36865	97.25224	0.0	24.12	117.20	20:44:58.00	0.100	spz	LB08	120
139	81.30330	96.47118	0.0	39.16	117.27	20:44:58.00	0.100	spz	LB05	120
141	81.34668	96.99106	0.0	29.15	117.31	20:44:58.00	0.100	spz	LB02	120
143	81.38927	97.51560	0.0	19.15	117.40	20:44:58.00	0.100	spz	LB04	120
144	81.40983	97.78165	0.0	14.15	117.73	20:44:58.00	0.100	spz	LBOE	120
145	81.43068	98.05059	0.0	9.10	118.23	20:44:58.00	0.100	spz	LB01	120
146	81.45007	98.31190	0.0	4.25	120.60	20:44:58.00	0.100	spz	LB03	120
147	81.47095	98.58528	0.0	0.89	280.34	20:44:59.17	0.100	spz	BP22	120
148	81.49083	98.86510	0.0	6.00	293.54	20:44:59.17	0.100	spz	BP14	120
150	81.53029	99.40027	0.0	15.85	295.77	20:44:59.17	0.100	spz	BP11	120
149	81.51131	99.12650	0.0	10.87	295.72	20:44:59.19	0.100	spz	BP18	120
152	81.56858	99.95042	0.0	25.84	296.04	20:44:59.17	0.100	spz	BP12	120
151	81.55079	99.66568	0.0	20.77	296.46	20:44:59.18	0.100	spz	BP21	120
154	81.60783	100.50104	0.0	35.85	296.49	20:44:59.17	0.100	spz	BP13	120
158	81.68140	101.61718	0.0	55.74	296.64	20:44:59.17	0.100	spz	BP19	120
153	81.58987	100.22137	0.0	30.86	296.65	20:44:59.17	0.100	spz	BP16	120
155	81.62701	100.77670	0.0	40.82	296.63	20:44:59.19	0.100	spz	BP20	120
156	81.64658	101.05270	0.0	45.81	296.81	20:44:59.19	0.100	spz	BP10	120

Line: I09 Shot: P55
 ** Ice Island 86 ** Field shot point: P1 Section: OR
 Shot time: 1986 APR. 25 20:46: 0.00
 Lat.: 81.46952 N, Long.: 98.53242 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
147	81.47095	98.58528	0.0	0.89	280.34	20:44:59.17	0.100	spz	BP22	120
146	81.45007	98.31190	0.0	4.25	120.60	20:44:58.00	0.100	spz	LB03	120
148	81.49083	98.86510	0.0	6.00	293.54	20:44:59.17	0.100	spz	BP14	120
145	81.43068	98.05059	0.0	9.10	118.23	20:44:58.00	0.100	spz	LB01	120
149	81.51131	99.12650	0.0	10.87	295.72	20:44:59.19	0.100	spz	BP18	120
144	81.40983	97.78165	0.0	14.15	117.73	20:44:58.00	0.100	spz	LB0E	120
150	81.53029	99.40027	0.0	15.85	295.77	20:44:59.17	0.100	spz	BP11	120
143	81.38927	97.51560	0.0	19.15	117.40	20:44:58.00	0.100	spz	LB04	120
151	81.55079	99.66568	0.0	20.77	296.46	20:44:59.18	0.100	spz	BP21	120
142	81.36865	97.25224	0.0	24.12	117.20	20:44:58.00	0.100	spz	LB08	120
152	81.56858	99.95042	0.0	25.84	296.04	20:44:59.17	0.100	spz	BP12	120
141	81.34668	96.99106	0.0	29.15	117.31	20:44:58.00	0.100	spz	LB02	120
153	81.58987	100.22137	0.0	30.86	296.65	20:44:59.17	0.100	spz	BP16	120
140	81.32511	96.72678	0.0	34.20	117.23	20:44:58.00	0.100	spz	LB06	120
154	81.60783	100.50104	0.0	35.85	296.49	20:44:59.17	0.100	spz	BP13	120
139	81.30330	96.47118	0.0	39.16	117.27	20:44:58.00	0.100	spz	LB05	120
155	81.62701	100.77670	0.0	40.82	296.63	20:44:59.19	0.100	spz	BP20	120
138	81.28258	96.21479	0.0	44.07	117.12	20:44:58.00	0.100	spz	LB0A	120
156	81.64658	101.05270	0.0	45.81	296.81	20:44:59.19	0.100	spz	BP10	120
137	81.26048	95.95625	0.0	49.10	117.11	20:44:58.00	0.100	spz	LB09	120
136	81.23829	95.69486	0.0	54.18	117.05	20:44:58.00	0.100	spz	LB0C	120
158	81.68140	101.61718	0.0	55.74	296.64	20:44:59.17	0.100	spz	BP19	120

Fig. 23A - Water wave section OR shot P55

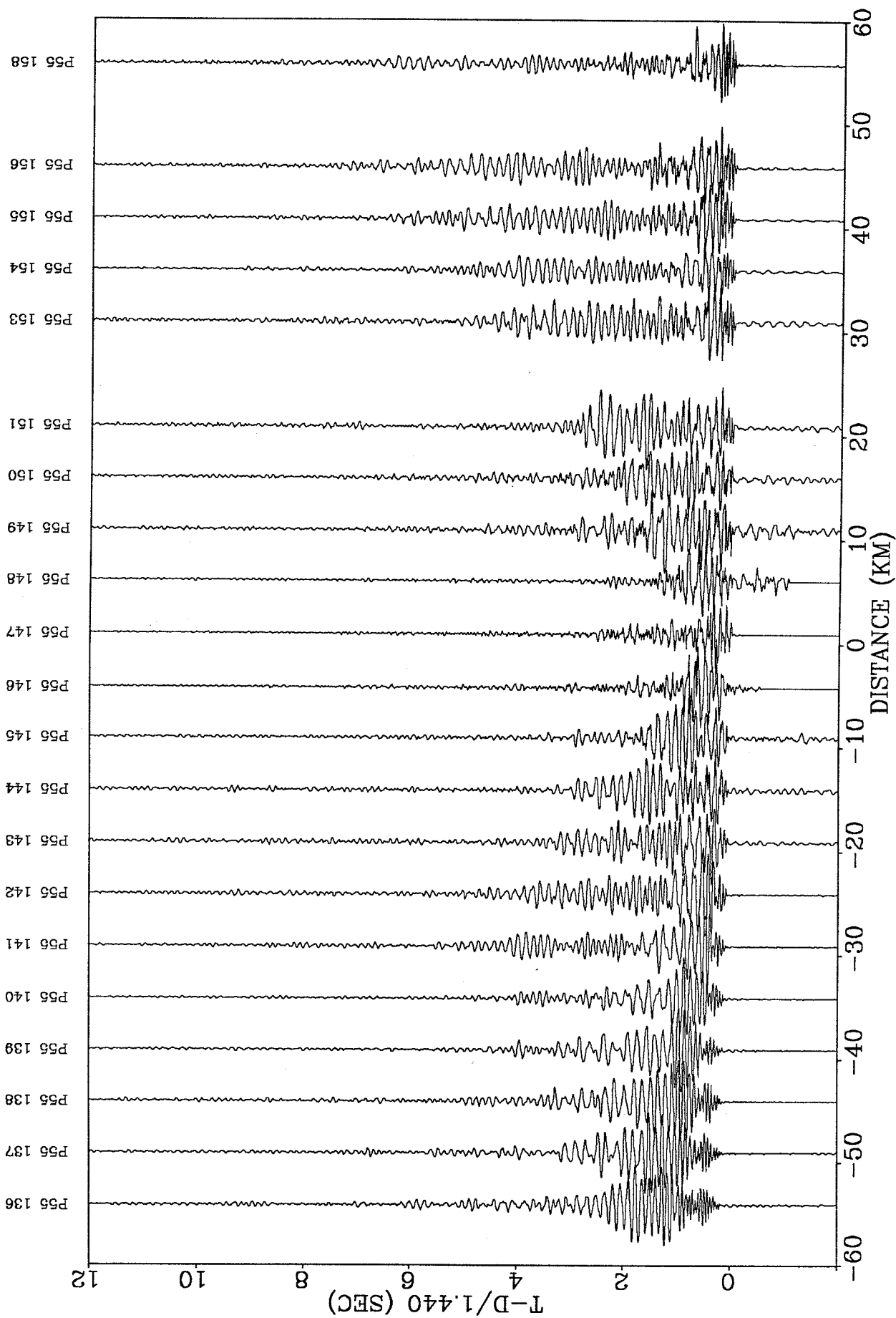
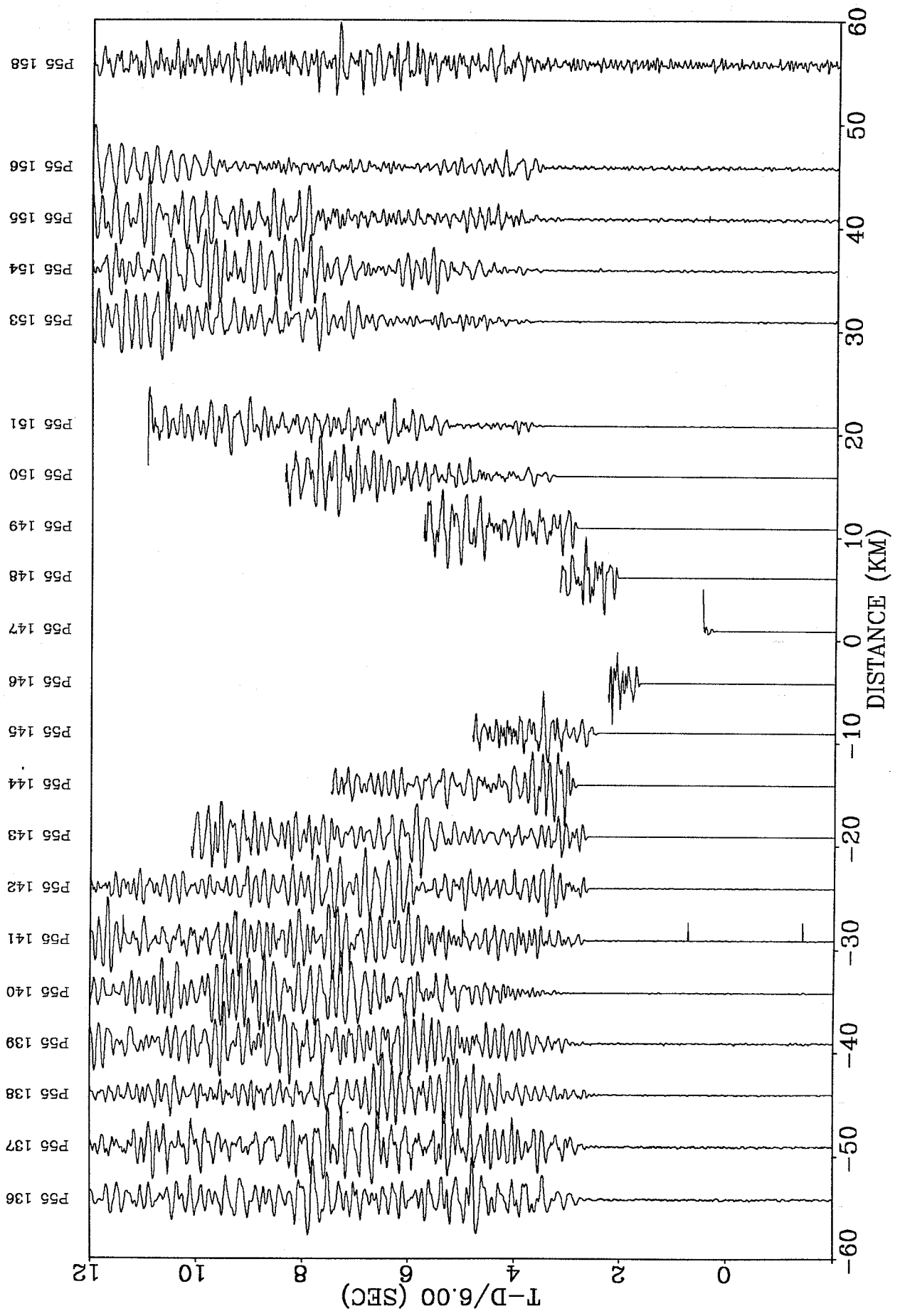


Fig. 23B - Seismic section OR shot P55



Line: I09 Shot: P56
 ** Ice Island 86 ** Field shot point: P2 Section: OR
 Shot time: 1986 APR. 25 21: 1: 0.00
 Lat.: 81.45884 N, Long.: 98.40851 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
136	81.23829	95.69486	0.0	51.81	117.03	20:59:58.00	0.100	spz	LB0C	120
142	81.36865	97.25224	0.0	21.75	117.01	20:59:58.00	0.100	spz	LB08	120
137	81.26048	95.95625	0.0	46.73	117.08	20:59:58.00	0.100	spz	LB09	120
138	81.28258	96.21479	0.0	41.70	117.08	20:59:58.00	0.100	spz	LB0A	120
143	81.38927	97.51560	0.0	16.78	117.14	20:59:58.00	0.100	spz	LB04	120
141	81.34668	96.99106	0.0	26.78	117.19	20:59:58.00	0.100	spz	LB02	120
140	81.32511	96.72678	0.0	31.83	117.14	20:59:58.00	0.100	spz	LB06	120
139	81.30330	96.47118	0.0	36.78	117.22	20:59:58.00	0.100	spz	LB05	120
144	81.40983	97.78165	0.0	11.78	117.38	20:59:58.00	0.100	spz	LB0E	120
145	81.43068	98.05059	0.0	6.73	117.69	20:59:58.00	0.100	spz	LB01	120
146	81.45007	98.31190	0.0	1.88	121.38	20:59:58.00	0.100	spz	LB03	120
147	81.47095	98.58528	0.0	3.23	294.86	20:59:59.18	0.100	spz	BP22	120
148	81.49083	98.86510	0.0	8.36	295.52	20:59:59.17	0.100	spz	BP14	120
150	81.53029	99.40027	0.0	18.22	296.46	20:59:59.18	0.100	spz	BP11	120
152	81.56858	99.95042	0.0	28.21	296.51	20:59:59.17	0.100	spz	BP12	120
149	81.51131	99.12650	0.0	13.24	296.62	20:59:59.19	0.100	spz	BP18	120
154	81.60783	100.50104	0.0	38.22	296.84	20:59:59.18	0.100	spz	BP13	120
158	81.68140	101.61718	0.0	58.11	296.90	20:59:59.17	0.100	spz	BP19	120
155	81.62701	100.77670	0.0	43.19	296.94	20:59:59.17	0.100	spz	BP20	120
151	81.55079	99.66568	0.0	23.14	296.96	20:59:59.18	0.100	spz	BP21	120
153	81.58987	100.22137	0.0	33.24	297.01	20:59:59.18	0.100	spz	BP16	120
156	81.64658	101.05270	0.0	48.18	297.10	20:59:59.17	0.100	spz	BP10	120

Line: I09 Shot: P56

** Ice Island 86 ** Field shot point: P2 Section: OR

Shot time: 1986 APR. 25 21: 1: 0.00

Lat.: 81.45884 N, Long.: 98.40851 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 163.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
146	81.45007	98.31190	0.0	1.88	121.38	20:59:58.00	0.100	spz	LB03	120
147	81.47095	98.58528	0.0	3.23	294.86	20:59:59.18	0.100	spz	BP22	120
145	81.43068	98.05059	0.0	6.73	117.69	20:59:58.00	0.100	spz	LB01	120
148	81.49083	98.86510	0.0	8.36	295.52	20:59:59.17	0.100	spz	BP14	120
144	81.40983	97.78165	0.0	11.78	117.38	20:59:58.00	0.100	spz	LB0E	120
149	81.51131	99.12650	0.0	13.24	296.62	20:59:59.19	0.100	spz	BP18	120
143	81.38927	97.51560	0.0	16.78	117.14	20:59:58.00	0.100	spz	LB04	120
150	81.53029	99.40027	0.0	18.22	296.46	20:59:59.18	0.100	spz	BP11	120
142	81.36865	97.25224	0.0	21.75	117.01	20:59:58.00	0.100	spz	LB08	120
151	81.55079	99.66568	0.0	23.14	296.96	20:59:59.18	0.100	spz	BP21	120
141	81.34668	96.99106	0.0	26.78	117.19	20:59:58.00	0.100	spz	LB02	120
152	81.56858	99.95042	0.0	28.21	296.51	20:59:59.17	0.100	spz	BP12	120
140	81.32511	96.72678	0.0	31.83	117.14	20:59:58.00	0.100	spz	LB06	120
153	81.58987	100.22137	0.0	33.24	297.01	20:59:59.18	0.100	spz	BP16	120
139	81.30330	96.47118	0.0	36.78	117.22	20:59:58.00	0.100	spz	LB05	120
154	81.60783	100.50104	0.0	38.22	296.84	20:59:59.18	0.100	spz	BP13	120
138	81.28258	96.21479	0.0	41.70	117.08	20:59:58.00	0.100	spz	LB0A	120
155	81.62701	100.77670	0.0	43.19	296.94	20:59:59.17	0.100	spz	BP20	120
137	81.26048	95.95625	0.0	46.73	117.08	20:59:58.00	0.100	spz	LB09	120
156	81.64658	101.05270	0.0	48.18	297.10	20:59:59.17	0.100	spz	BP10	120
136	81.23829	95.69486	0.0	51.81	117.03	20:59:58.00	0.100	spz	LB0C	120
158	81.68140	101.61718	0.0	58.11	296.90	20:59:59.17	0.100	spz	BP19	120

Fig. 24A - Water wave section OR shot P56

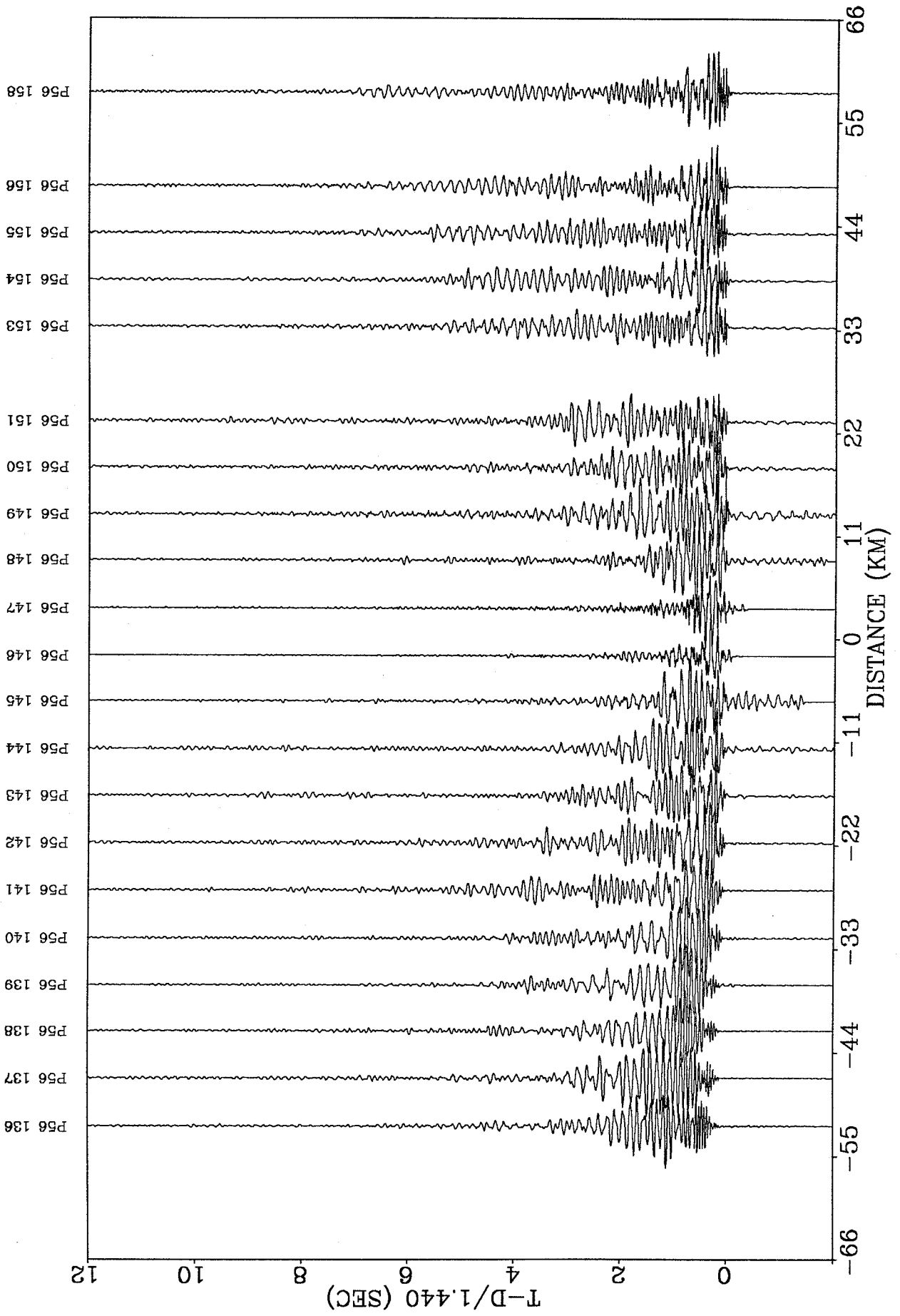
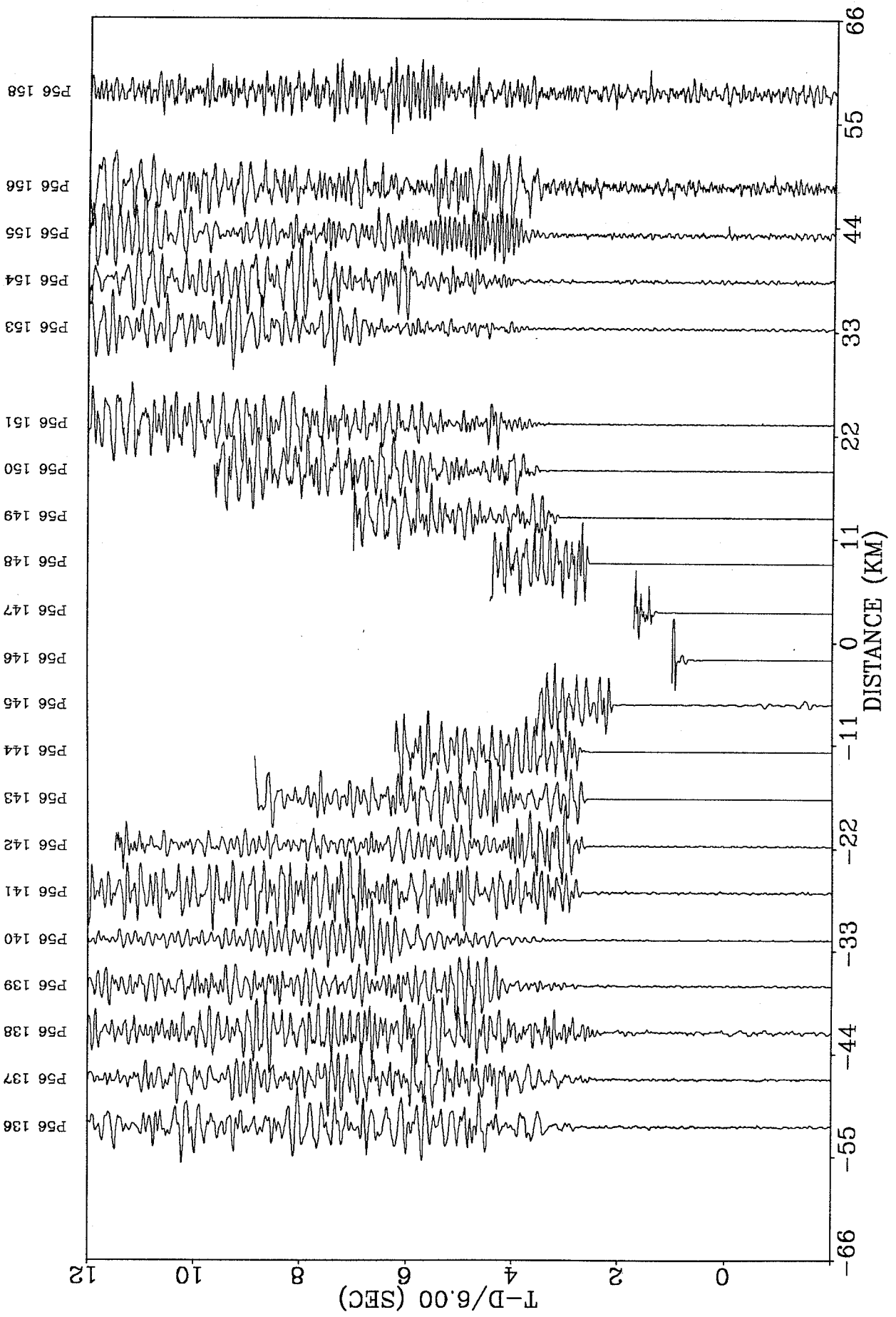


Fig. 24B - Seismic section OR shot P56



Line: I09 Shot: R51
 ** Ice Island 86 ** Field shot point: R1 Section: OR
 Shot time: 1986 APR. 25 19:31: 0.00
 Lat.: 81.68709 N, Long.: 101.91621 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 217.6 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
158	81.68140	101.61718	0.0	4.87	97.35	19:29:59.19	0.100	spz	BP19	120
156	81.64658	101.05270	0.0	14.69	107.50	19:29:59.18	0.100	spz	BP10	120
155	81.62701	100.77670	0.0	19.65	109.40	19:29:59.18	0.100	spz	BP20	120
154	81.60783	100.50104	0.0	24.61	110.38	19:29:59.18	0.100	spz	BP13	120
153	81.58987	100.22137	0.0	29.59	110.69	19:29:59.17	0.100	spz	BP16	120
152	81.56858	99.95042	0.0	34.60	111.51	19:29:59.18	0.100	spz	BP12	120
151	81.55079	99.66568	0.0	39.67	111.44	19:29:59.19	0.100	spz	BP21	120
150	81.53029	99.40027	0.0	44.59	111.87	19:29:59.19	0.100	spz	BP11	120
149	81.51131	99.12650	0.0	49.57	111.94	19:29:59.19	0.100	spz	BP18	120
148	81.49083	98.86510	0.0	54.44	112.22	19:30: 7.18	0.100	spz	BP14	120
147	81.47095	98.58528	0.0	59.58	112.24	19:29:59.19	0.100	spz	BP22	120
146	81.45007	98.31190	0.0	64.68	112.36	19:29:58.00	0.100	spz	LB03	120
145	81.43068	98.05059	0.0	69.53	112.39	19:29:58.00	0.100	spz	LB01	120
144	81.40983	97.78165	0.0	74.58	112.47	19:29:58.00	0.100	spz	LB0E	120
143	81.38927	97.51560	0.0	79.58	112.51	19:29:58.00	0.100	spz	LB04	120
142	81.36865	97.25224	0.0	84.55	112.54	19:29:58.00	0.100	spz	LB08	120
141	81.34668	96.99106	0.0	89.58	112.65	19:29:58.00	0.100	spz	LB02	120
140	81.32511	96.72678	0.0	94.63	112.69	19:29:58.00	0.100	spz	LB06	120
139	81.30330	96.47118	0.0	99.58	112.77	19:29:58.00	0.100	spz	LB05	120
138	81.28258	96.21479	0.0	104.50	112.76	19:29:58.00	0.100	spz	LB0A	120
137	81.26048	95.95625	0.0	109.52	112.80	19:29:58.00	0.100	spz	LB09	120
136	81.23829	95.69486	0.0	114.61	112.81	19:29:58.00	0.100	spz	LB0C	120

Fig. 25A - Water wave section OR shot R51

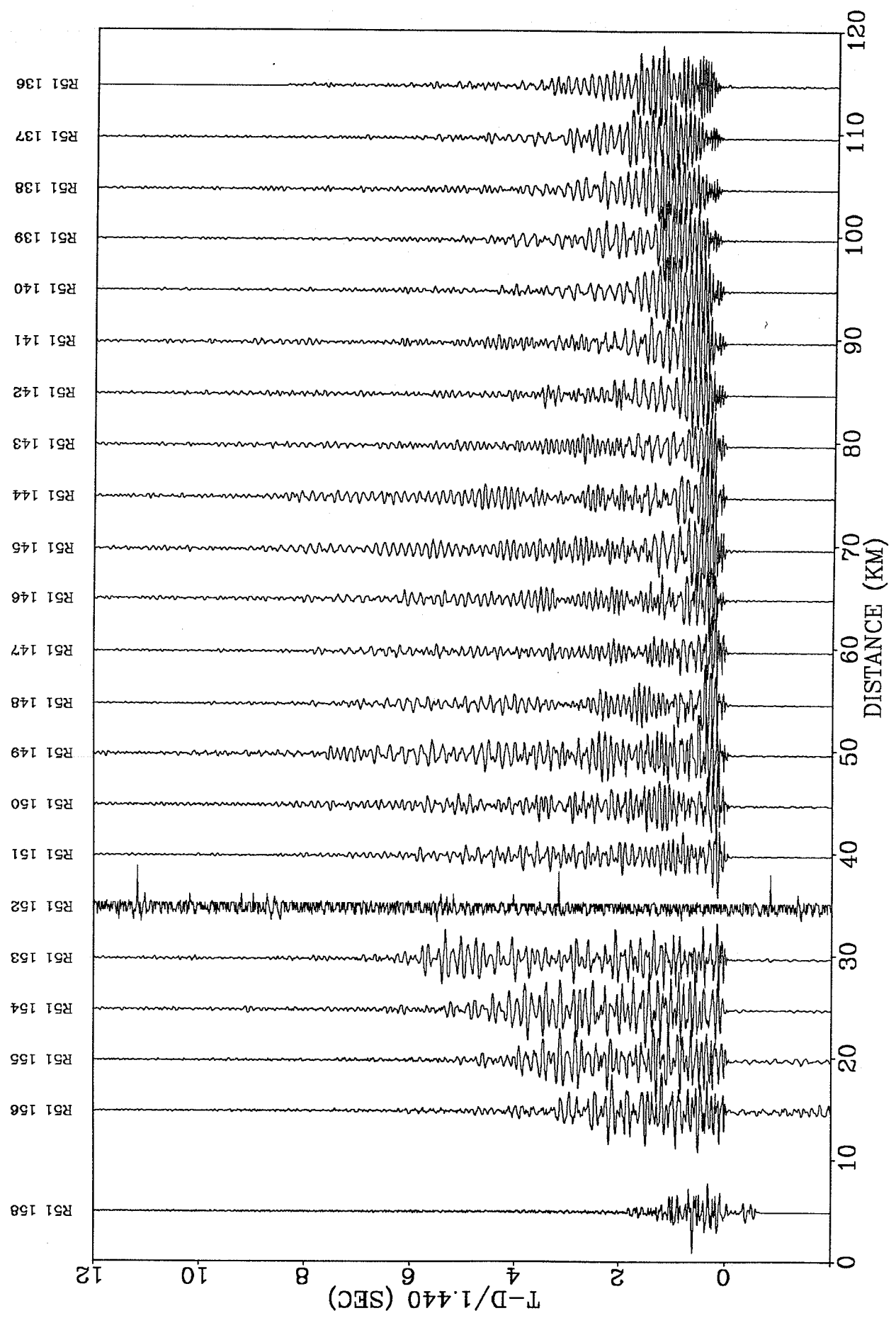
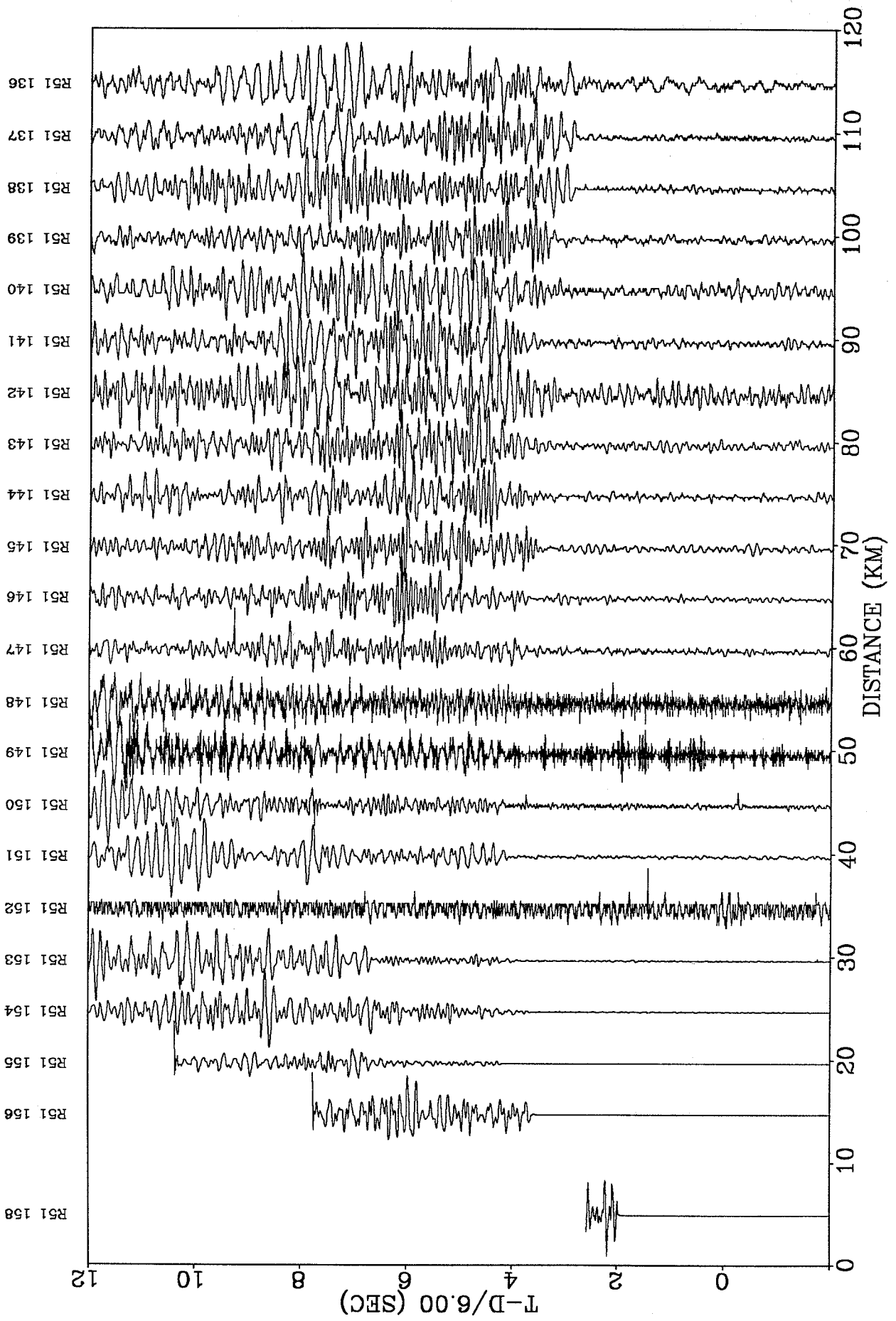


Fig. 25B - Seismic section OR shot R51



Line: I09 Shot: R53

** Ice Island 86 ** Field shot point: R2 Section: OR

Shot time: 1986 APR. 25 20: 1: 0.00

Lat.: 81.69739 N, Long.: 101.71249 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 217.6 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
158	81.68140		101.61718		0.0	2.36	139.20	19:59:59.18	0.100		spz	BP19	120
156	81.64658		101.05270		0.0	12.09	117.67	19:59:59.17	0.100		spz	BP10	120
155	81.62701		100.77670		0.0	17.07	116.94	19:59:59.17	0.100		spz	BP20	120
154	81.60783		100.50104		0.0	22.04	116.38	19:59:59.19	0.100		spz	BP13	120
153	81.58987		100.22137		0.0	27.02	115.65	19:59:59.17	0.100		spz	BP16	120
152	81.56858		99.95042		0.0	32.05	115.80	19:59:59.17	0.100		spz	BP12	120
151	81.55079		99.66568		0.0	37.11	115.16	19:59:59.18	0.100		spz	BP21	120
150	81.53029		99.40027		0.0	42.03	115.21	19:59:59.18	0.100		spz	BP11	120
149	81.51131		99.12650		0.0	47.01	114.95	19:59:59.18	0.100		spz	BP18	120
148	81.49083		98.86510		0.0	51.89	114.98	20: 0: 7.19	0.100		spz	BP14	120
147	81.47095		98.58528		0.0	57.02	114.77	19:59:59.17	0.100		spz	BP22	120
146	81.45007		98.31190		0.0	62.12	114.70	19:59:58.00	0.100		spz	LB03	120
145	81.43068		98.05059		0.0	66.97	114.58	19:59:58.00	0.100		spz	LB01	120
144	81.40983		97.78165		0.0	72.02	114.52	19:59:58.00	0.100		spz	LB0E	120
143	81.38927		97.51560		0.0	77.02	114.44	19:59:58.00	0.100		spz	LB04	120
142	81.36865		97.25224		0.0	82.00	114.37	19:59:58.00	0.100		spz	LB08	120
141	81.34668		96.99106		0.0	87.02	114.39	19:59:58.00	0.100		spz	LB02	120
140	81.32511		96.72678		0.0	92.08	114.35	19:59:58.00	0.100		spz	LB06	120
139	81.30330		96.47118		0.0	97.03	114.35	19:59:58.00	0.100		spz	LB05	120
138	81.28258		96.21479		0.0	101.94	114.28	19:59:58.00	0.100		spz	LBOA	120
137	81.26048		95.95625		0.0	106.97	114.25	19:59:58.00	0.100		spz	LB09	120
136	81.23829		95.69486		0.0	112.05	114.21	19:59:58.00	0.100		spz	LBOC	120

Fig. 26A - Water wave section OR shot R53

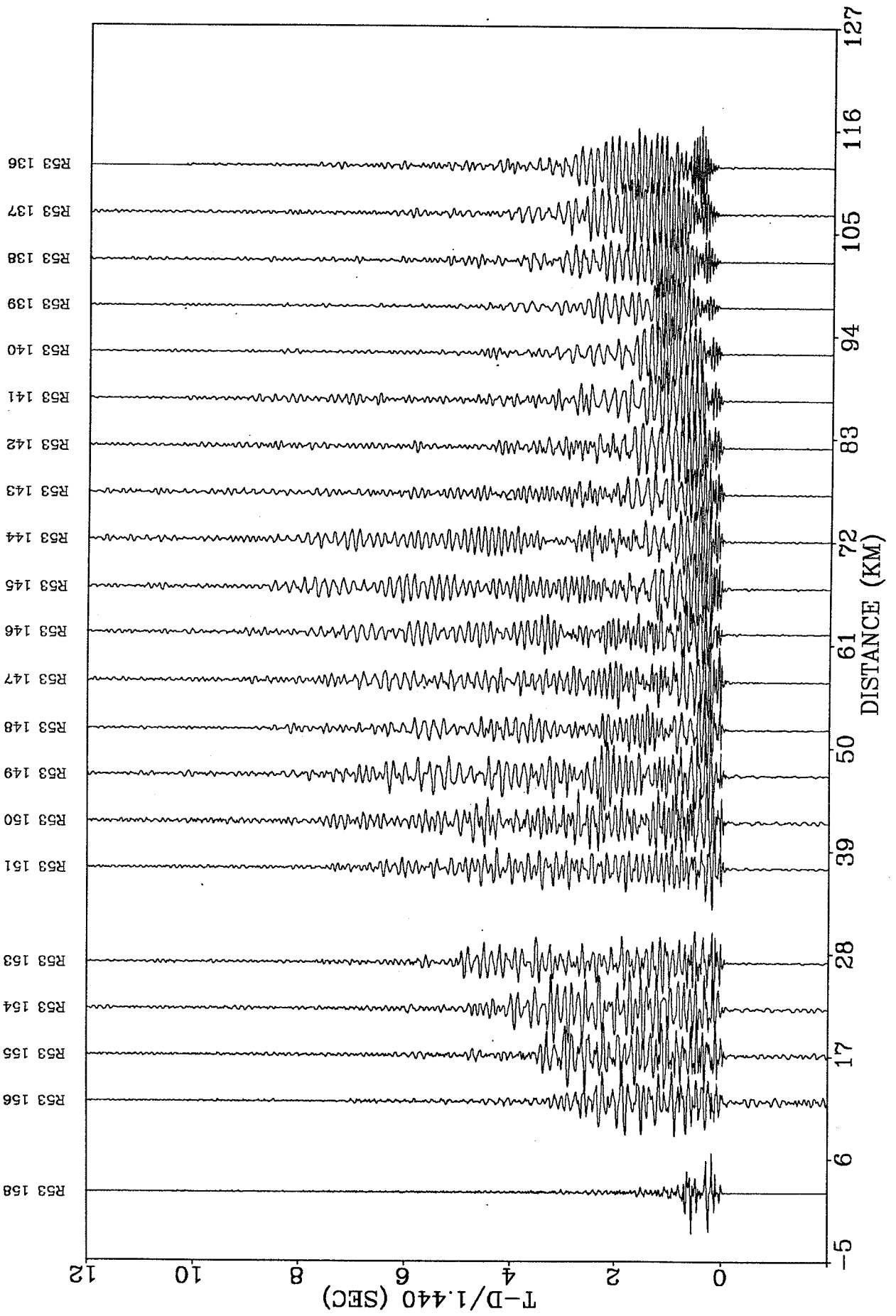
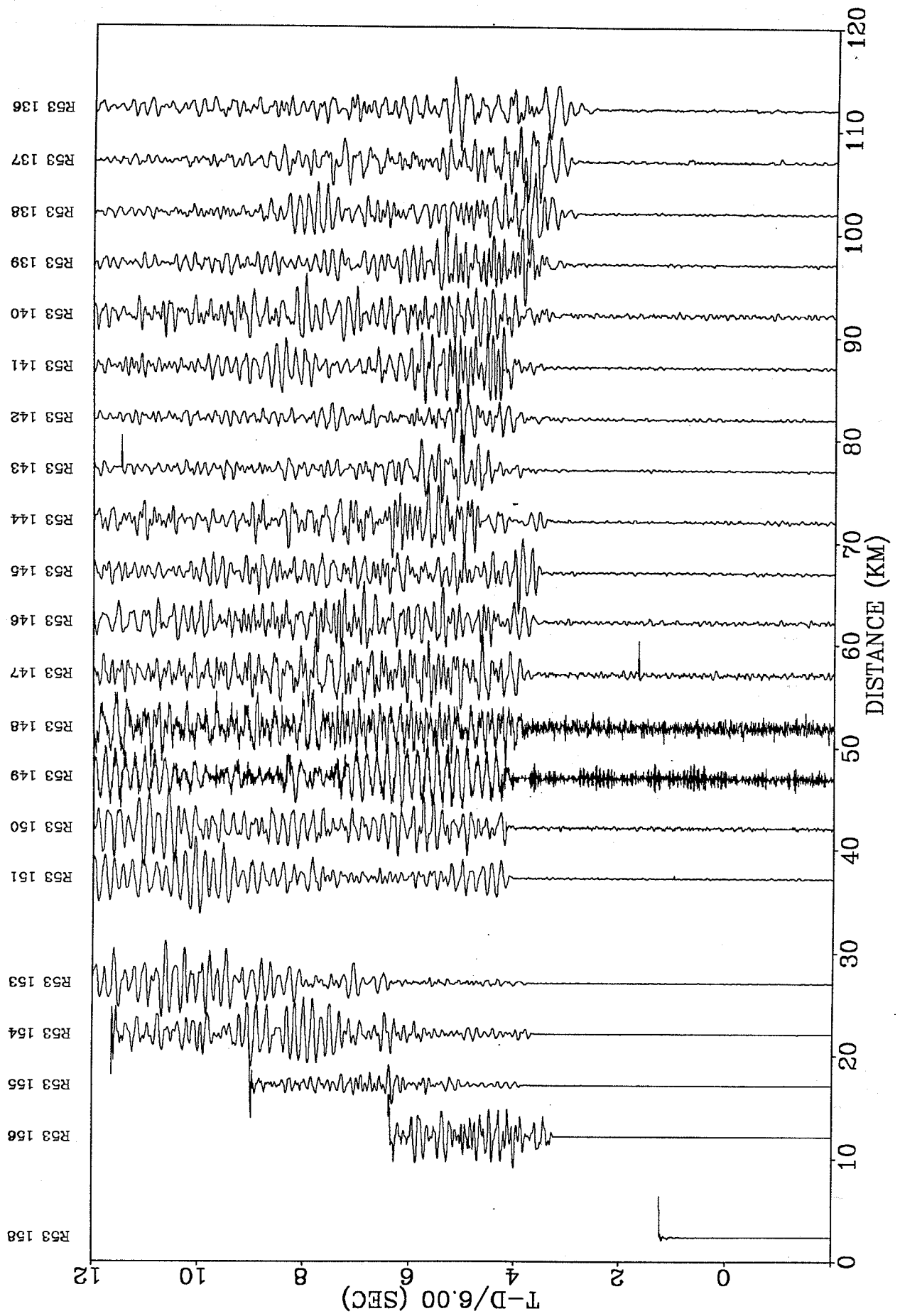


Fig. 26B - Seismic section OR shot R53



Line: I10 Shot: L58
 ** Ice Island 86 ** Field shot point: LiN Section: RT
 Shot time: 1986 APR. 28 19: 0: 0.00
 Lat.: 80.58585 N, Long.: 99.30566 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 544.0 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
182	80.84057		105.41332		0.0	113.64	287.49	18:59:59.18	0.100	spz	BP10	120	
181	80.88171		105.24606		0.0	111.77	290.10	18:59:59.17	0.100	spz	BP13	120	
180	80.92143		105.08799		0.0	110.27	292.69	18:59:59.17	0.100	spz	BP14	120	
179	80.96176		104.93629		0.0	109.16	295.37	18:59:59.17	0.100	spz	BP12	120	
178	81.00283		104.76479		0.0	108.03	298.20	18:59:59.18	0.100	spz	BP11	120	
177	81.04263		104.61366		0.0	107.46	300.93	18:59:59.19	0.100	spz	BP18	120	
176	81.08247		104.45594		0.0	107.05	303.71	18:59:59.19	0.100	spz	BP21	120	
174	81.16375		104.11520		0.0	106.82	309.50	18:59:59.19	0.100	spz	BP16	120	
173	81.20210		103.95466		0.0	107.13	312.22	18:59:59.19	0.100	spz	BP20	120	
172	81.24115		103.78528		0.0	107.64	315.00	18:59:59.18	0.100	spz	BP19	120	
171	81.28156		103.61653		0.0	108.54	317.79	18:59:59.17	0.100	spz	BP22	120	
170	81.32342		103.43779		0.0	109.72	320.65	18:59:58.00	0.100	spz	LB03	120	
169	81.35389		103.30288		0.0	110.70	322.71	18:59:58.00	0.100	spz	LB02	120	
168	81.39111		103.13251		0.0	112.06	325.21	18:59:58.00	0.100	spz	LB08	120	
167	81.42485		102.97948		0.0	113.51	327.41	18:59:58.00	0.100	spz	LB01	120	
166	81.45874		102.82841		0.0	115.16	329.53	18:59:58.00	0.100	spz	LB09	120	
165	81.49163		102.66836		0.0	116.81	331.61	18:59:58.00	0.100	spz	LB04	120	
164	81.52654		102.52464		0.0	118.95	333.57	18:59:58.00	0.100	spz	LB05	120	
163	81.56060		102.36749		0.0	121.06	335.52	18:59:58.00	0.100	spz	LB0E	120	
162	81.59317		102.21364		0.0	123.19	337.34	18:59:58.00	0.100	spz	LB0C	120	
161	81.62691		102.04853		0.0	125.50	339.19	18:59:58.00	0.100	spz	LB06	120	
160	81.66243		101.88185		0.0	128.13	341.00	18:59:58.00	0.100	spz	LB0A	120	

Line: I10 Shot: L58

** Ice Island 86 ** Field shot point: L1N Section: RT

Shot time: 1986 APR. 28 19: 0: 0.00

Lat.: 80.58585 N, Long.: 99.30566 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 544.0 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
174	81.16375		104.11520		0.0	106.82	309.50	18:59:59.19	0.100		spz	BP16	120
176	81.08247		104.45594		0.0	107.05	303.71	18:59:59.19	0.100		spz	BP21	120
173	81.20210		103.95466		0.0	107.13	312.22	18:59:59.19	0.100		spz	BP20	120
177	81.04263		104.61366		0.0	107.46	300.93	18:59:59.19	0.100		spz	BP18	120
172	81.24115		103.78528		0.0	107.64	315.00	18:59:59.18	0.100		spz	BP19	120
178	81.00283		104.76479		0.0	108.03	298.20	18:59:59.18	0.100		spz	BP11	120
171	81.28156		103.61653		0.0	108.54	317.79	18:59:59.17	0.100		spz	BP22	120
179	80.96176		104.93629		0.0	109.16	295.37	18:59:59.17	0.100		spz	BP12	120
170	81.32342		103.43779		0.0	109.72	320.65	18:59:58.00	0.100		spz	LB03	120
180	80.92143		105.08799		0.0	110.27	292.69	18:59:59.17	0.100		spz	BP14	120
169	81.35389		103.30288		0.0	110.70	322.71	18:59:58.00	0.100		spz	LB02	120
181	80.88171		105.24606		0.0	111.77	290.10	18:59:59.17	0.100		spz	BP13	120
168	81.39111		103.13251		0.0	112.06	325.21	18:59:58.00	0.100		spz	LB08	120
167	81.42485		102.97948		0.0	113.51	327.41	18:59:58.00	0.100		spz	LB01	120
182	80.84057		105.41332		0.0	113.64	287.49	18:59:59.18	0.100		spz	BP10	120
166	81.45874		102.82841		0.0	115.16	329.53	18:59:58.00	0.100		spz	LB09	120
165	81.49163		102.66836		0.0	116.81	331.61	18:59:58.00	0.100		spz	LB04	120
164	81.52654		102.52464		0.0	118.95	333.57	18:59:58.00	0.100		spz	LB05	120
163	81.56060		102.36749		0.0	121.06	335.52	18:59:58.00	0.100		spz	LBOE	120
162	81.59317		102.21364		0.0	123.19	337.34	18:59:58.00	0.100		spz	LBOC	120
161	81.62691		102.04853		0.0	125.50	339.19	18:59:58.00	0.100		spz	LB06	120
160	81.66243		101.88185		0.0	128.13	341.00	18:59:58.00	0.100		spz	LBOA	120

Fig. 27A - Water wave section RT shot L58

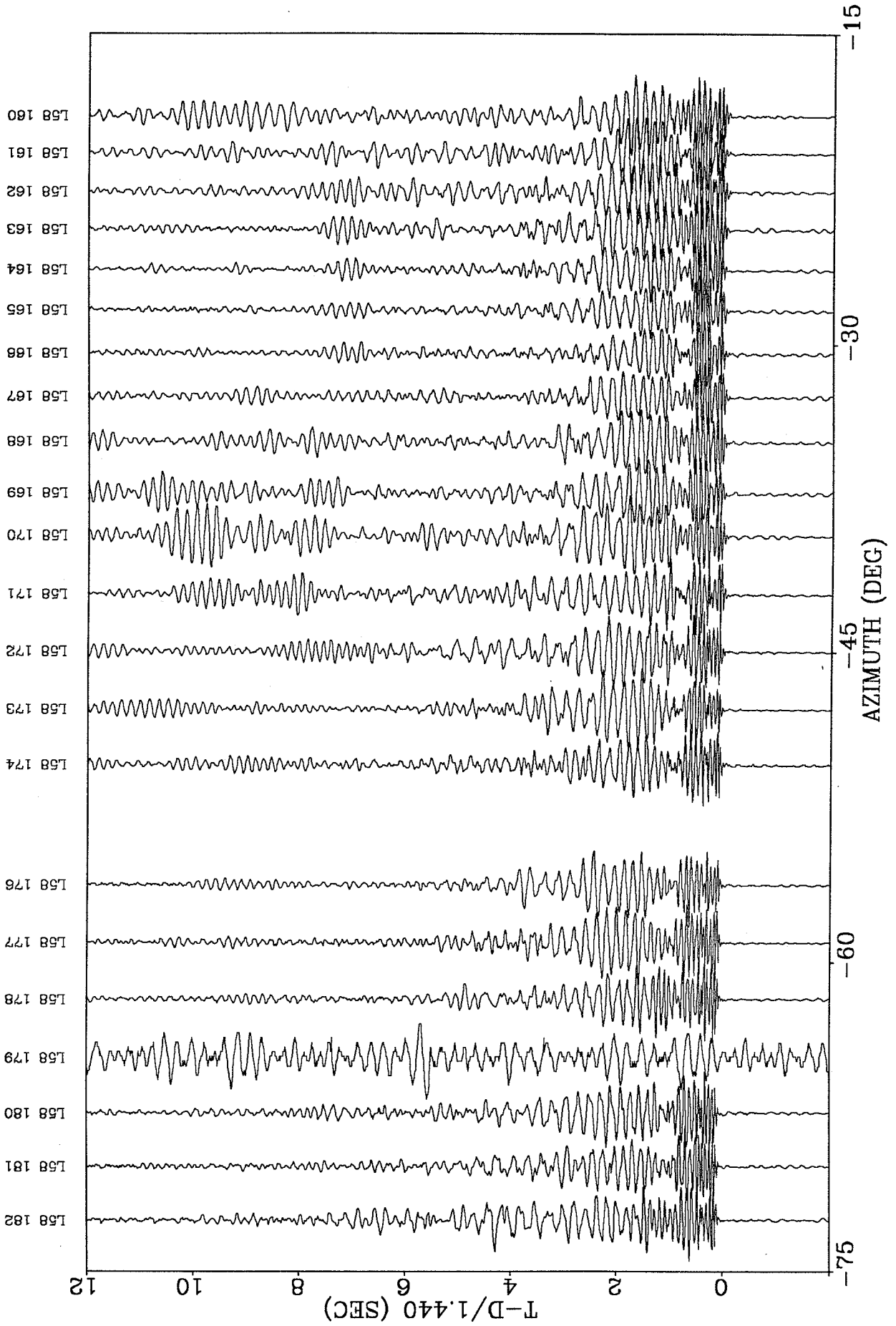
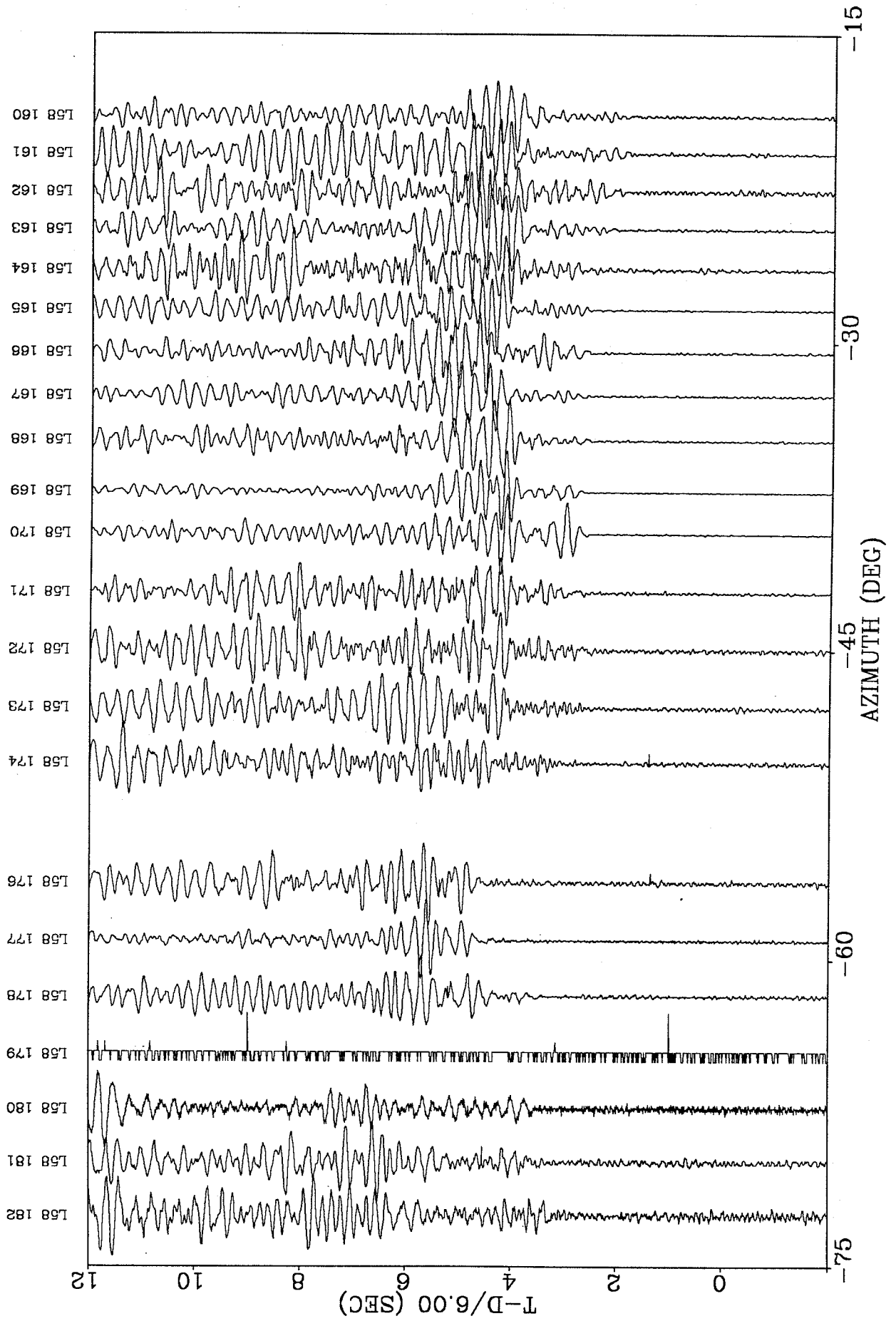


Fig. 27B - Seismic section RT shot L58



Line: I10 Shot: Q66
 ** Ice Island 86 ** Field shot point: Q1 Section: RT
 Shot time: 1986 APR. 28 22:20: 0.00
 Lat.: 82.08203 N, Long.: 99.84119 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 489.6 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
160	81.66243	101.88185	0.0	56.86	215.53	22:19:58.00	0.100	spz	LB0A	120			
161	81.62691	102.04853	0.0	61.66	215.60	22:19:58.00	0.100	spz	LB06	120			
162	81.59317	102.21364	0.0	66.29	215.75	22:19:58.00	0.100	spz	LB0C	120			
163	81.56060	102.36749	0.0	70.71	215.83	22:19:58.00	0.100	spz	LB0E	120			
164	81.52654	102.52464	0.0	75.31	215.89	22:19:58.00	0.100	spz	LB05	120			
165	81.49163	102.66836	0.0	79.87	215.78	22:19:58.00	0.100	spz	LB04	120			
166	81.45874	102.82841	0.0	84.39	215.94	22:19:58.00	0.100	spz	LB09	120			
167	81.42485	102.97948	0.0	88.93	215.97	22:19:58.00	0.100	spz	LB01	120			
168	81.39111	103.13251	0.0	93.49	216.04	22:19:58.00	0.100	spz	LB08	120			
169	81.35389	103.30288	0.0	98.53	216.13	22:19:58.00	0.100	spz	LB02	120			
170	81.32342	103.43779	0.0	102.61	216.17	22:19:58.00	0.100	spz	LB03	120			
171	81.28156	103.61653	0.0	108.18	216.19	22:19:59.18	0.100	spz	BP22	120			
172	81.24115	103.78528	0.0	113.52	216.19	22:19:59.18	0.100	spz	BP19	120			
173	81.20210	103.95466	0.0	118.75	216.25	22:19:59.17	0.100	spz	BP20	120			
174	81.16375	104.11520	0.0	123.84	216.27	22:19:59.16	0.100	spz	BP16	120			
176	81.08247	104.45594	0.0	134.65	216.35	22:19:59.17	0.100	spz	BP21	120			
177	81.04263	104.61366	0.0	139.87	216.35	22:19:59.18	0.100	spz	BP18	120			
178	81.00283	104.76479	0.0	145.04	216.32	22:19:59.17	0.100	spz	BP11	120			
179	80.96176	104.93629	0.0	150.52	216.38	22:19:59.18	0.100	spz	BP12	120			
180	80.92143	105.08799	0.0	155.75	216.36	22:19:59.17	0.100	spz	BP14	120			
181	80.88171	105.24606	0.0	160.99	216.40	22:19:59.19	0.100	spz	BP13	120			
182	80.84057	105.41332	0.0	166.46	216.46	22:19:59.19	0.100	spz	BP10	120			

Fig. 28A - Water wave section RT shot Q66

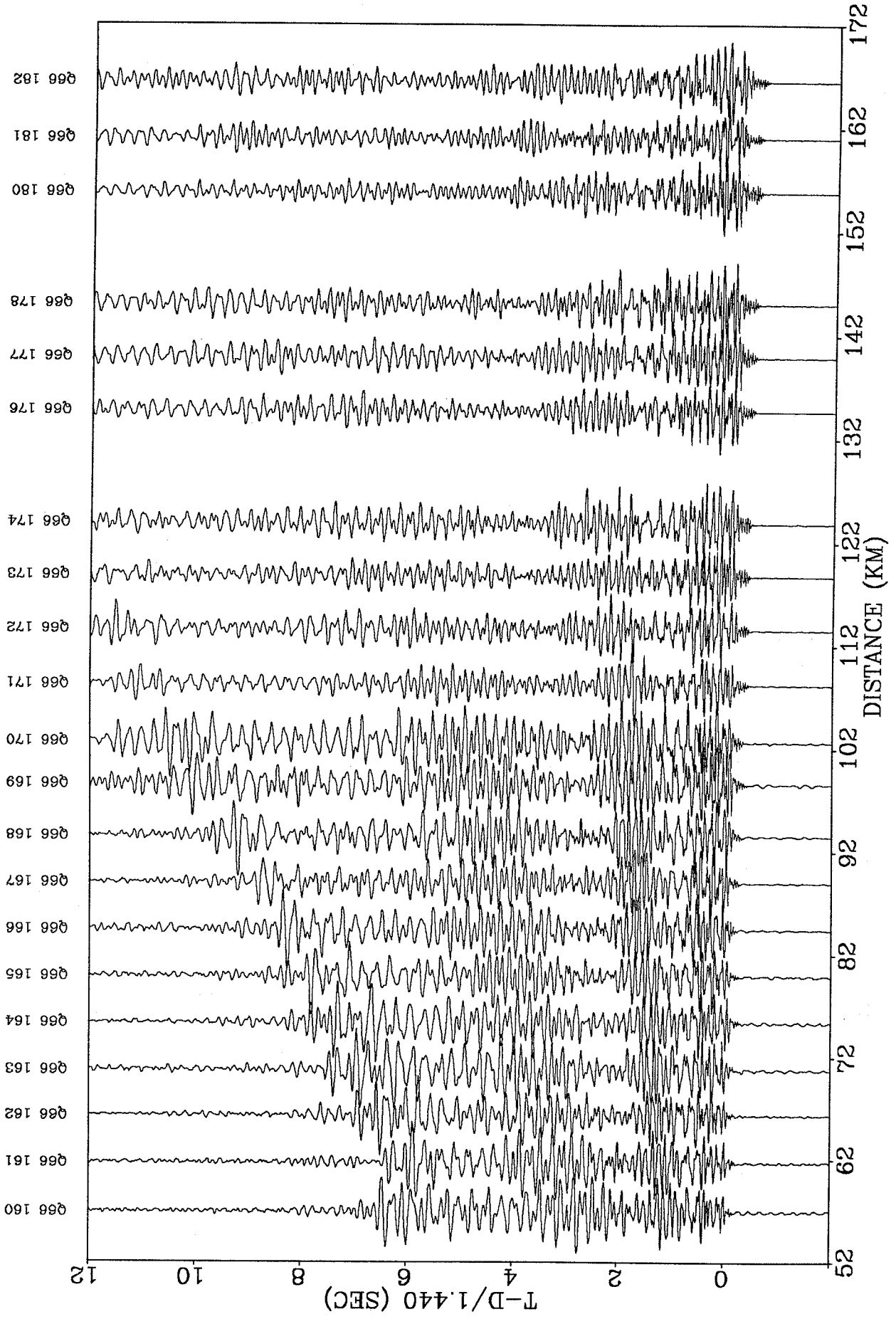
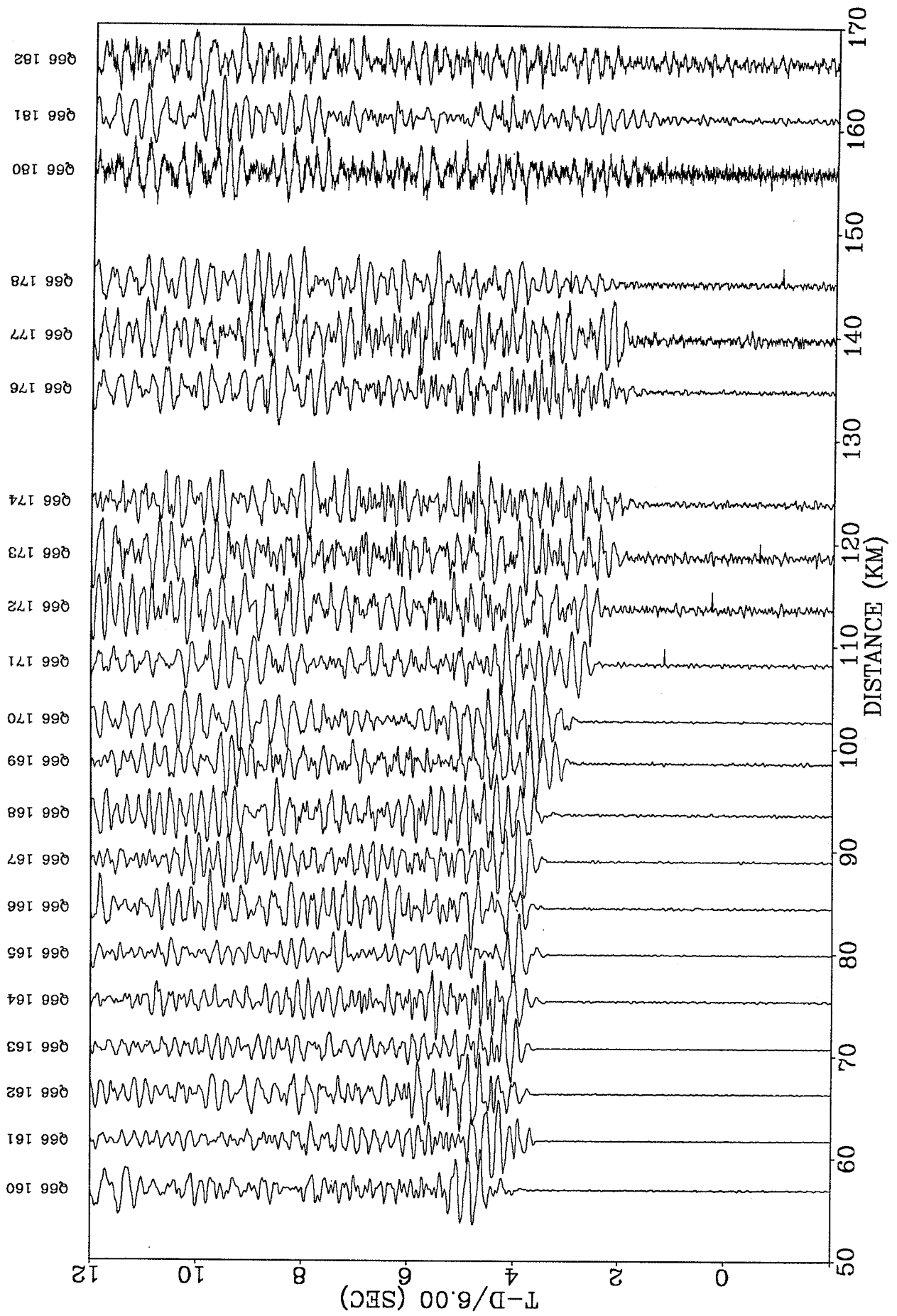


Fig. 28B - Seismic section RT shot Q66



Line: 10 Shot: R59
 ** Ice Island 86 ** Field shot point: R3 Section: RT
 Shot time: 1986 APR. 28 19:20: 0.00
 Lat.: 81.68044 N, Long.: 101.81956 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 299.2 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
160	81.66243	101.88185	0.0	2.25	206.65	19:19:58.00	0.000		LBOA	120
161	81.62691	102.04853	0.0	7.04	211.95	19:19:58.00	0.000		LB06	120
162	81.59317	102.21364	0.0	11.66	213.50	19:19:58.00	0.000		LBOC	120
165	81.49163	102.66836	0.0	25.24	213.76	19:19:58.00	0.000		LB04	120
163	81.56060	102.36749	0.0	16.08	213.95	19:19:58.00	0.000		LBOE	120
164	81.52654	102.52464	0.0	20.68	214.14	19:19:58.00	0.000		LB05	120
166	81.45874	102.82841	0.0	29.76	214.21	19:19:58.00	0.000		LB09	120
167	81.42485	102.97948	0.0	34.30	214.27	19:19:58.00	0.000		LB01	120
168	81.39111	103.13251	0.0	38.86	214.40	19:19:58.00	0.000		LB08	120
169	81.35389	103.30288	0.0	43.90	214.56	19:19:58.00	0.000		LB02	120
172	81.24115	103.78528	0.0	58.89	214.58	19:19:59.17	0.000		BP19	120
171	81.28156	103.61653	0.0	53.55	214.61	19:19:59.17	0.000		BP22	120
170	81.32342	103.43779	0.0	47.99	214.62	19:19:58.00	0.000		LB03	120
174	81.16375	104.11520	0.0	69.21	214.67	19:19:59.18	0.000		BP16	120
178	81.00283	104.76479	0.0	90.41	214.66	19:19:59.17	0.000		BP11	120
173	81.20210	103.95466	0.0	64.12	214.66	19:19:59.18	0.000		BP20	120
181	80.88171	105.24606	0.0	106.37	214.74	19:19:59.18	0.000		BP13	120
179	80.96176	104.93629	0.0	95.89	214.75	19:19:59.18	0.000		BP12	120
176	81.08247	104.45594	0.0	80.02	214.76	19:19:59.18	0.000		BP21	120
177	81.04263	104.61366	0.0	85.25	214.74	19:19:59.17	0.000		BP18	120
180	80.92143	105.08799	0.0	101.12	214.70	19:19:59.18	0.000		BP14	120
182	80.84057	105.41332	0.0	111.83	214.82	19:19:59.18	0.000		BP10	120

Fig. 29A - Water wave section RT shot R59

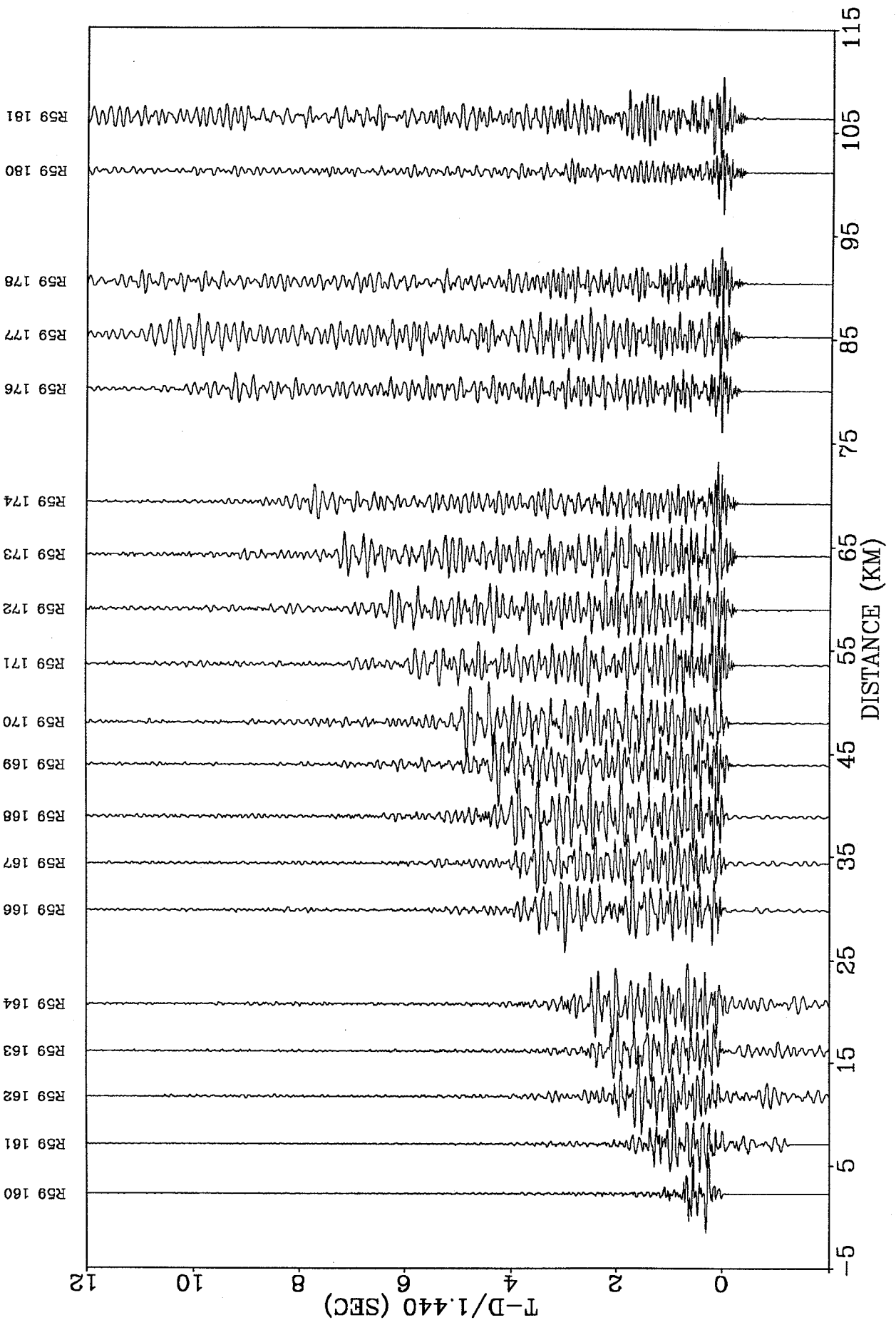
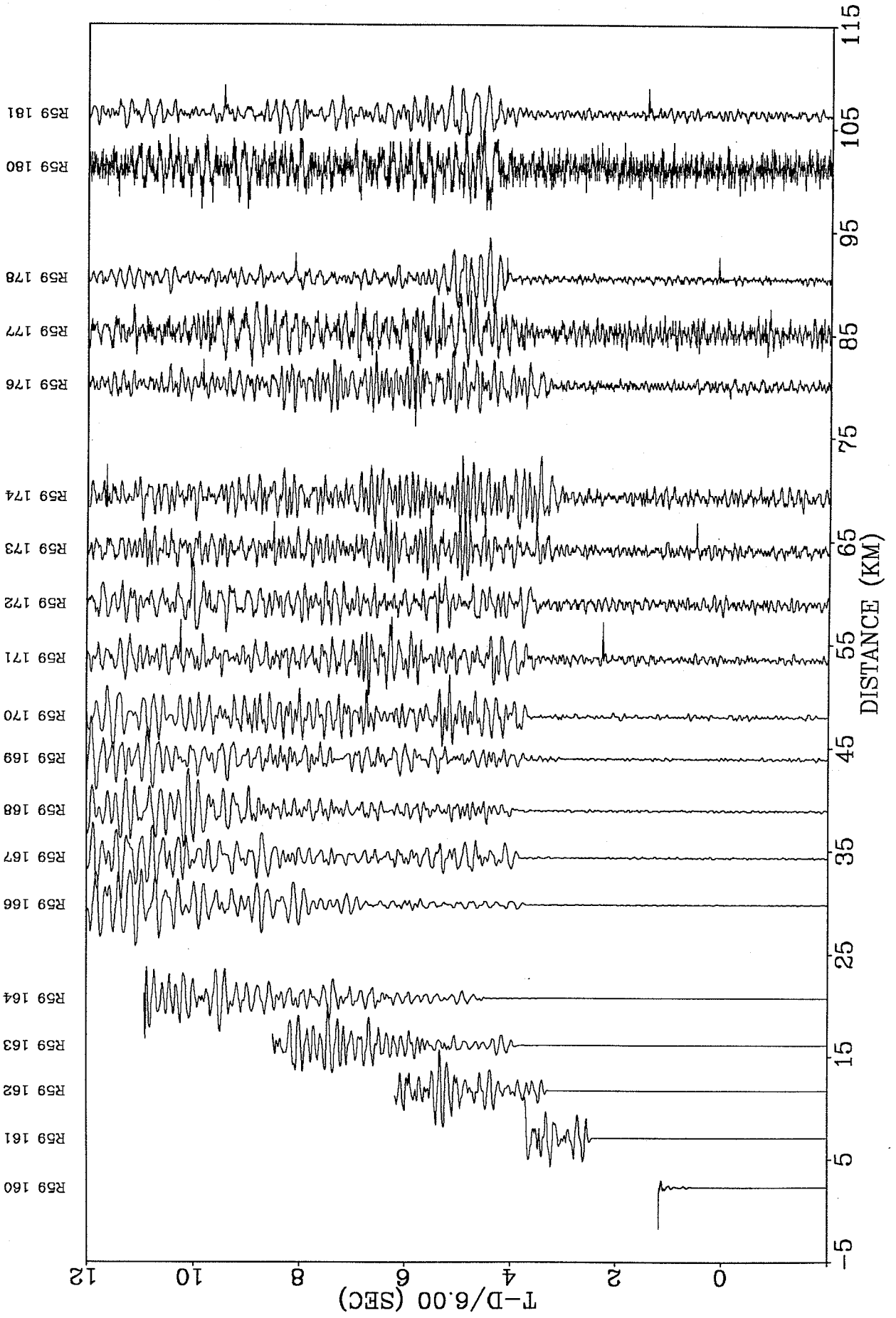


Fig. 29B - Seismic section RT shot R59



Line: I10 Shot: R61
 ** Ice Island 86 ** Field shot point: R2 Section: RT
 Shot time: 1986 APR. 28 20: 0: 0.00
 Lat.: 81.69569 N, Long.: 101.71021 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 244.8 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
160	81.66243		101.88185		0.0	4.64	216.84	19:59:58.00	0.100		spz	LBOA	120
161	81.62691		102.04853		0.0	9.44	215.67	19:59:58.00	0.100		spz	LB06	120
162	81.59317		102.21364		0.0	14.07	215.76	19:59:58.00	0.100		spz	LB0C	120
163	81.56060		102.36749		0.0	18.49	215.64	19:59:58.00	0.100		spz	LB0E	120
164	81.52654		102.52464		0.0	23.09	215.49	19:59:58.00	0.100		spz	LB05	120
165	81.49163		102.66836		0.0	27.64	214.95	19:59:58.00	0.100		spz	LB04	120
166	81.45874		102.82841		0.0	32.17	215.21	19:59:58.00	0.100		spz	LB09	120
167	81.42485		102.97948		0.0	36.71	215.15	19:59:58.00	0.100		spz	LB01	120
168	81.39111		103.13251		0.0	41.26	215.19	19:59:58.00	0.100		spz	LB08	120
169	81.35389		103.30288		0.0	46.30	215.27	19:59:58.00	0.100		spz	LB02	120
170	81.32342		103.43779		0.0	50.39	215.28	19:59:58.00	0.100		spz	LB03	120
171	81.28156		103.61653		0.0	55.96	215.22	19:59:59.19	0.100		spz	BP22	120
172	81.24115		103.78528		0.0	61.30	215.14	19:59:59.18	0.100		spz	BP19	120
173	81.20210		103.95466		0.0	66.53	215.18	19:59:59.17	0.100		spz	BP20	120
174	81.16375		104.11520		0.0	71.62	215.17	19:59:59.19	0.100		spz	BP16	120
176	81.08247		104.45594		0.0	82.43	215.20	19:59:59.17	0.100		spz	BP21	120
177	81.04263		104.61366		0.0	87.65	215.16	19:59:59.17	0.100		spz	BP18	120
178	81.00283		104.76479		0.0	92.82	215.07	19:59:59.17	0.100		spz	BP11	120
179	80.96176		104.93629		0.0	98.30	215.14	19:59:59.17	0.100		spz	BP12	120
180	80.92143		105.08799		0.0	103.53	215.08	19:59:59.17	0.100		spz	BP14	120
181	80.88171		105.24606		0.0	108.77	215.10	19:59:59.17	0.100		spz	BP13	120
182	80.84057		105.41332		0.0	114.24	215.17	19:59:59.18	0.100		spz	BP10	120

Fig. 30A - Water wave section RT shot R61

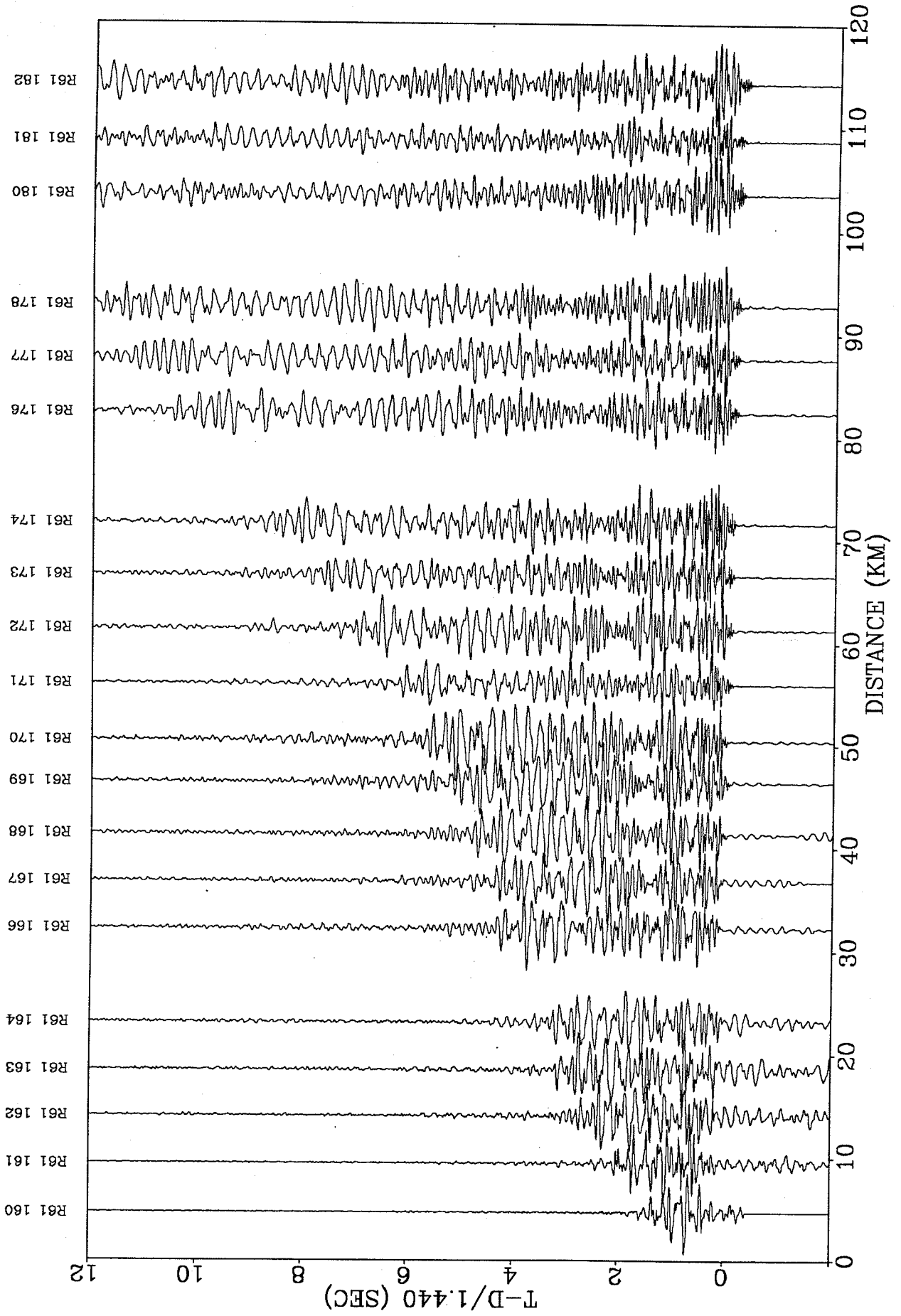
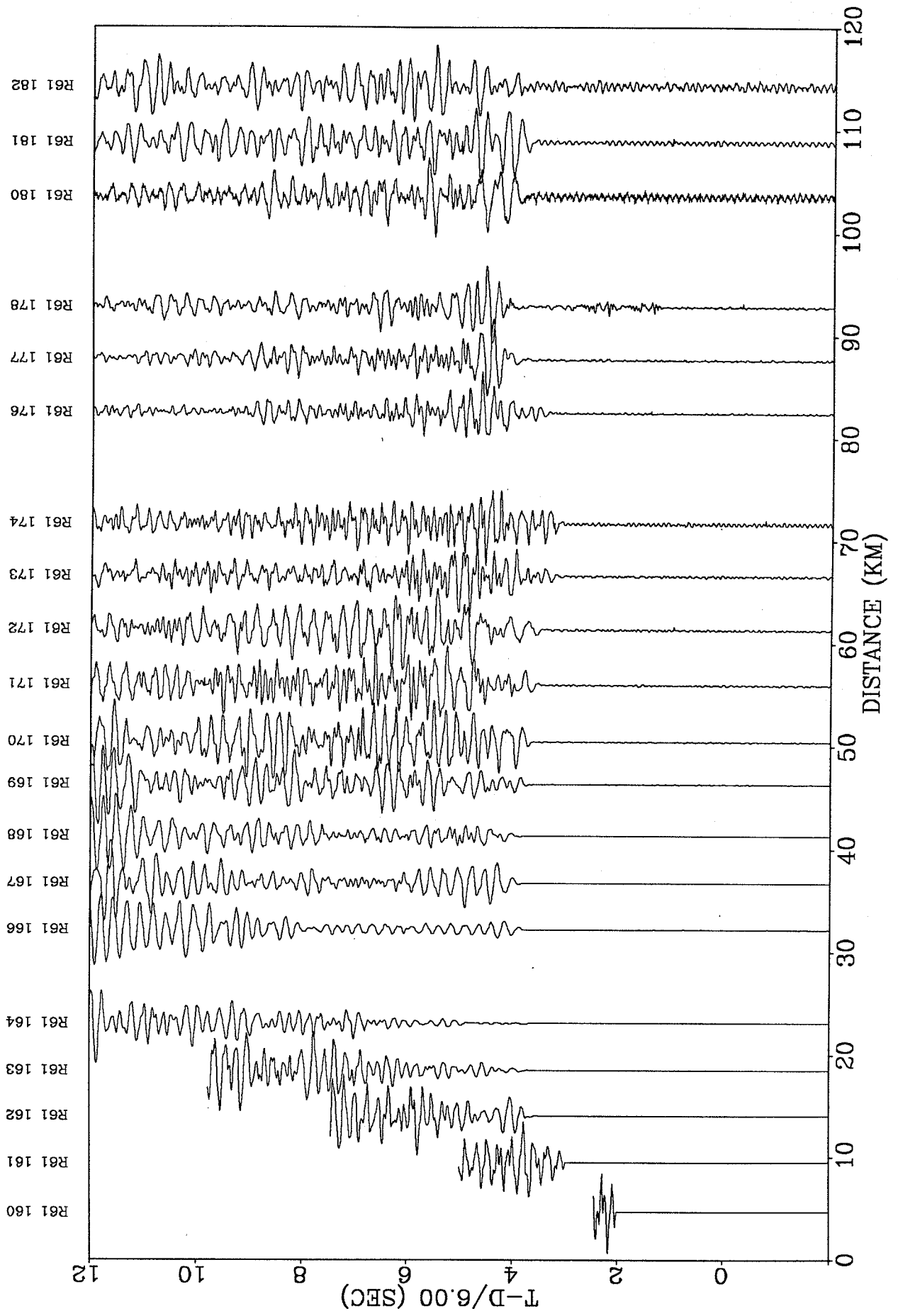


Fig. 30B - Seismic section RT shot R61



Line: I10 Shot: S64
 ** Ice Island 86 ** Field shot point: S1 Section: RT
 Shot time: 1986 APR. 28 21:21: 0.00
 Lat.: 81.28555 N, Long.: 103.55157 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 190.4 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
171	81.28156	103.61653	0.0	1.19	247.97	21:19:59.18	0.100	spz	BP22	120
170	81.32342	103.43779	0.0	4.65	24.38	21:19:58.00	0.100	spz	LB03	120
172	81.24115	103.78528	0.0	6.35	218.77	21:19:59.17	0.100	spz	BP19	120
169	81.35389	103.30288	0.0	8.71	28.66	21:19:58.00	0.100	spz	LB02	120
173	81.20210	103.95466	0.0	11.57	216.53	21:19:59.18	0.100	spz	BP20	120
168	81.39111	103.13251	0.0	13.73	30.67	21:19:58.00	0.100	spz	LB08	120
174	81.16375	104.11520	0.0	16.65	215.50	21:19:59.17	0.100	spz	BP16	120
167	81.42485	102.97948	0.0	18.28	31.41	21:19:58.00	0.100	spz	LB01	120
166	81.45874	102.82841	0.0	22.82	31.71	21:19:58.00	0.100	spz	LB09	120
165	81.49163	102.66836	0.0	27.35	32.26	21:19:58.00	0.100	spz	LB04	120
176	81.08247	104.45594	0.0	27.46	214.77	21:19:59.17	0.100	spz	BP21	120
164	81.52654	102.52464	0.0	31.91	31.98	21:19:58.00	0.100	spz	LB05	120
177	81.04263	104.61366	0.0	32.68	214.42	21:19:59.17	0.100	spz	BP18	120
163	81.56060	102.36749	0.0	36.50	32.12	21:19:58.00	0.100	spz	LBOE	120
178	81.00283	104.76479	0.0	37.84	214.06	21:19:59.17	0.100	spz	BP11	120
162	81.59317	102.21364	0.0	40.92	32.26	21:19:58.00	0.100	spz	LB0C	120
179	80.96176	104.93629	0.0	43.32	214.11	21:19:59.18	0.100	spz	BP12	120
161	81.62691	102.04853	0.0	45.55	32.45	21:19:58.00	0.100	spz	LB06	120
180	80.92143	105.08799	0.0	48.55	213.89	21:19:59.19	0.100	spz	BP14	120
160	81.66243	101.88185	0.0	50.35	32.48	21:19:58.00	0.100	spz	LBOA	120
181	80.88171	105.24606	0.0	53.79	213.88	21:19:59.18	0.100	spz	BP13	120
182	80.84057	105.41332	0.0	59.26	213.95	21:19:59.19	0.100	spz	BP10	120

Fig. 31A - Water wave section RT shot S64

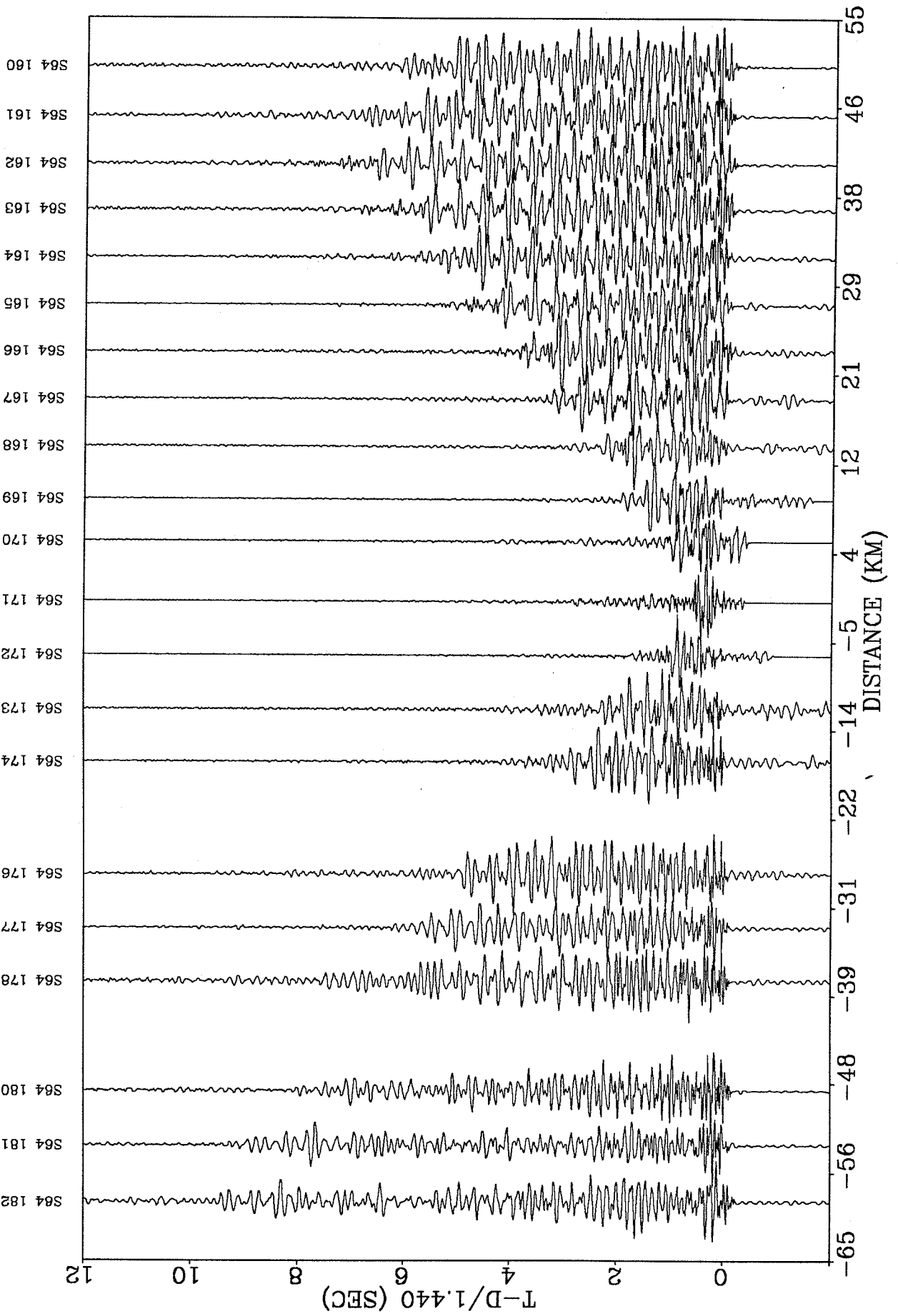
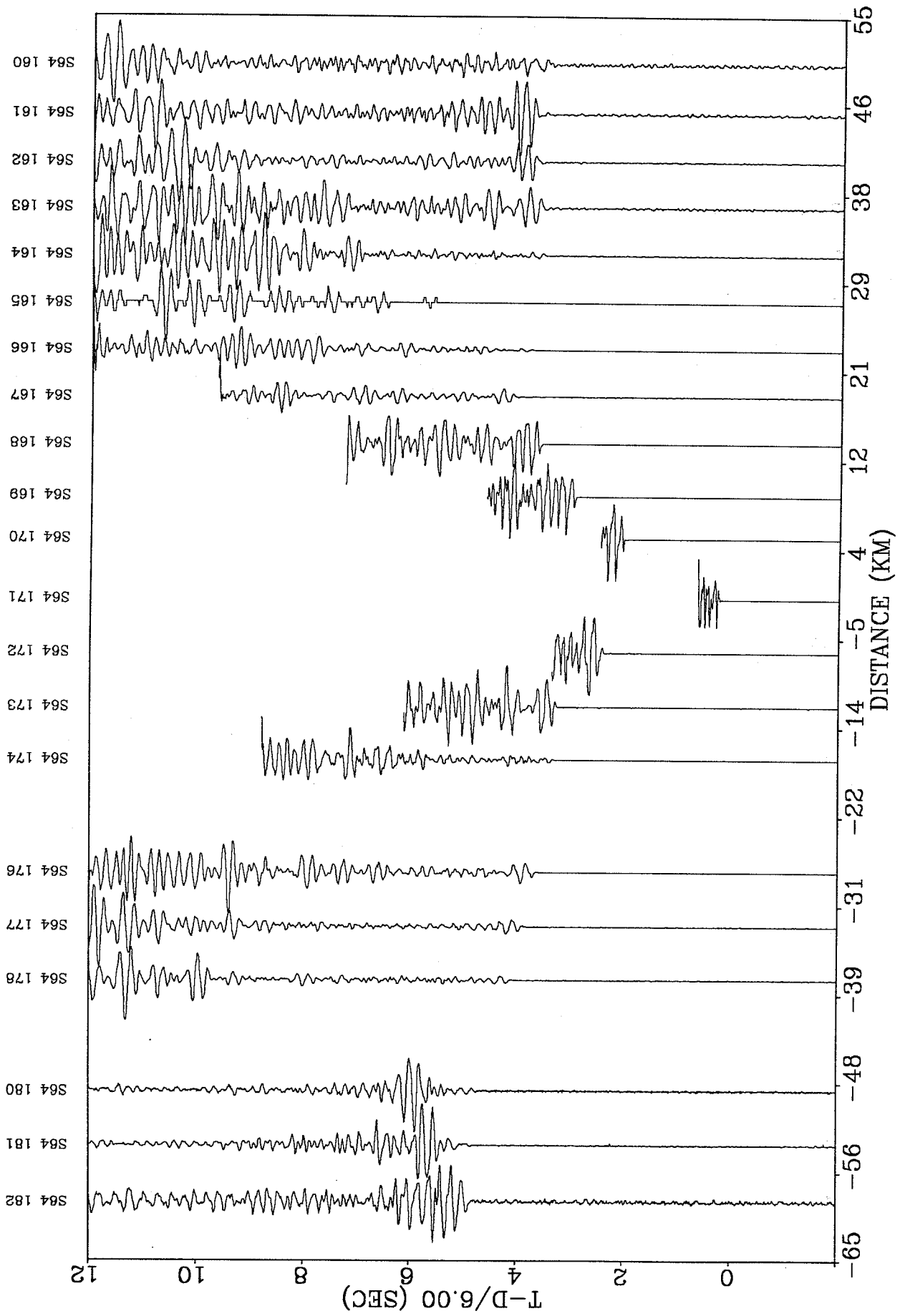


Fig. 31B - Seismic section RT shot S64



Line: I10 Shot: S65
 ** Ice Island 86 ** Field shot point: S2 Section: RT
 Shot time: 1986 APR. 28 22: 1: 0.00
 Lat.: 81.30448 N, Long.: 103.48207 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 136.0 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
170	81.32342		103.43779		0.0	2.24	19.43	21:59:58.00	0.100	spz	LB03	120	
171	81.28156		103.61653		0.0	3.42	221.67	21:59:59.18	0.100	spz	BP22	120	
169	81.35389		103.30288		0.0	6.29	28.58	21:59:58.00	0.100	spz	LB02	120	
172	81.24115		103.78528		0.0	8.74	216.15	21:59:59.17	0.100	spz	BP19	120	
168	81.39111		103.13251		0.0	11.32	31.09	21:59:58.00	0.100	spz	LB08	120	
173	81.20210		103.95466		0.0	13.97	215.30	21:59:59.19	0.100	spz	BP20	120	
167	81.42485		102.97948		0.0	15.87	31.84	21:59:58.00	0.100	spz	LB01	120	
174	81.16375		104.11520		0.0	19.06	214.75	21:59:59.19	0.100	spz	BP16	120	
166	81.45874		102.82841		0.0	20.41	32.10	21:59:58.00	0.100	spz	LB09	120	
165	81.49163		102.66836		0.0	24.93	32.64	21:59:58.00	0.100	spz	LB04	120	
164	81.52654		102.52464		0.0	29.49	32.30	21:59:58.00	0.100	spz	LB05	120	
176	81.08247		104.45594		0.0	29.87	214.37	21:59:59.17	0.100	spz	BP21	120	
163	81.56060		102.36749		0.0	34.09	32.41	21:59:58.00	0.100	spz	LB0E	120	
177	81.04263		104.61366		0.0	35.09	214.11	21:59:59.18	0.100	spz	BP18	120	
162	81.59317		102.21364		0.0	38.51	32.54	21:59:58.00	0.100	spz	LB0C	120	
178	81.00283		104.76479		0.0	40.25	213.82	21:59:59.18	0.100	spz	BP11	120	
161	81.62691		102.04853		0.0	43.14	32.71	21:59:58.00	0.100	spz	LB06	120	
179	80.96176		104.93629		0.0	45.73	213.91	21:59:59.17	0.100	spz	BP12	120	
160	81.66243		101.88185		0.0	47.94	32.72	21:59:58.00	0.100	spz	LB0A	120	
180	80.92143		105.08799		0.0	50.96	213.73	21:59:59.19	0.100	spz	BP14	120	
181	80.88171		105.24606		0.0	56.20	213.74	21:59:59.19	0.100	spz	BP13	120	
182	80.84057		105.41332		0.0	61.67	213.82	21:59:59.17	0.100	spz	BP10	120	

Fig. 32A - Water wave section RT shot S65

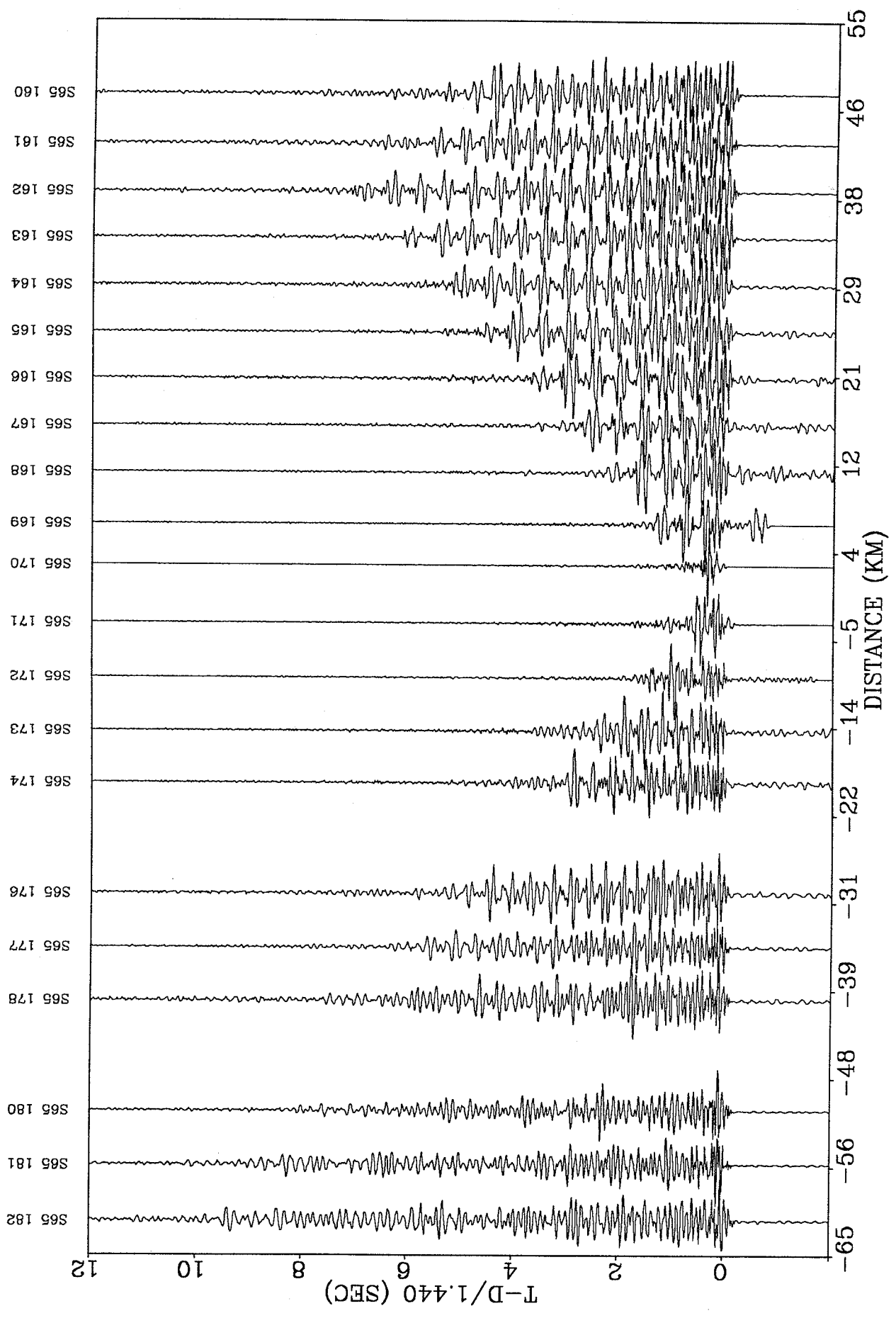
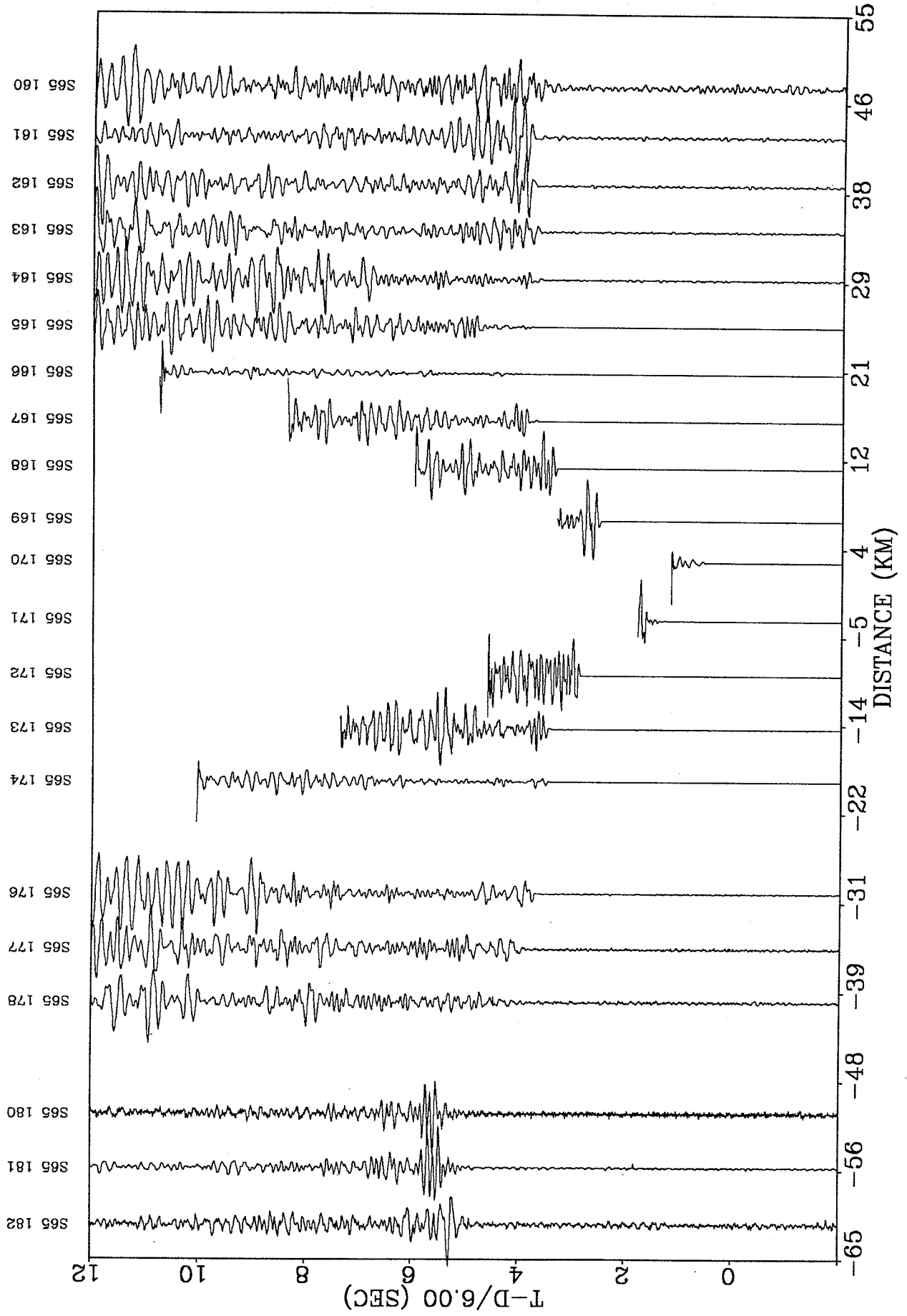


Fig. 32B - Seismic section RT shot S65



Line: I10 Shot: T60
 ** Ice Island 86 ** Field shot point: T1 Section: RT
 Shot time: 1986 APR. 28 19:41: 0.00
 Lat.: 80.80952 N, Long.: 105.52440 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 244.8 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
182	80.84057		105.41332		0.0	3.99	29.65	19:39:59.17	0.100	spz	BP10	120	
181	80.88171		105.24606		0.0	9.46	31.40	19:39:59.19	0.100	spz	BP13	120	
180	80.92143		105.08799		0.0	14.70	31.55	19:39:59.18	0.100	spz	BP14	120	
179	80.96176		104.93629		0.0	19.93	31.18	19:39:59.17	0.100	spz	BP12	120	
178	81.00283		104.76479		0.0	25.41	31.47	19:39:59.19	0.100	spz	BP11	120	
177	81.04263		104.61366		0.0	30.58	31.19	19:39:59.17	0.100	spz	BP18	120	
176	81.08247		104.45594		0.0	35.80	31.11	19:39:59.17	0.100	spz	BP21	120	
174	81.16375		104.11520		0.0	46.61	31.24	19:39:59.18	0.100	spz	BP16	120	
173	81.20210		103.95466		0.0	51.70	31.24	19:39:59.17	0.100	spz	BP20	120	
172	81.24115		103.78528		0.0	56.93	31.30	19:39:59.19	0.100	spz	BP19	120	
171	81.28156		103.61653		0.0	62.27	31.24	19:39:59.17	0.100	spz	BP22	120	
170	81.32342		103.43779		0.0	67.84	31.21	19:39:58.00	0.100	spz	LB03	120	
169	81.35389		103.30288		0.0	71.93	31.23	19:39:58.00	0.100	spz	LB02	120	
168	81.39111		103.13251		0.0	76.97	31.29	19:39:58.00	0.100	spz	LB08	120	
167	81.42485		102.97948		0.0	81.52	31.32	19:39:58.00	0.100	spz	LB01	120	
166	81.45874		102.82841		0.0	86.06	31.30	19:39:58.00	0.100	spz	LB09	120	
165	81.49163		102.66836		0.0	90.59	31.39	19:39:58.00	0.100	spz	LB04	120	
164	81.52654		102.52464		0.0	95.15	31.24	19:39:58.00	0.100	spz	LB05	120	
163	81.56060		102.36749		0.0	99.74	31.24	19:39:58.00	0.100	spz	LBOE	120	
162	81.59317		102.21364		0.0	104.17	31.25	19:39:58.00	0.100	spz	LBOC	120	
161	81.62691		102.04853		0.0	108.79	31.29	19:39:58.00	0.100	spz	LB06	120	
160	81.66243		101.88185		0.0	113.60	31.27	19:39:58.00	0.100	spz	LBOA	120	

Fig. 33A - Water wave section RT shot T60

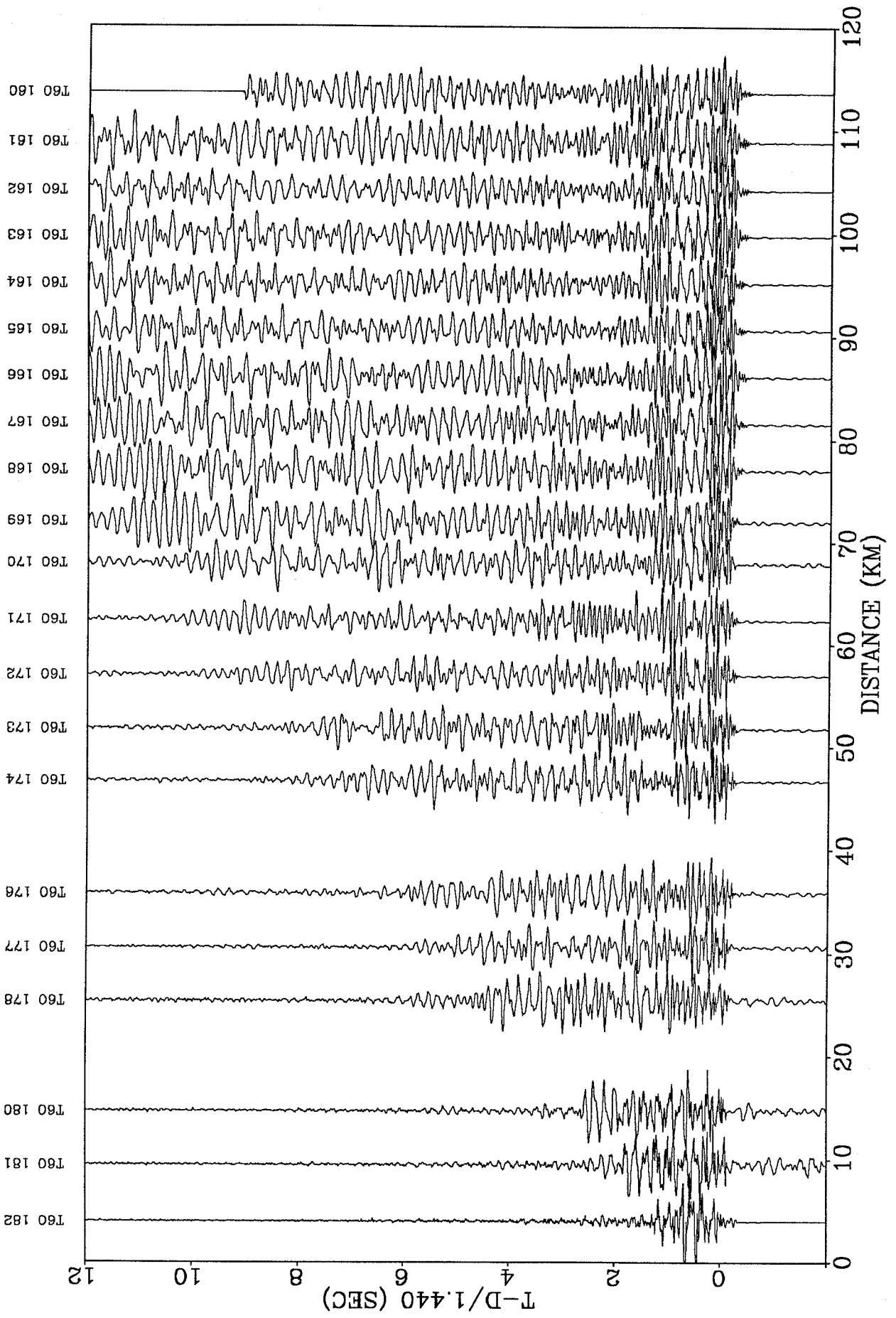
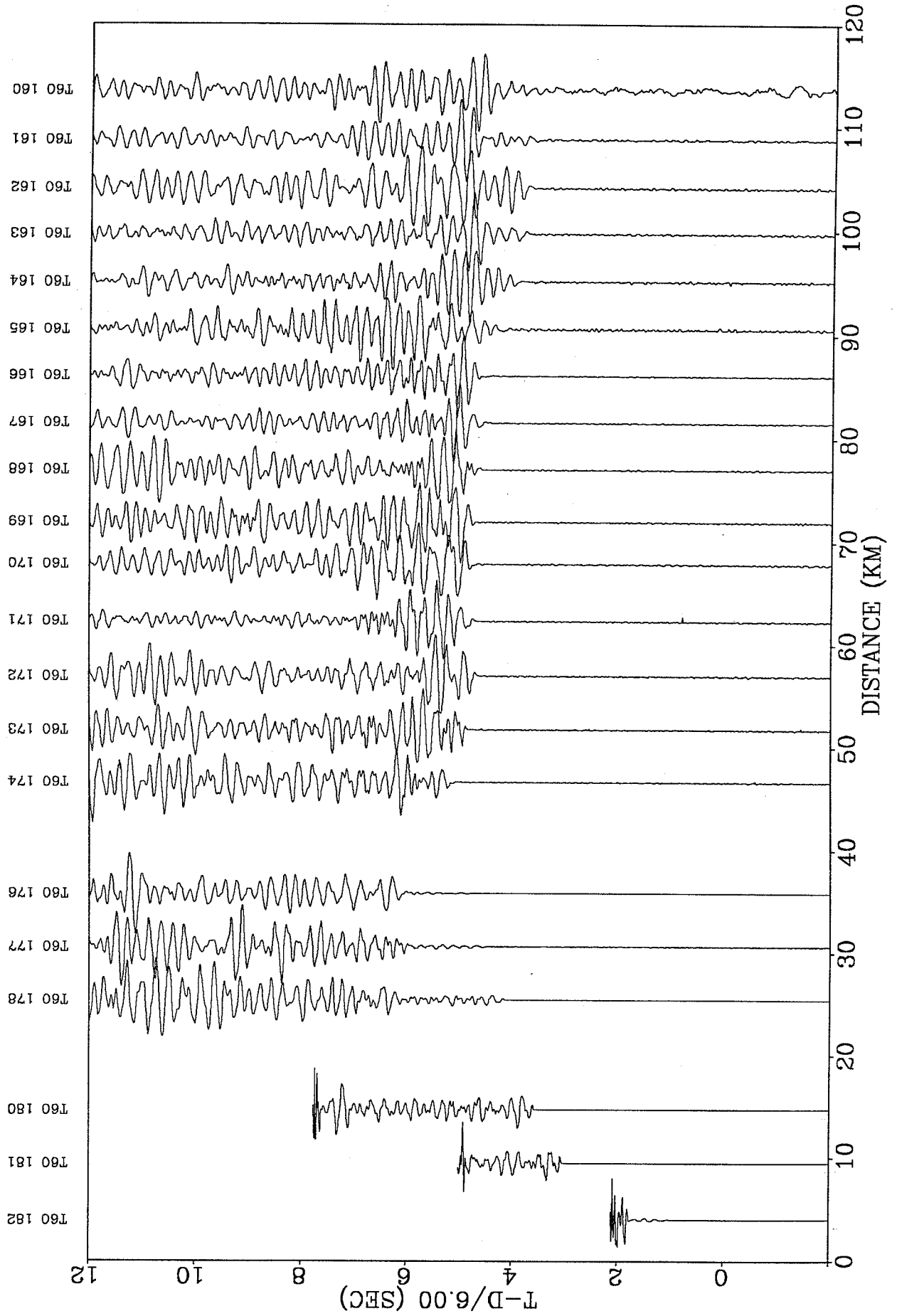


Fig. 33B - Seismic section RT shot T60



Line: I10 Shot: T62
 ** Ice Island 86 ** Field shot point: T2 Section: RT
 Shot time: 1986 APR. 28 20:21: 0.00
 Lat.: 80.82264 N, Long.: 105.44369 W, Elev.: 0.0 m
 Depth: 100.0 m, Size: 244.8 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
182	80.84057		105.41332		0.0	2.07	15.09	20:19:59.17	0.100	spz	BP10	120	
181	80.88171		105.24606		0.0	7.47	27.92	20:19:59.18	0.100	spz	BP13	120	
180	80.92143		105.08799		0.0	12.71	29.56	20:19:59.17	0.100	spz	BP14	120	
179	80.96176		104.93629		0.0	17.94	29.75	20:19:59.19	0.100	spz	BP12	120	
178	81.00283		104.76479		0.0	23.42	30.42	20:19:59.19	0.100	spz	BP11	120	
177	81.04263		104.61366		0.0	28.58	30.33	20:19:59.17	0.100	spz	BP18	120	
176	81.08247		104.45594		0.0	33.80	30.39	20:19:59.18	0.100	spz	BP21	120	
174	81.16375		104.11520		0.0	44.61	30.72	20:19:59.17	0.100	spz	BP16	120	
173	81.20210		103.95466		0.0	49.70	30.78	20:19:59.17	0.100	spz	BP20	120	
172	81.24115		103.78528		0.0	54.93	30.89	20:19:59.17	0.100	spz	BP19	120	
171	81.28156		103.61653		0.0	60.28	30.87	20:19:59.17	0.100	spz	BP22	120	
170	81.32342		103.43779		0.0	65.84	30.88	20:19:58.00	0.100	spz	LB03	120	
169	81.35389		103.30288		0.0	69.93	30.92	20:19:58.00	0.100	spz	LB02	120	
168	81.39111		103.13251		0.0	74.97	31.02	20:19:58.00	0.100	spz	LB08	120	
167	81.42485		102.97948		0.0	79.52	31.06	20:19:58.00	0.100	spz	LB01	120	
166	81.45874		102.82841		0.0	84.06	31.06	20:19:58.00	0.100	spz	LB09	120	
165	81.49163		102.66836		0.0	88.59	31.17	20:19:58.00	0.100	spz	LB04	120	
164	81.52654		102.52464		0.0	93.15	31.03	20:19:58.00	0.100	spz	LB05	120	
163	81.56060		102.36749		0.0	97.74	31.04	20:19:58.00	0.100	spz	LB0E	120	
162	81.59317		102.21364		0.0	102.17	31.06	20:19:58.00	0.100	spz	LB0C	120	
161	81.62691		102.04853		0.0	106.80	31.12	20:19:58.00	0.100	spz	LB06	120	
160	81.66243		101.88185		0.0	111.60	31.11	20:19:58.00	0.100	spz	LB0A	120	

Fig. 34A - Water wave section RT shot T62

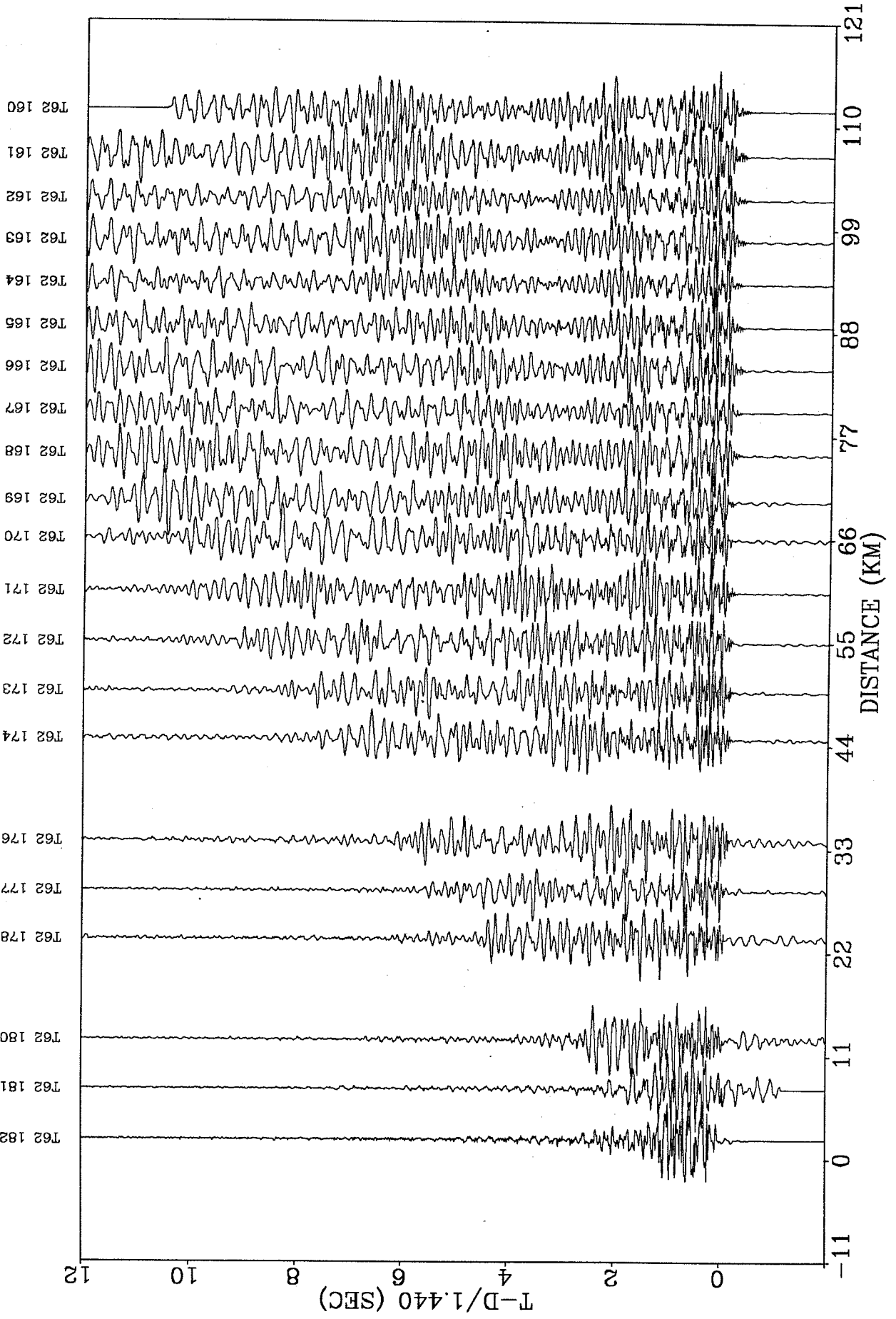
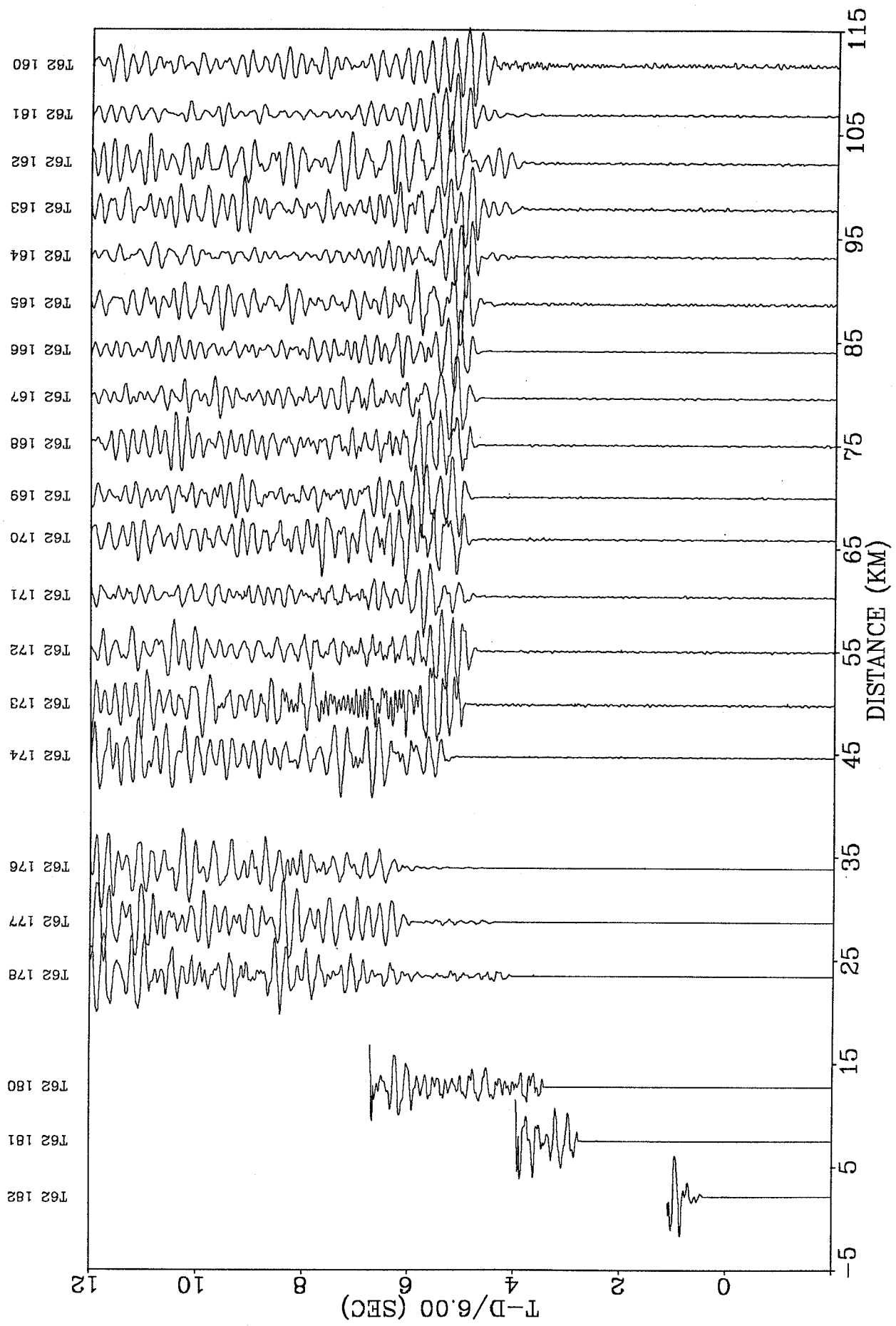


Fig. 34B - Seismic section RT shot T62



Line: I10 Shot: U63

** Ice Island 86 ** Field shot point: U1 Section: RT

Shot time: 1986 APR. 28 20:40: 0.00

Lat.: 80.34514 N, Long.: 107.42709 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 489.6 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
182	80.84057		105.41332		0.0	66.42	32.61	20:39:59.19	0.100	spz	BP10	120	
181	80.88171		105.24606		0.0	71.88	32.47	20:39:59.17	0.100	spz	BP13	120	
180	80.92143		105.08799		0.0	77.12	32.30	20:39:59.17	0.100	spz	BP14	120	
179	80.96176		104.93629		0.0	82.34	32.05	20:39:59.17	0.100	spz	BP12	120	
178	81.00283		104.76479		0.0	87.82	31.96	20:39:59.18	0.100	spz	BP11	120	
177	81.04263		104.61366		0.0	92.98	31.74	20:39:59.18	0.100	spz	BP18	120	
176	81.08247		104.45594		0.0	98.19	31.58	20:39:59.17	0.100	spz	BP21	120	
174	81.16375		104.11520		0.0	109.00	31.40	20:39:59.17	0.100	spz	BP16	120	
173	81.20210		103.95466		0.0	114.08	31.31	20:39:59.18	0.100	spz	BP20	120	
172	81.24115		103.78528		0.0	119.31	31.25	20:39:59.18	0.100	spz	BP19	120	
171	81.28156		103.61653		0.0	124.65	31.14	20:39:59.18	0.100	spz	BP22	120	
170	81.32342		103.43779		0.0	130.21	31.05	20:39:58.00	0.100	spz	LB03	120	
169	81.35389		103.30288		0.0	134.30	31.01	20:39:58.00	0.100	spz	LB02	120	
168	81.39111		103.13251		0.0	139.34	30.99	20:39:58.00	0.100	spz	LB08	120	
167	81.42485		102.97948		0.0	143.90	30.95	20:39:58.00	0.100	spz	LB01	120	
166	81.45874		102.82841		0.0	148.43	30.89	20:39:58.00	0.100	spz	LB09	120	
165	81.49163		102.66836		0.0	152.96	30.90	20:39:58.00	0.100	spz	LB04	120	
164	81.52654		102.52464		0.0	157.51	30.77	20:39:58.00	0.100	spz	LB05	120	
163	81.56060		102.36749		0.0	162.11	30.73	20:39:58.00	0.100	spz	LB0E	120	
162	81.59317		102.21364		0.0	166.53	30.70	20:39:58.00	0.100	spz	LB0C	120	
161	81.62691		102.04853		0.0	171.16	30.69	20:39:58.00	0.100	spz	LB06	120	
160	81.66243		101.88185		0.0	175.96	30.64	20:39:58.00	0.100	spz	LBOA	120	

Fig. 35A - Water wave section RT shot U63

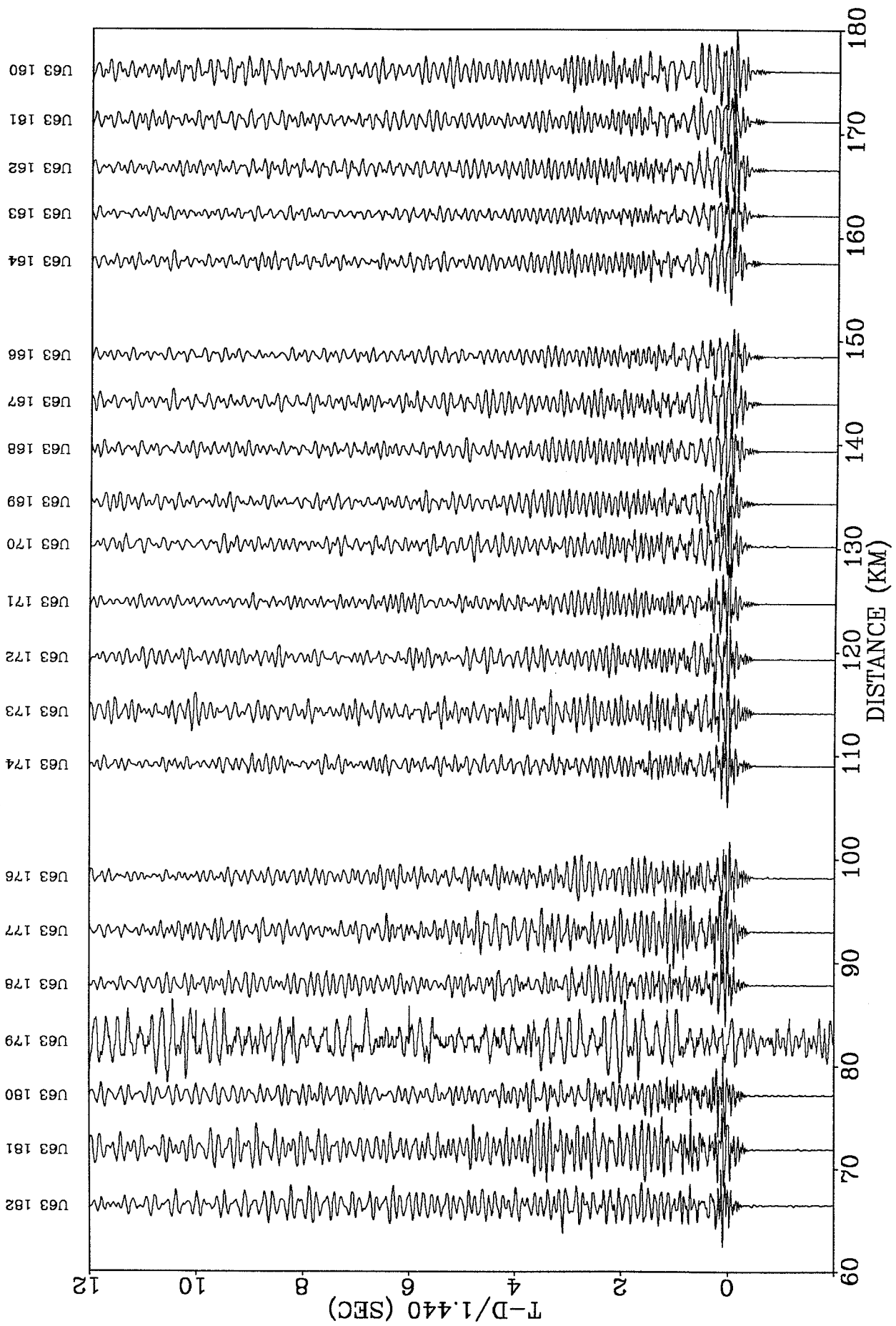
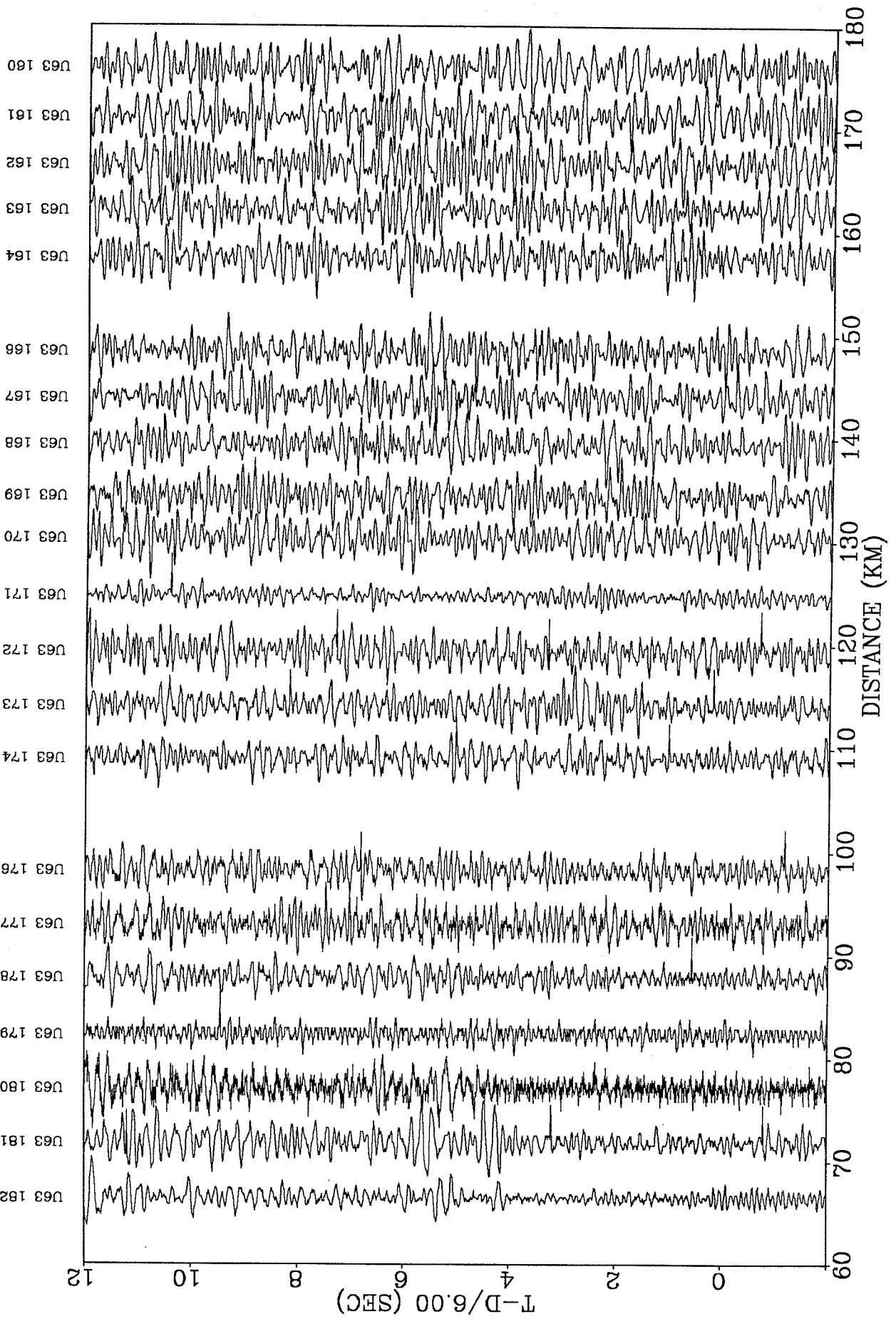


Fig. 35B - Seismic section RT shot U63



Line: I11 Shot: B70
** Ice Island 86 ** Field shot point: B4 Section: LT
Shot time: 1986 APR. 30 0: 1: 0.00
Lat.: 80.70838 N, Long.: 102.37051 W, Elev.: 0.0 m
Depth: 100.0 m, Size: 163.2 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
193	80.71544		102.52747		0.0	2.94	285.64	23:59:58.00	0.100	spz	LB09	120	
194	80.72554		102.83153		0.0	8.52	283.22	23:59:58.00	0.100	spz	LB0A	120	
195	80.73407		103.12528		0.0	13.89	282.29	23:59:58.00	0.100	spz	LB06	120	
196	80.74307		103.42314		0.0	19.34	282.07	23:59:58.00	0.100	spz	LB02	120	
197	80.75107		103.72346		0.0	24.80	281.75	23:59:58.00	0.100	spz	LB03	120	
198	80.76139		104.02172		0.0	30.28	282.09	23:59:58.00	0.100	spz	LB08	120	
199	80.77077		104.32339		0.0	35.78	282.19	23:59:58.00	0.100	spz	LB05	120	
200	80.77823		104.62515		0.0	41.25	282.01	23:59:58.00	0.100	spz	LB0C	120	
201	80.78488		104.93584		0.0	46.85	281.77	23:59:58.00	0.100	spz	LB0E	120	
202	80.79378		105.22694		0.0	52.15	281.94	23:59:58.00	0.100	spz	LB01	120	
203	80.80257		105.53731		0.0	57.78	282.05	23:59:58.00	0.100	spz	LB04	120	

Fig. 36A - Water wave section LT shot B70

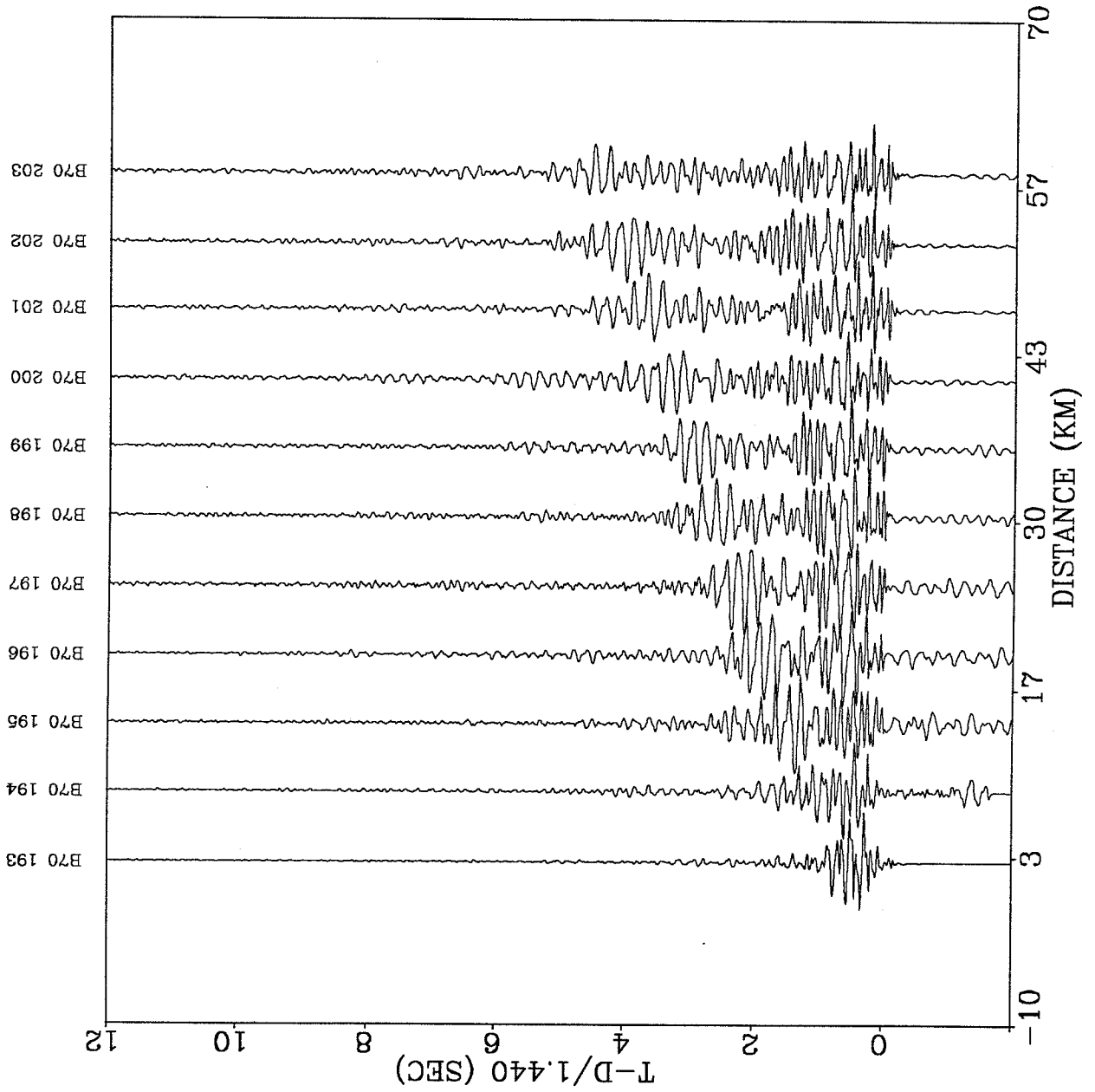
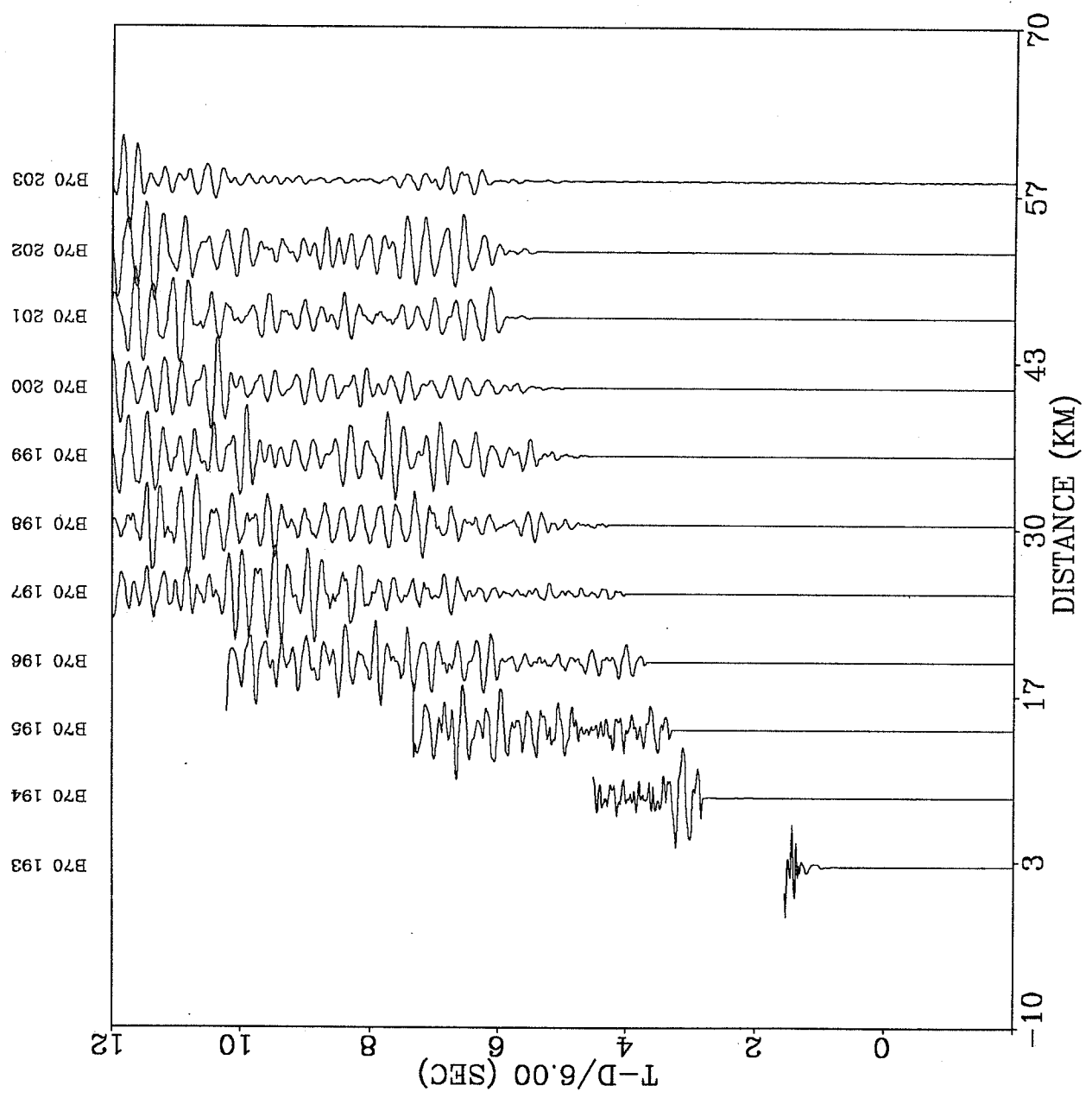


Fig. 36B - Seismic section LT shot B70



Line: I11 Shot: I68

** Ice Island 86 ** Field shot point: I4 Section: LT

Shot time: 1986 APR. 29 22:40: 0.00

Lat.: 81.13400 N, Long.: 96.84480 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 244.8 kg.

Site	Lat.	N	Long.	W	Elev.	Dist.	Az.	Time	UT	GN	CMP	Ins.	SR
193	80.71544		102.52747		0.0	110.43	247.80	22:39:58.00	0.100	spz	LB09	120	
194	80.72554		102.83153		0.0	114.79	249.58	22:39:58.00	0.100	spz	LB0A	120	
195	80.73407		103.12528		0.0	119.14	251.12	22:39:58.00	0.100	spz	LB06	120	
196	80.74307		103.42314		0.0	123.59	252.60	22:39:58.00	0.100	spz	LB02	120	
197	80.75107		103.72346		0.0	128.19	253.95	22:39:58.00	0.100	spz	LB03	120	
198	80.76139		104.02172		0.0	132.70	255.31	22:39:58.00	0.100	spz	LB08	120	
199	80.77077		104.32339		0.0	137.36	256.56	22:39:58.00	0.100	spz	LB05	120	
200	80.77823		104.62515		0.0	142.13	257.65	22:39:58.00	0.100	spz	LB0C	120	
201	80.78488		104.93584		0.0	147.12	258.67	22:39:58.00	0.100	spz	LB0E	120	
202	80.79378		105.22694		0.0	151.72	259.68	22:39:58.00	0.100	spz	LB01	120	
203	80.80257		105.53731		0.0	156.67	260.67	22:39:58.00	0.100	spz	LB04	120	

Fig. 37A - Water wave section LT shot 168

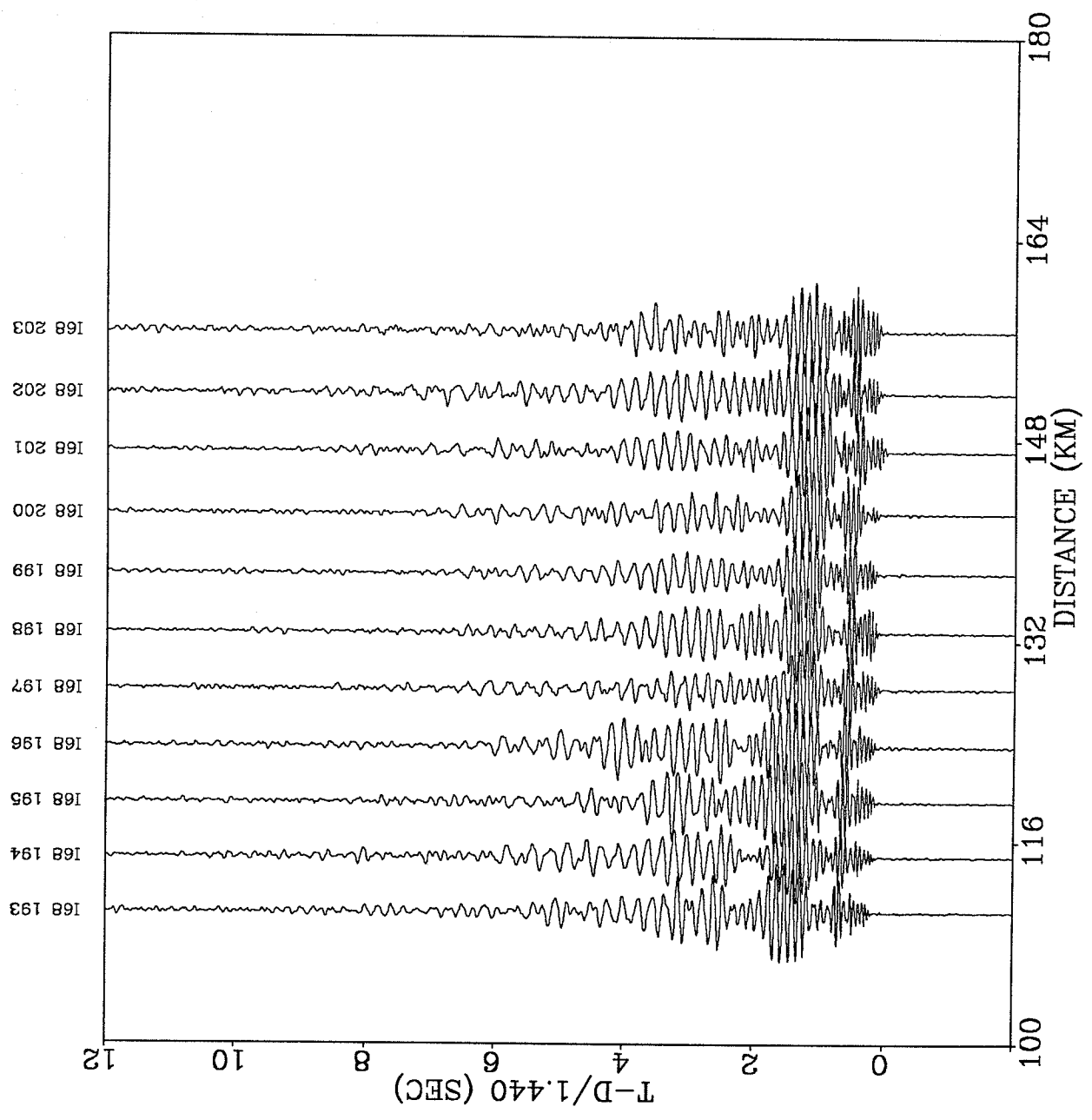
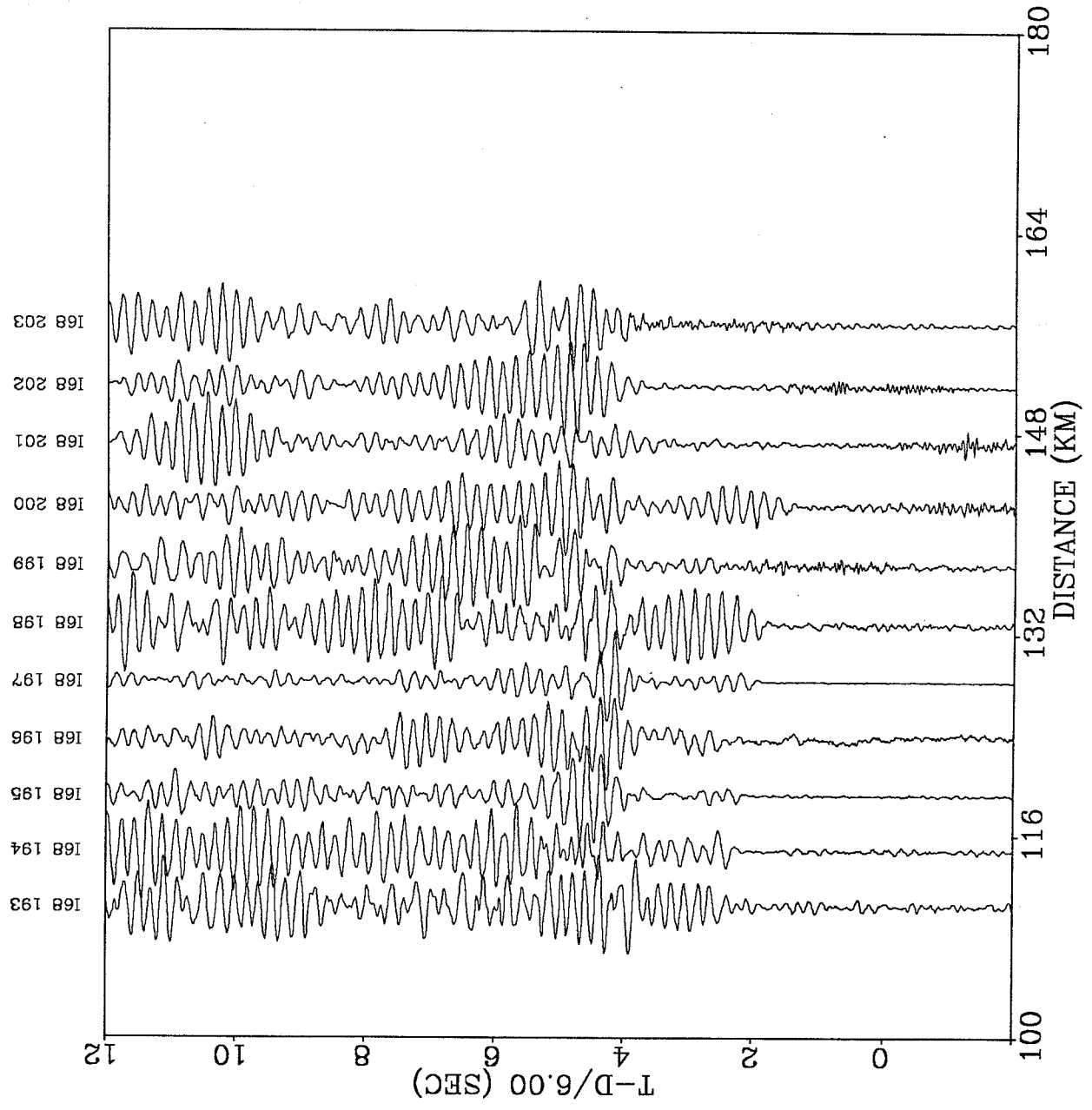


Fig. 37B - Seismic section LT shot I68



Line: I11 Shot: L67
** Ice Island 86 ** Field shot point: L1N Section: LT
Shot time: 1986 APR. 29 22:20: 0.00
Lat.: 80.58585 N, Long.: 99.30566 W, Elev.: 0.0 m
Depth: 100.0 m, Size: 244.8 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
193	80.71544	102.52747	0.0	60.21	285.49	22:19:58.00	0.100	spz	LB09	120
194	80.72554	102.83153	0.0	65.80	285.45	22:19:58.00	0.100	spz	LB0A	120
195	80.73407	103.12528	0.0	71.17	285.32	22:19:58.00	0.100	spz	LB06	120
196	80.74307	103.42314	0.0	76.62	285.27	22:19:58.00	0.100	spz	LB02	120
197	80.75107	103.72346	0.0	82.08	285.16	22:19:58.00	0.100	spz	LB03	120
198	80.76139	104.02172	0.0	87.56	285.25	22:19:58.00	0.100	spz	LB08	120
199	80.77077	104.32339	0.0	93.06	285.28	22:19:58.00	0.100	spz	LB05	120
200	80.77823	104.62515	0.0	98.53	285.20	22:19:58.00	0.100	spz	LB0C	120
201	80.78488	104.93584	0.0	104.13	285.09	22:19:58.00	0.100	spz	LB0E	120
202	80.79378	105.22694	0.0	109.43	285.16	22:19:58.00	0.100	spz	LB01	120
203	80.80257	105.53731	0.0	115.06	285.20	22:19:58.00	0.100	spz	LB04	120

Fig. 38A - Water wave section LT shot L67

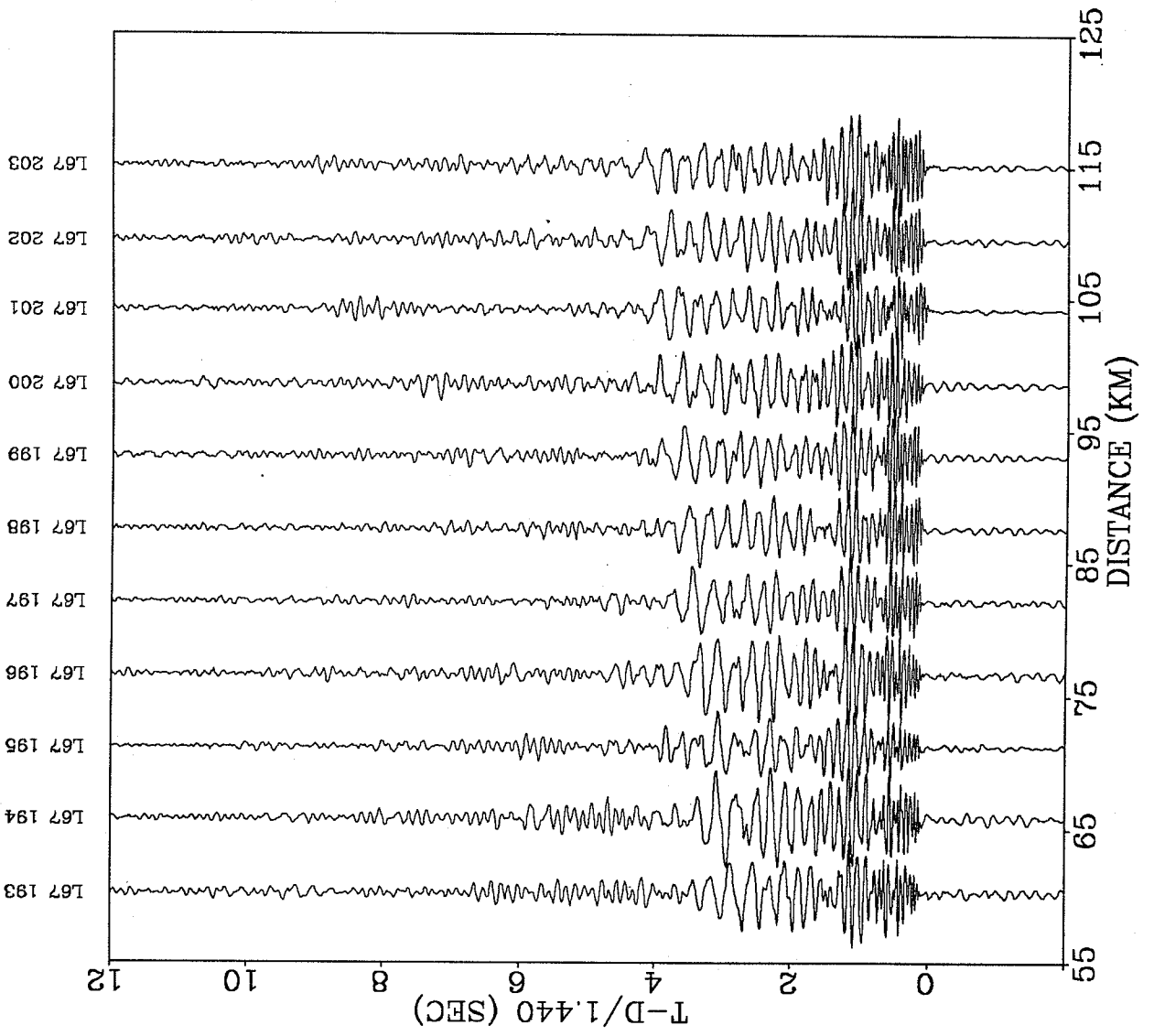
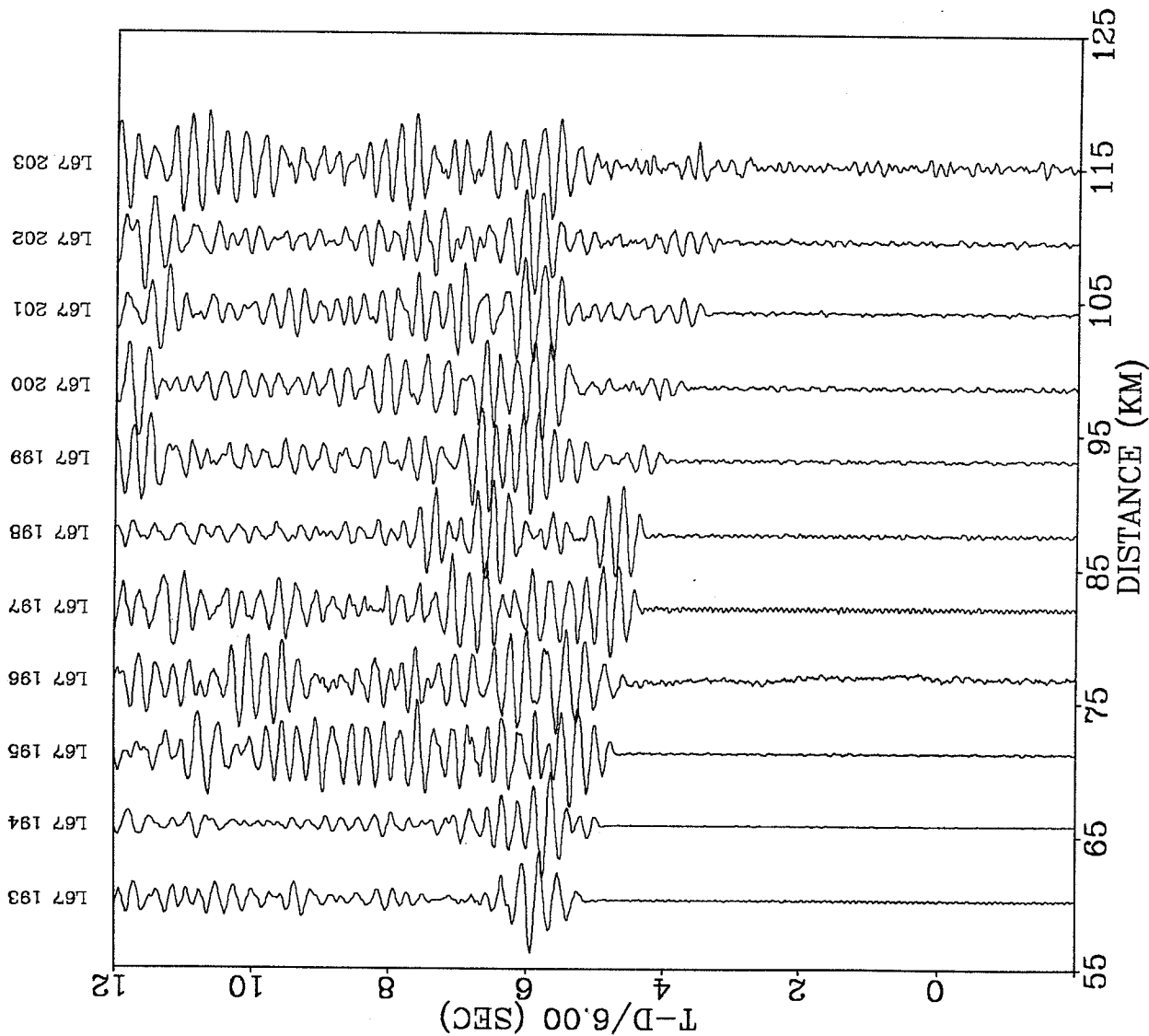


Fig. 38B - Seismic section LT shot L67



Line: I11 Shot: T69

** Ice Island 86 ** Field shot point: T0 Section: LT

Shot time: 1986 APR. 29 23:40: 0.00

Lat.: 80.80508 N, Long.: 105.87135 W, Elev.: 0.0 m

Depth: 100.0 m, Size: 190.4 kg.

Site	Lat. N	Long. W	Elev.	Dist.	Az.	Time	UT GN	CMP	Ins.	SR
203	80.80257	105.53731	0.0	5.97	92.53	23:39:58.00	0.100	spz	LB04	120
202	80.79378	105.22694	0.0	11.58	95.94	23:39:58.00	0.100	spz	LB01	120
201	80.78488	104.93584	0.0	16.87	97.23	23:39:58.00	0.100	spz	LBOE	120
200	80.77823	104.62515	0.0	22.47	97.05	23:39:58.00	0.100	spz	LB0C	120
199	80.77077	104.32339	0.0	27.94	97.12	23:39:58.00	0.100	spz	LB05	120
198	80.76139	104.02172	0.0	33.45	97.47	23:39:58.00	0.100	spz	LB08	120
197	80.75107	103.72346	0.0	38.91	97.86	23:39:58.00	0.100	spz	LB03	120
196	80.74307	103.42314	0.0	44.38	97.77	23:39:58.00	0.100	spz	LB02	120
195	80.73407	103.12528	0.0	49.83	97.80	23:39:58.00	0.100	spz	LB06	120
194	80.72554	102.83153	0.0	55.20	97.76	23:39:58.00	0.100	spz	LBOA	120
193	80.71544	102.52747	0.0	60.79	97.82	23:39:58.00	0.100	spz	LB09	120

Fig. 39A - Water wave section LT shot T69

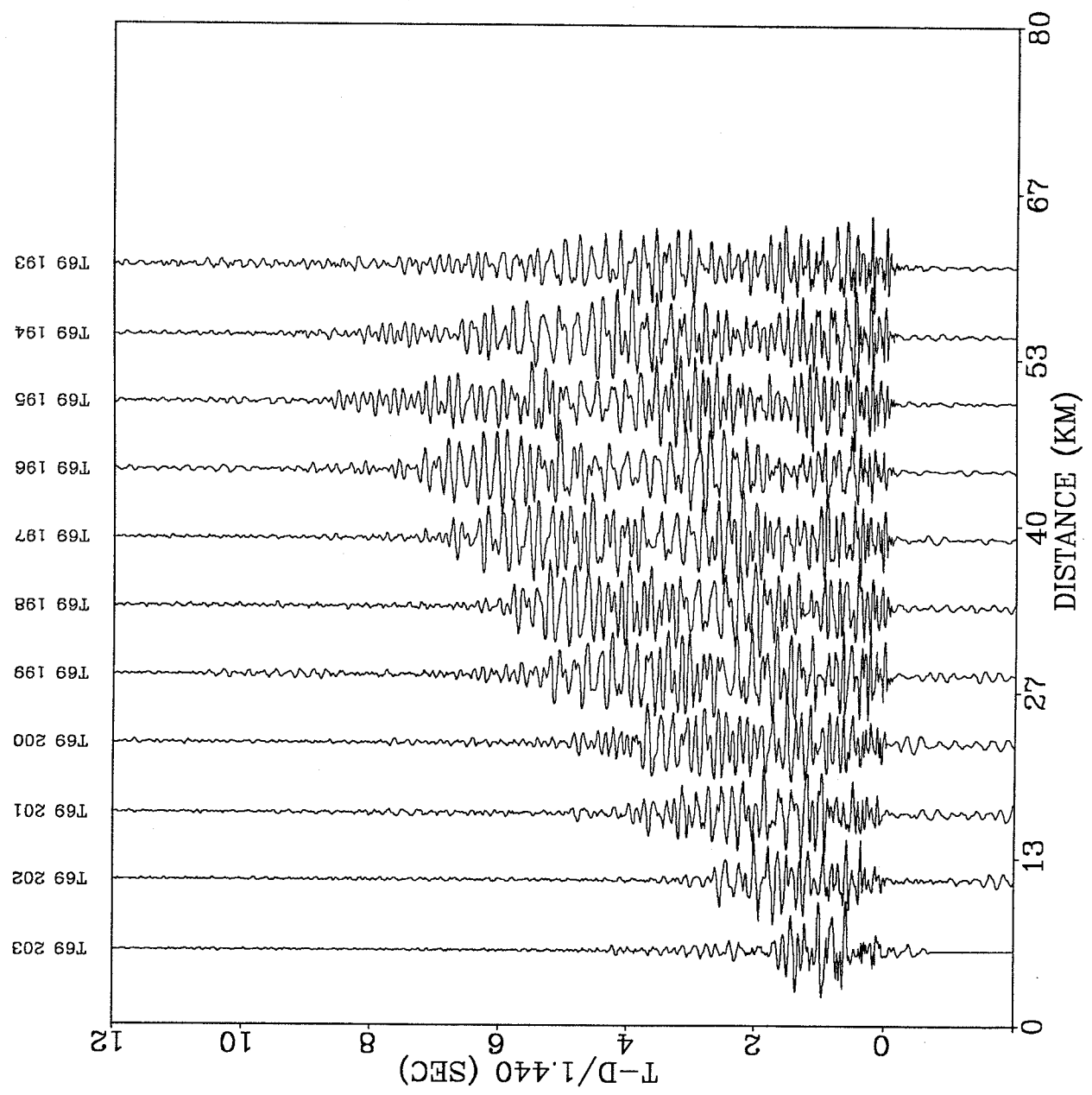


Fig. 39B - Seismic section RT shot T69

