

DIGITIZED DATA ON NRCDP STRONG-MOTION EARTHQUAKE RECORDS(4)

— December 17, 1987 EAST OFF CHIBA PREFECTURE EARTHQUAKE —

By

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National Research Center for Disaster Prevention

1. Introduction

The "Digitized Data on Strong-motion Earthquake Records" in series was first published by NRCDP in 1979, in order to provide the real strong-motion data for both experimental and analytical works for earthquake engineering. This is the fourth report of the series corresponding to the "Prompt Report on Strong-motion Accelerograms No.37". The data in the present report are from the 1987 East Off Chiba Prefecture Earthquake.

The number of records contained in the present report amounts to seven : six of them obtained at NRCDP stations and one by SMAC B₂ installed at the station of Nihon Gosei Gomu. The NRCDP records are the results of array observation deployed in the Boso district. The array data will provide an important information to analytical works on seismic waves in the wavenumber domain. Furthermore, we tried to offer the data from the Boso array by means of a floppy disk in order to avoid the troublesome works related to reading the printed data.

2. Data

2.1 Earthquake data

The earthquake data published by the JMA (Japan Meteorological Agency) are as follows :

Data and time : 11h08m, December 17, 1987
 Epicentral region : Kujukuri coast of Boso Pen.
 Latitude : 35°22'N
 Longitude : 140°30'E
 Magnitude (M_{JMA}) : 6.7

2.2 Station and seismograph

The locations of observation site are shown in Fig.1 and listed in Table 1. The seismographs installed at NRCDP stations are the same accelerograph. The frequency characteristics of this accelerograph (SAMTAC-17) are shown in Fig.2. The seismograph installed at the site in the Nihon Gosei Gomu is the SMAC-B₂. The instrumental characteristics of SMAC-B₂ is listed in Table 1 in the "Strong-motion Earthquake Records in Japan, 1987" published by the Strong-motion Earthquake Observation Council.

2.3 Data

For each record, three plots are presented in the following order.

Phase 1 data : baseline-corrected accelerations. The three channels of the acceleration are plotted with each channel individually scaled (Fig.3). The original time is indicated on the plots. The accuracy of time is within 0.01s. The SMAC-B₂ has no time

code.

Phase 2 data : baseline-corrected acceleration, velocity and displacement with each channel individually scaled (Fig.4).

Phase 3 data : response spectra. The relative velocity response spectra, the absolute acceleration response spectra and the relative displacement response spectra are presented on a logarithmic plot for each channel. The spectra are plotted for 0%, 2%, 5%, and 10% dampings in the period range from 0.05 to 10 seconds (Fig.5). These response spectra are also listed in Table 2.

In addition to these data, uncorrected digitized data of SMAC-B₂ record at the Nihon Gsei Gomu are listed in Table 3. Five micro floppy disks are attached to this report (see Table 4). The digitized acceleration data from six NRCDP stations are written on these disks with MS-DOS format. The sampling interval is 0.005 s and the scaling unit of acceleration is 0.01 gal.

Acknowledgments

We wish to express our thanks to the members of the Nihon Gosei Gomu, who kindly permit us to digitize and to publish the record of SMAC-B₂ at their station.

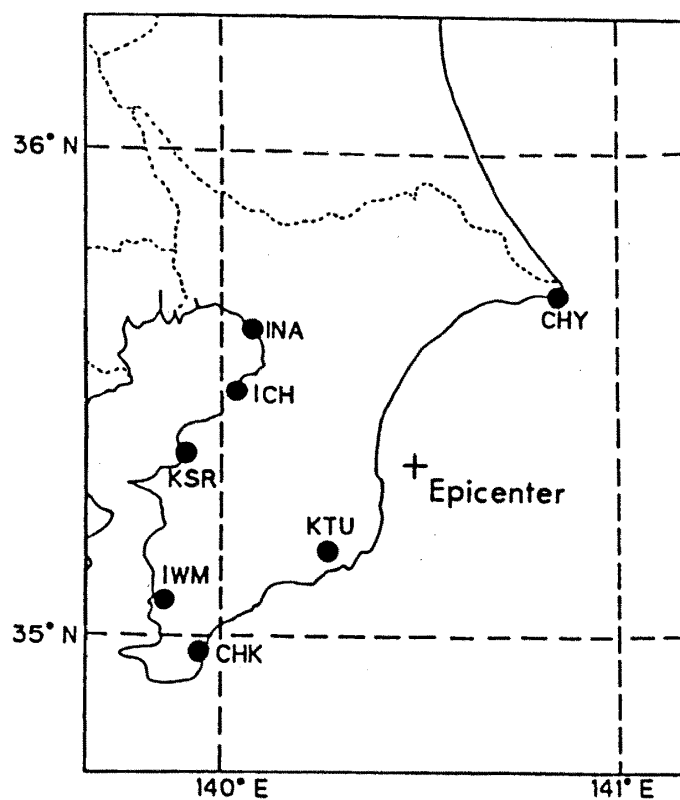


Fig. 1 Locations of observation site and epicenter of the 1987 East Off Chiba Prefecture.

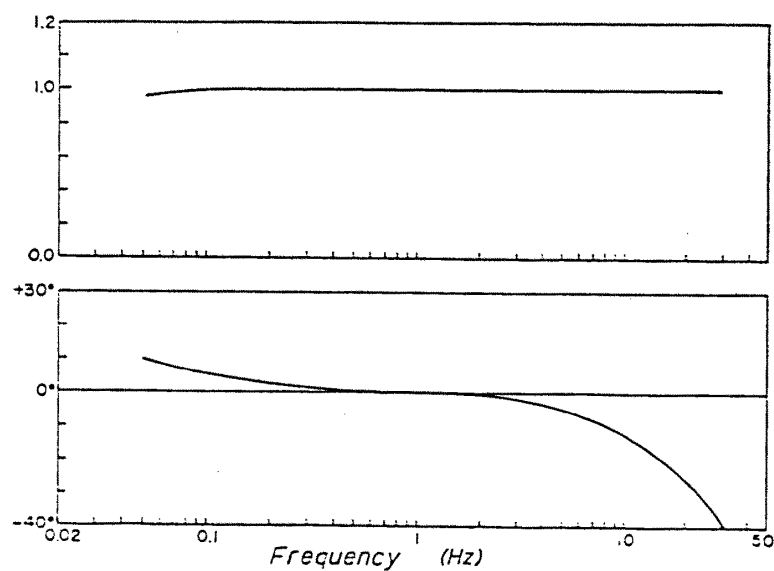


Fig. 2 Over-all frequency characteristics of SAMTAC-17.

Table 1. Locations of strong-motion observation site.

Site No.	NRCDP station name	Latitude	Longitude	Seismographs
KT519	INA (Inage)	35° 37' 49" N	140° 04' 52" E	SAMTAC17
KT520	CHY (Chiyoshi)	35° 42' 08" N	140° 51' 18" E	SAMTAC17
KT521	KSR (Kisarazu)	35° 22' 25" N	139° 55' 06" E	SAMTAC17
KT522	IWM (Iwaiminami)	35° 04' 49" N	139° 51' 53" E	SAMTAC17
KT523	CHK (Chikura)	34° 58' 19" N	139° 56' 48" E	SAMTAC17
KT552	KTU (Katuura)	35° 10' 37" N	140° 16' 08" E	SAMTAC17
KT064	ICH (Nihongosei-Gomu)	35° 30' 07" N	140° 03' 06" E	SMAC-B2

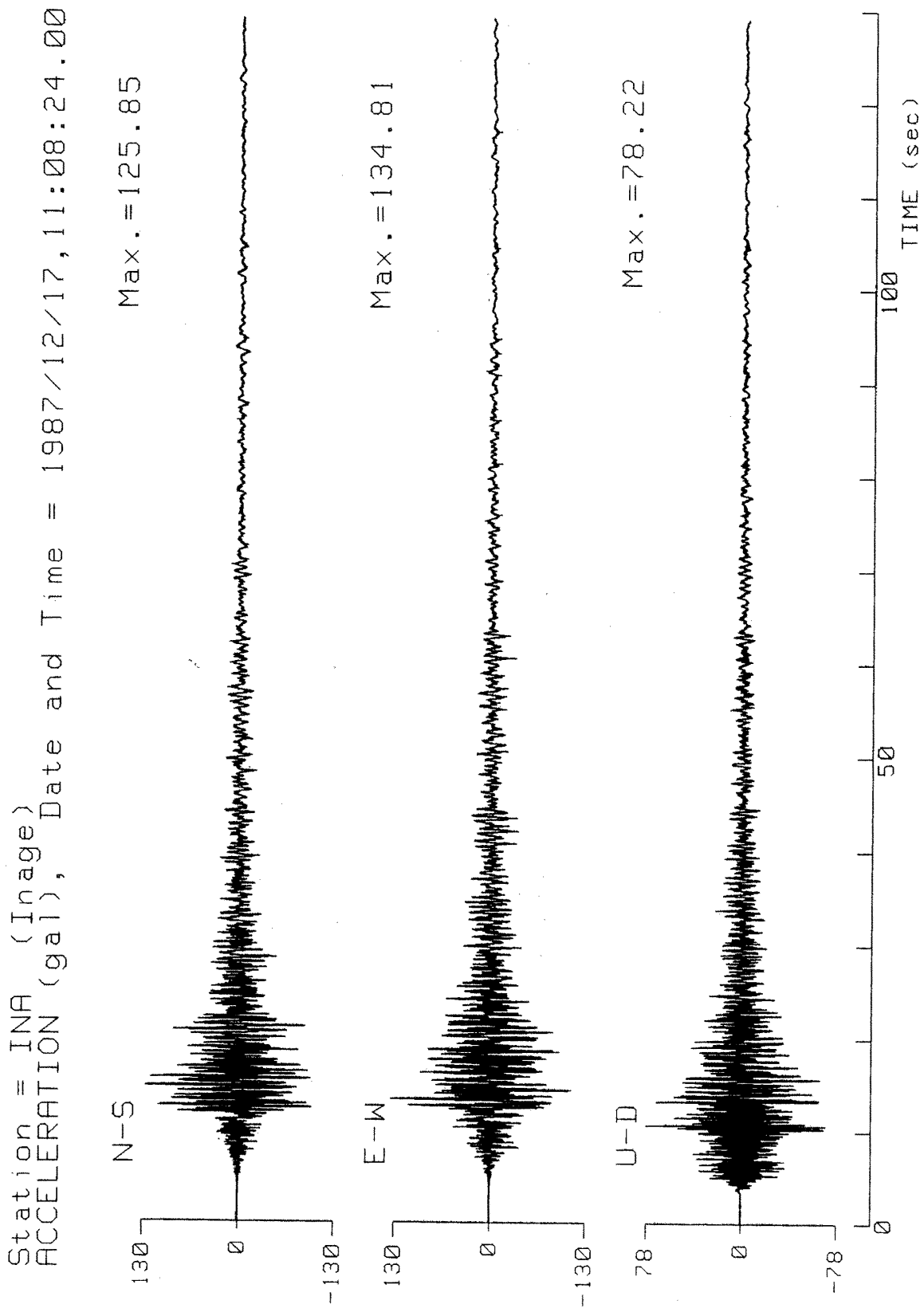
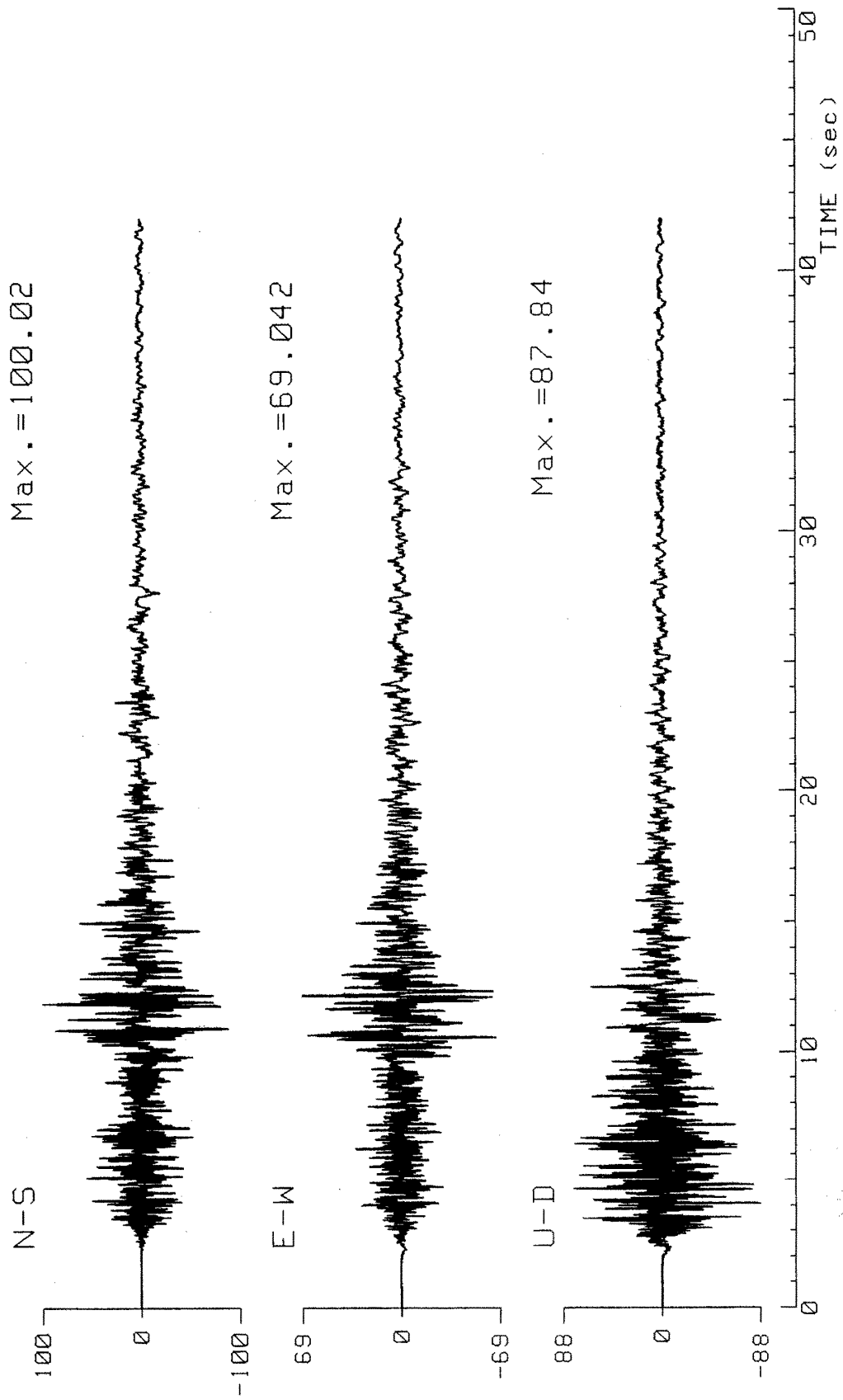


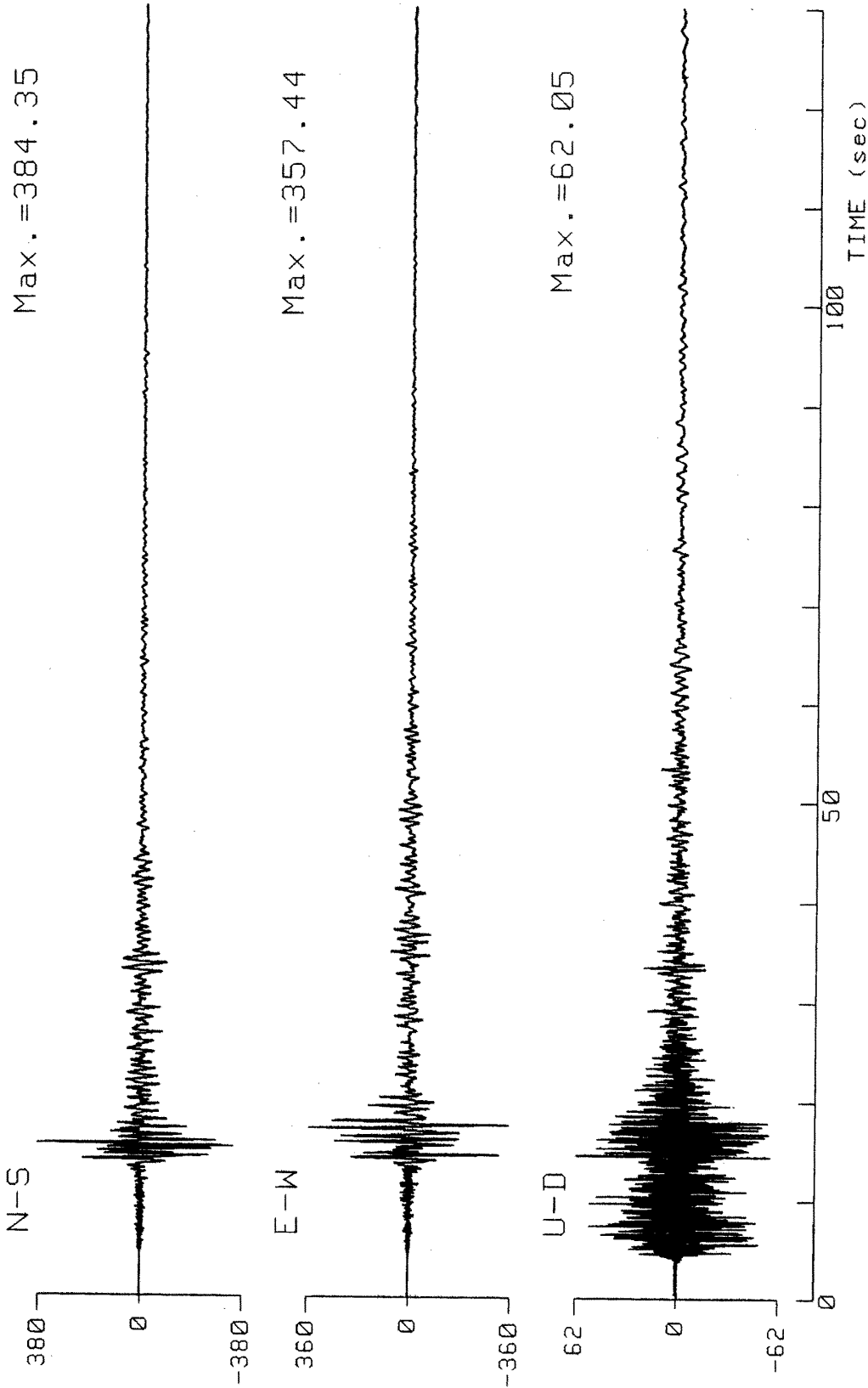
Fig. 3 Baseline-corrected accelerograms.
(3-1) INA

Station = CHY (Chyoshi)
ACCELERATION (gal), Date and Time = 1987/12/17, 11:08:26.00



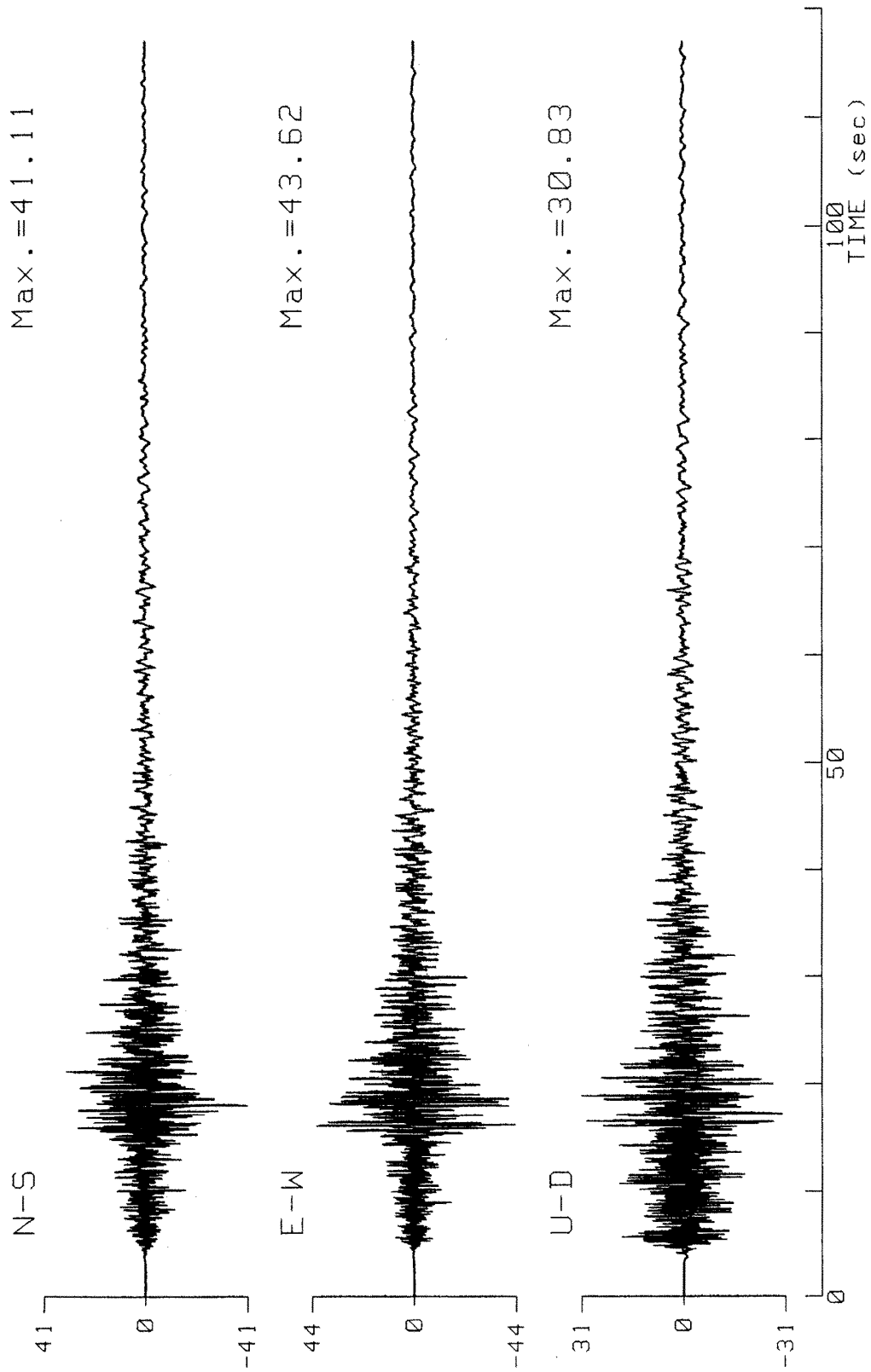
(3-2) CHY

Station = KSR (Kisarazu)
ACCELERATION (gal), Date and Time = 1987/12/17, 11:08:25.00



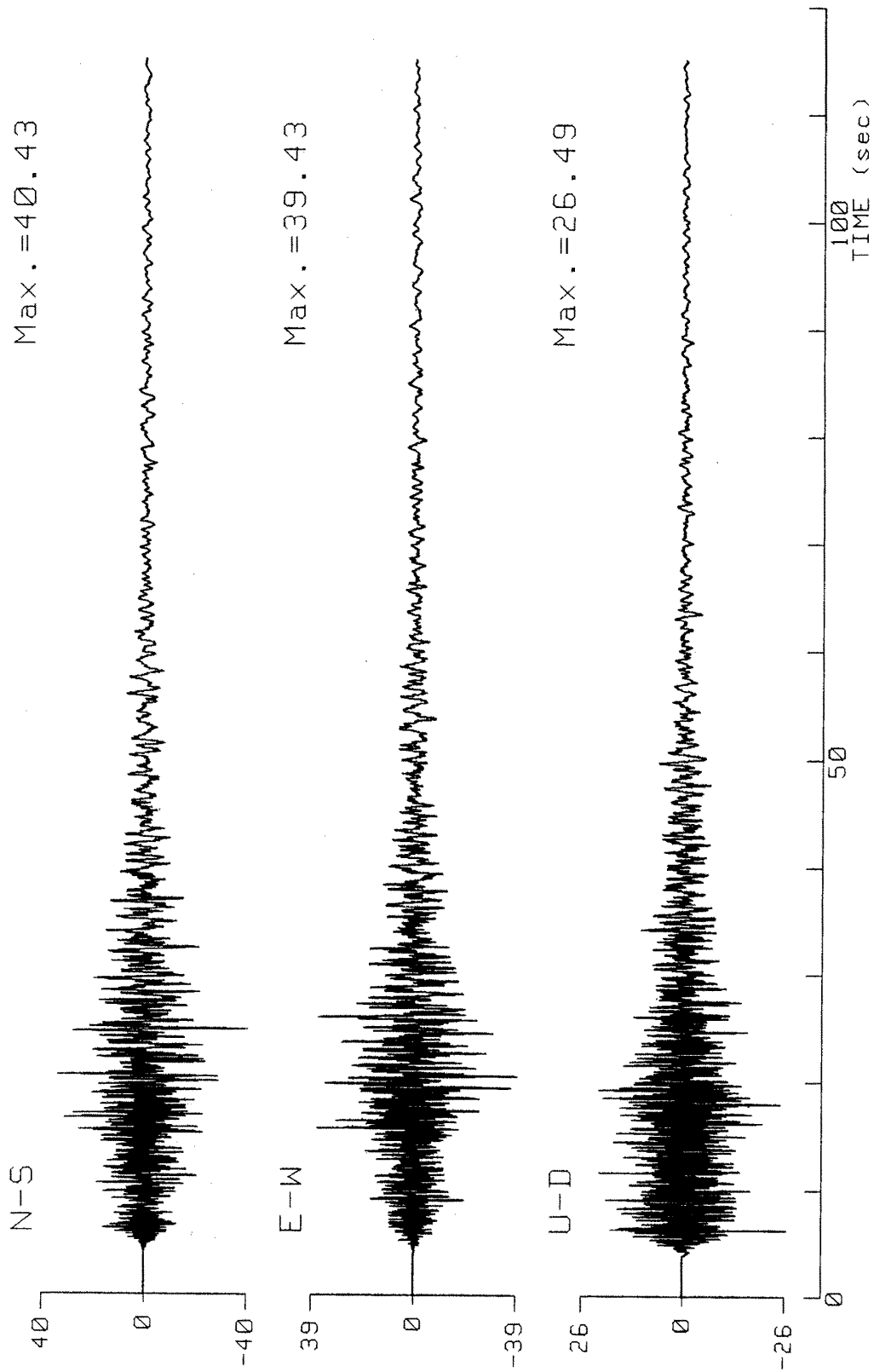
(3-3) KSR

Station = IWM (Iwaiminami)
ACCELERATION (gal), Date and Time = 1987/12/17, 11:08:27.00



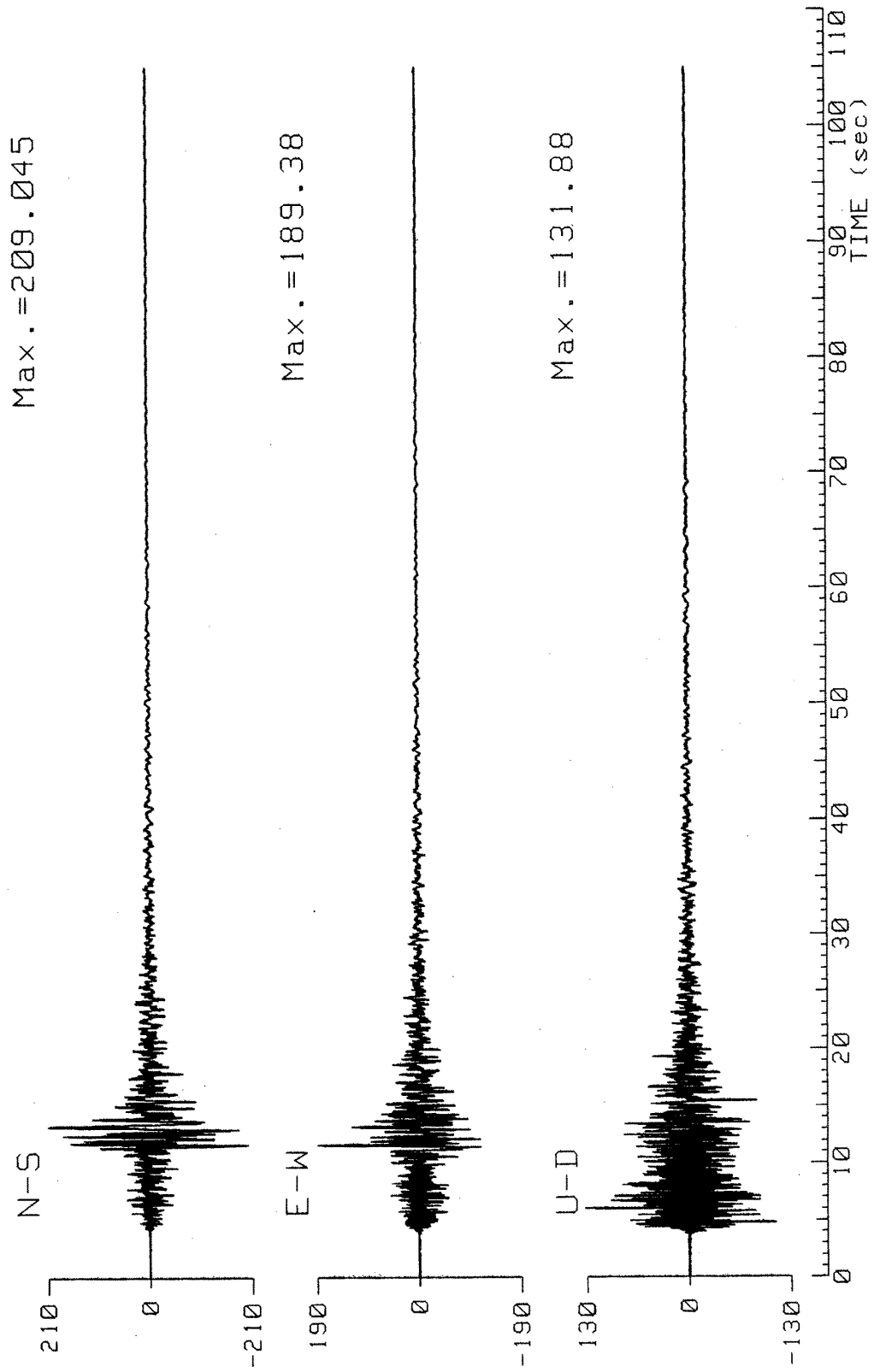
(3-4) IWM

Station = CHK (Chikura)
ACCELERATION (gal), Date and Time = 1987/12/17, 11:08:27.00



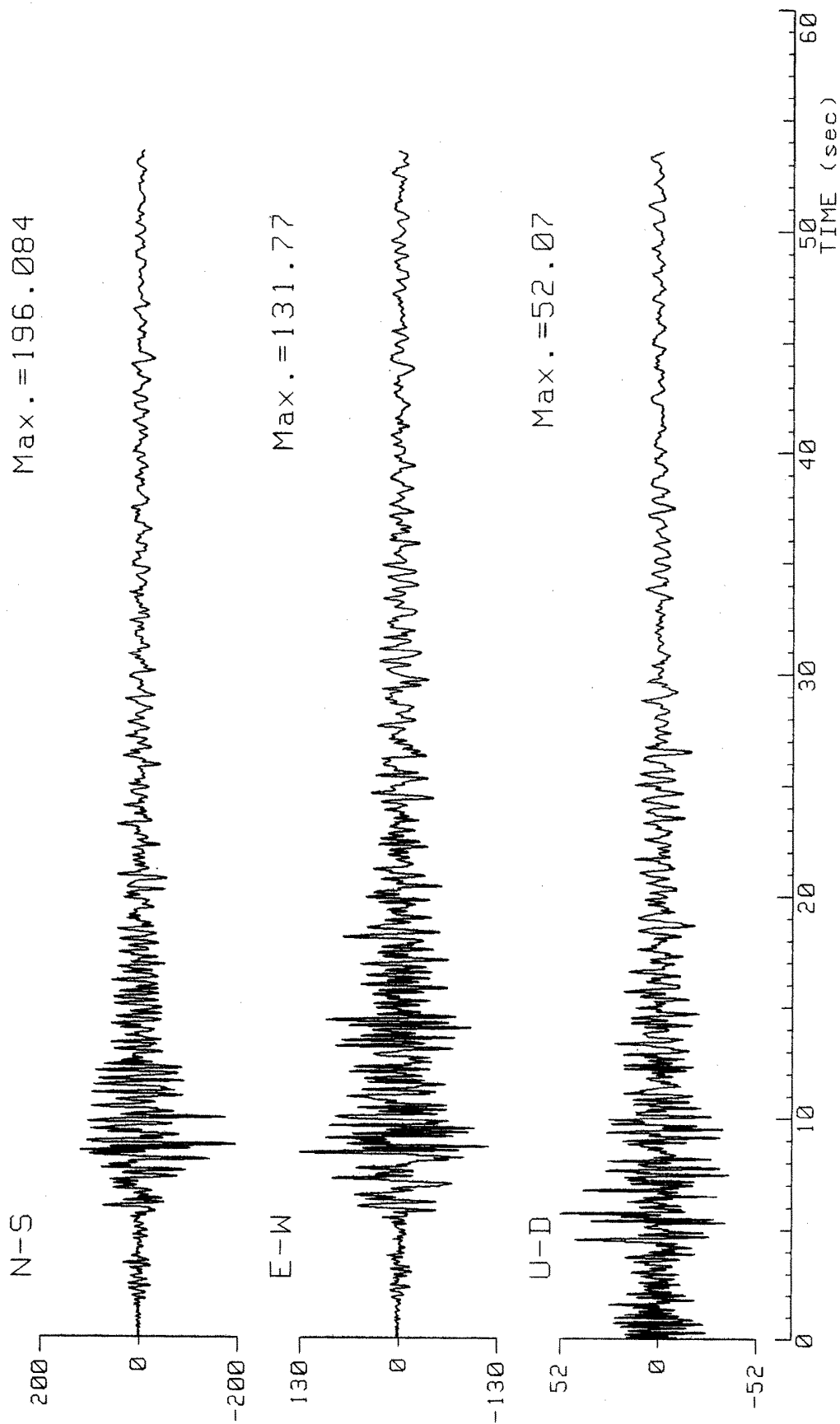
(3-5) CHK

Station = KTU (Katsuura)
ACCELERATION (gal), Date and Time = 1987/12/17, 11:08:22.00



(3-6) KTU

Station = ICH (Nippon-Gousei-Gomu)
ORIGINAL ACCELERATION (gal), Date and Time = 1987/12/17, 11:08



(3-7) ICH

Station = INA (Inage)
Component = N-S, Date and Time = 1987/12/17, 11:08:24.00

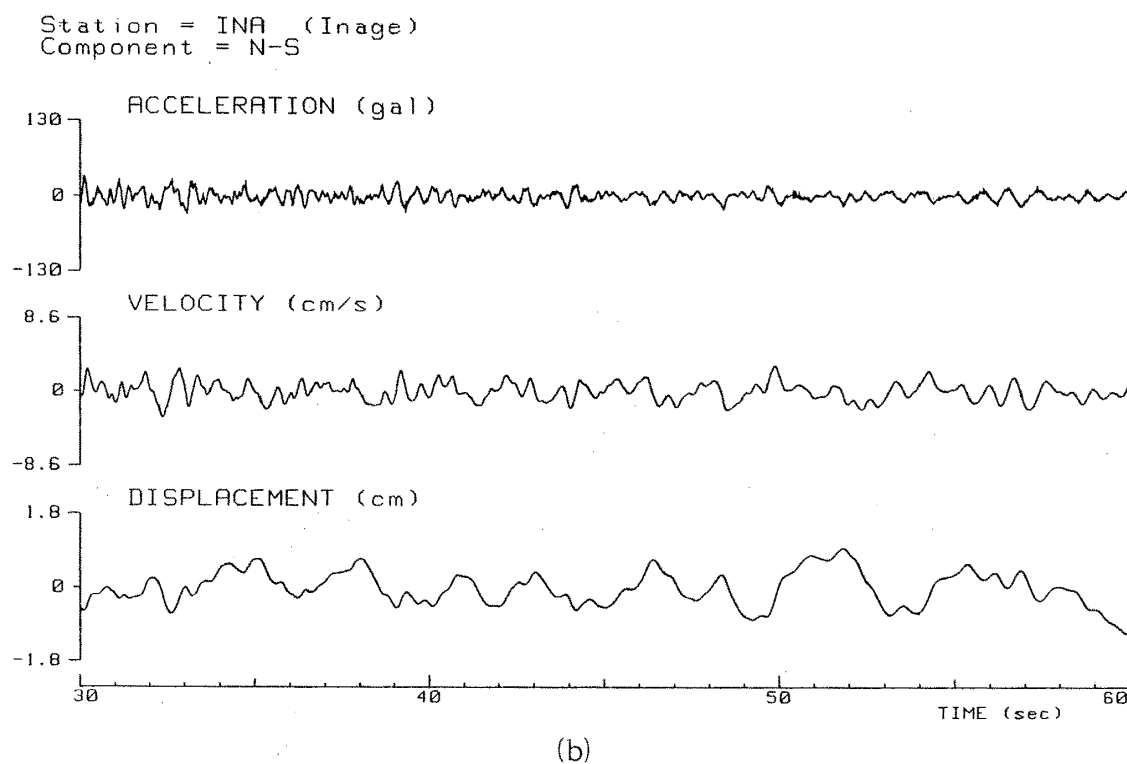
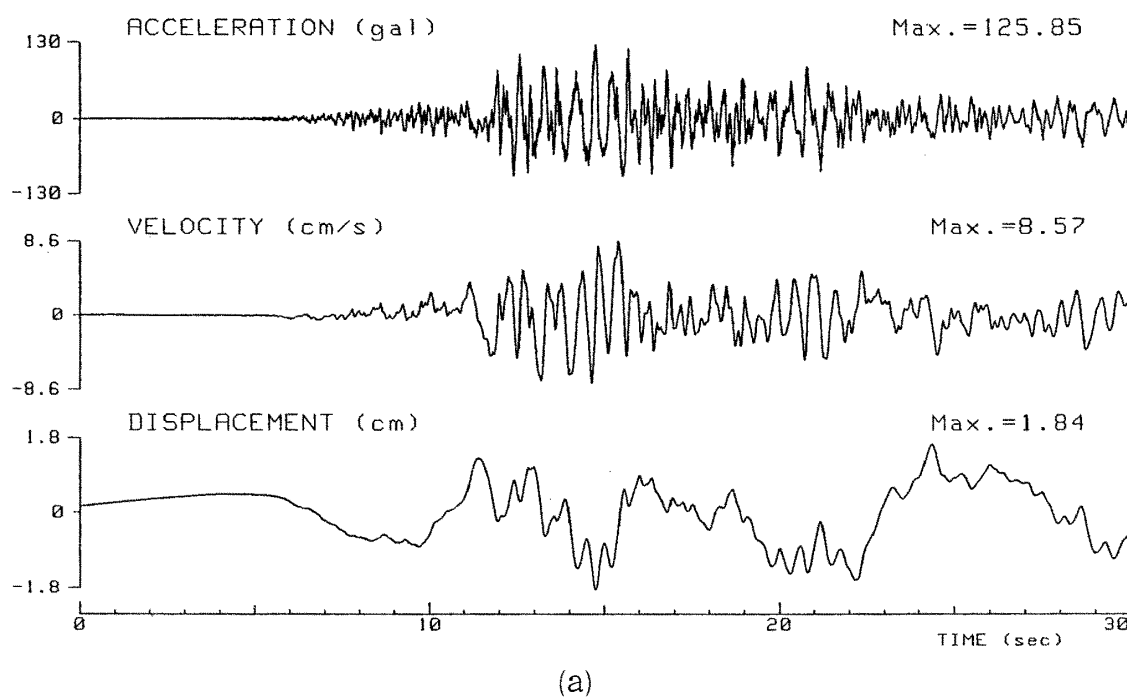
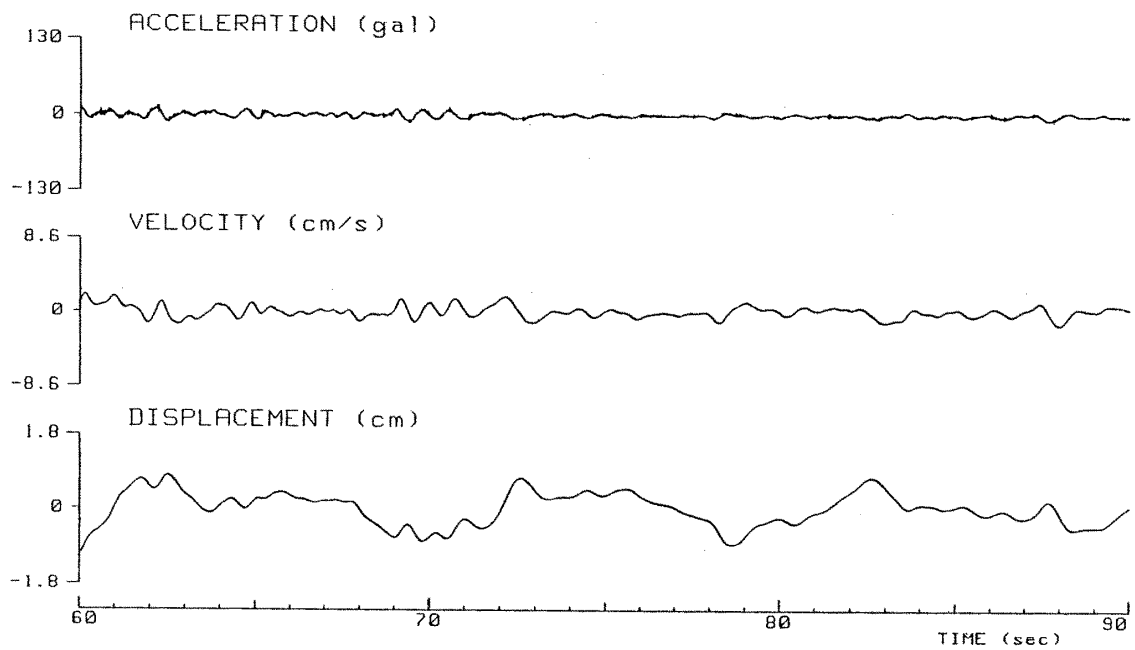


Fig. 4 Baseline-corrected acceleration, velocity and displacement.
(4-1) INA, NS-component

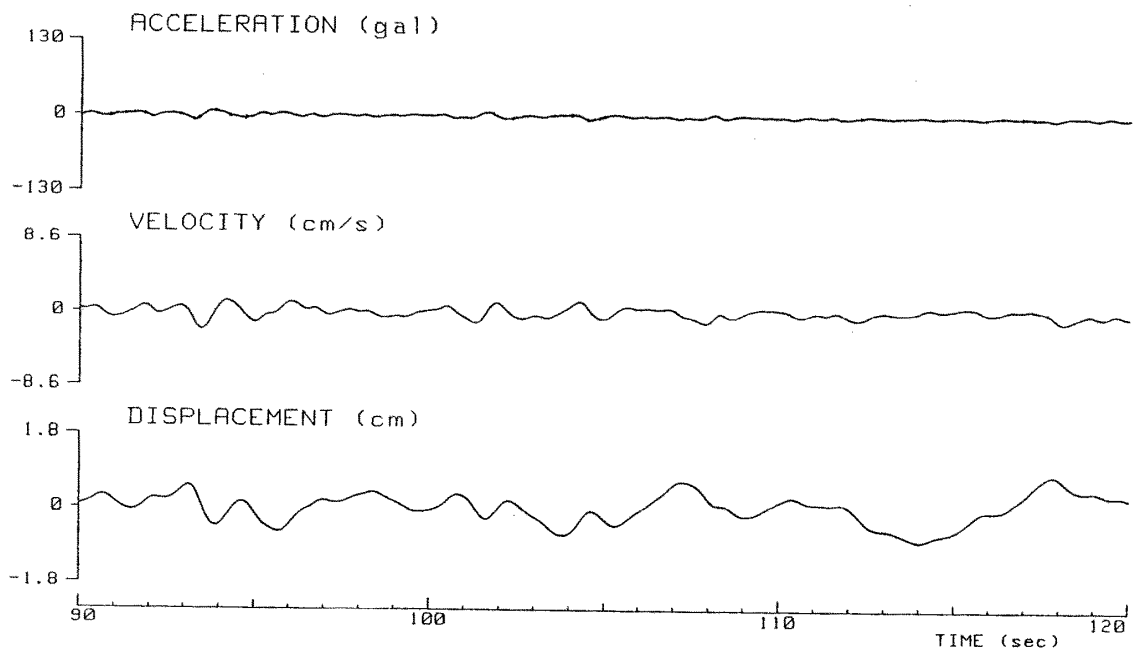
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = INA (Inage)
Component = N-S



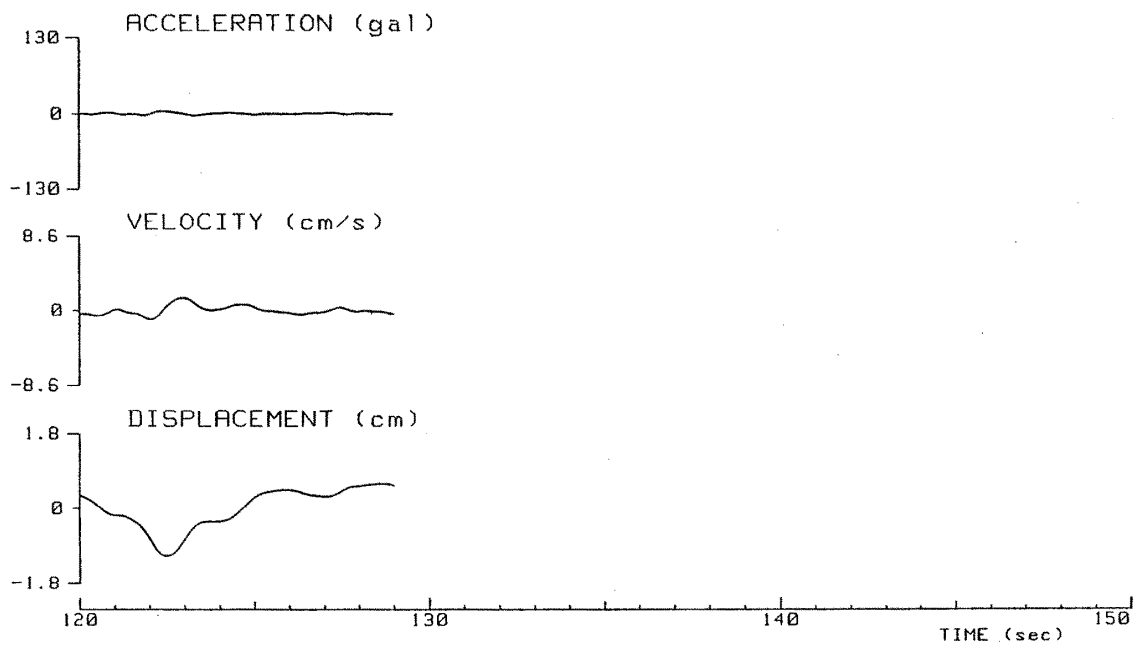
(c)

Station = INA (Inage)
Component = N-S



(d)

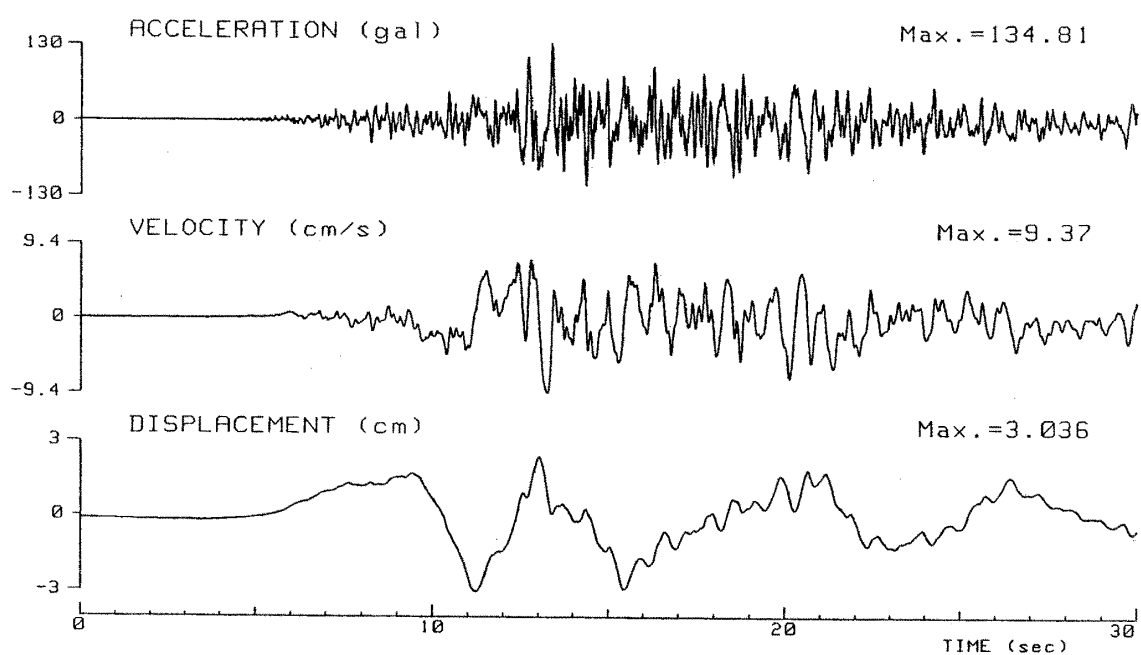
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Component = N-S



(e)

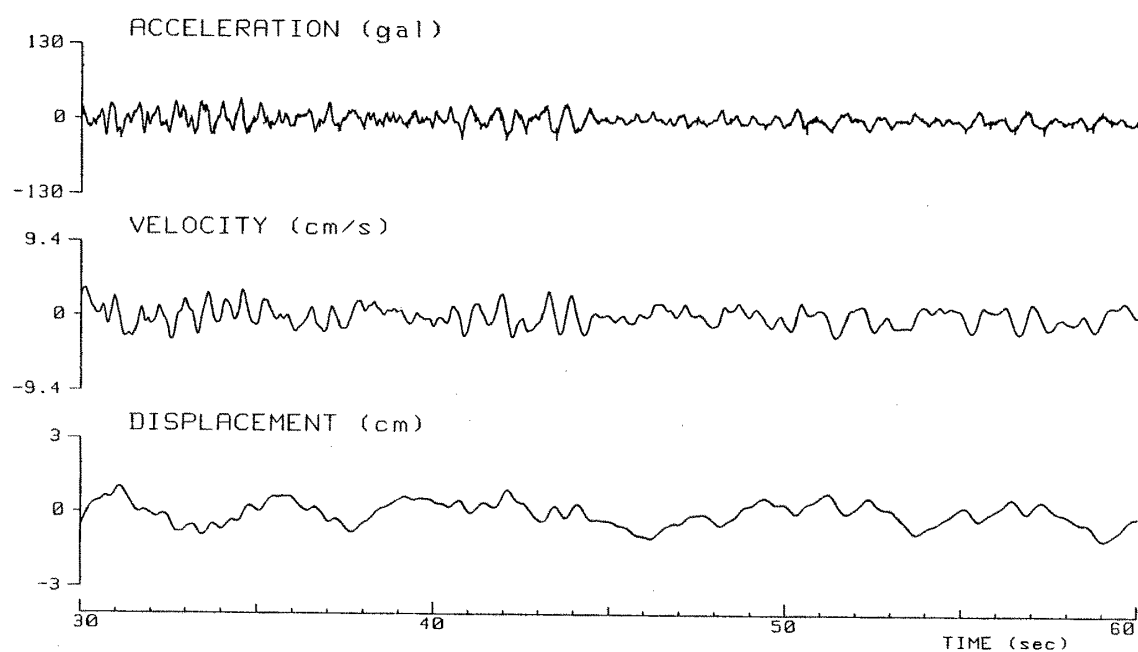
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = INA (Inage)
Component = E-W, Date and Time = 1987/12/17, 11:08:24.00



(a)

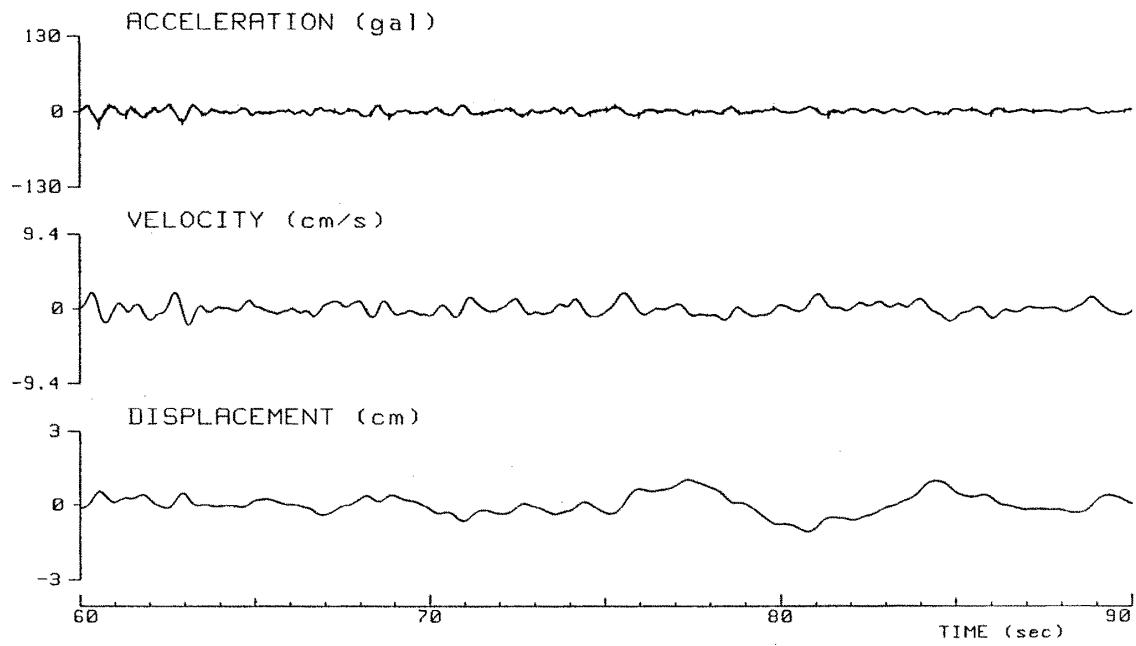
Station = INA (Inage)
Component = E-W



(b)

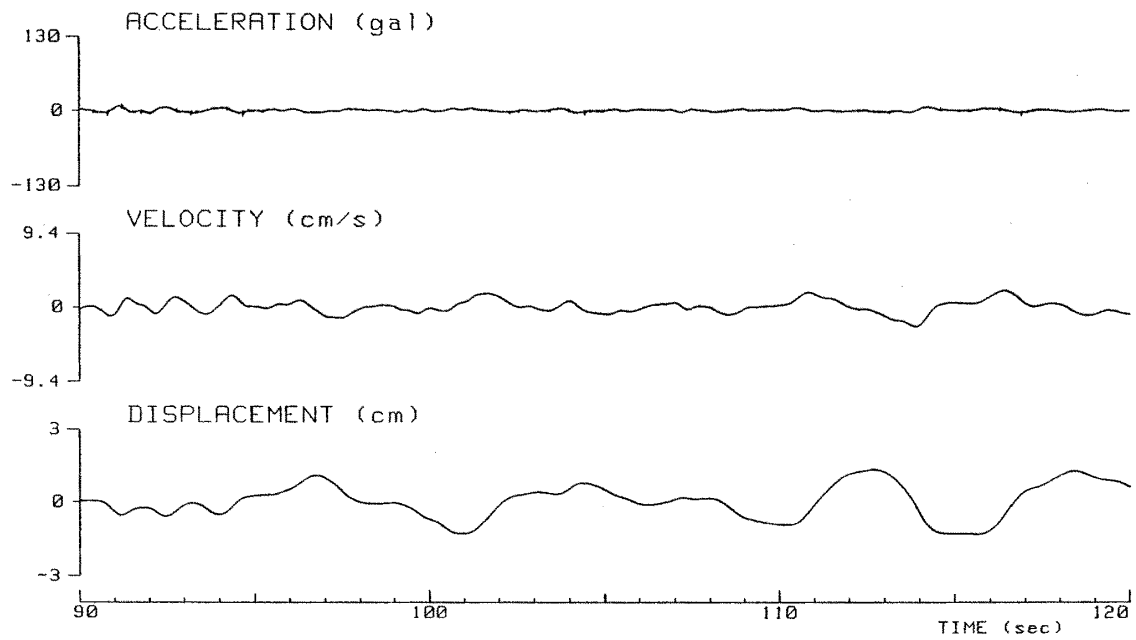
(4-2) INA, EW-component

Station = INA (Inage)
Component = E-W



(c)

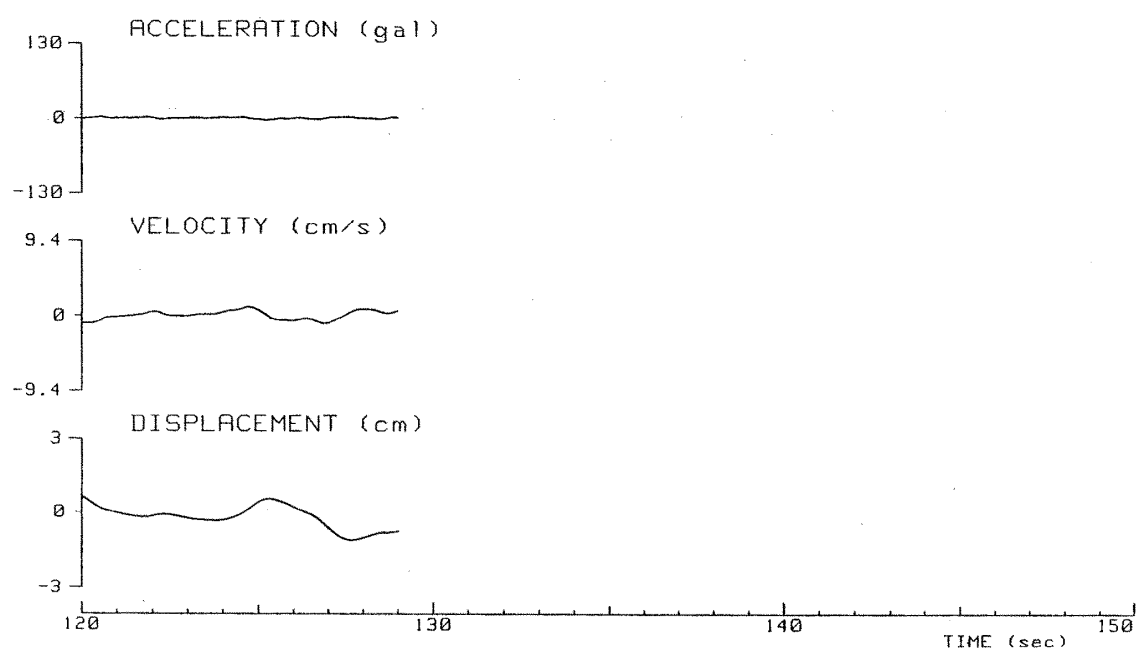
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Component = E-W



(d)

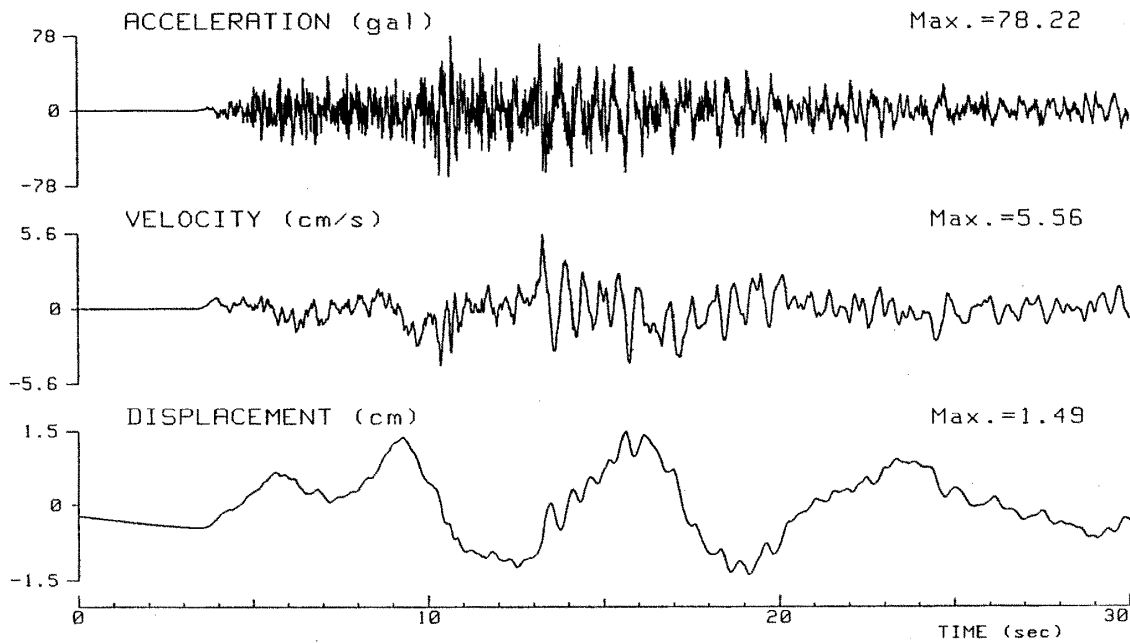
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

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Component = E-W



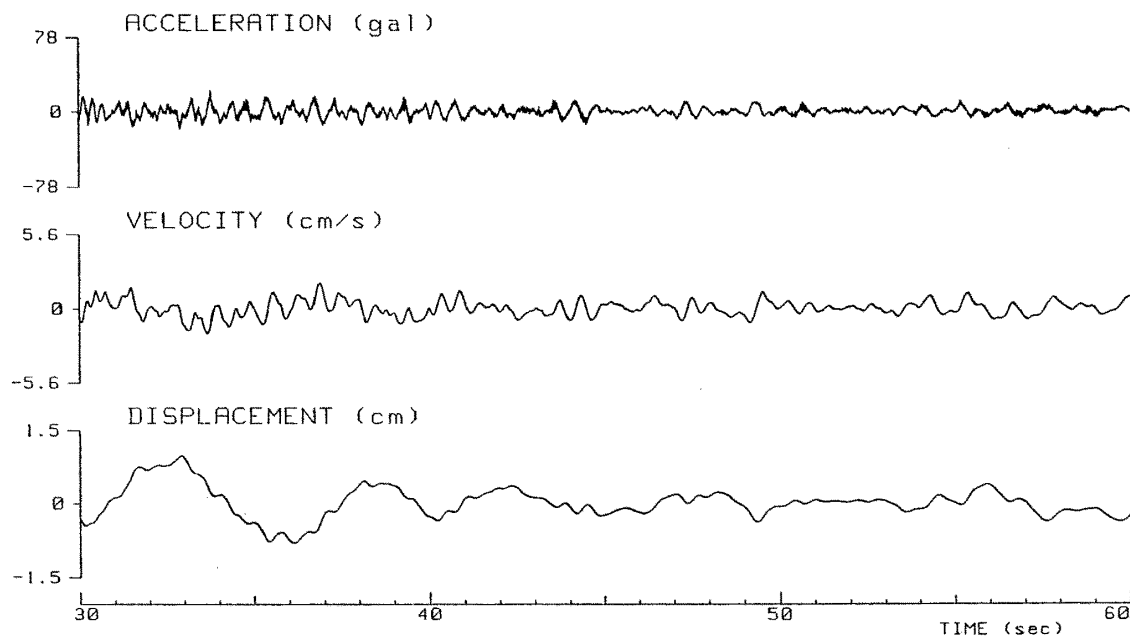
(e)

Station = INA (Inage)
Component = U-D, Date and Time = 1987/12/17, 11:08:24.00



(a)

Station = INA (Inage)
Component = U-D

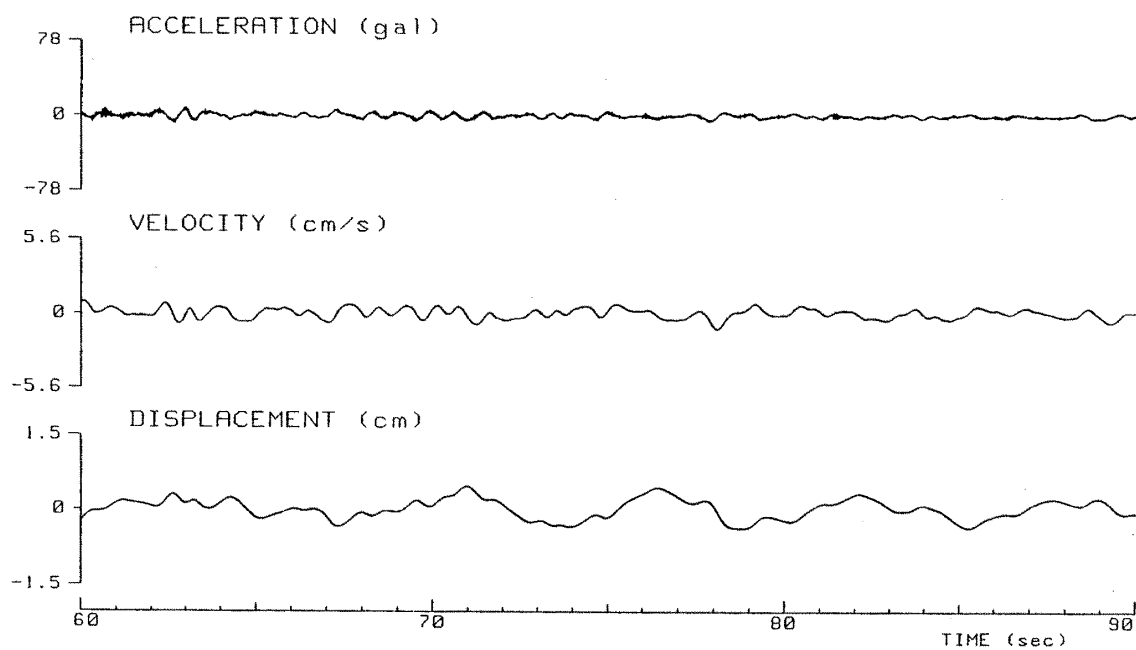


(b)

(4-3) INA, DU-component

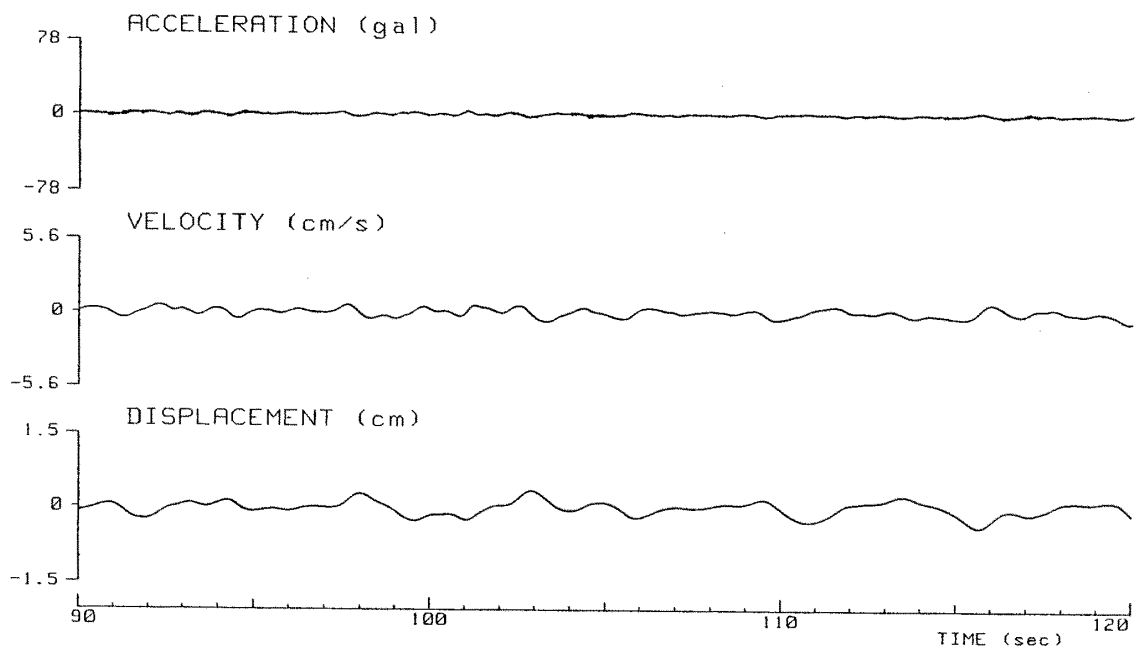
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Station = INA (Inage)
Component = U-D



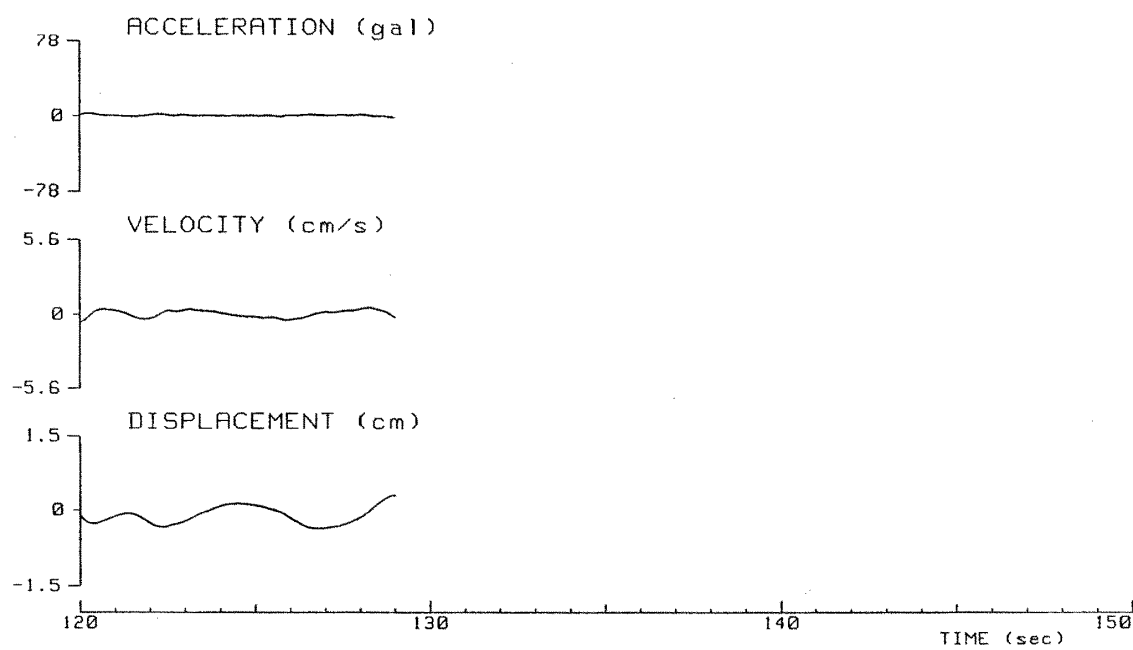
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Station = INA (Inage)
Component = U-D



(d)

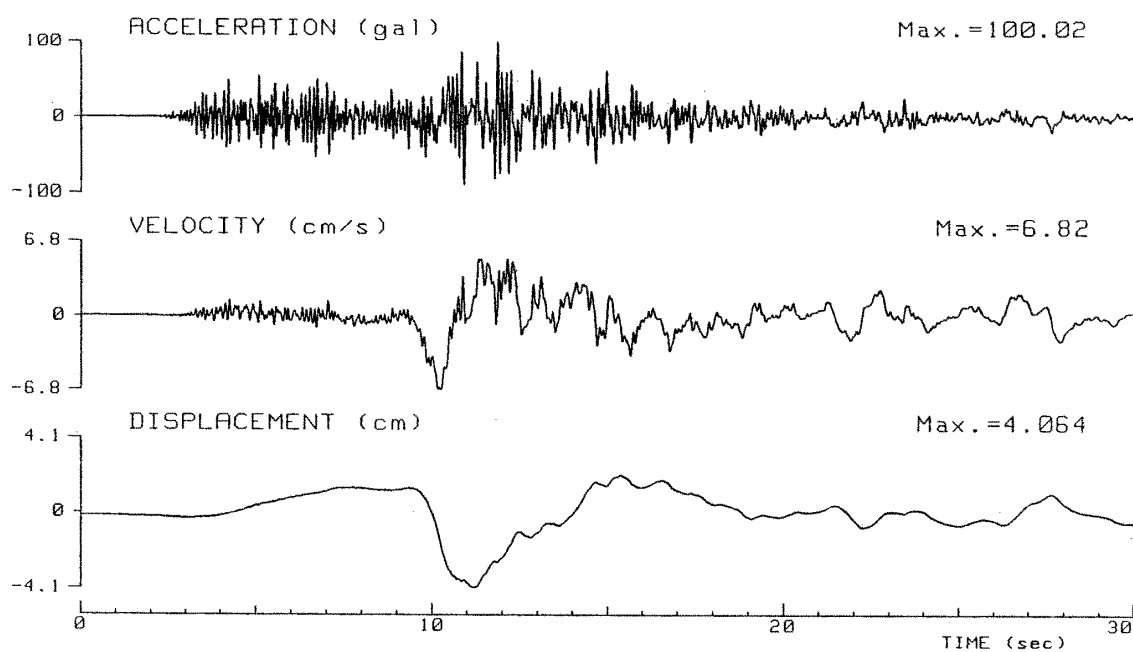
Station = INA (Inage)
Component = U-D



(e)

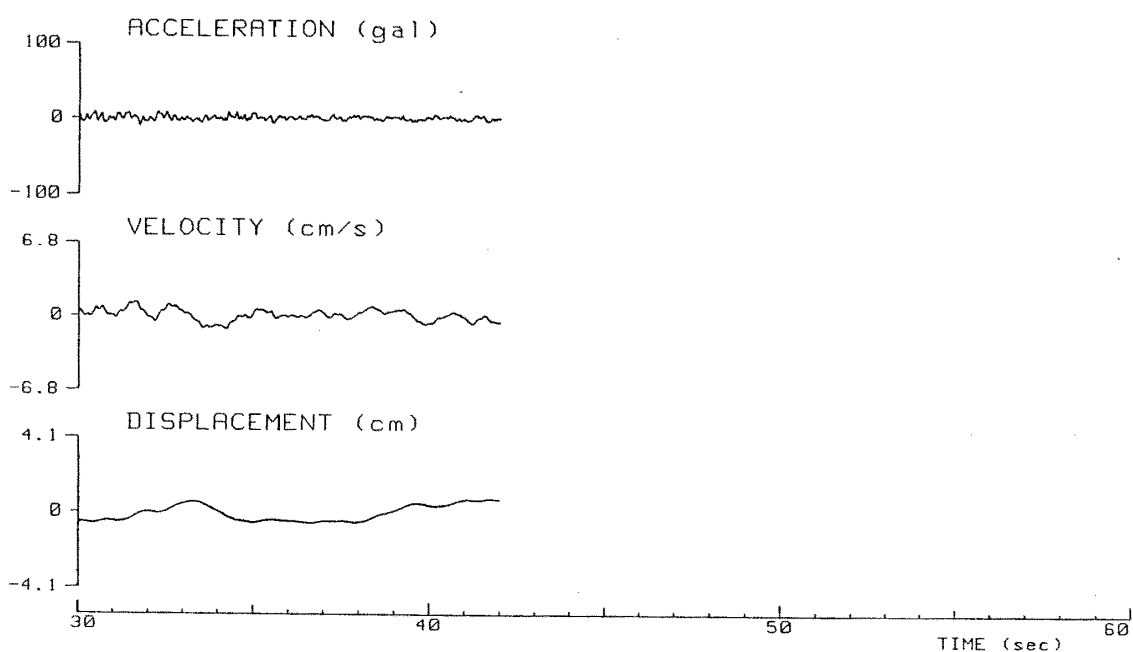
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = CHY (Chyoshi)
Component = N-S, Date and Time = 1987/12/17, 11:08:26.00



(a)

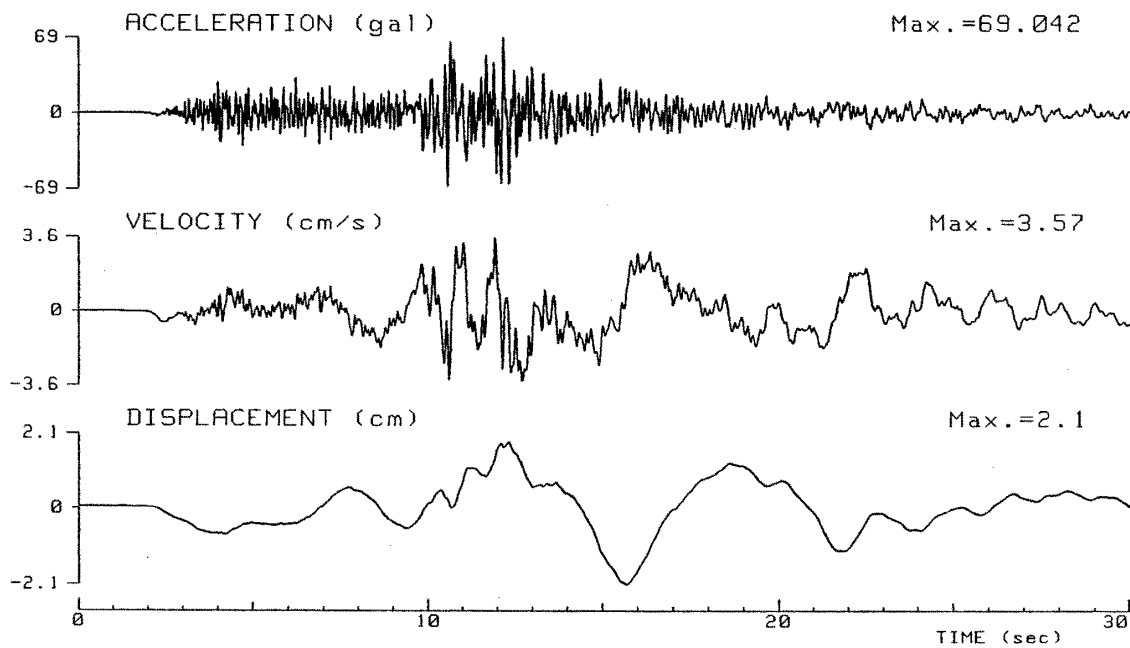
Station = CHY (Chyoshi)
Component = N-S



(b)

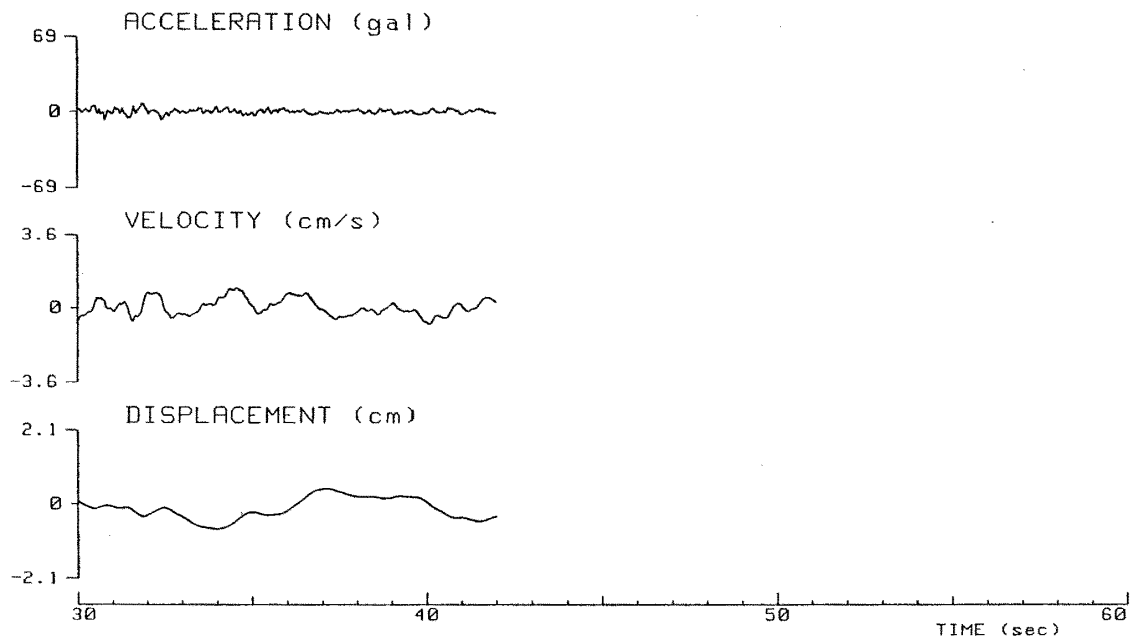
(4-4) CHY, NS-component

Station = CHY (Chyoshi)
Component = E-W, Date and Time = 1987/12/17, 11:08:26.00



(a)

Station = CHY (Chyoshi)
Component = E-W

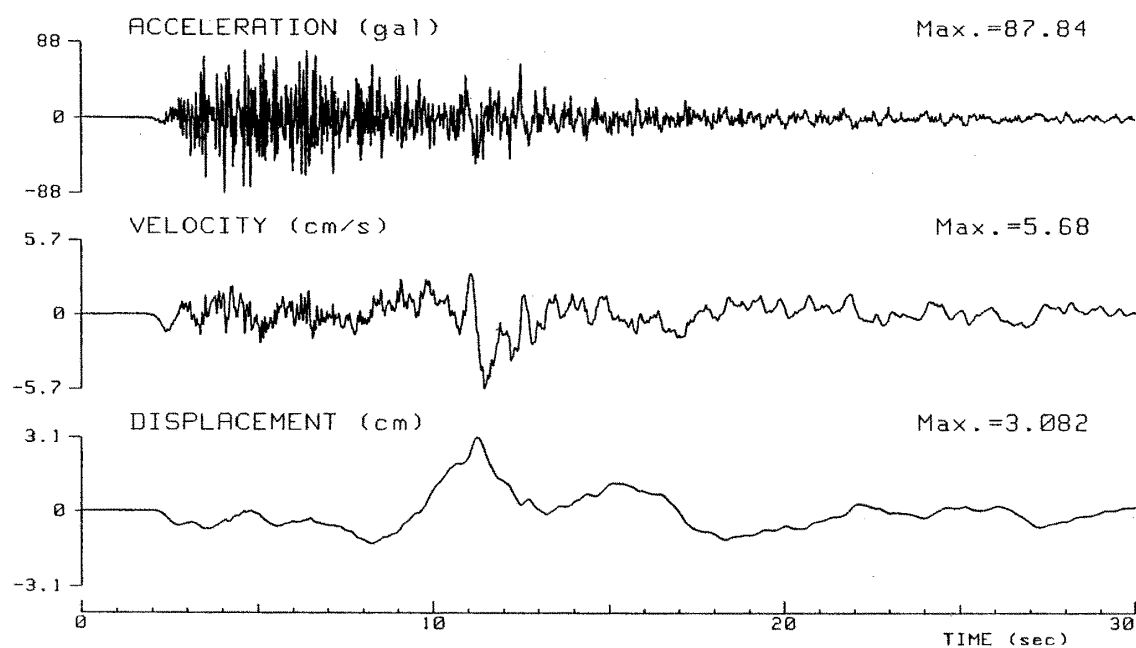


(b)

(4-5) CHY, EW-component

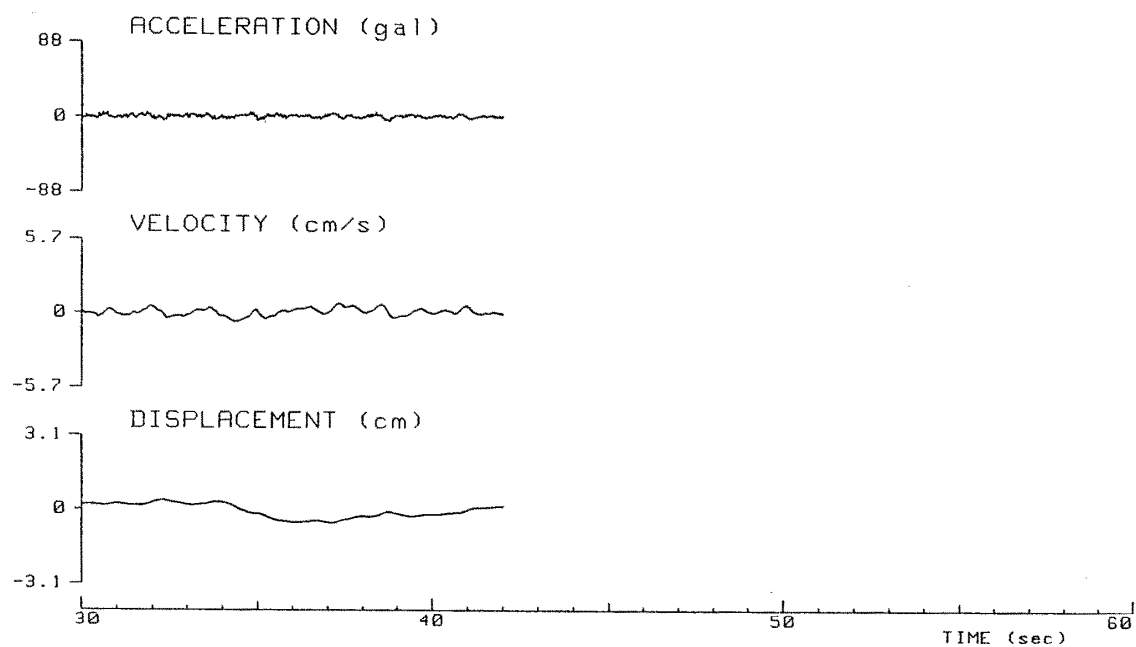
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = CHY (Chyoshi)
Component = U-D, Date and Time = 1987/12/17, 11:08:26.00



(a)

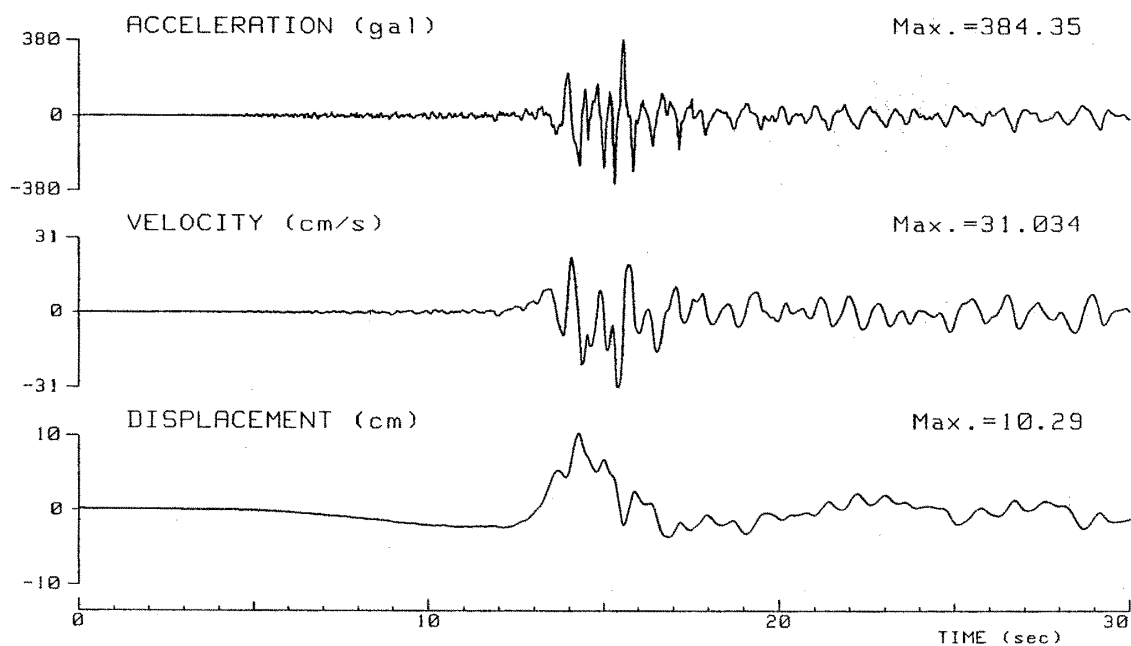
Station = CHY (Chyoshi)
Component = U-D



(b)

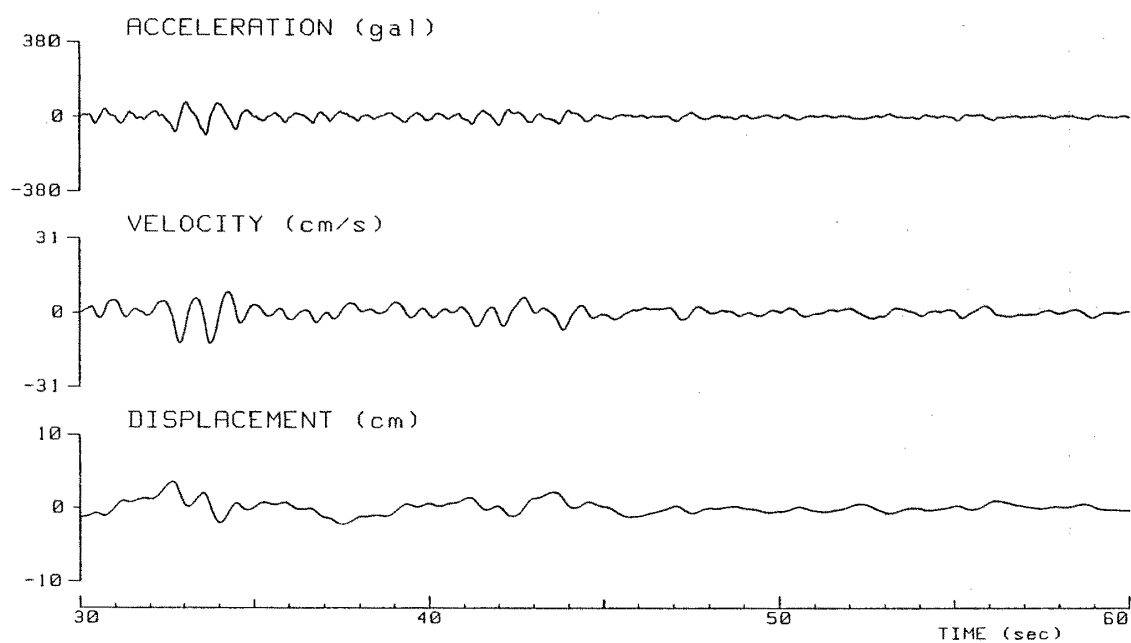
(4-6) CHY, DU-component

Station = KSR (Kisarazu)
Component = N-S, Date and Time = 1987/12/17, 11:08:25.00



(a)

Station = KSR (Kisarazu)
Component = N-S

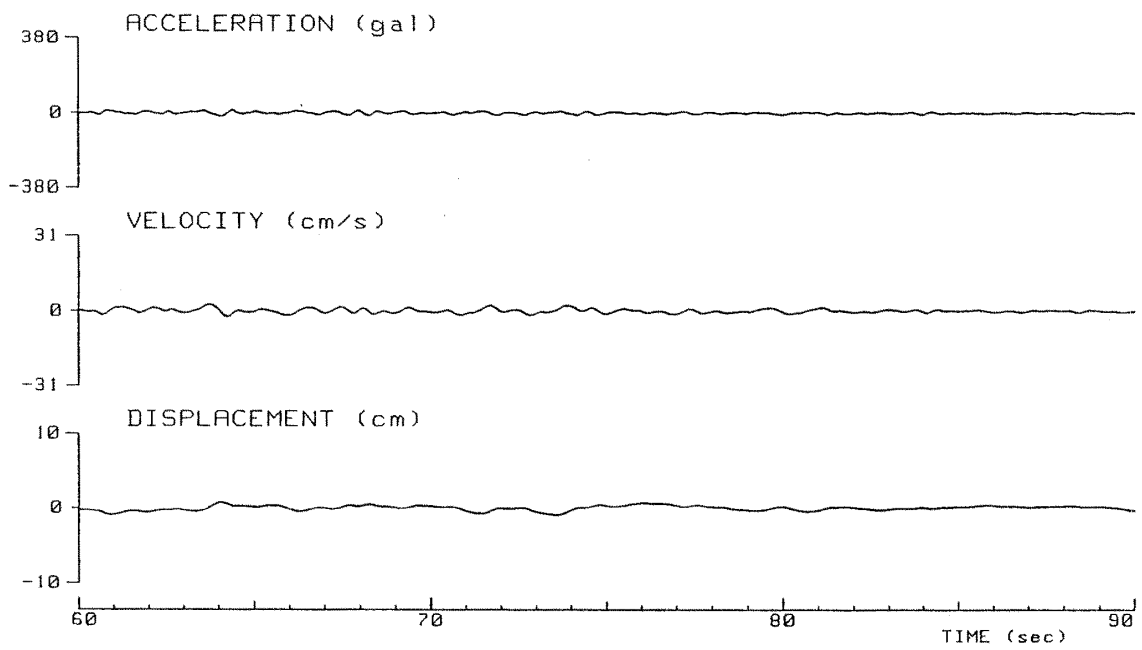


(b)

(4-7) KSR, NS-component

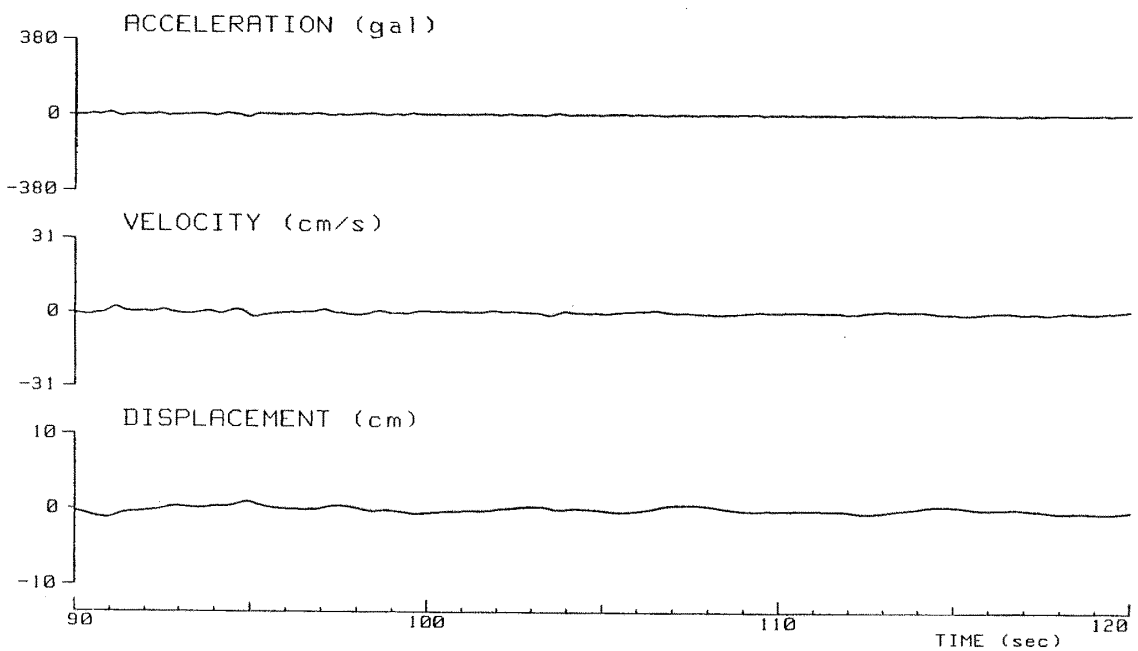
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = KSR (Kisarazu)
Component = N-S



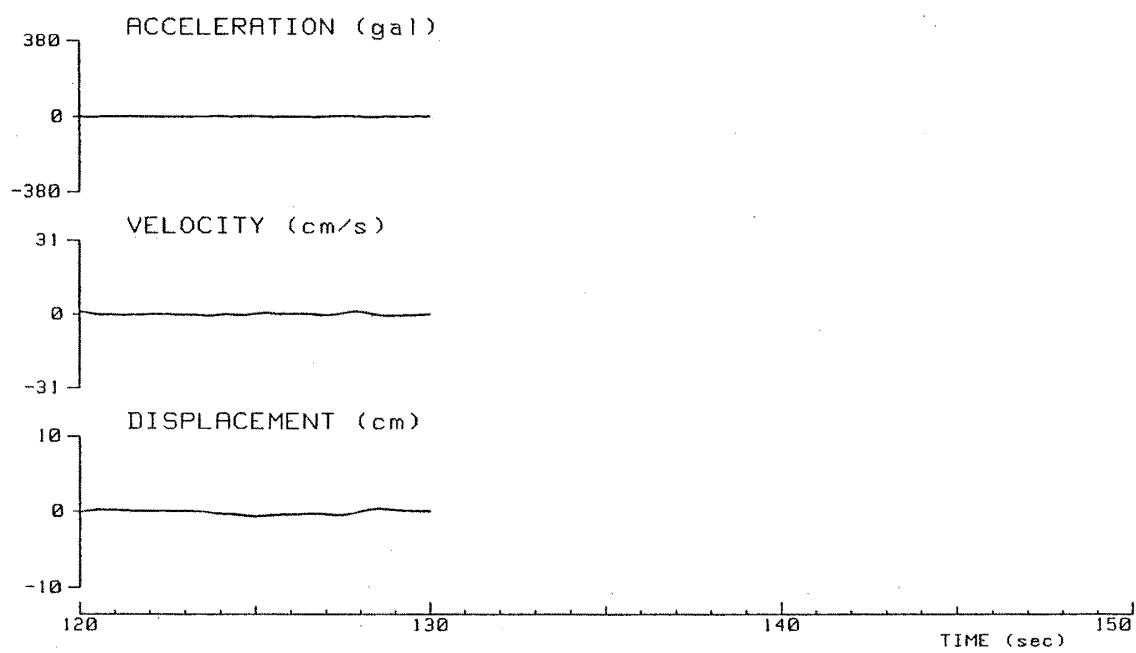
(c)

Station = KSR (Kisarazu)
Component = N-S



(d)

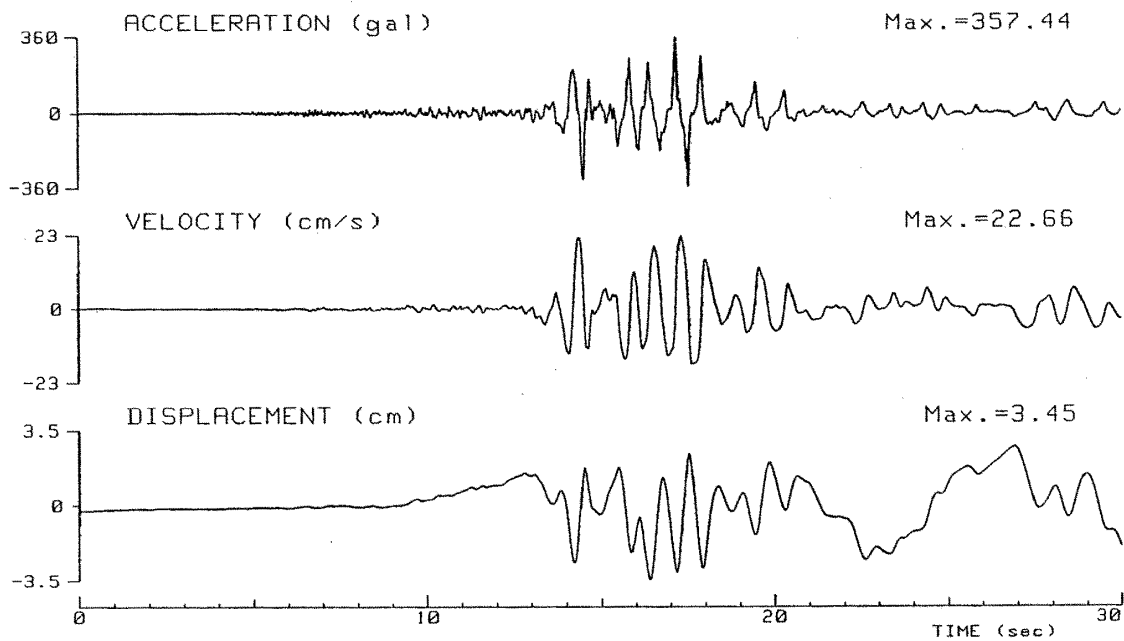
Station = KSR (Kisarazu)
Component = N-S



(e)

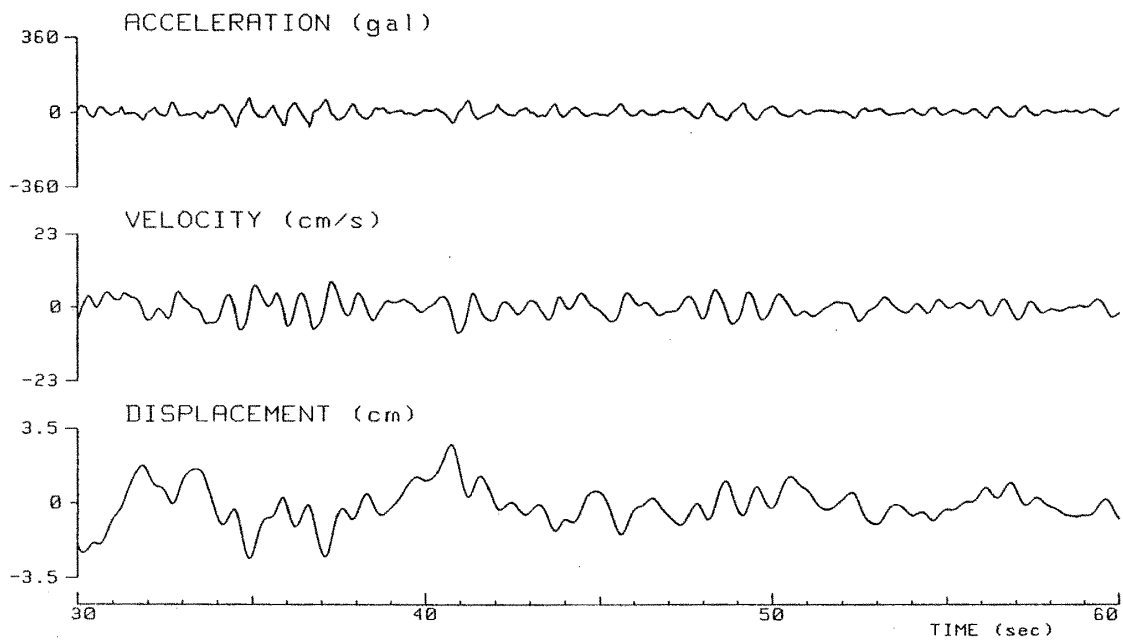
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = KSR (Kisarazu)
Component = E-W, Date and Time = 1987/12/17, 11:08:25.00



(a)

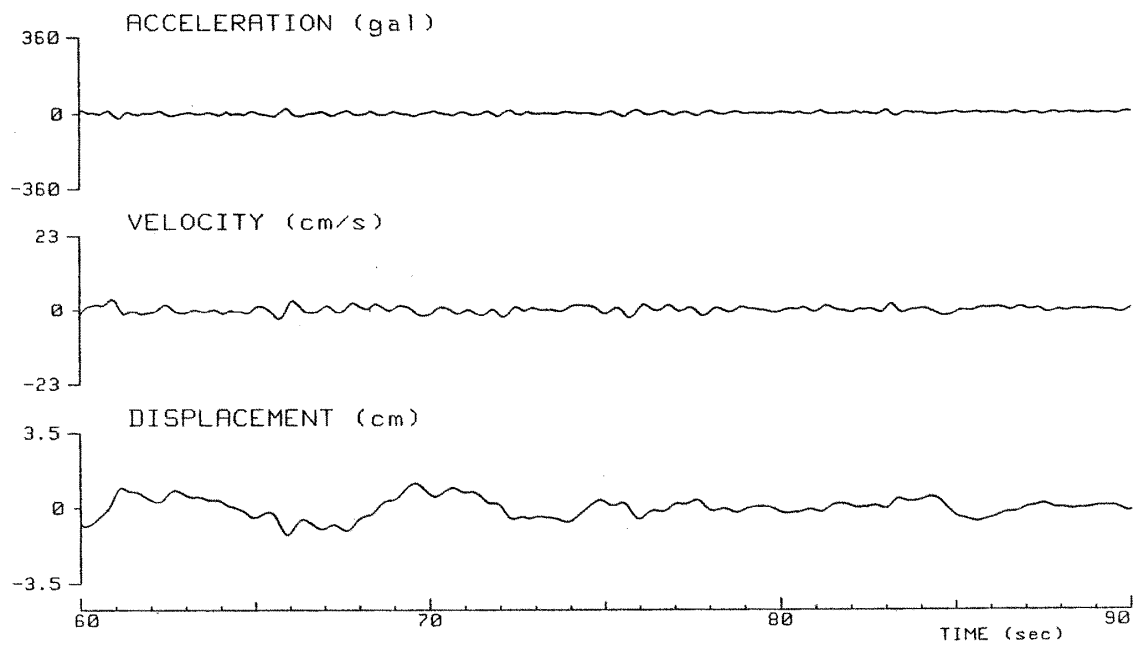
Station = KSR (Kisarazu)
Component = E-W



(b)

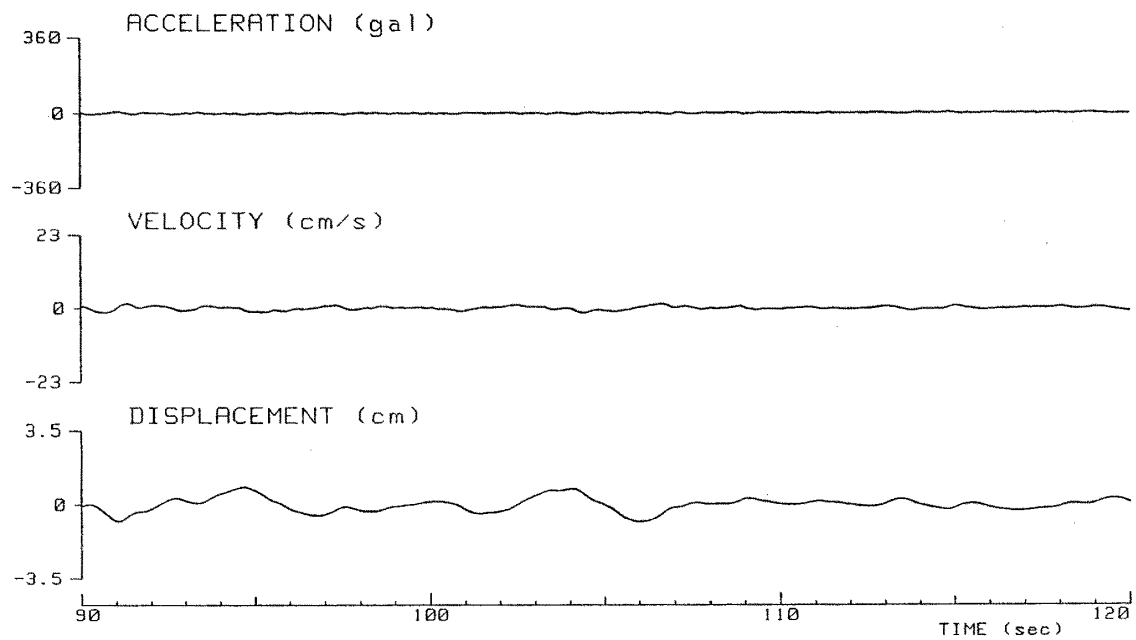
(4-8) KSR, EW-component

Station = KSR (Kisarazu)
Component = E-W



(c)

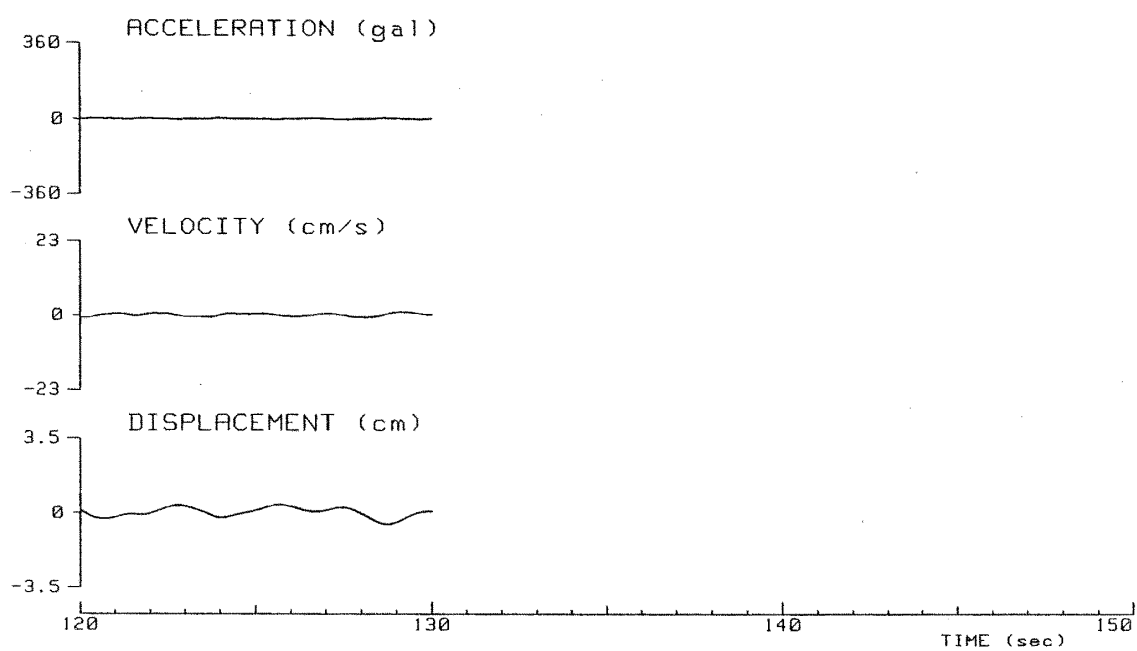
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Component = E-W



(d)

Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

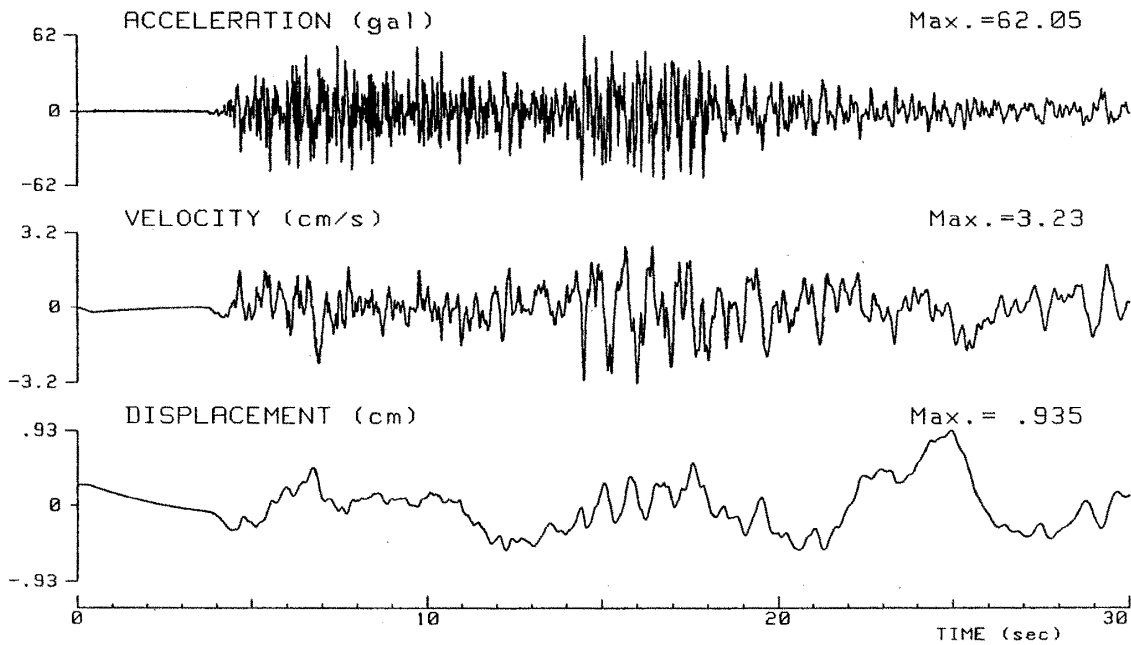
Station = KSR (Kisarazu)
Component = E-W



(e)

Station = KSR (Kisarazu)

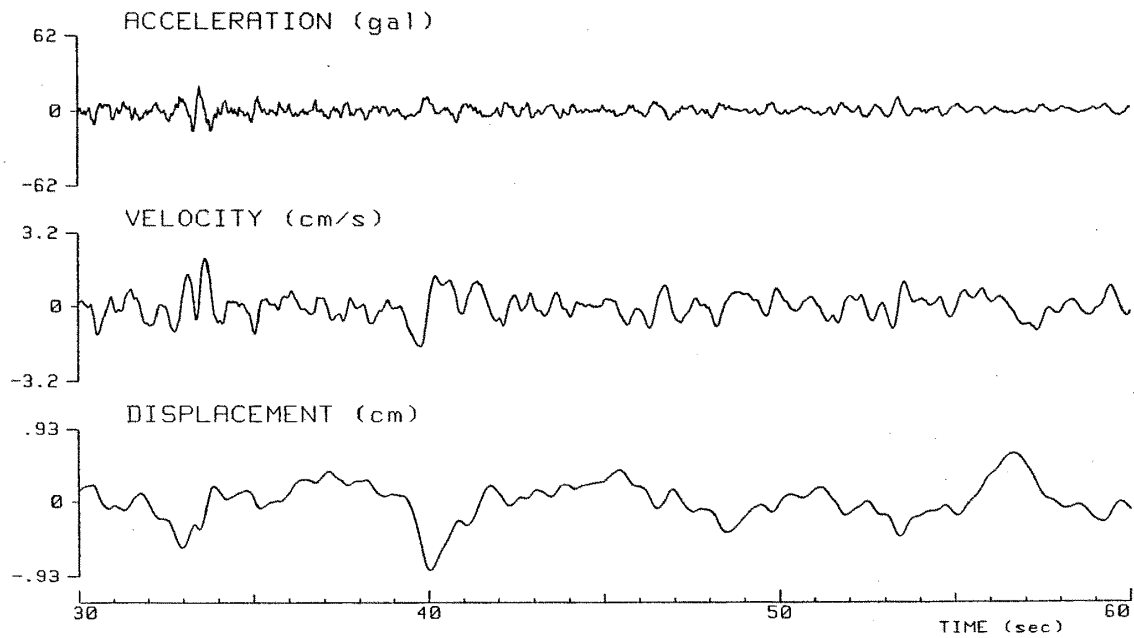
Component = U-D, Date and Time = 1987/12/17, 11:08:25.00



(a)

Station = KSR (Kisarazu)

Component = U-D

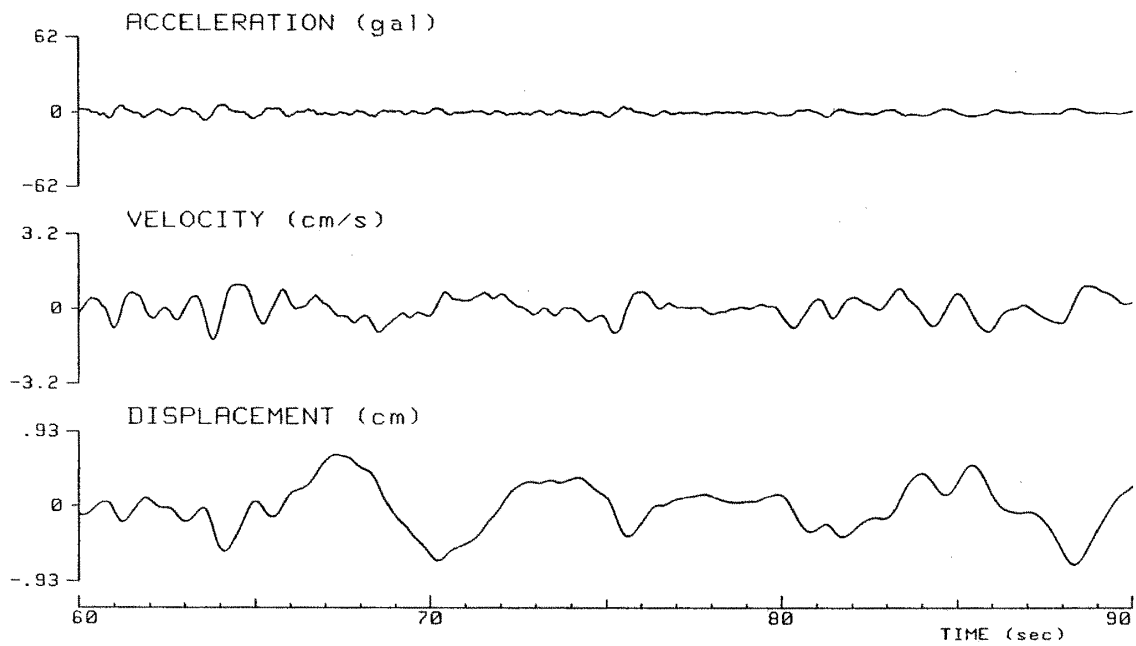


(b)

(4-9) KSR, UD-component

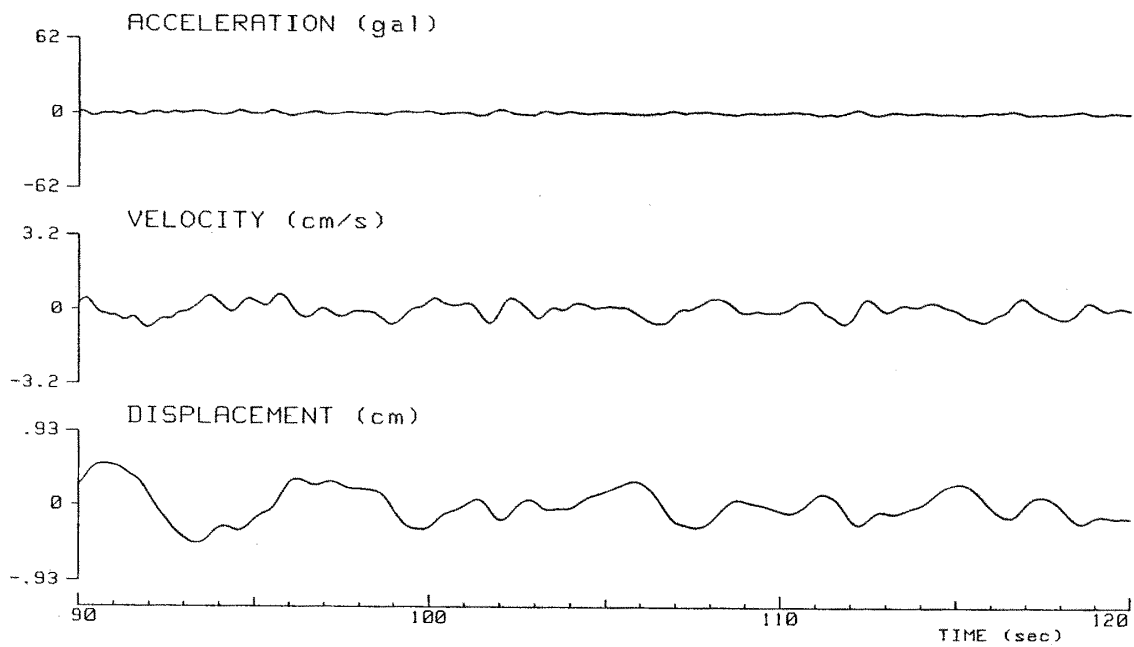
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = KSR (Kisarazu)
Component = U-D



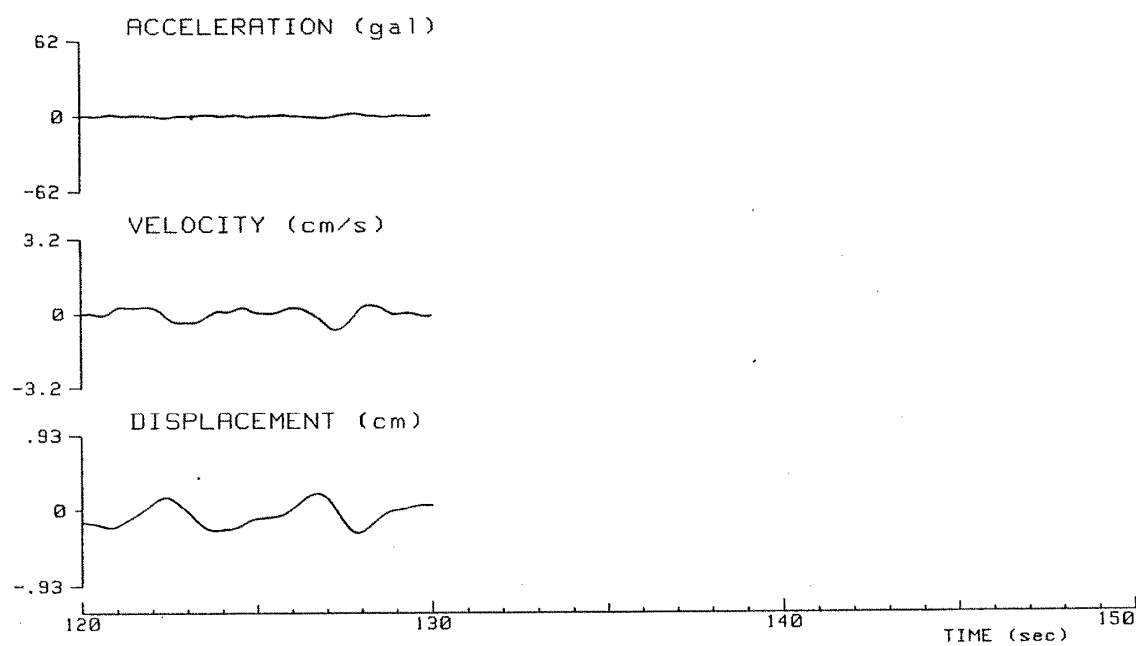
(c)

Station = KSR (Kisarazu)
Component = U-D



(d)

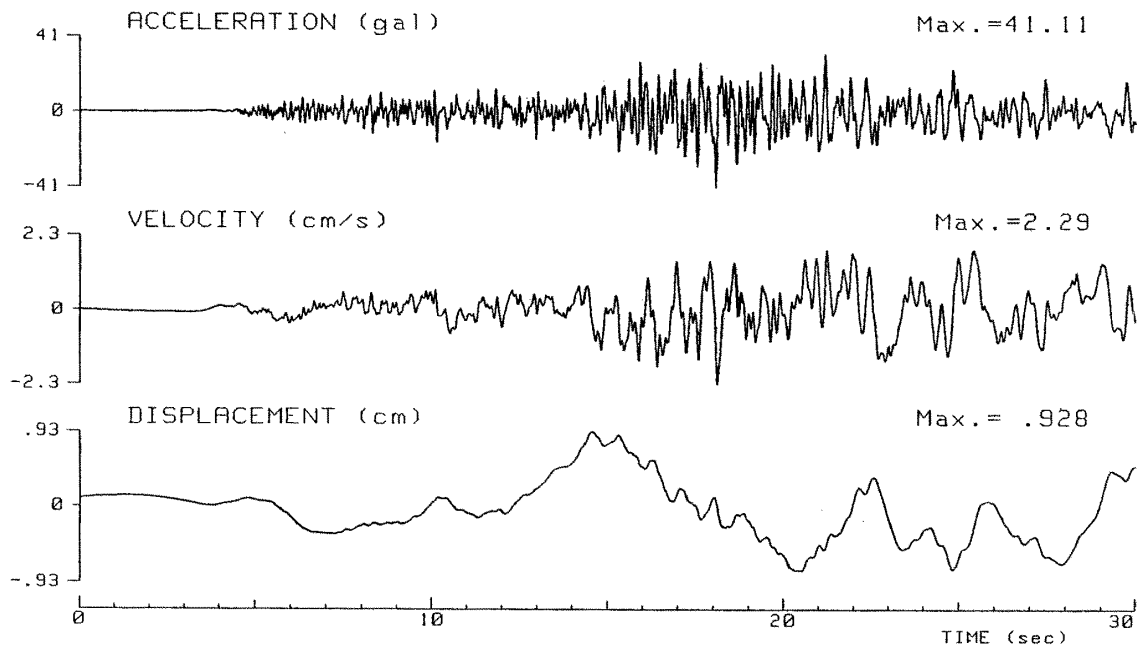
Station = KSR (Kisarazu)
Component = U-D



(e)

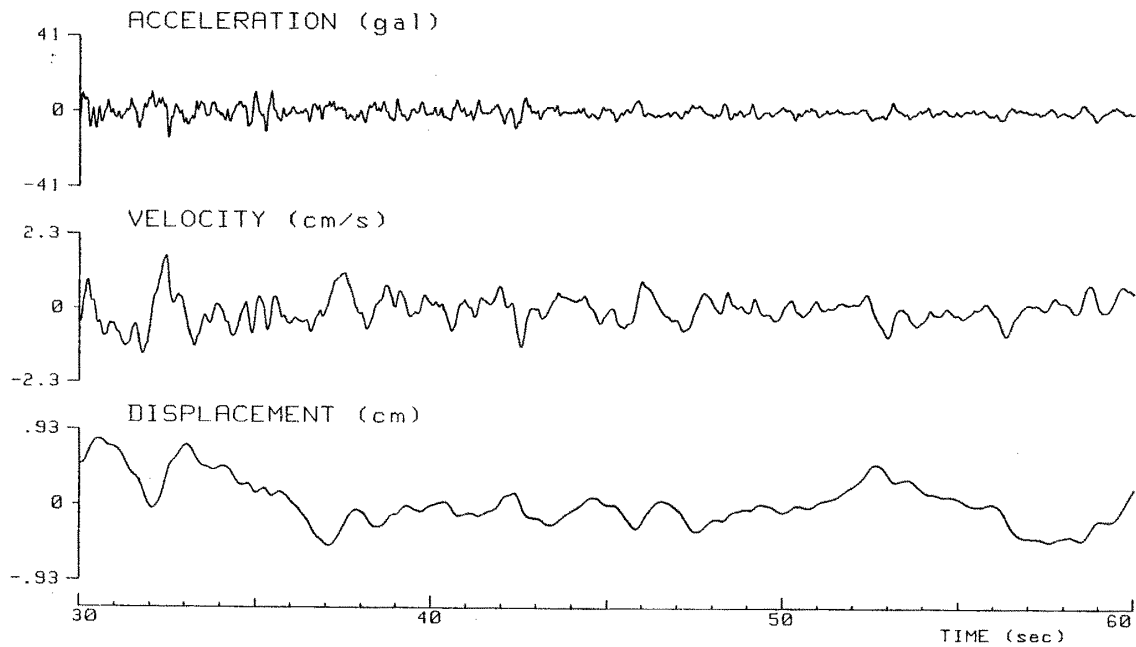
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = IWM (Iwaiminami)
Component = N-S, Date and Time = 1987/12/17, 11:08:27.00



(a)

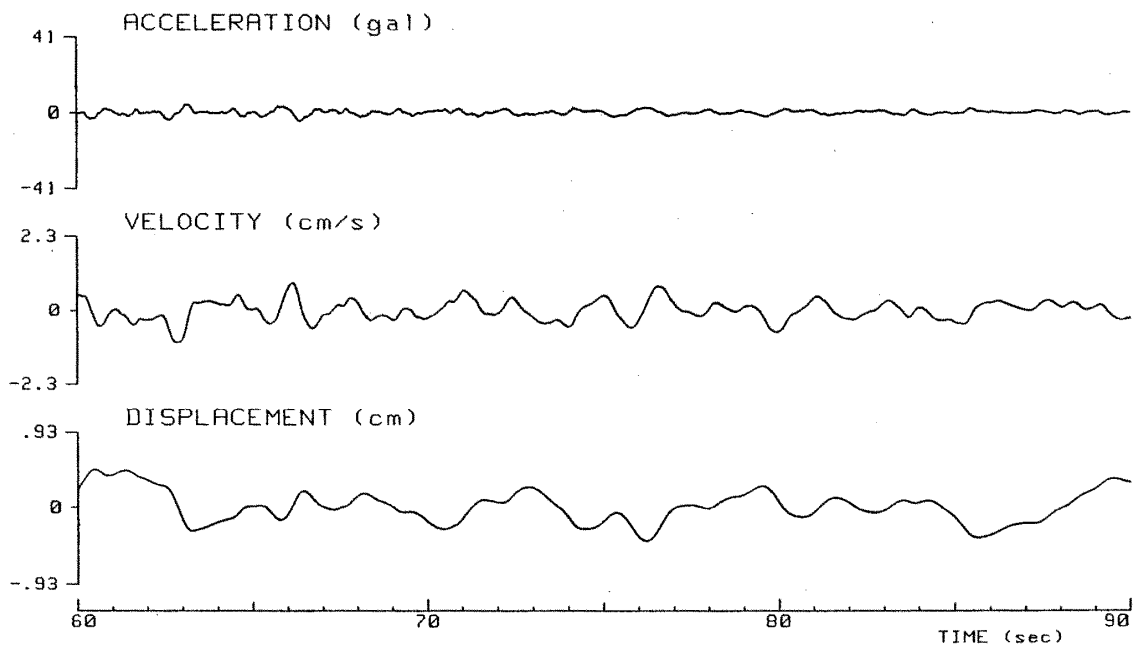
Station = IWM (Iwaiminami)
Component = N-S



(b)

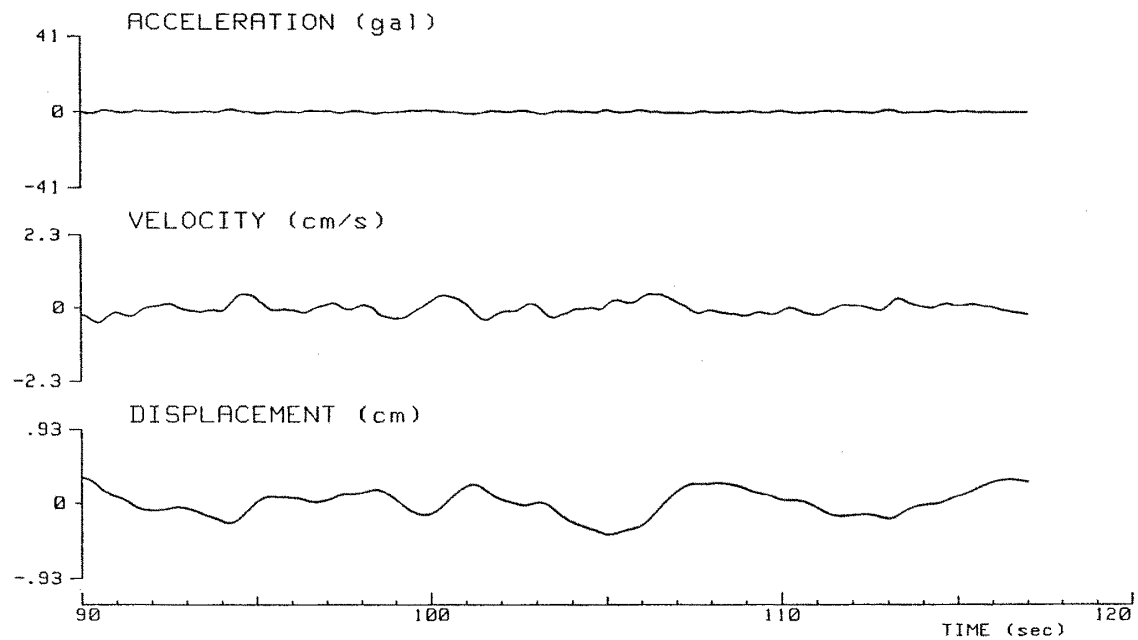
(4-10) IWM, NS-component

Station = IWM (Iwaiminami)
Component = N-S



(c)

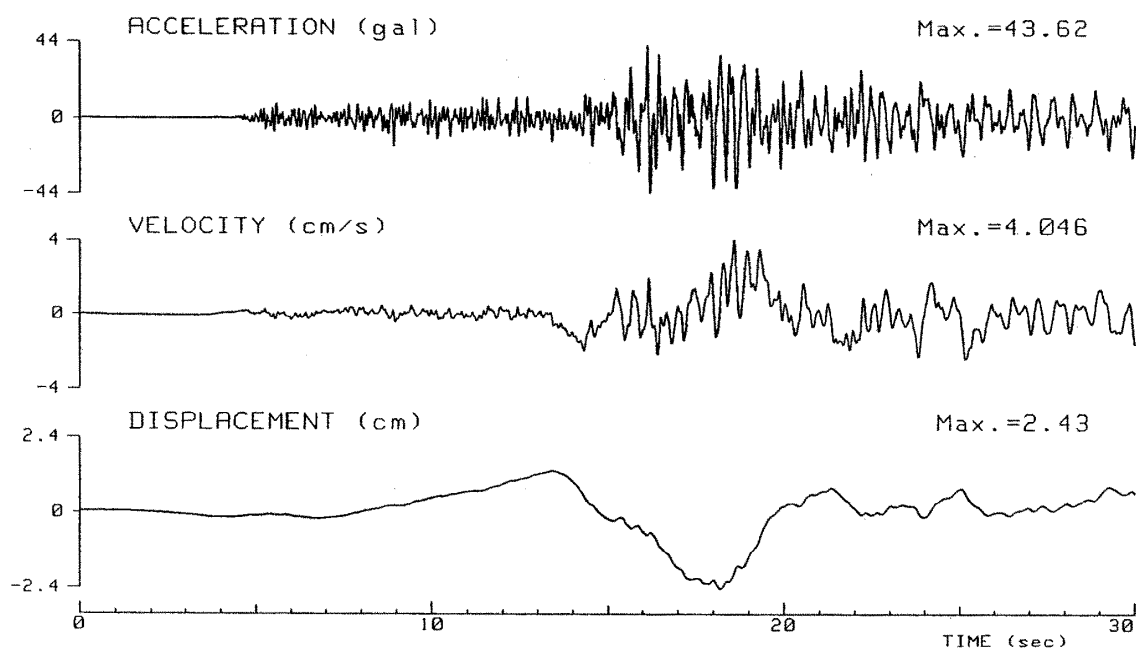
Station = IWM (Iwaiminami)
Component = N-S



(d)

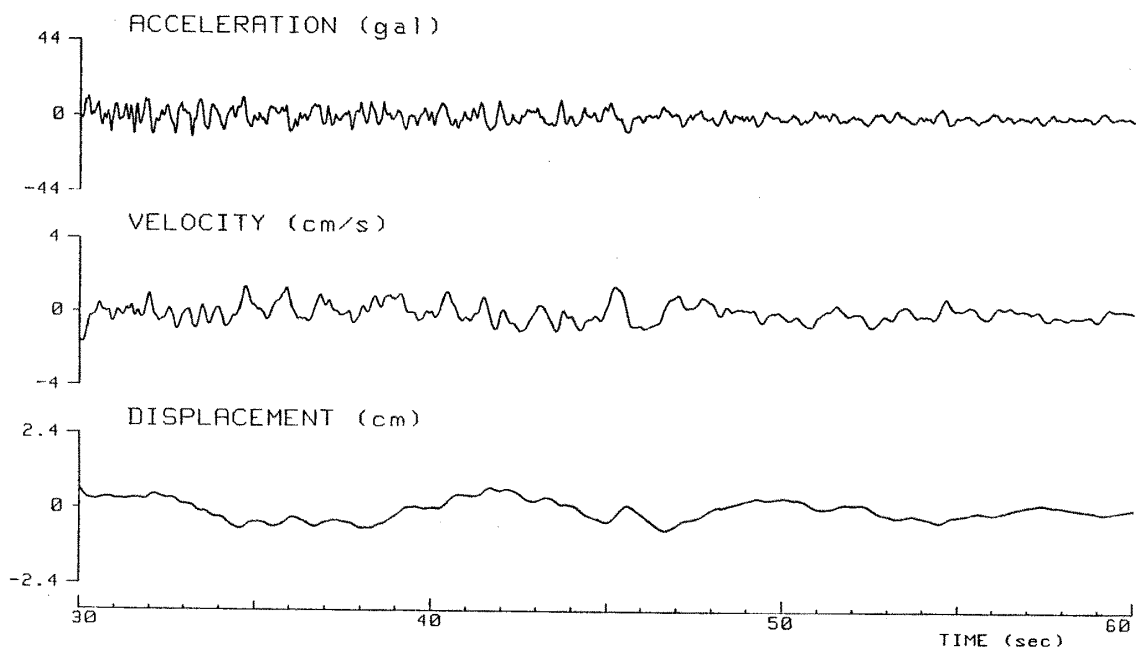
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = IWM (Iwaiminami)
Component = E-W, Date and Time = 1987/12/17, 11:08:27.00



(a)

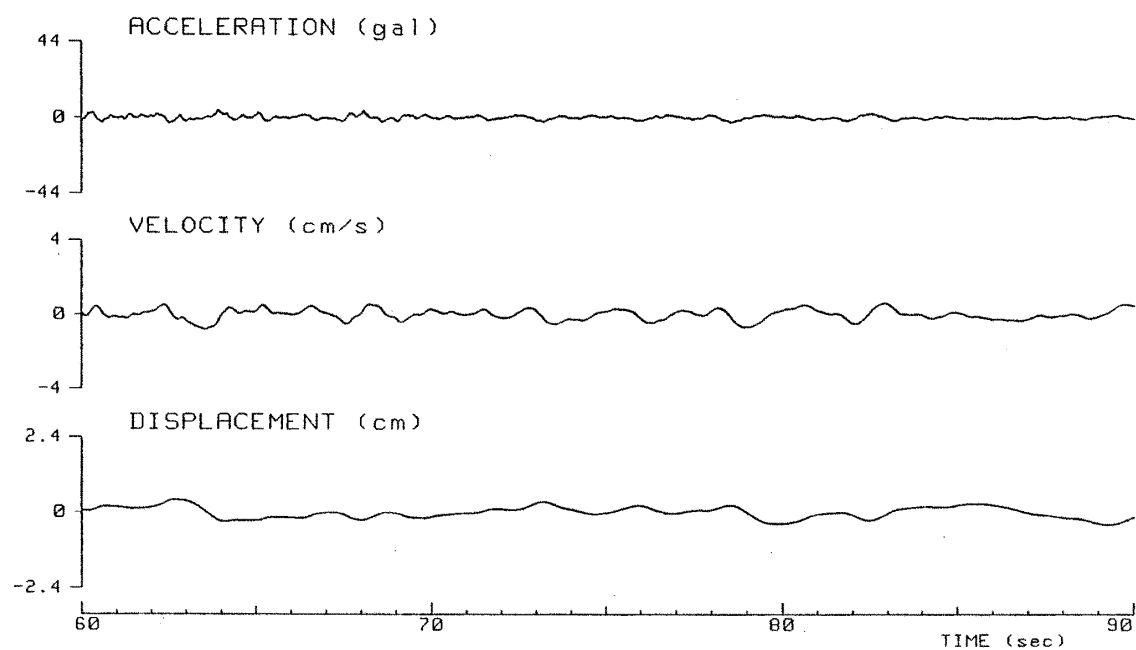
Station = IWM (Iwaiminami)
Component = E-W



(b)

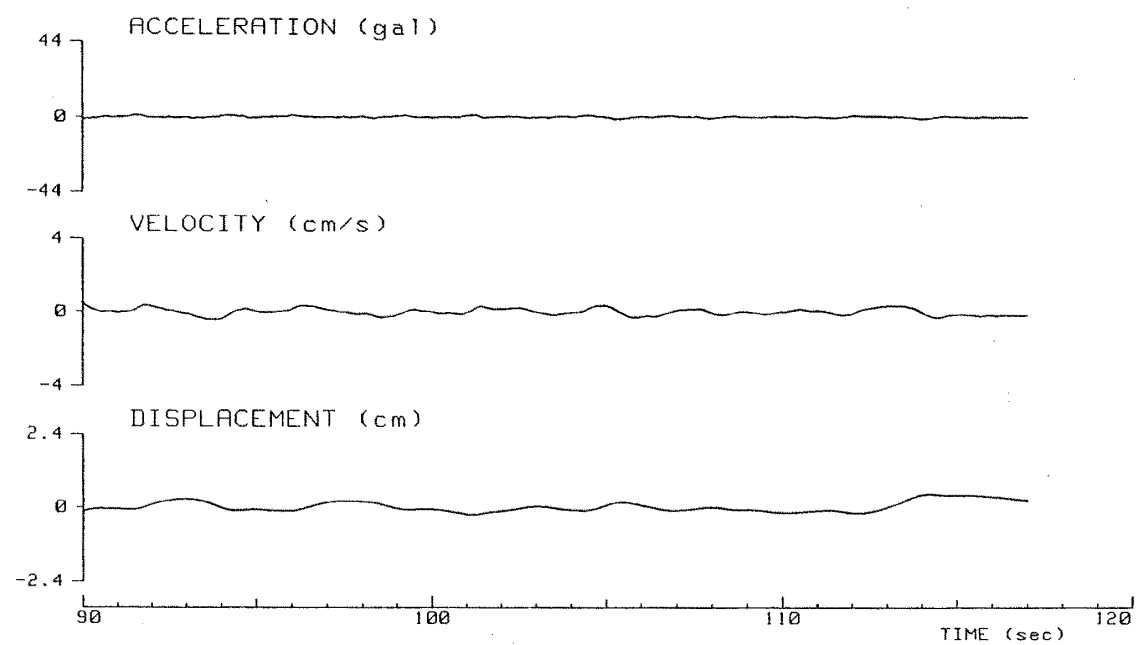
(4-11) IWM, EW-component

Station = IWM (Iwaiminami)
Component = E-W



(c)

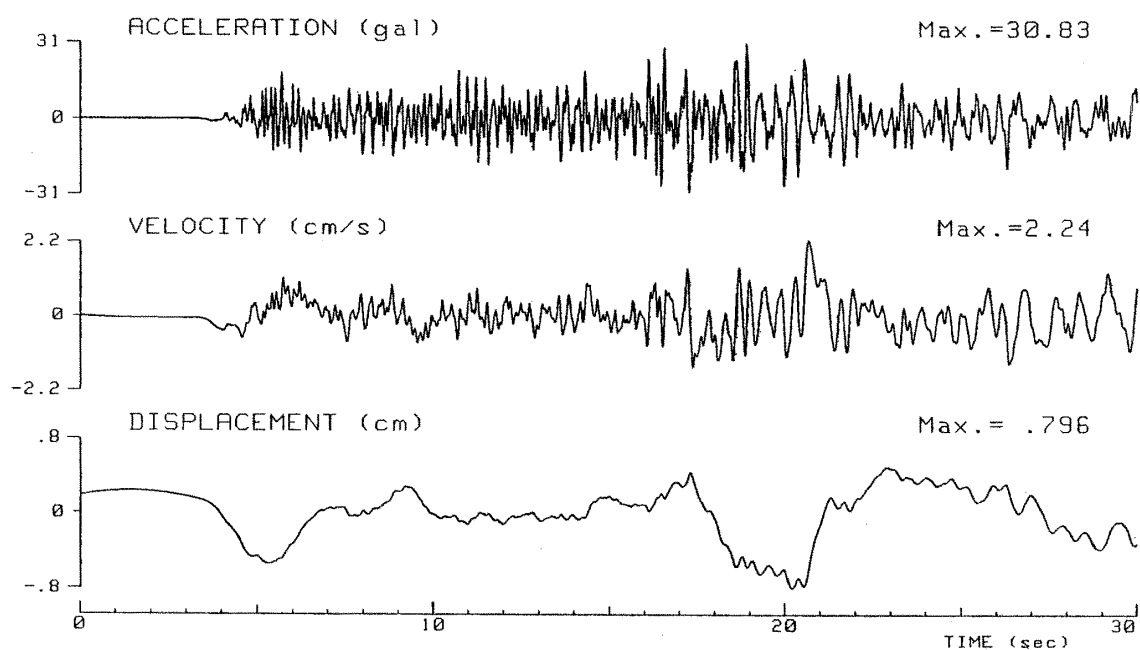
Station = IWM (Iwaiminami)
Component = E-W



(d)

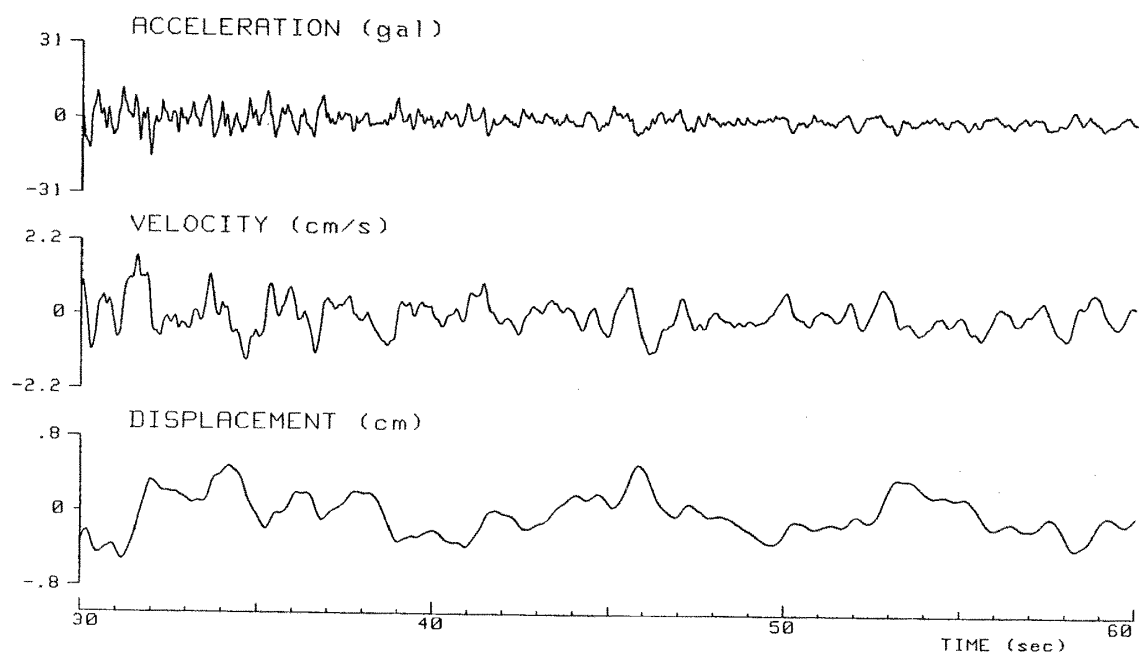
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = IWM (Iwaiminami)
Component = U-D, Date and Time = 1987/12/17, 11:08:27.00



(a)

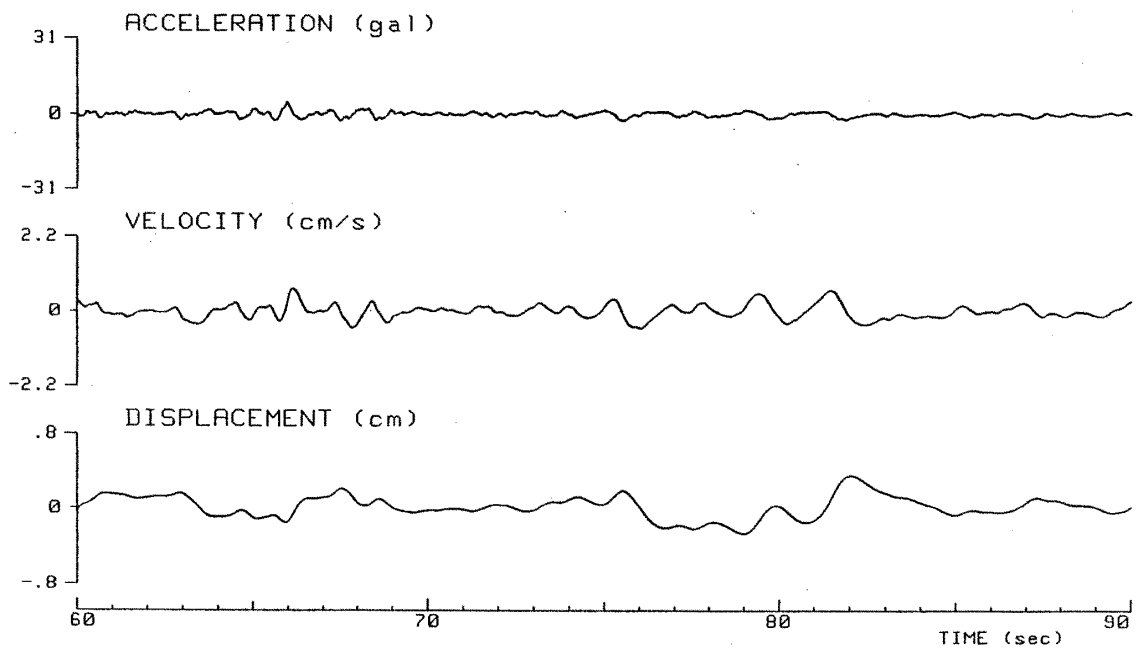
Station = IWM (Iwaiminami)
Component = U-D



(b)

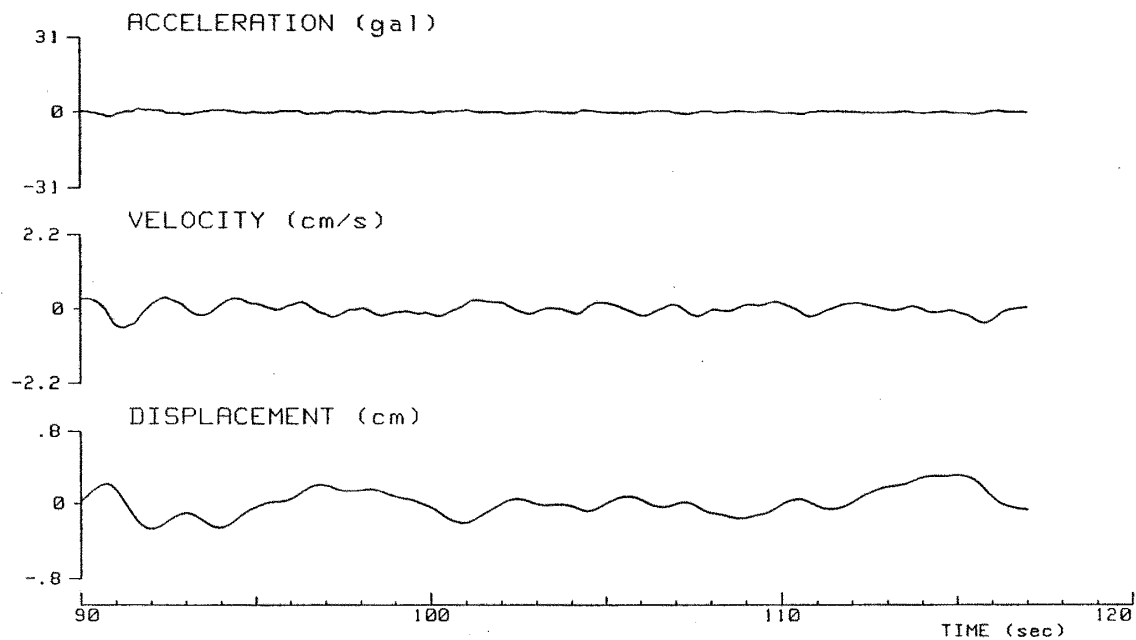
(4-12) IWM, UD-component

Station = IWM (Iwaiminami)
Component = U-D



(c)

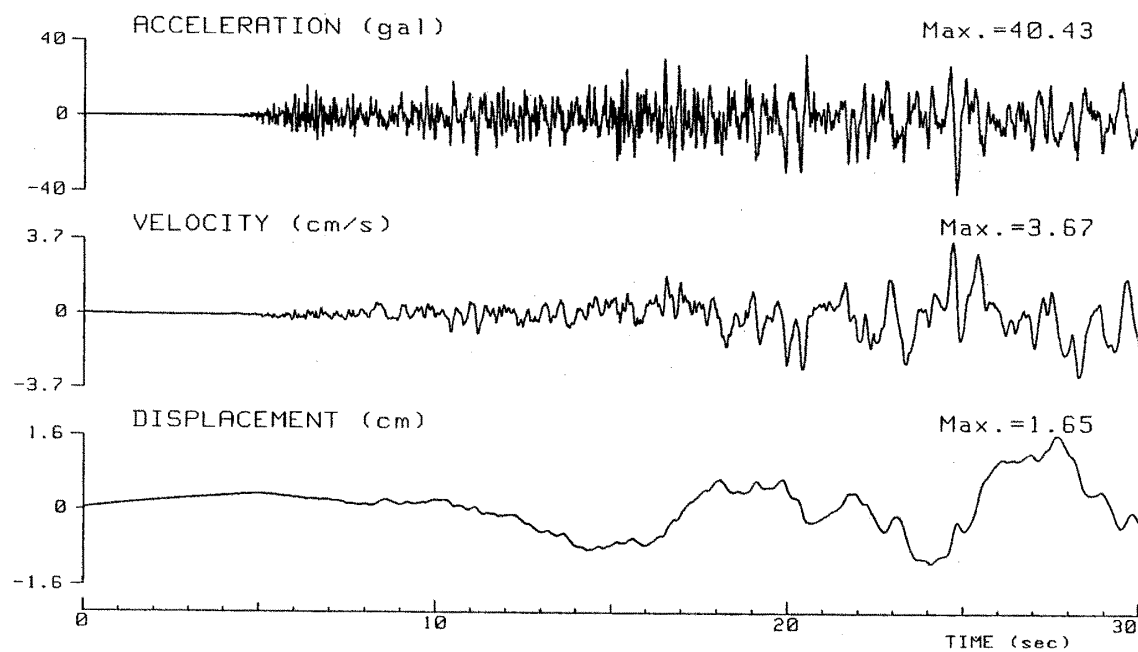
Station = IWM (Iwaiminami)
Component = U-D



(d)

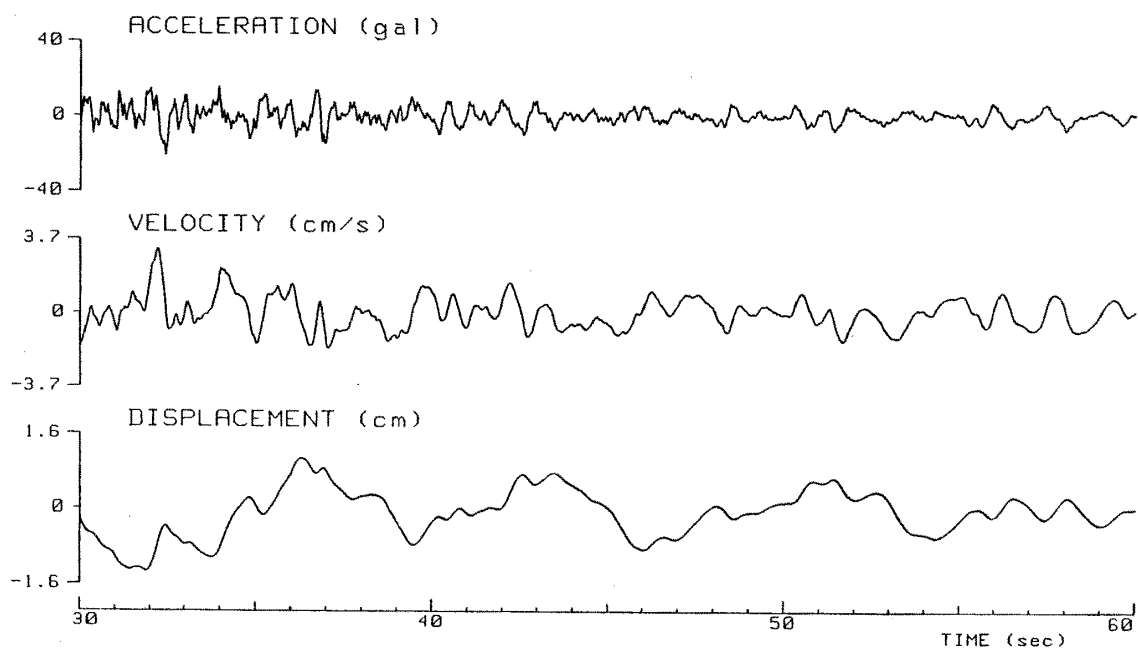
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = CHK (Chikura)
Component = N-S, Date and Time = 1987/12/17, 11:08:27.00



(a)

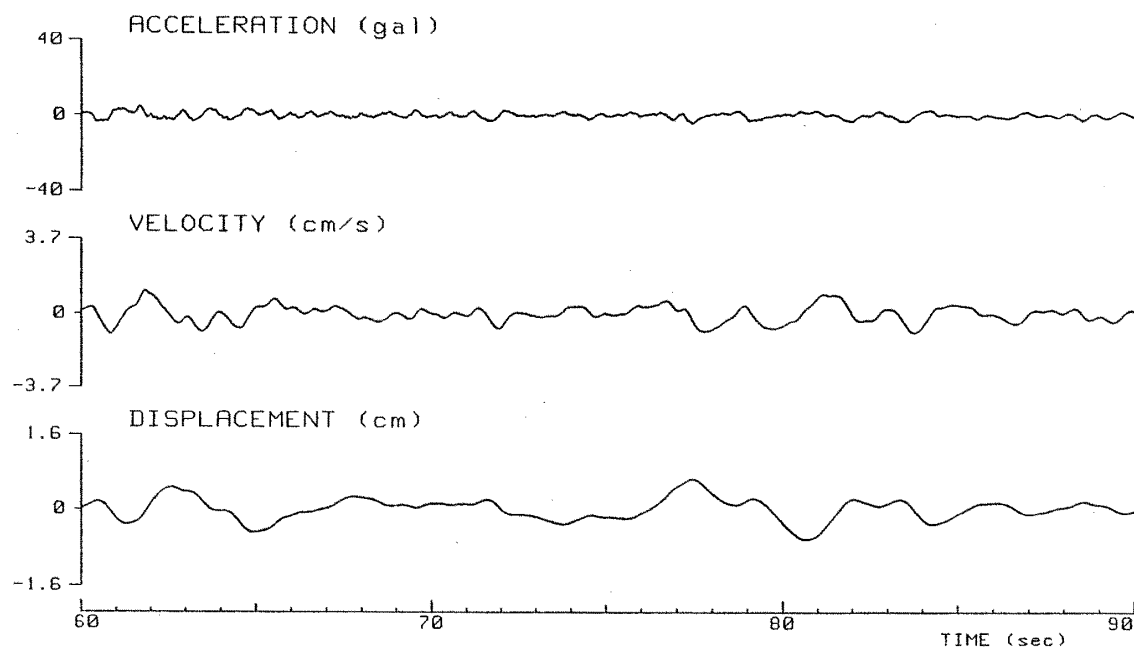
Station = CHK (Chikura)
Component = N-S



(b)

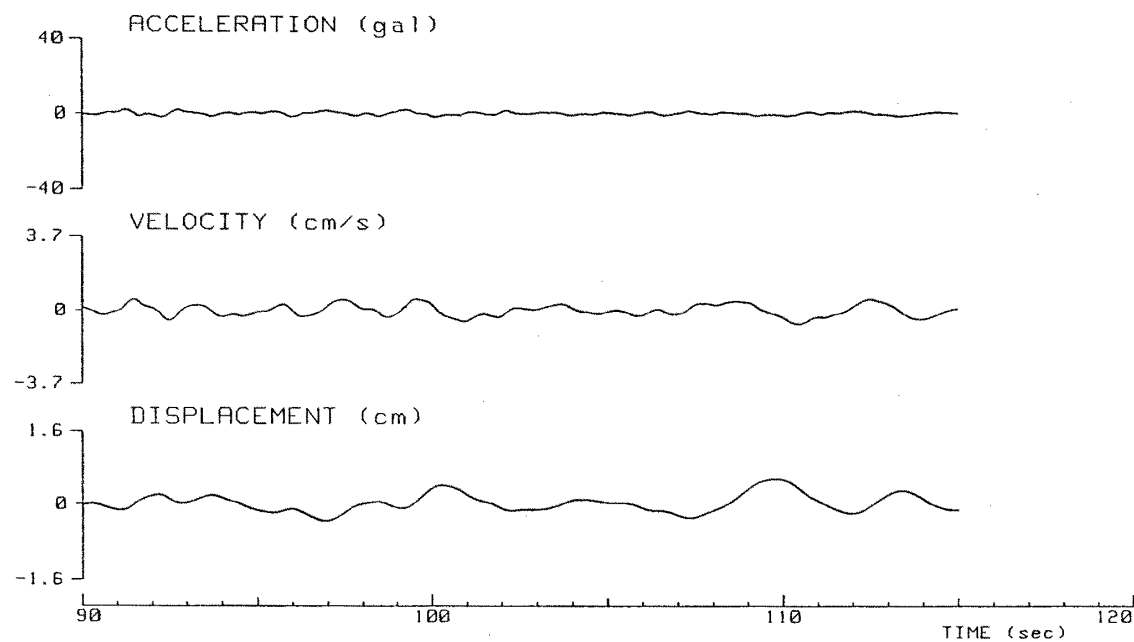
(4-13) CHK, NS-component

Station = CHK (Chikura)
Component = N-S



(c)

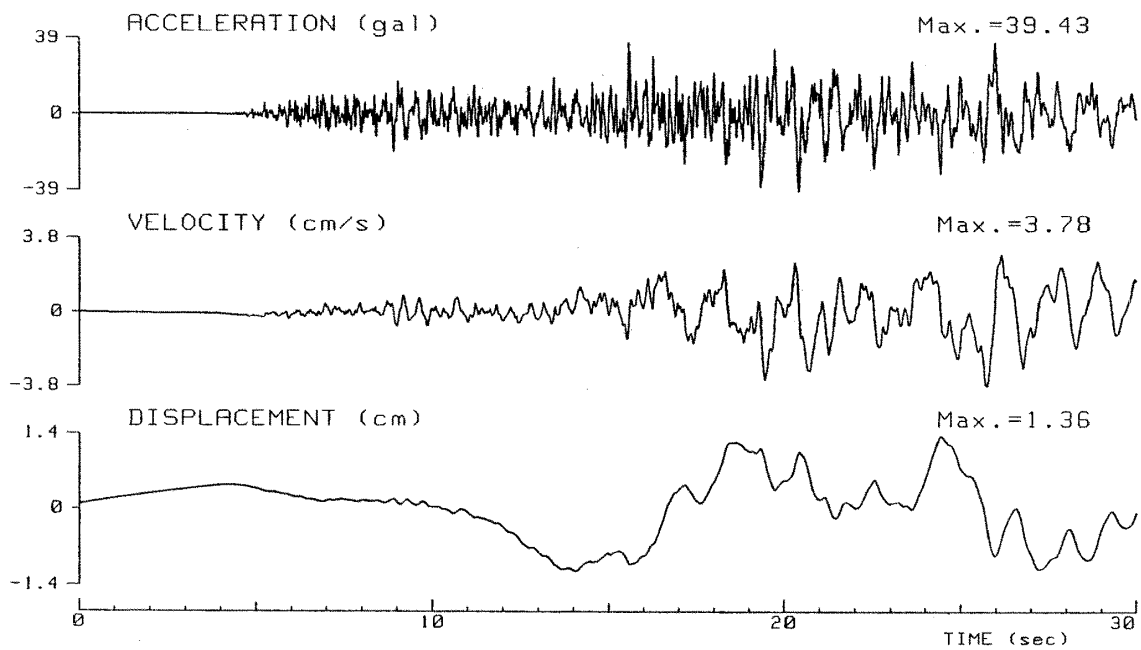
Station = CHK (Chikura)
Component = N-S



(d)

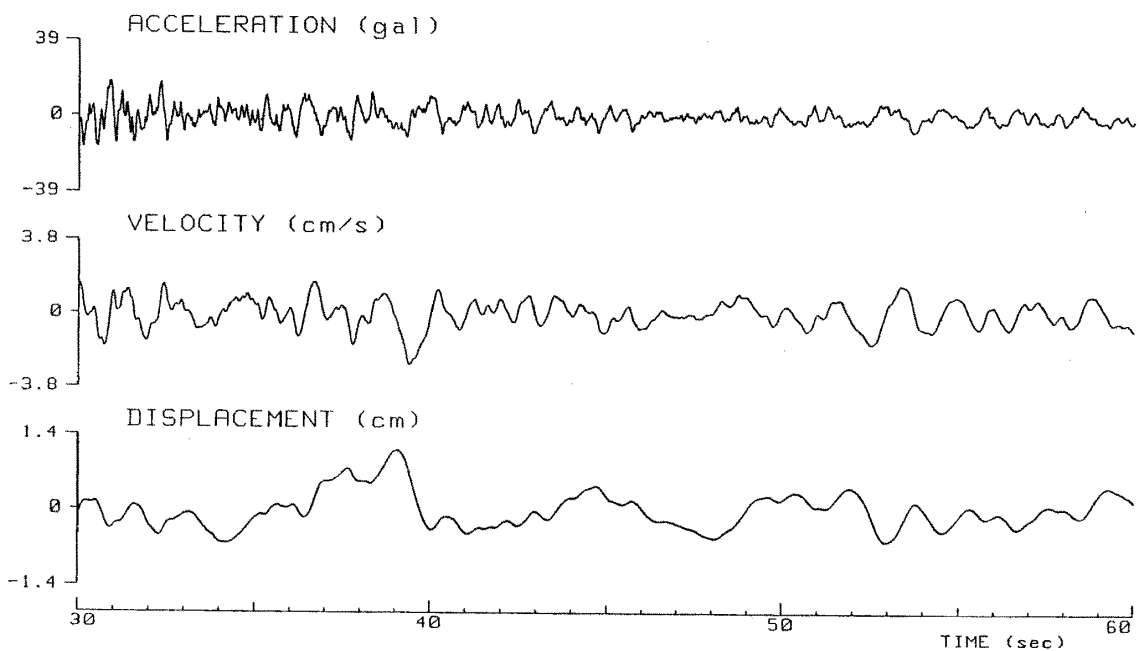
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = CHK (Chikura)
Component = E-W, Date and Time = 1987/12/17, 11:08:27.00



(a)

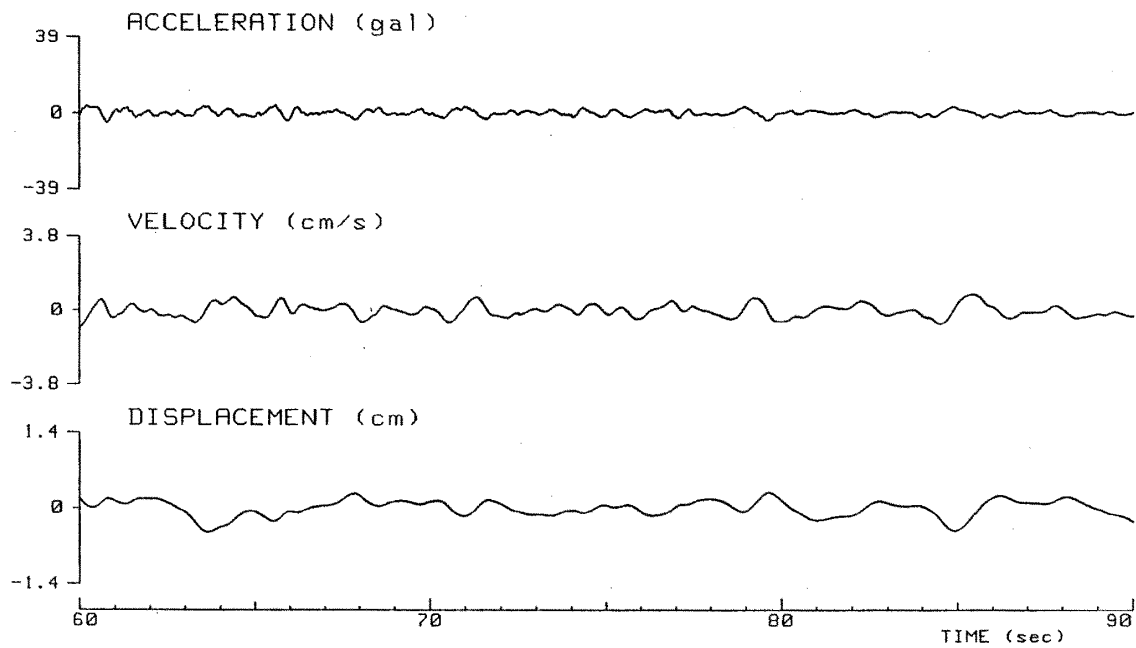
Station = CHK (Chikura)
Component = E-W



(b)

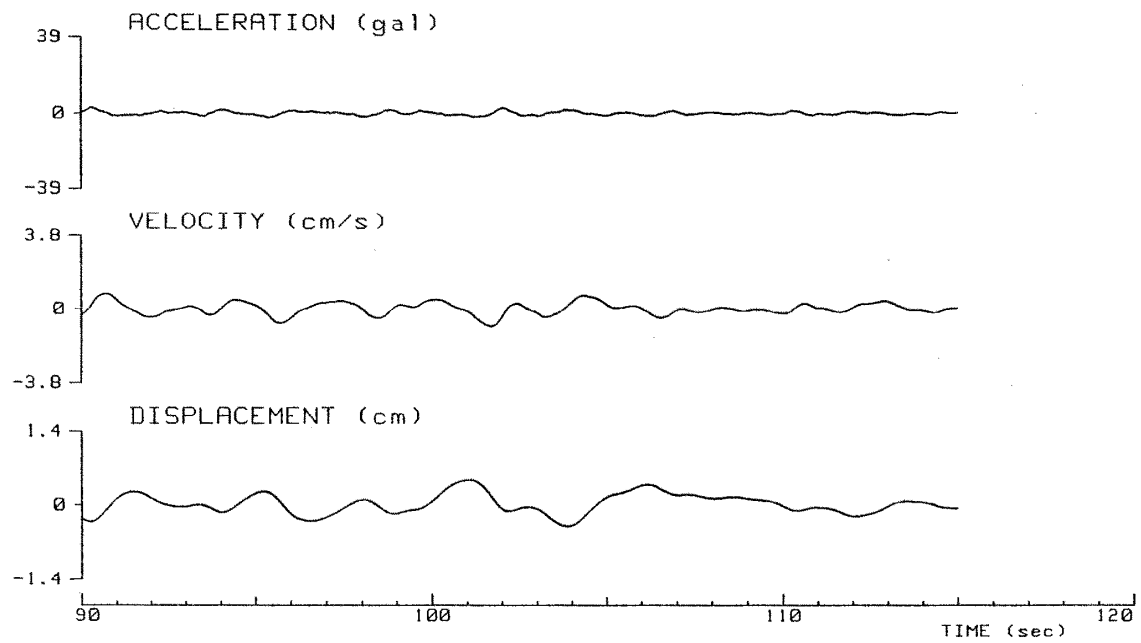
(4-14) CHK, EW-component

Station = CHK (Chikura)
Component = E-W



(c)

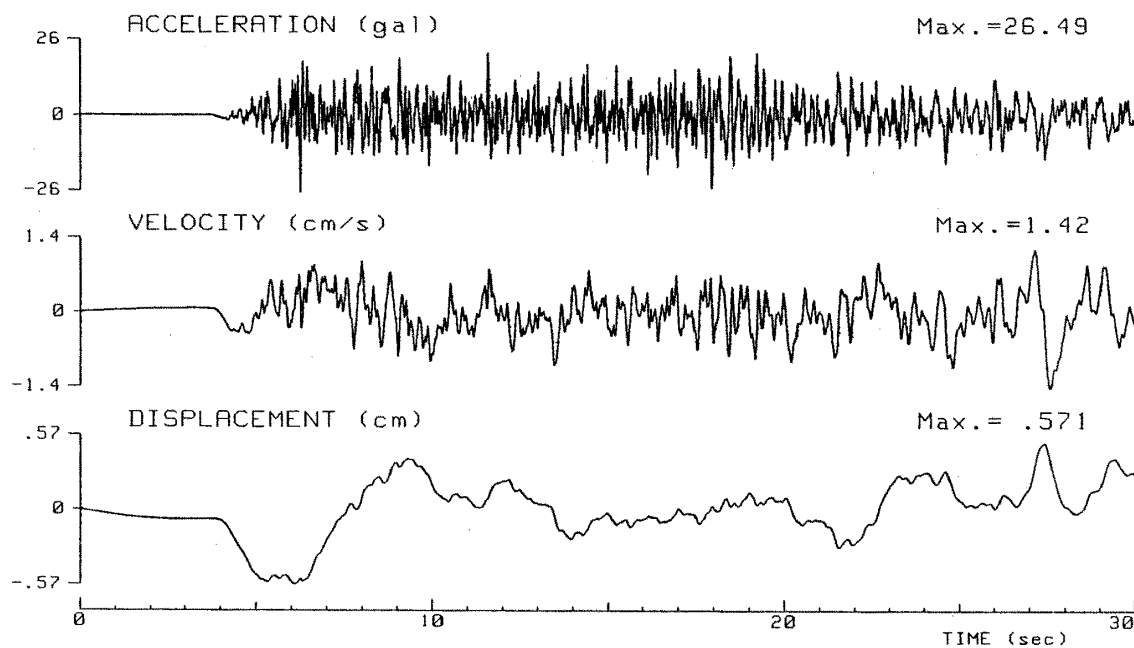
Station = CHK (Chikura)
Component = E-W



(d)

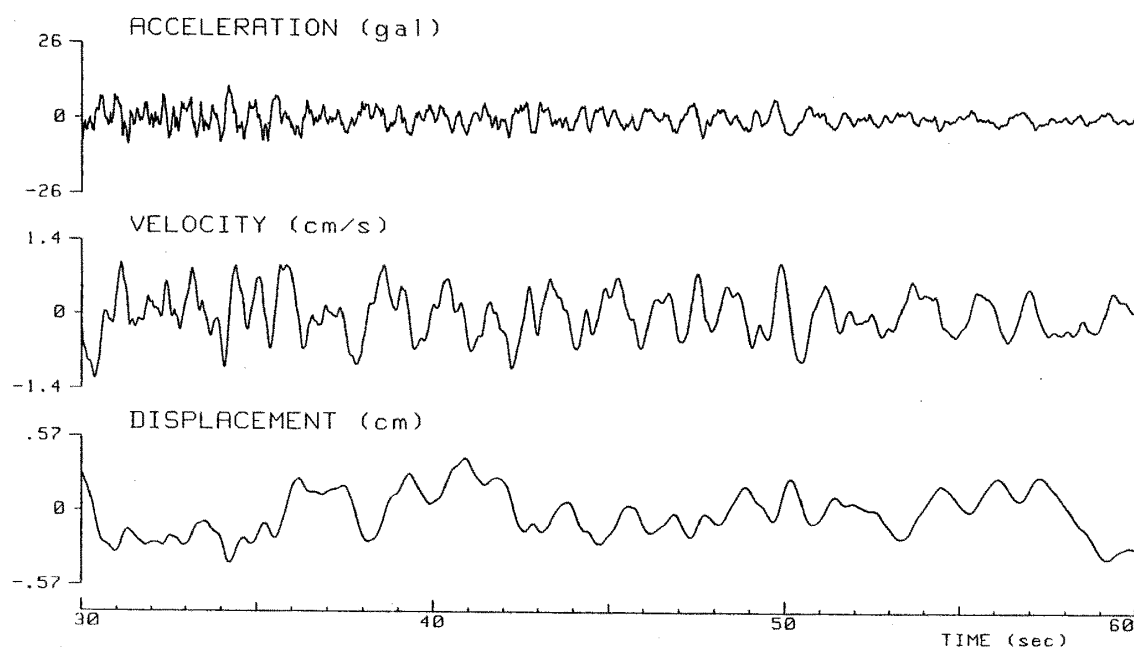
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = CHK (Chikura)
Component = U-D, Date and Time = 1987/12/17, 11:08:27.00



(a)

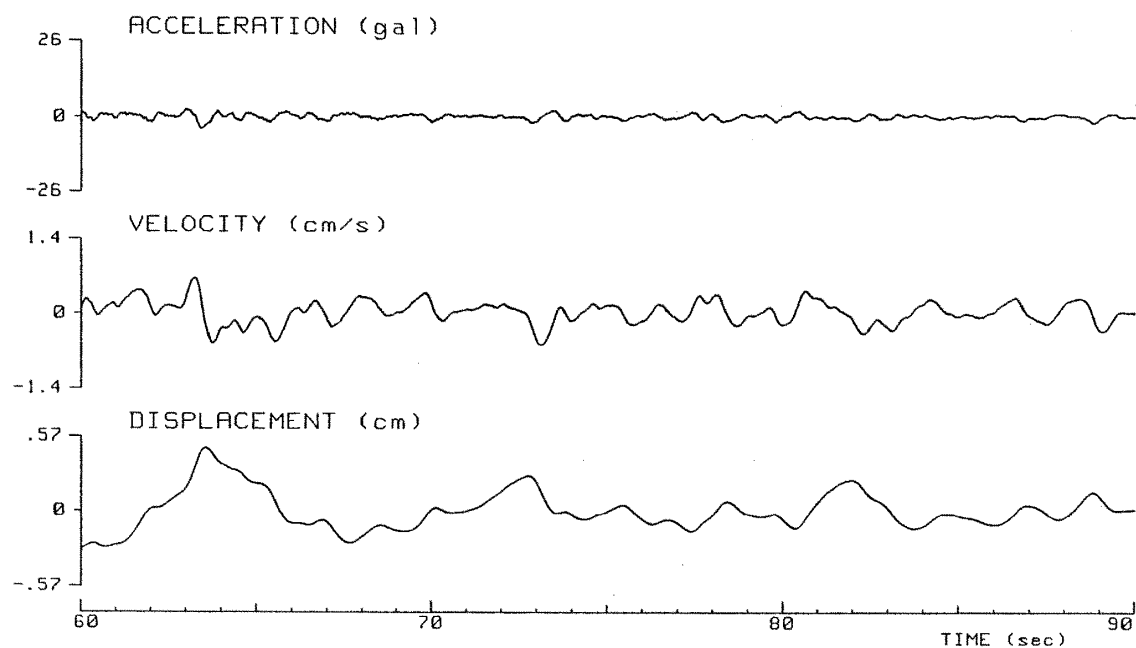
Station = CHK (Chikura)
Component = U-D



(b)

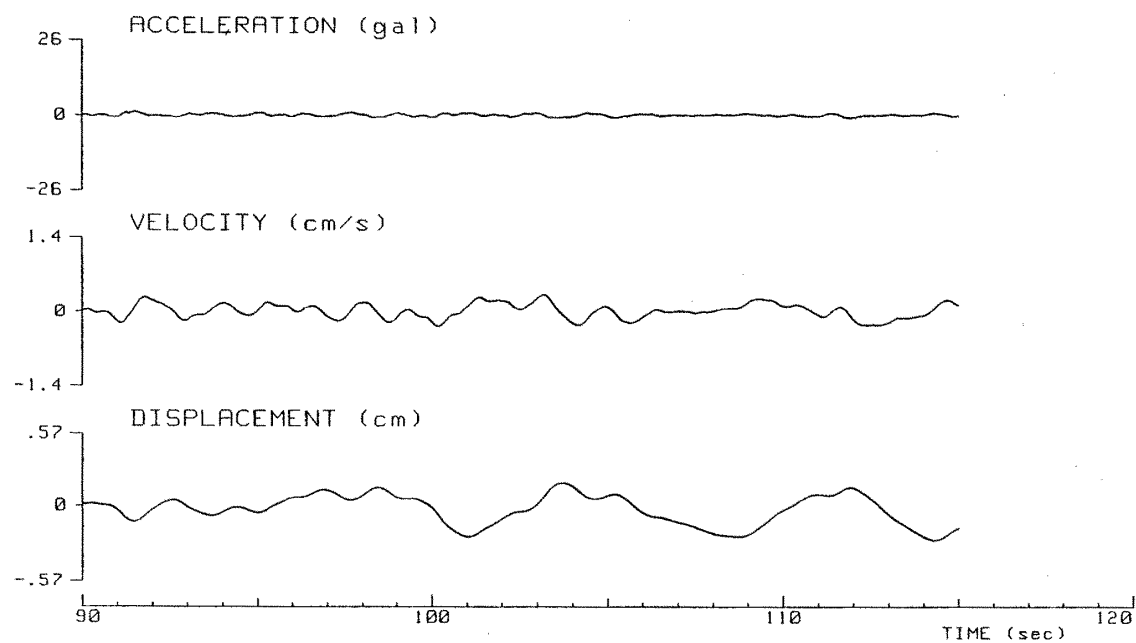
(4-15) CHK, UD-component

Station = CHK (Chikura)
Component = U-D



(c)

Station = CHK (Chikura)
Component = U-D

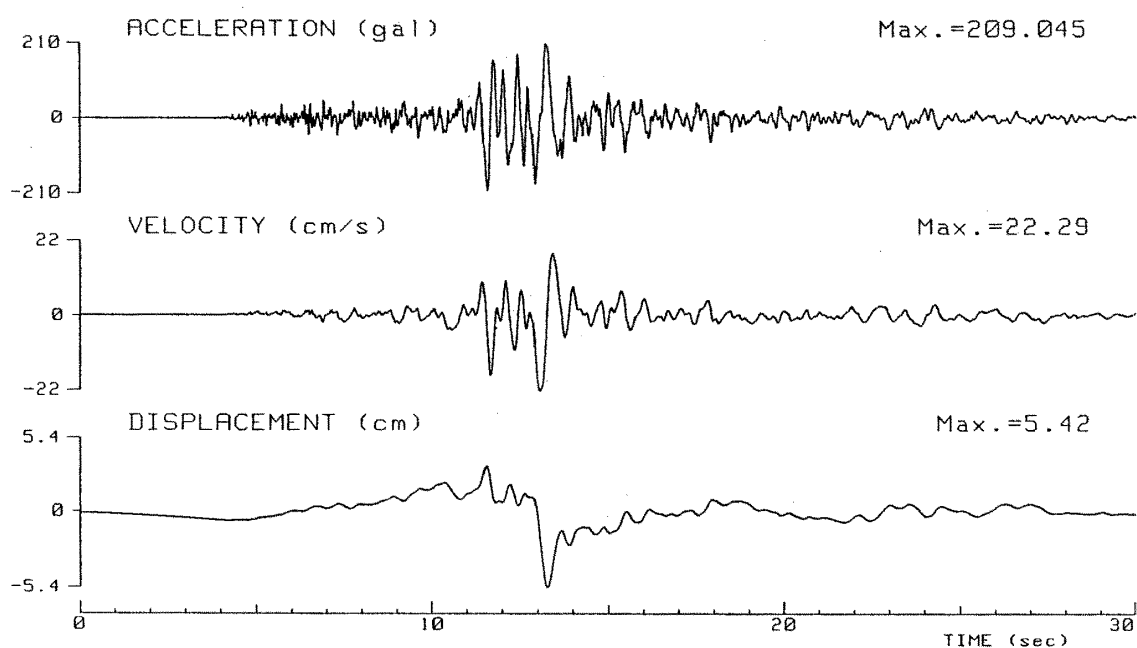


(d)

Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = KTU (Katsuura)

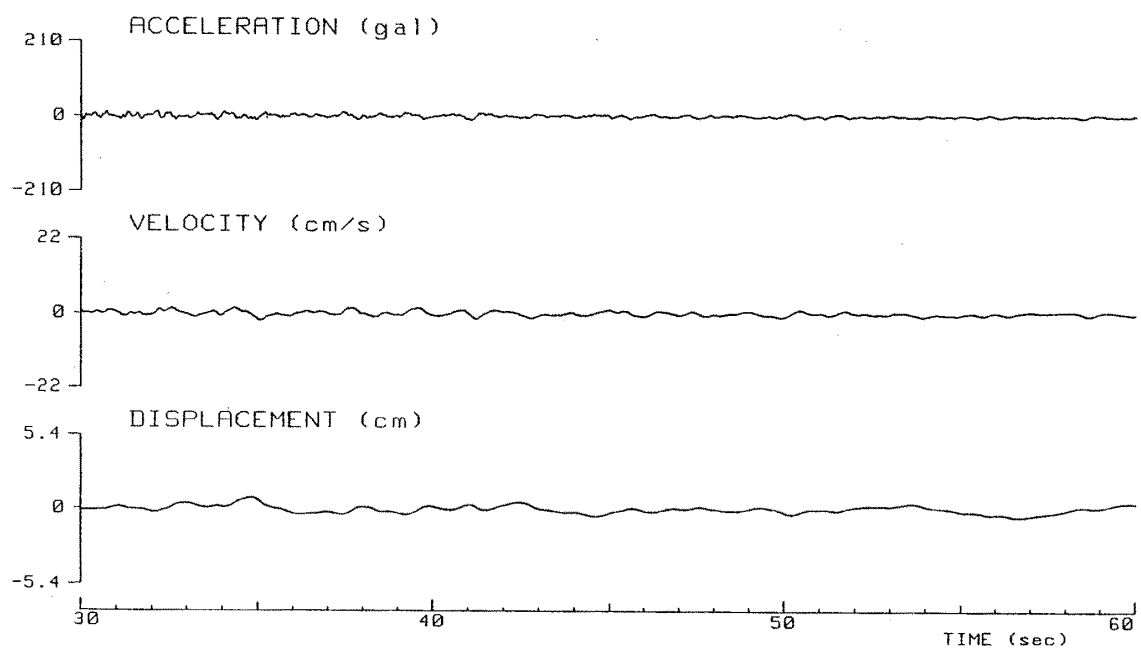
Component = N-S, Date and Time = 1987/12/17, 11:08:22.00



(a)

Station = KTU (Katsuura)

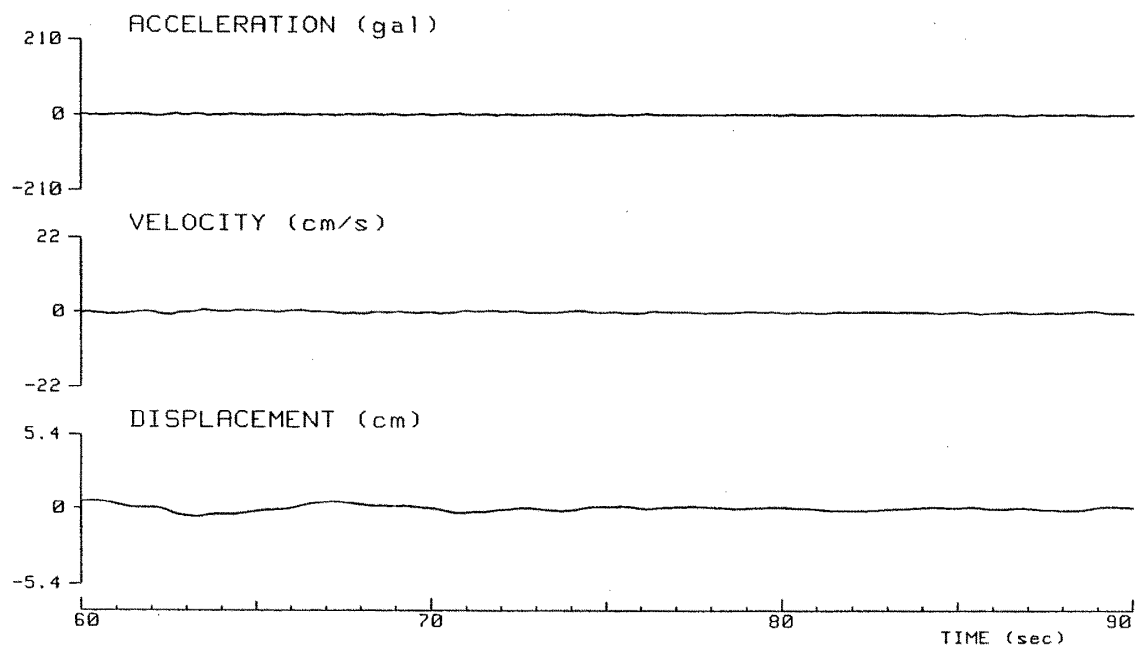
Component = N-S



(b)

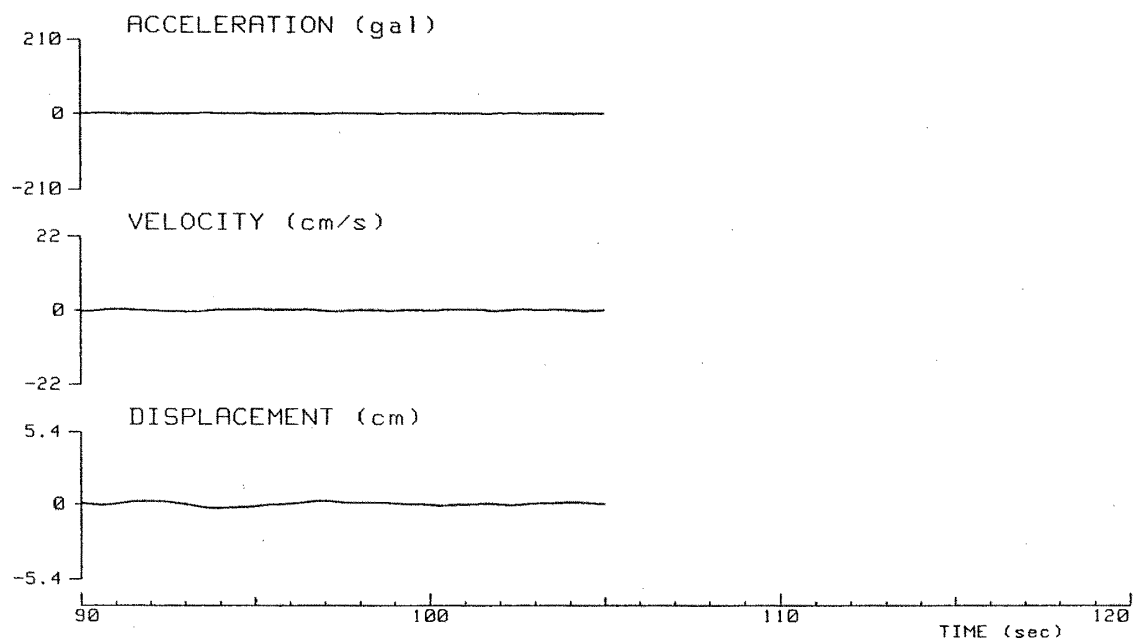
(4-16) KTU, NS-component

Station = KTU (Katsuura)
Component = N-S



(c)

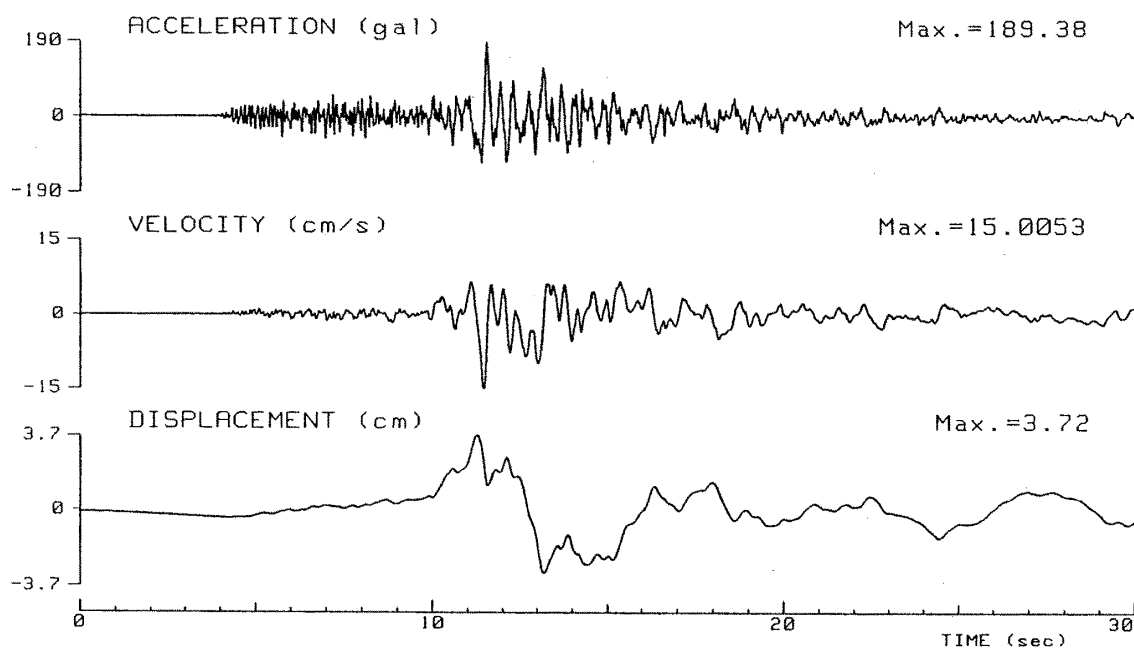
Station = KTU (Katsuura)
Component = N-S



(d)

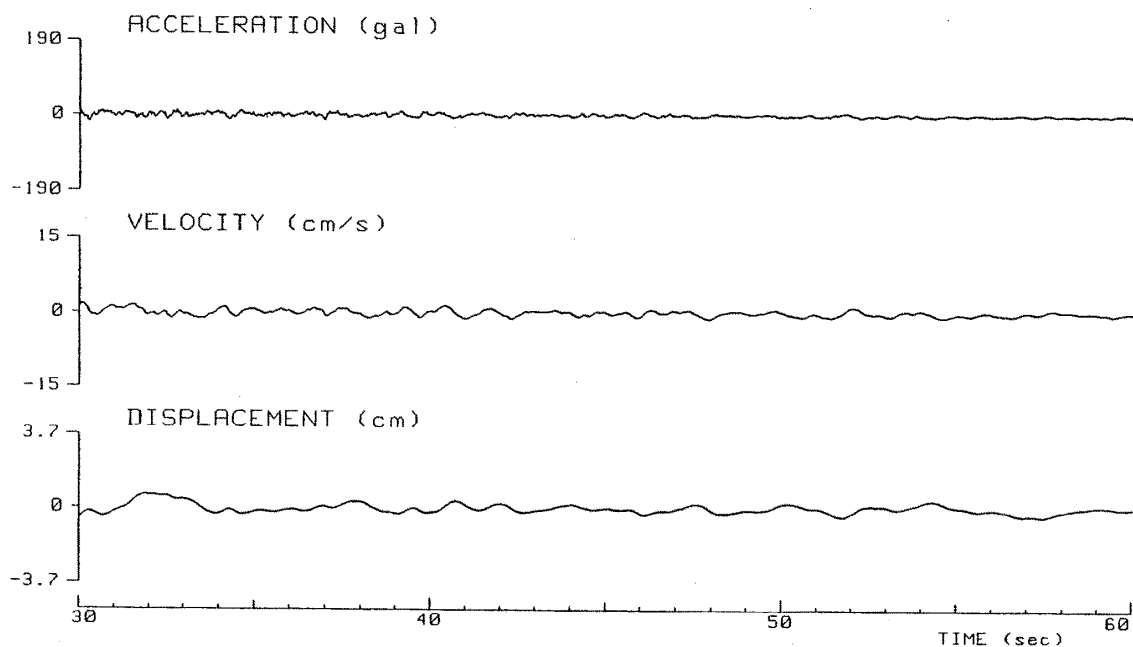
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = KTU (Katsuura)
Component = E-W, Date and Time = 1987/12/17, 11:08:22.00



(a)

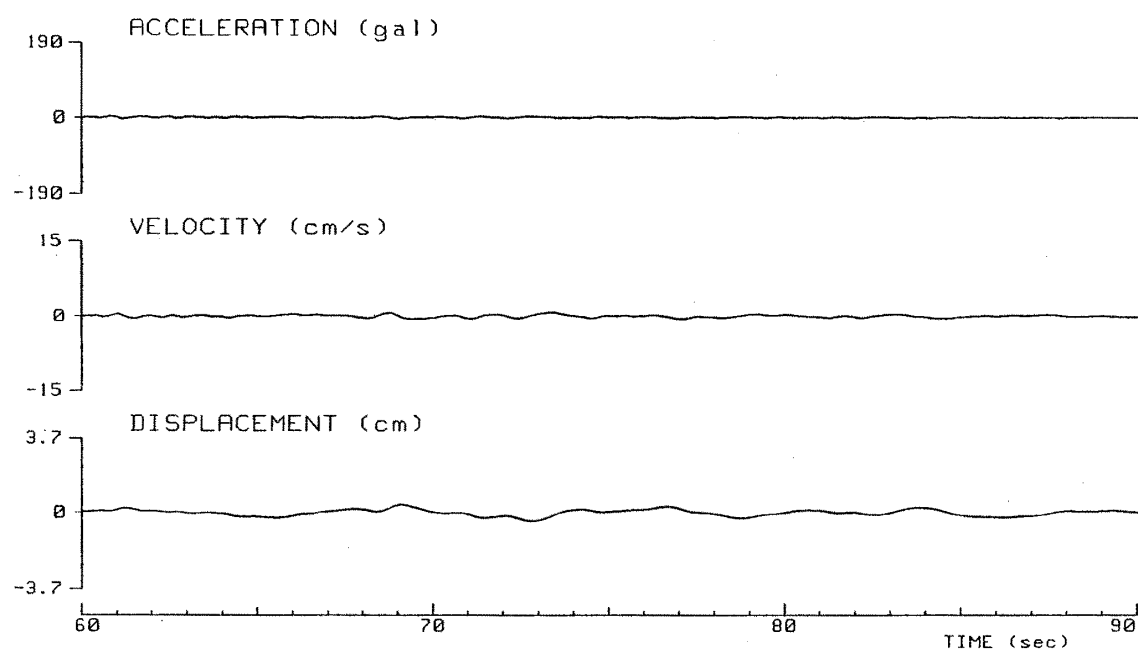
Station = KTU (Katsuura)
Component = E-W



(b)

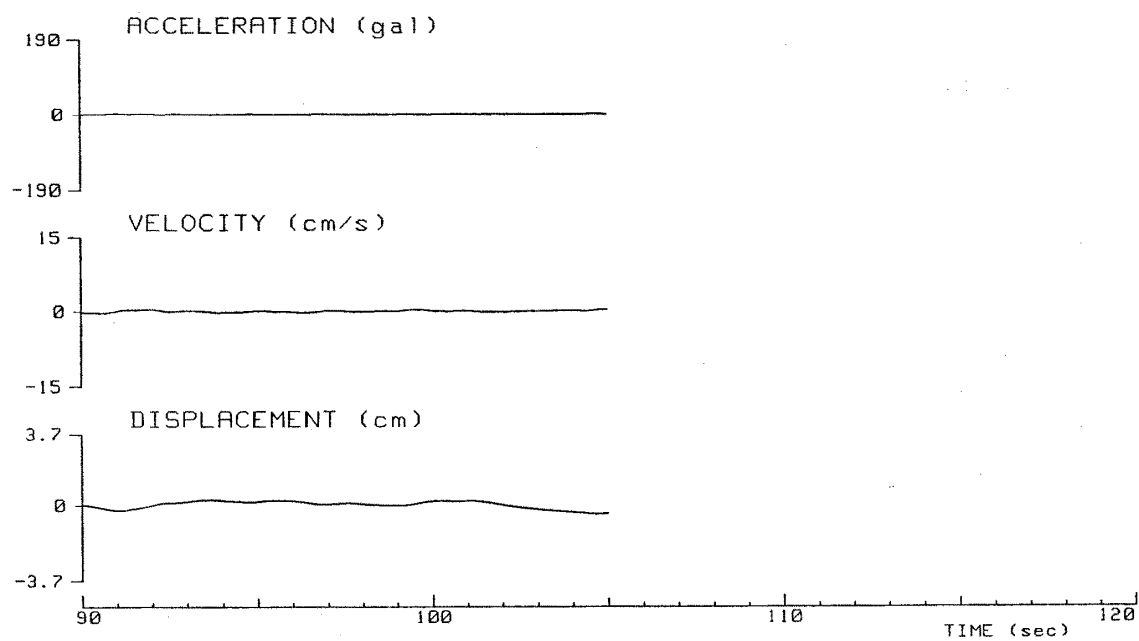
(4-17) KTU, EW-component

Station = KTU (Katsuura)
Component = E-W



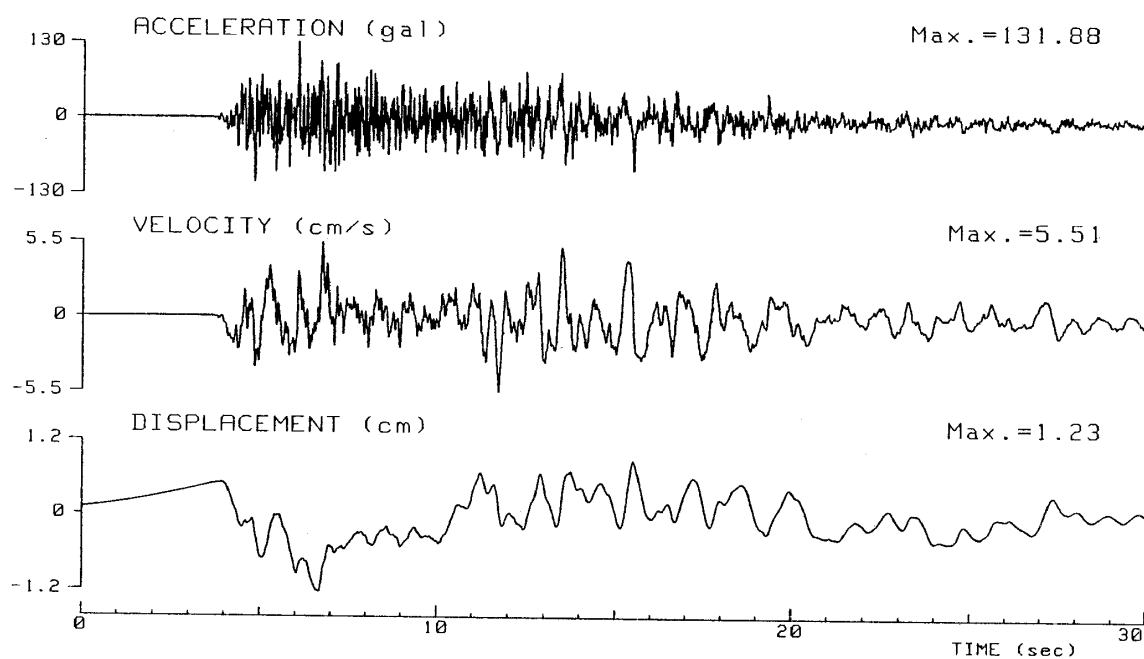
(c)

Station = KTU (Katsuura)
Component = E-W



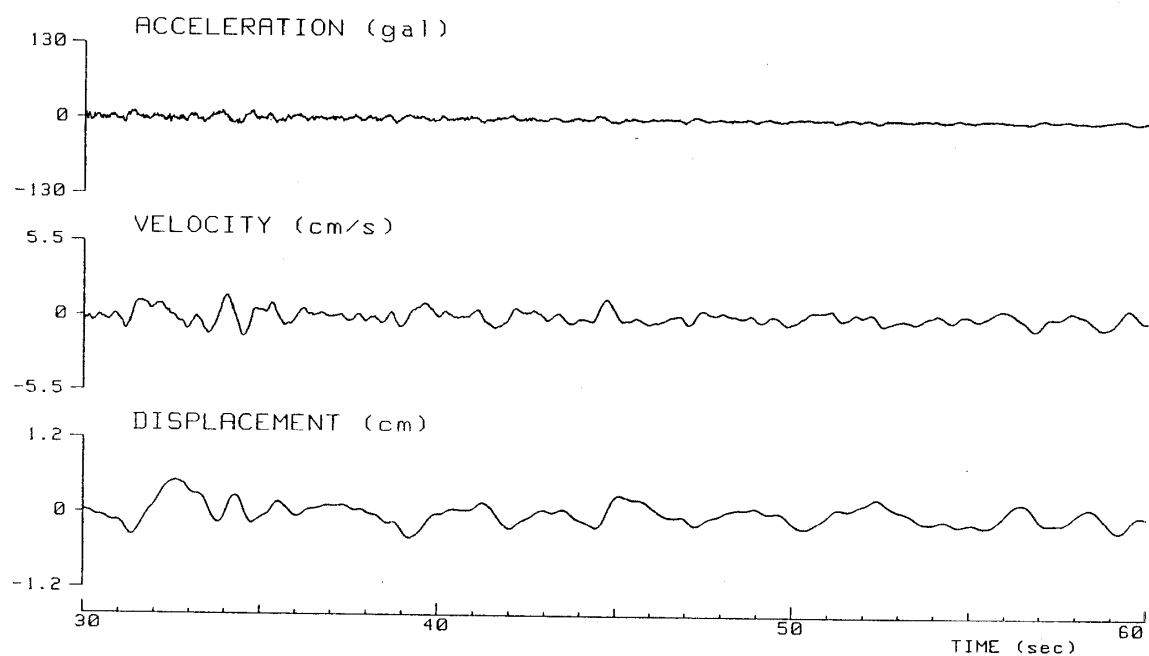
(d)

Station = KTU (Katsuura)
Component = U-D, Date and Time = 1987/12/17, 11:08:22.00



(a)

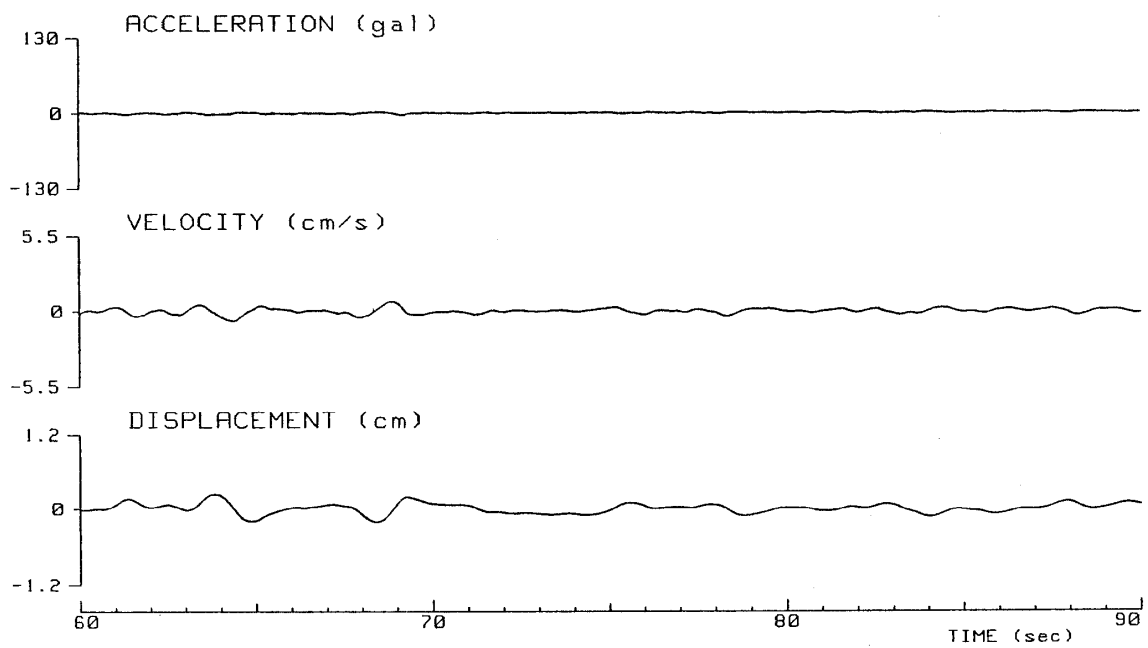
Station = KTU (Katsuura)
Component = U-D



(b)

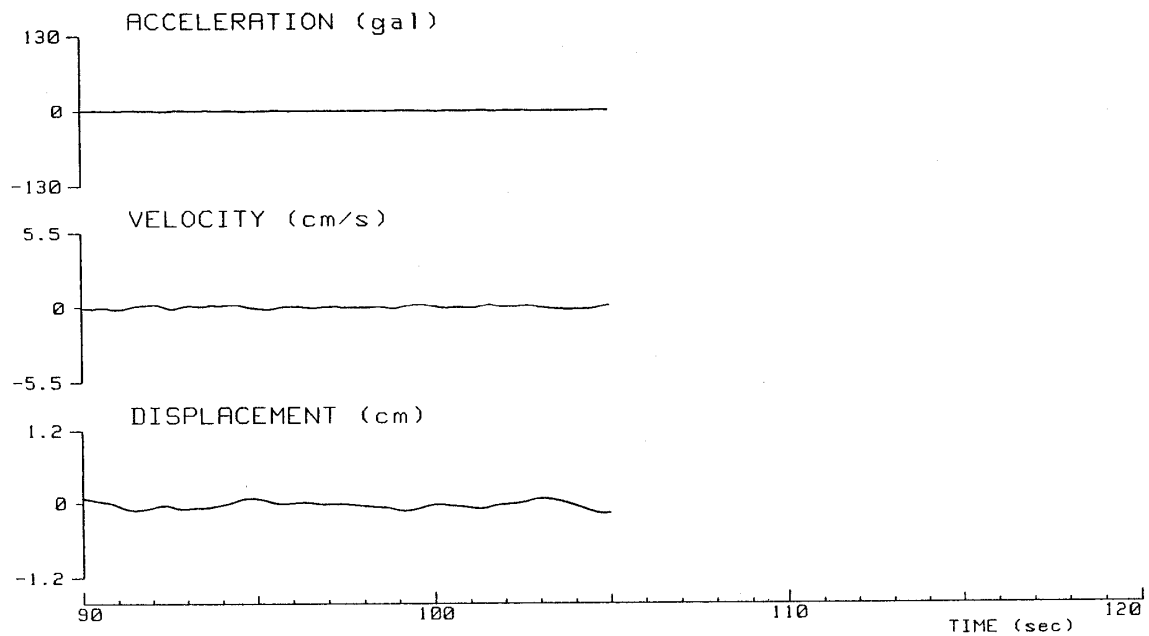
(4-18) KTU, UD-component

Station = KTU (Katsuura)
Component = U-D



(c)

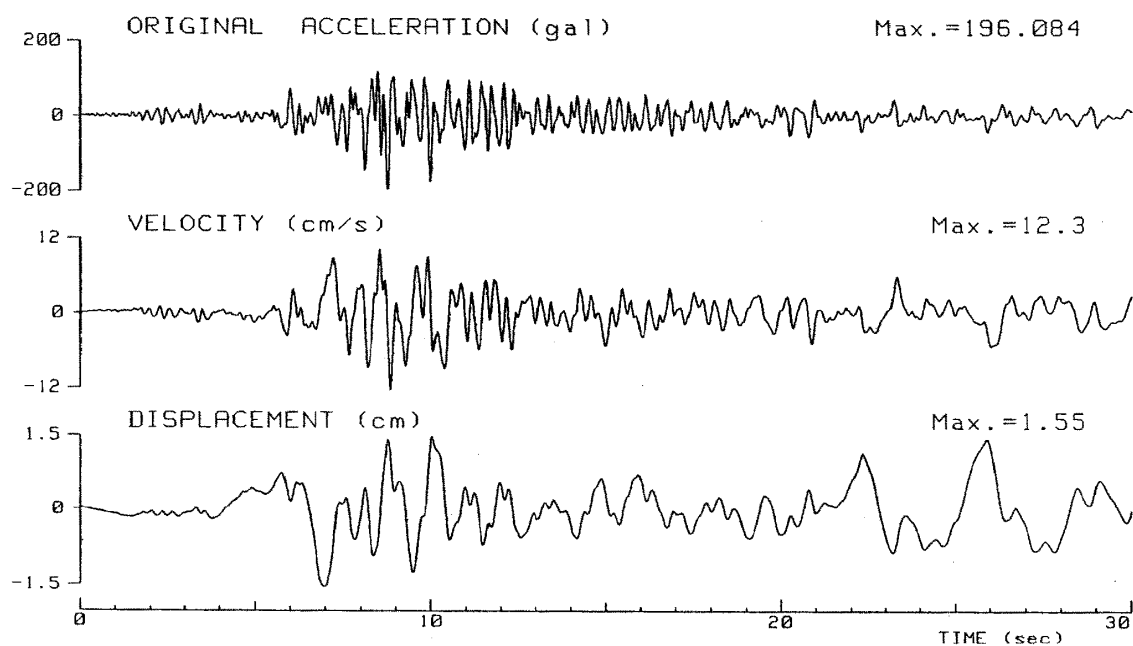
Station = KTU (Katsuura)
Component = U-D



(d)

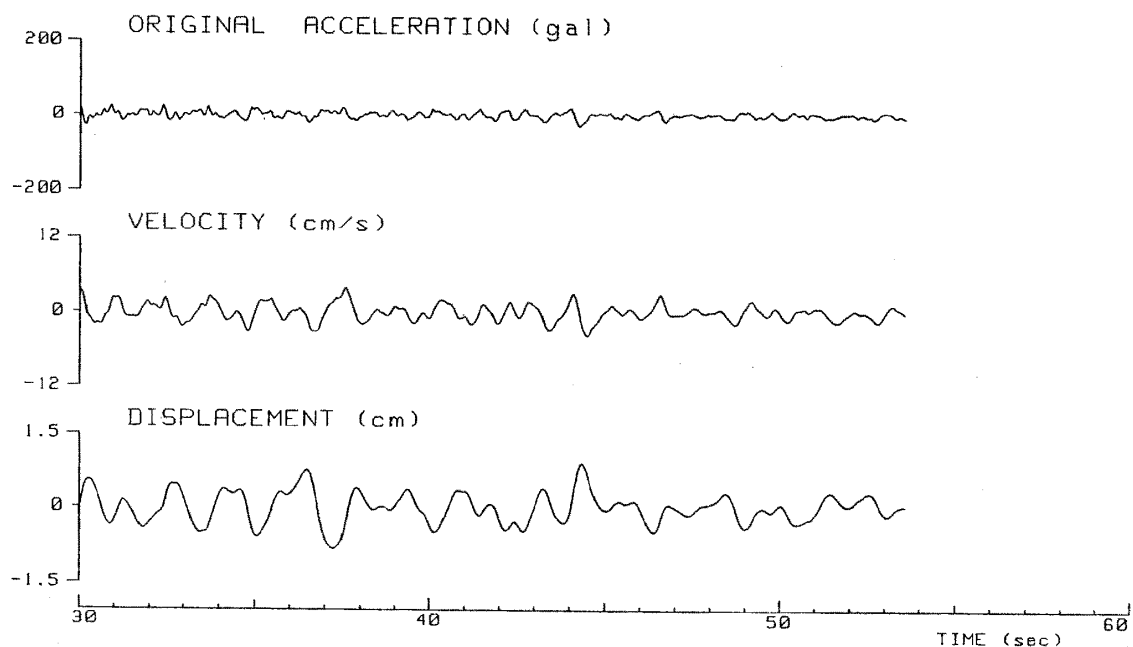
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = ICH (Nippon-Gousei-Gomu)
Component = N-S, Date and Time = 1987/12/17, 11:08



(a)

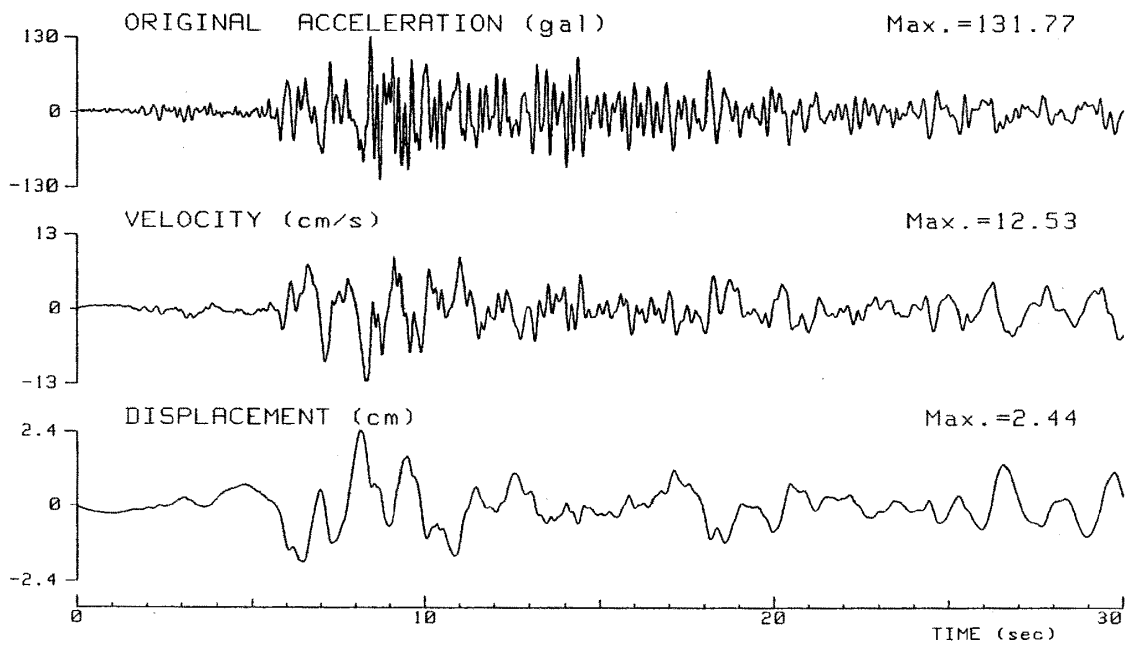
Station = ICH (Nippon-Gousei-Gomu)
Component = N-S



(b)

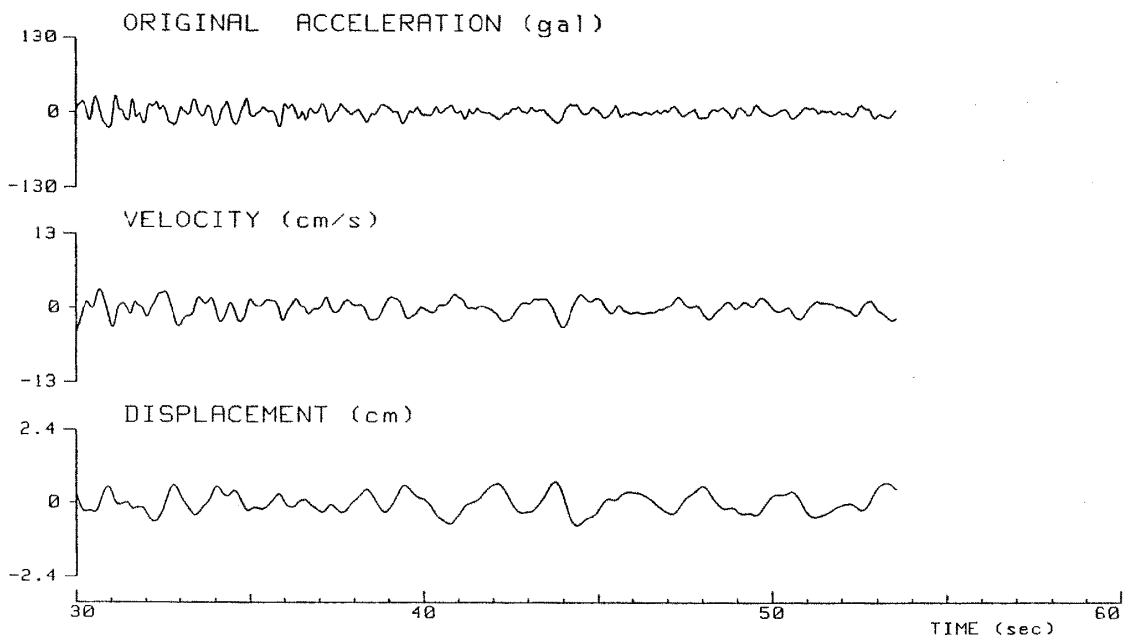
(4-19) ICH, NS-component

Station = ICH (Nippon-Gousei-Gomu)
Component = E-W, Date and Time = 1987/12/17, 11:08



(a)

Station = ICH (Nippon-Gousei-Gomu)
Component = E-W

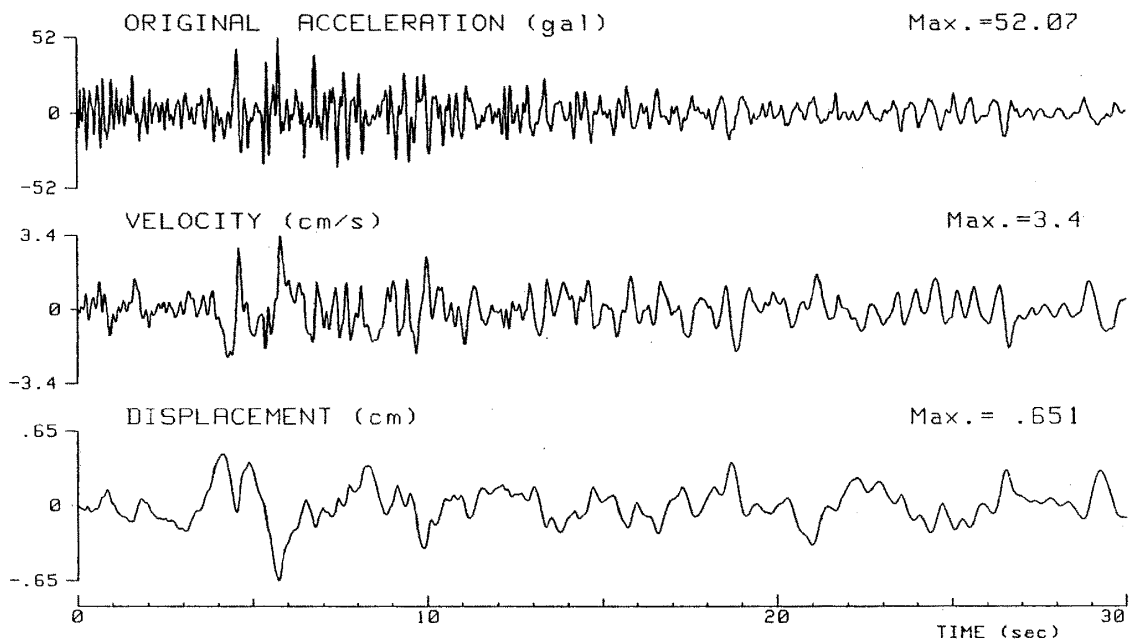


(b)

(4-20) ICH, EW-component

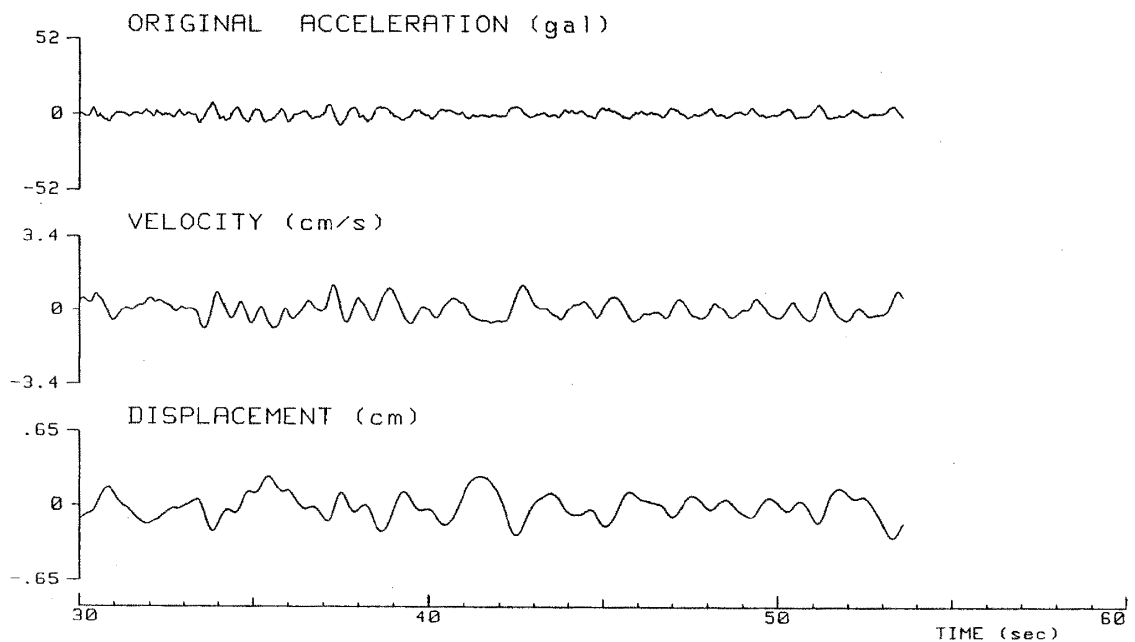
Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

Station = ICH (Nippon-Gousei-Gomu)
Component = U-D, Date and Time = 1987/12/17, 11:08



(a)

Station = ICH (Nippon-Gousei-Gomu)
Component = U-D



(b)

(4-21) ICH, UD-component

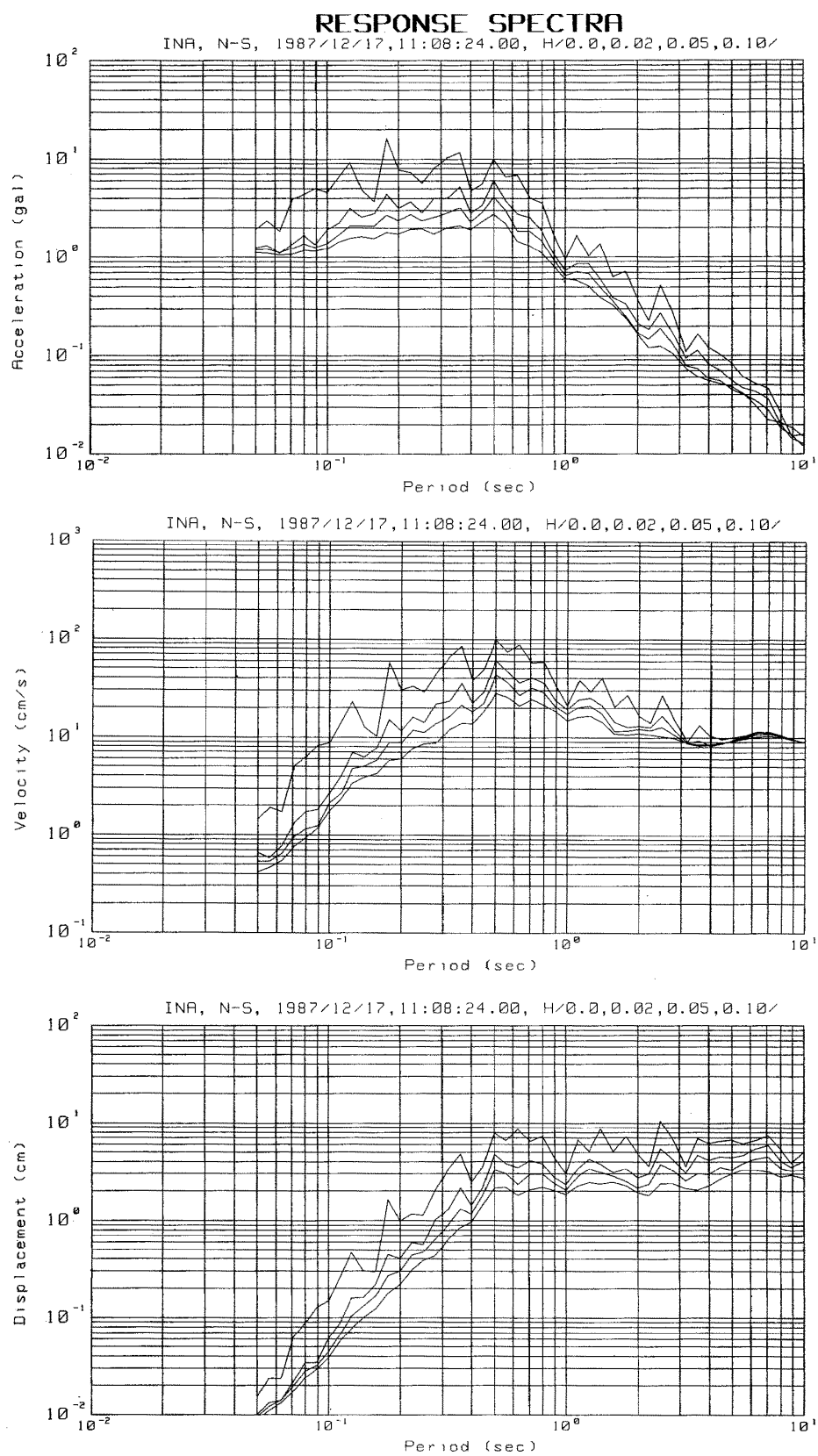
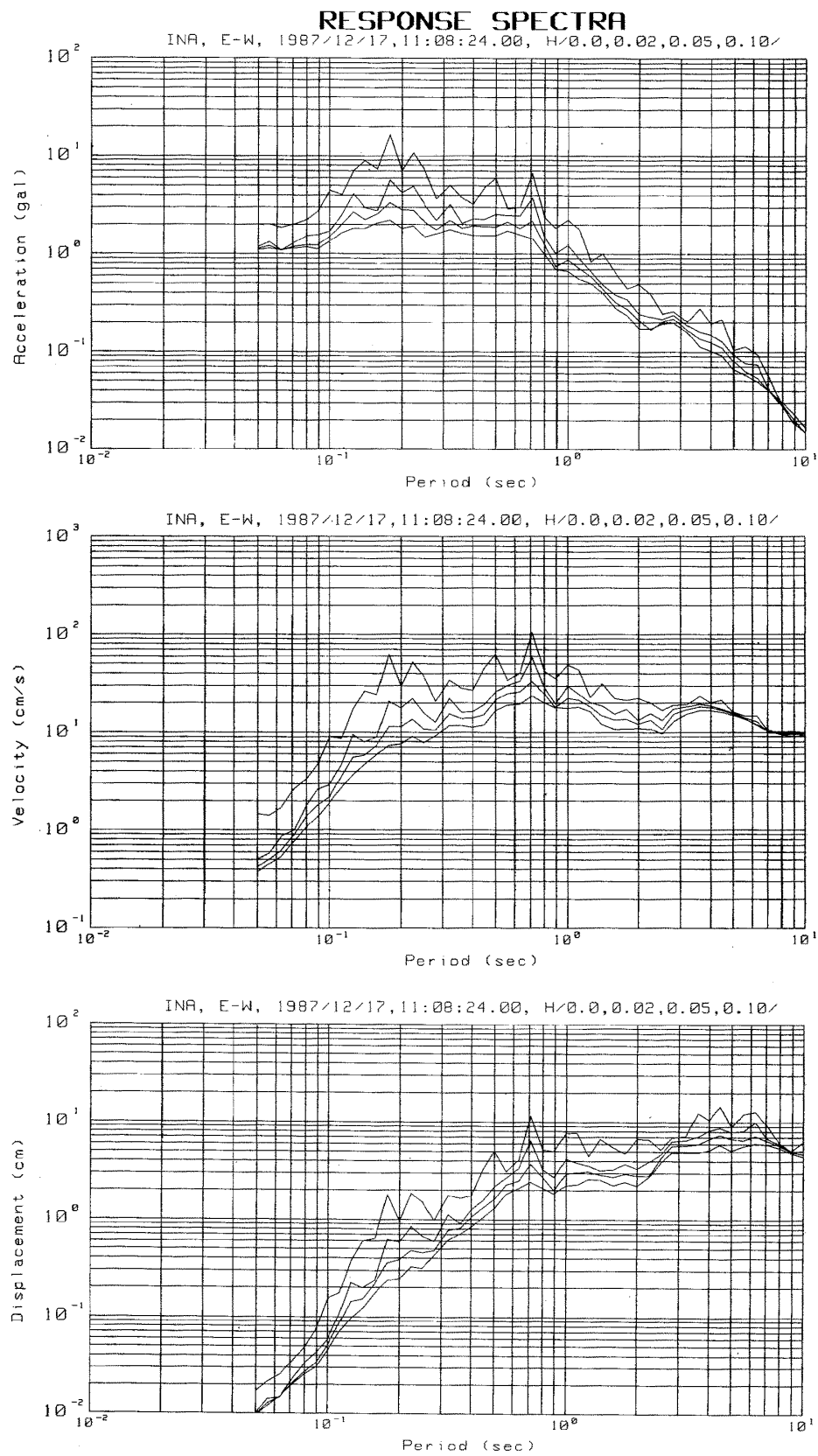
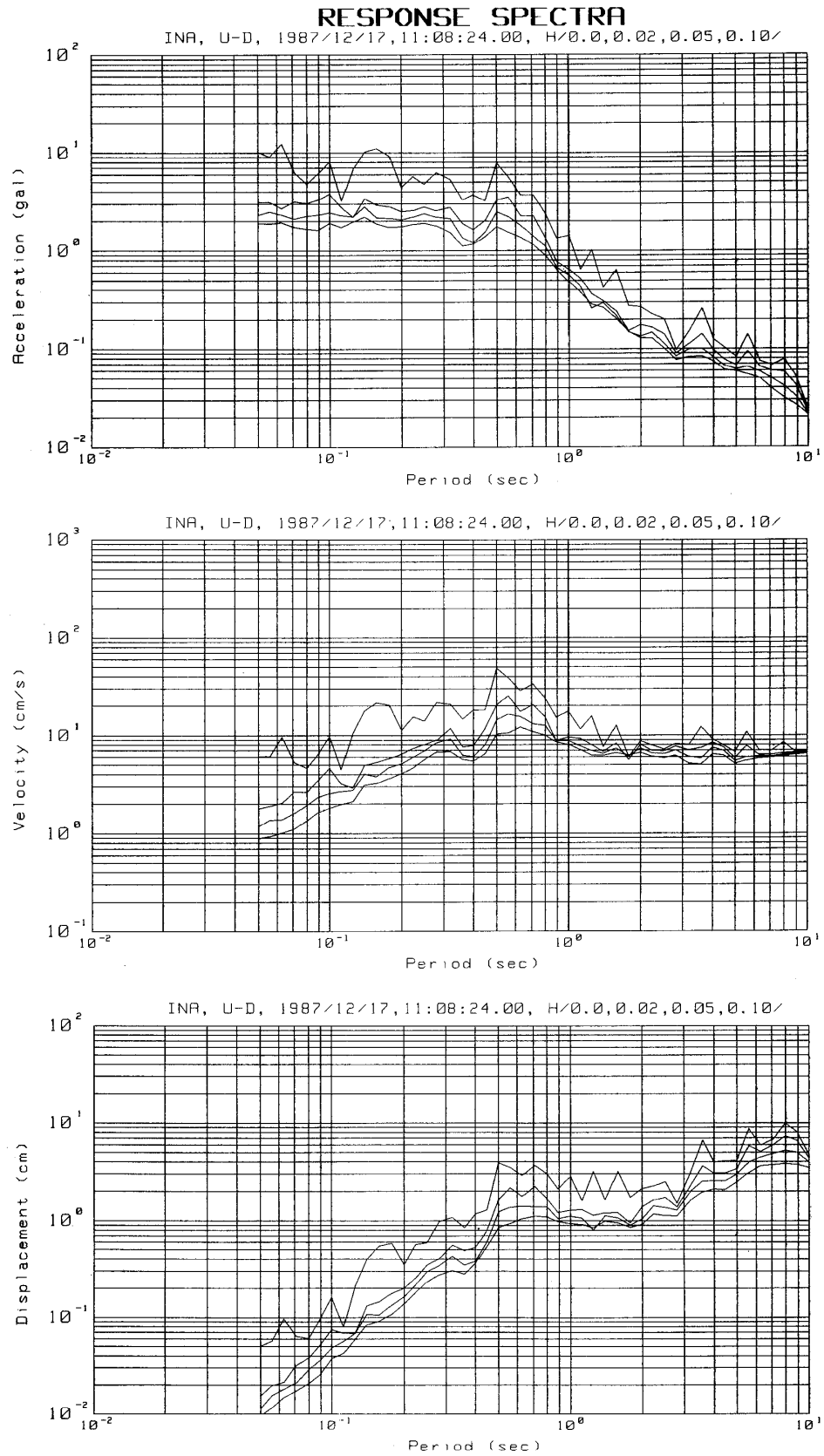


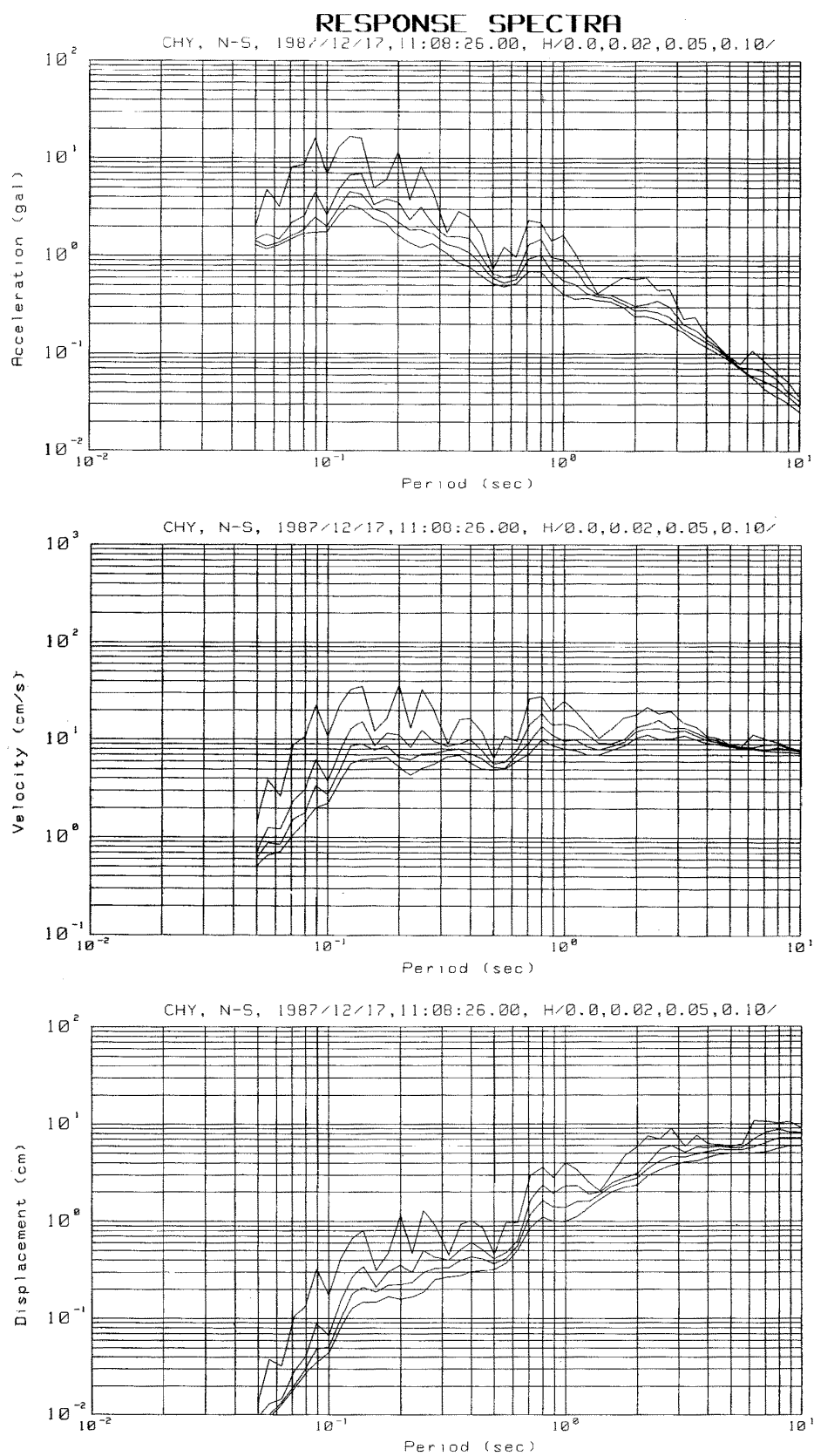
Fig. 5 Response spectra
(5-1) INA, NS-component



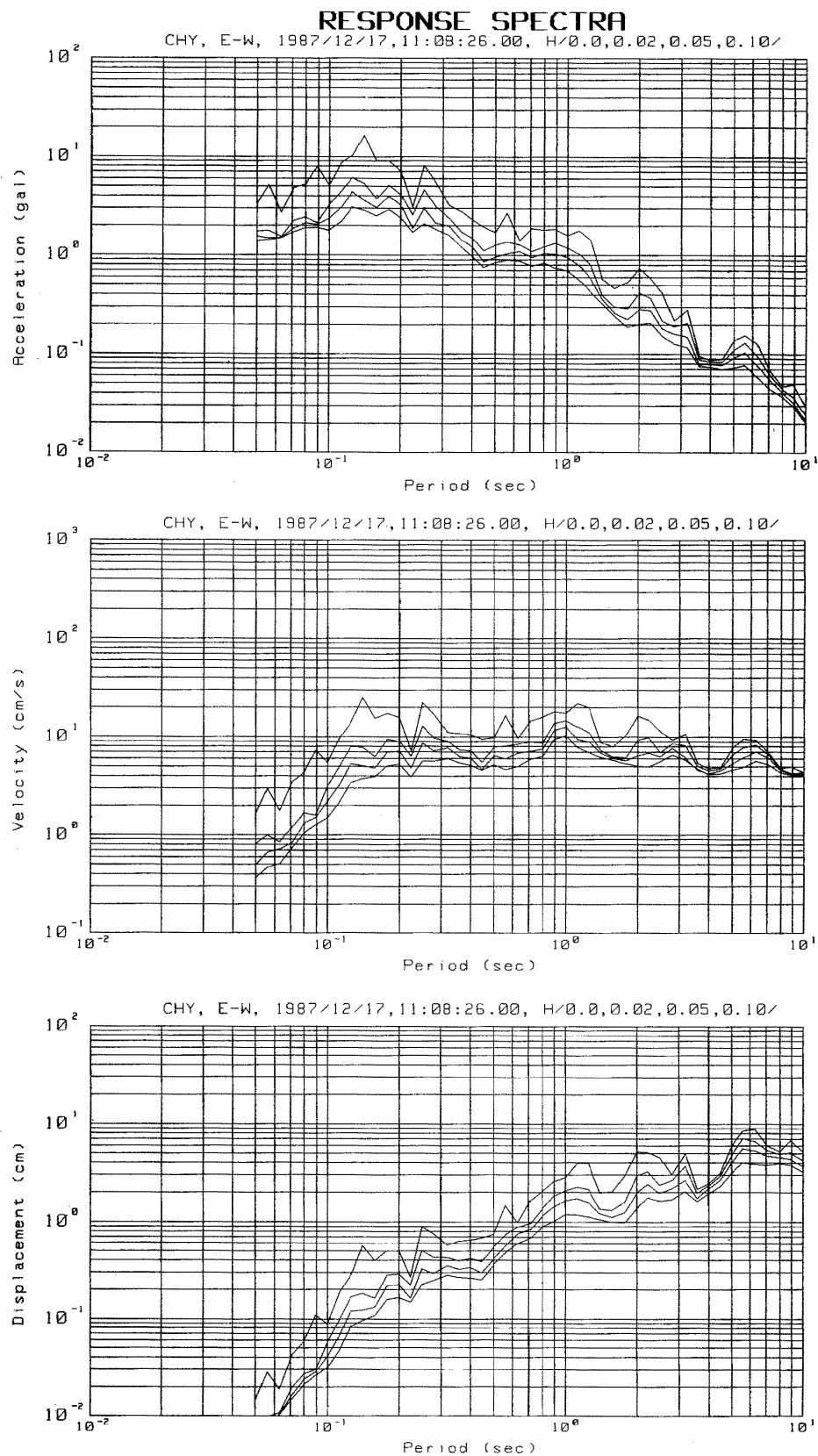
(5-2) INA, EW-component



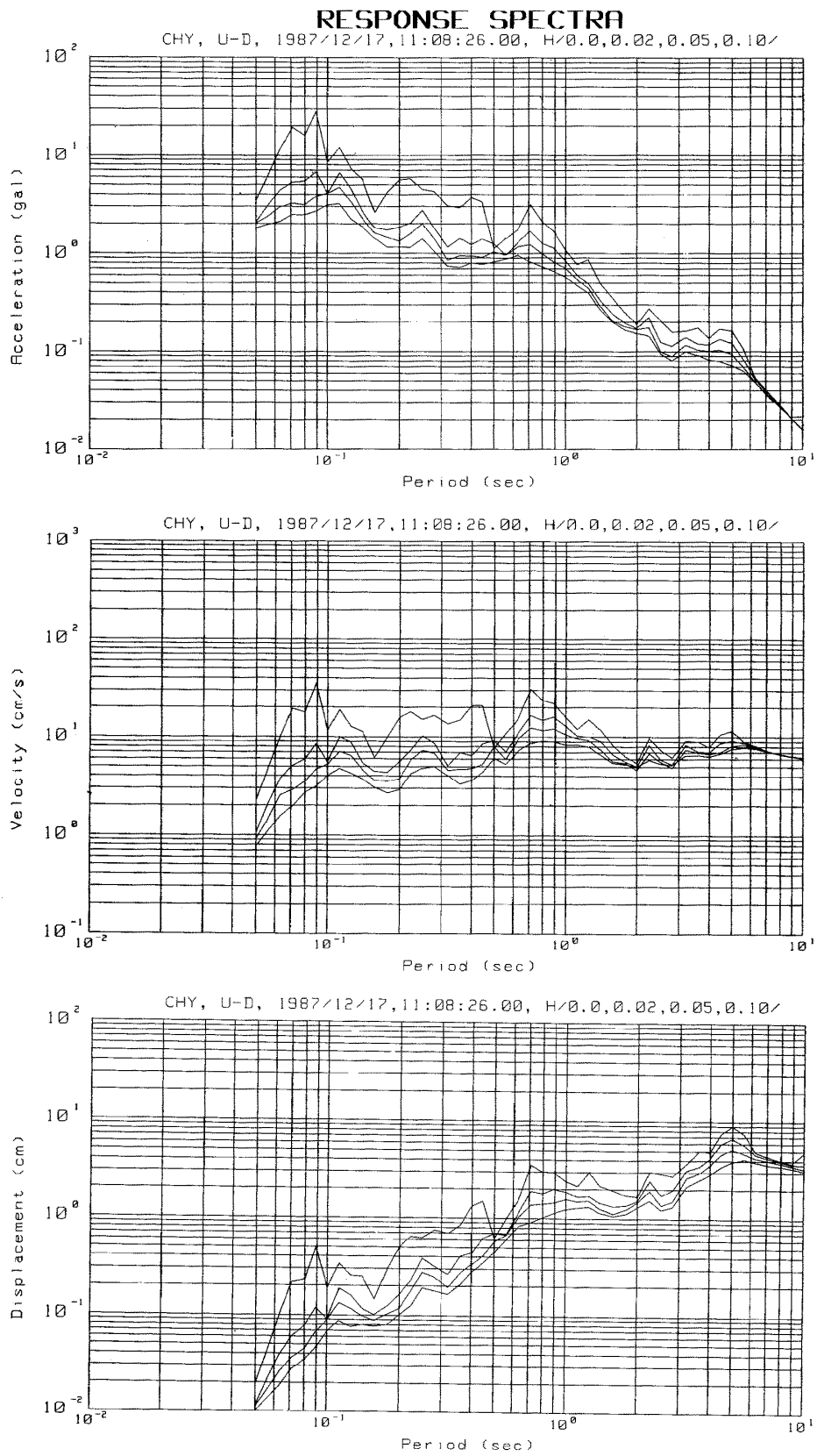
(5-3) INA, UD-component



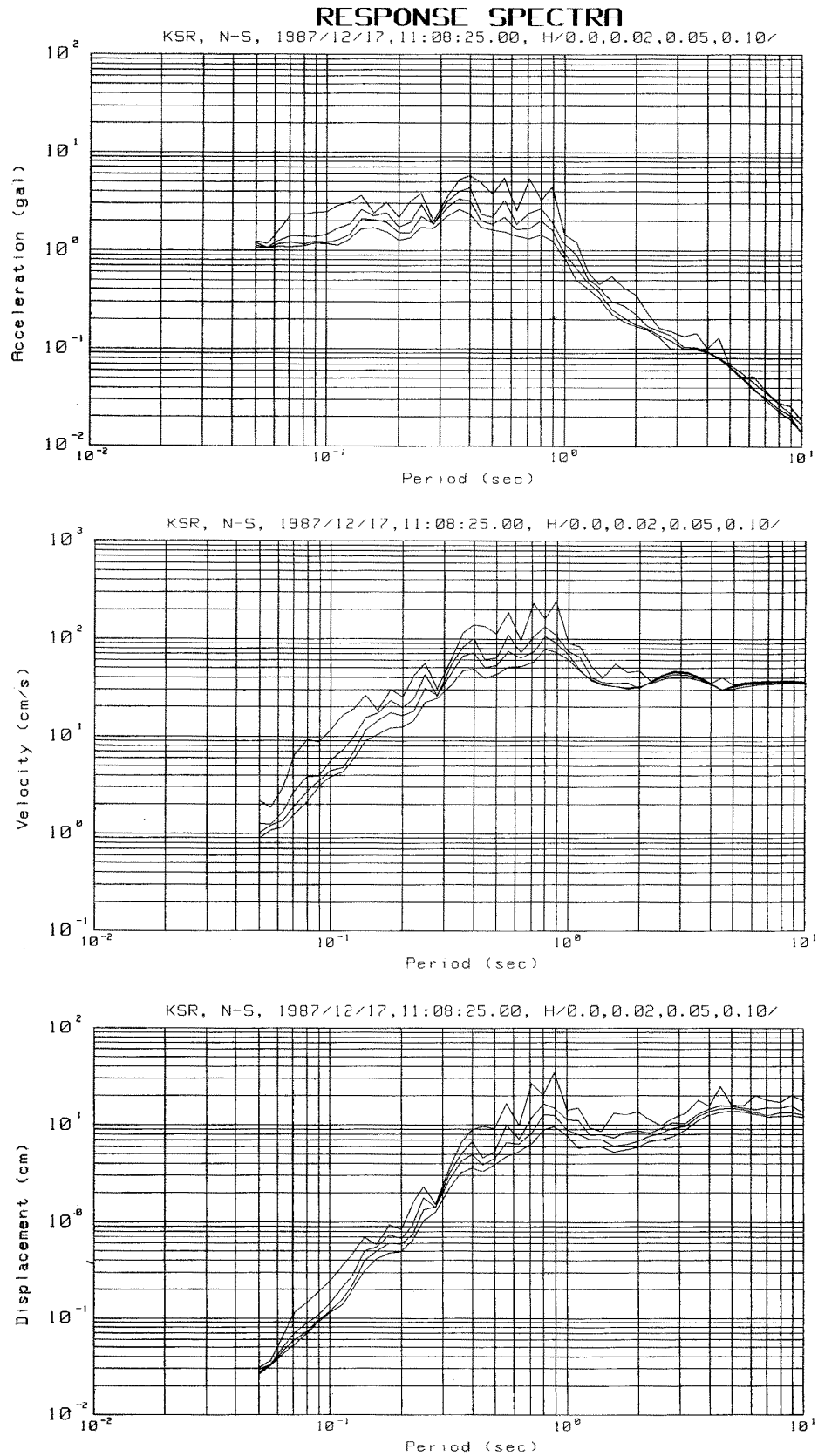
(5-4) CHY, NS-component



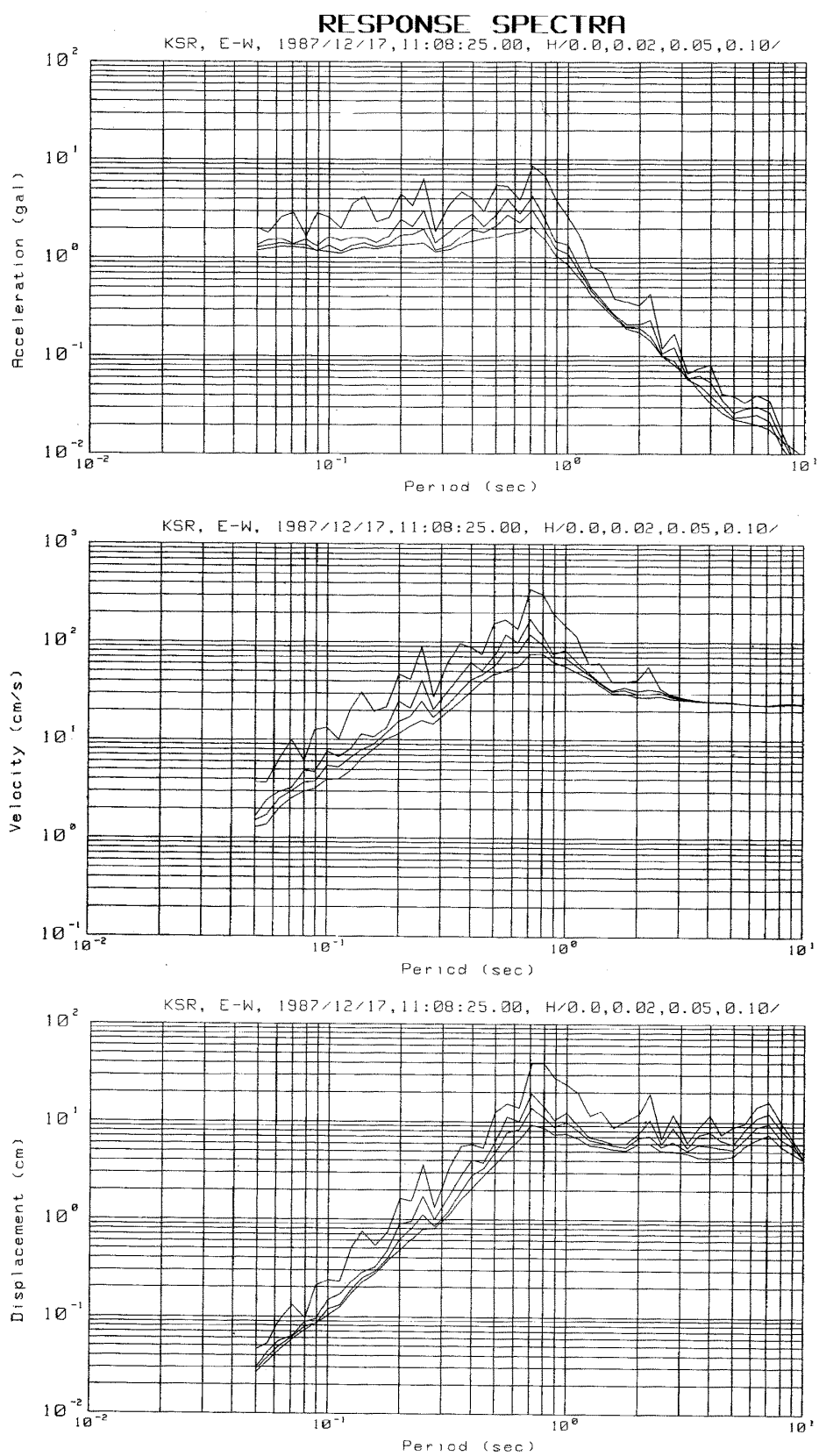
(5-5) CHY, EW-component



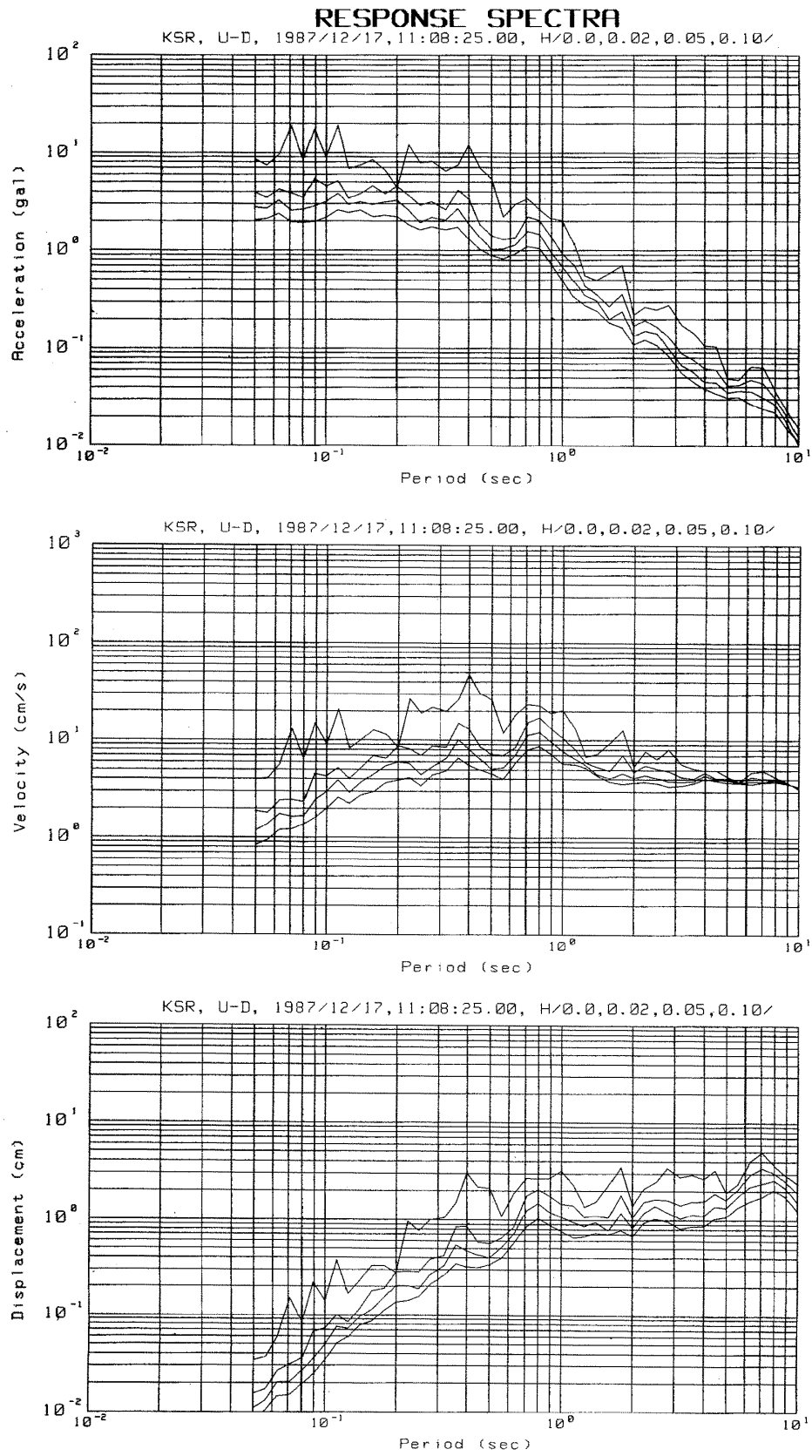
(5-6) CHY, UD-component



(5-7) KSR, NS-component



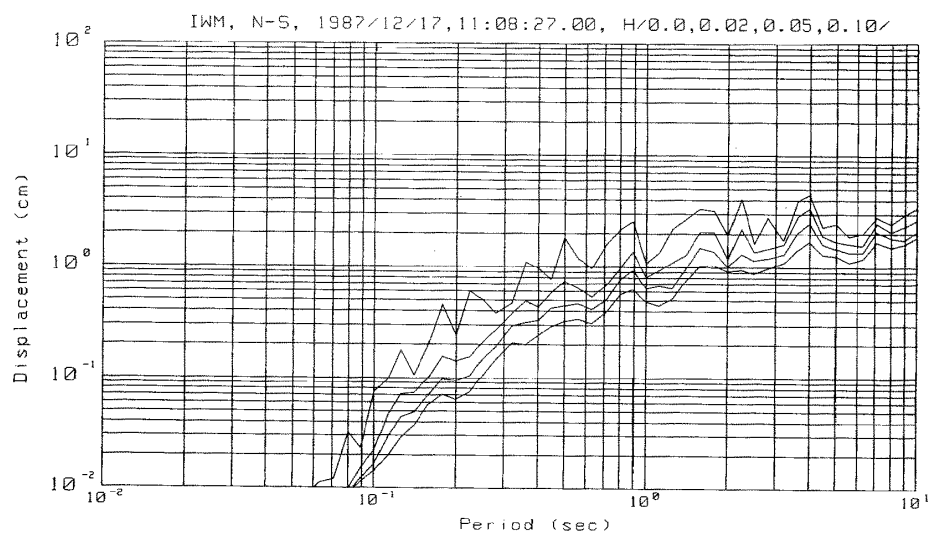
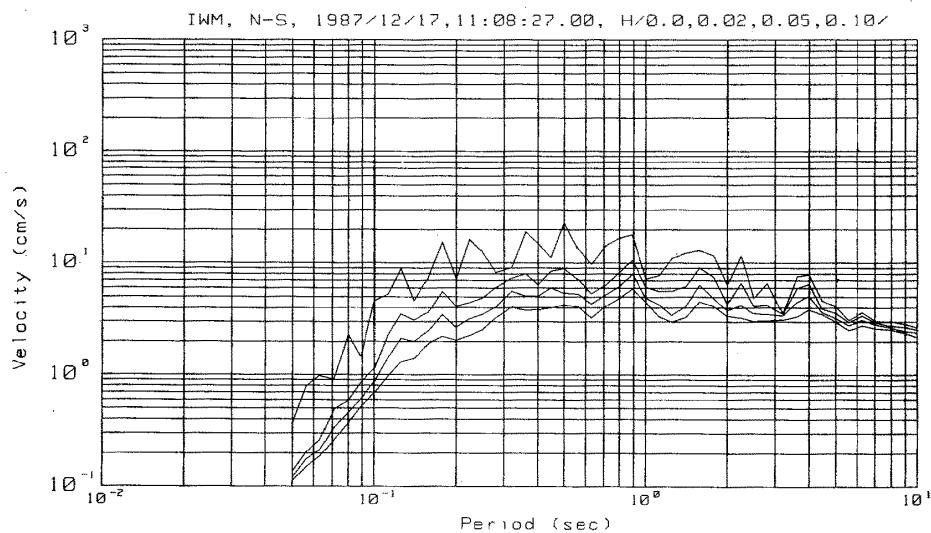
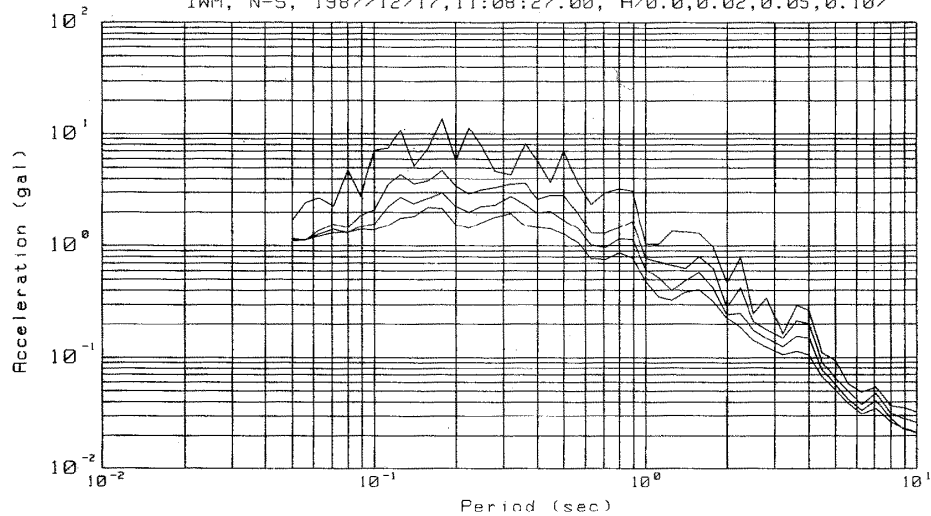
(5-8) KSR, EW-component



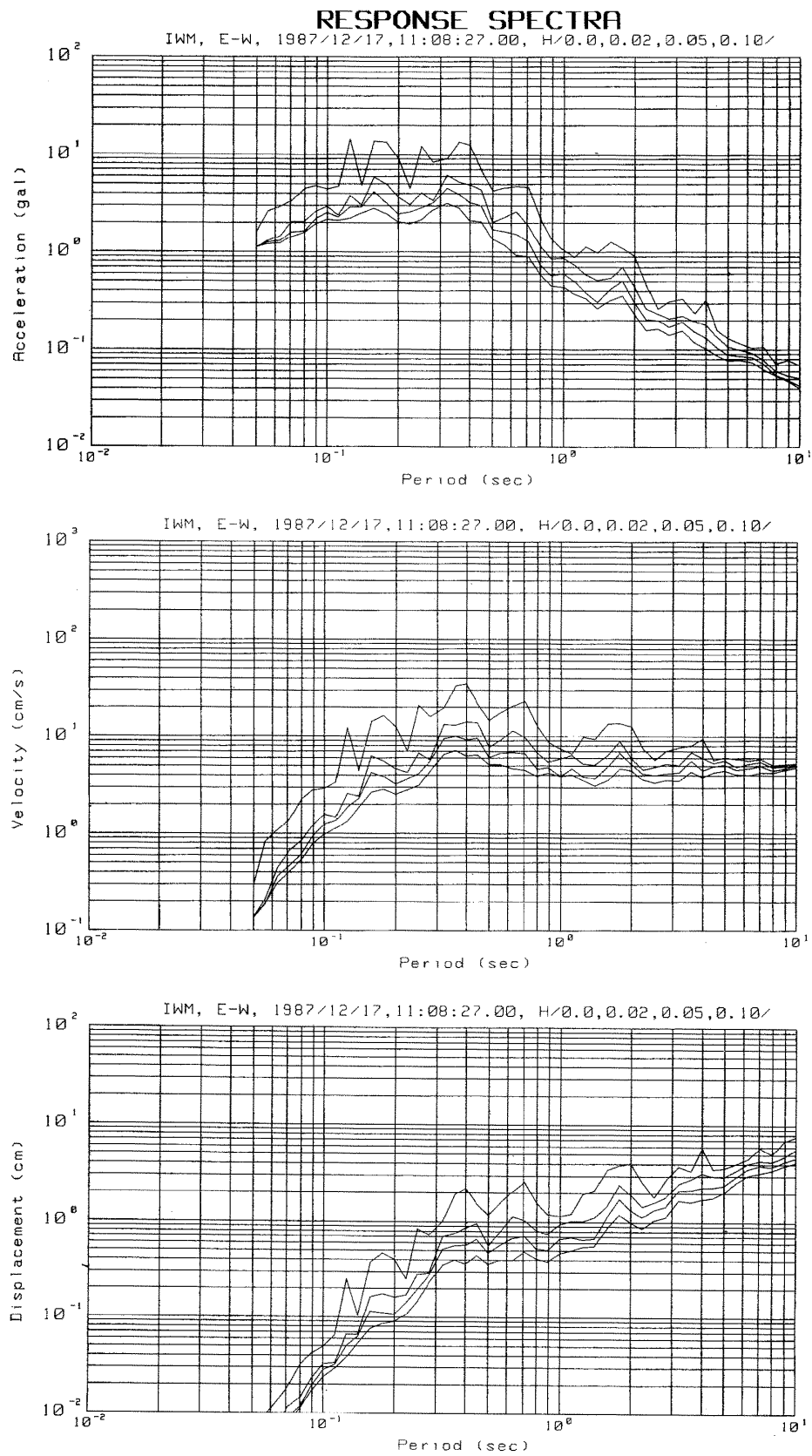
(5-9) KSR, UD-component

RESPONSE SPECTRA

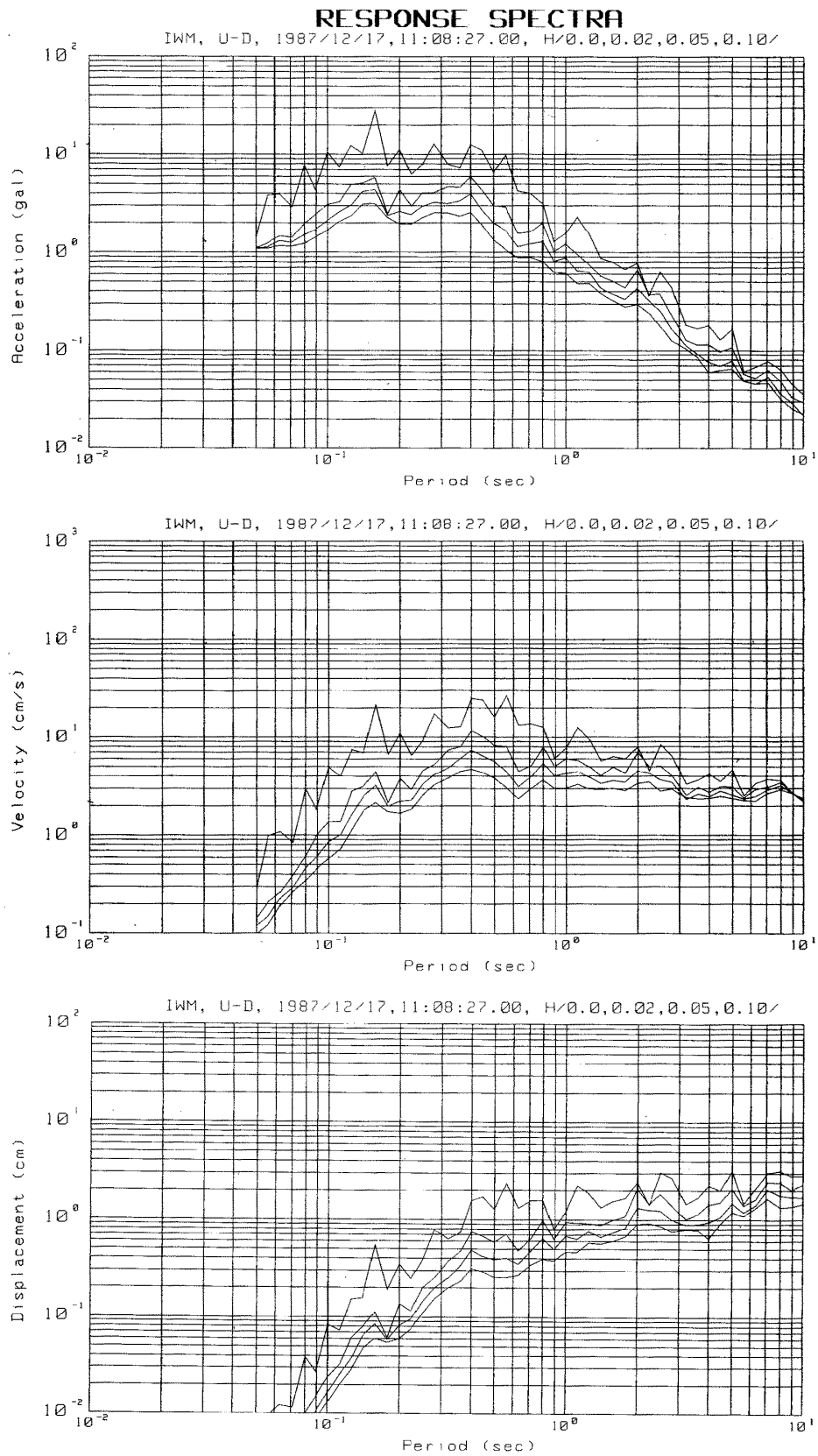
IWM, N-S, 1987/12/17, 11:08:27.00, H/0.0,0.02,0.05,0.10/



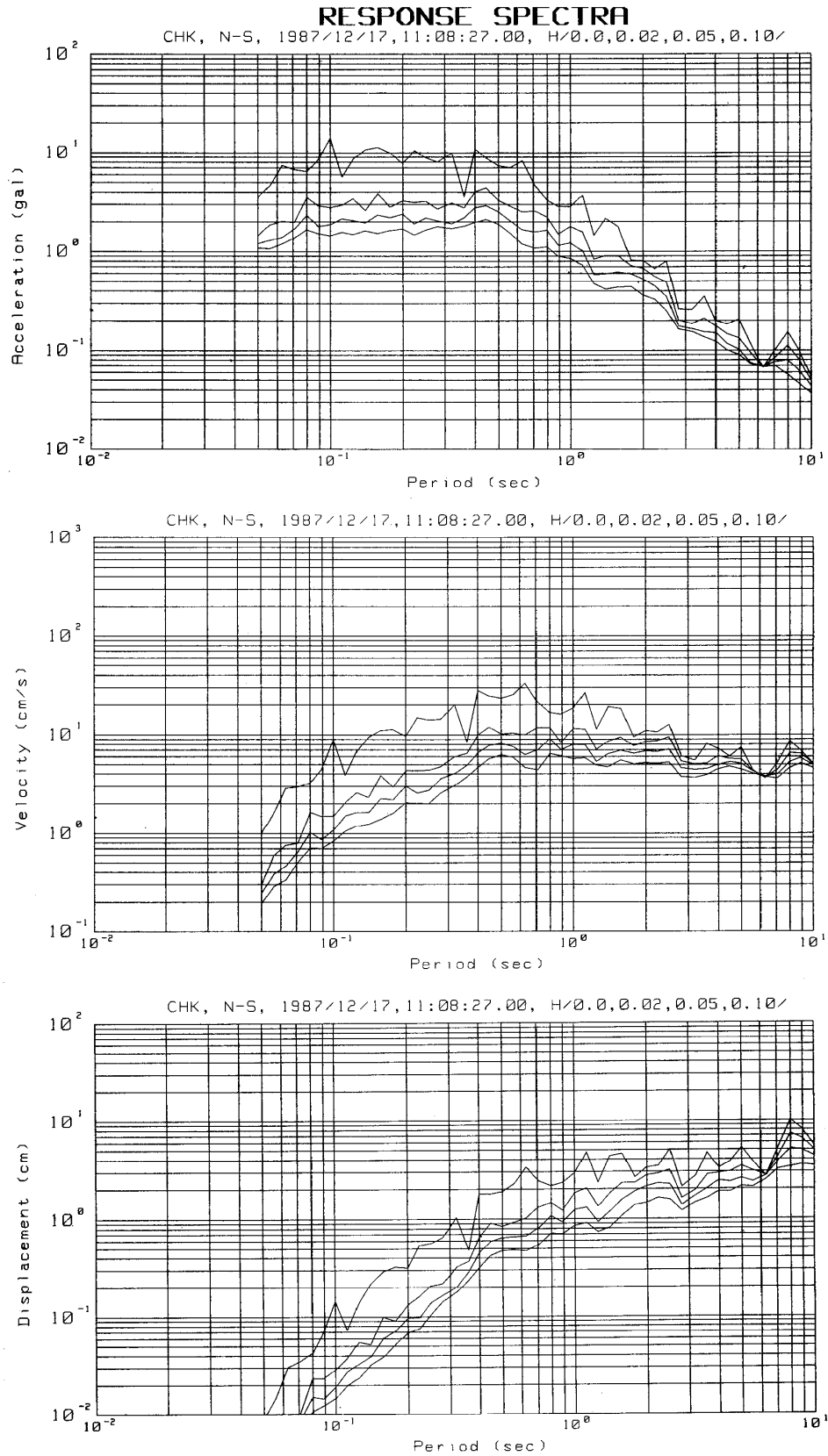
(5-10) IWM, NS-component



(5-11) IWM, EW-component

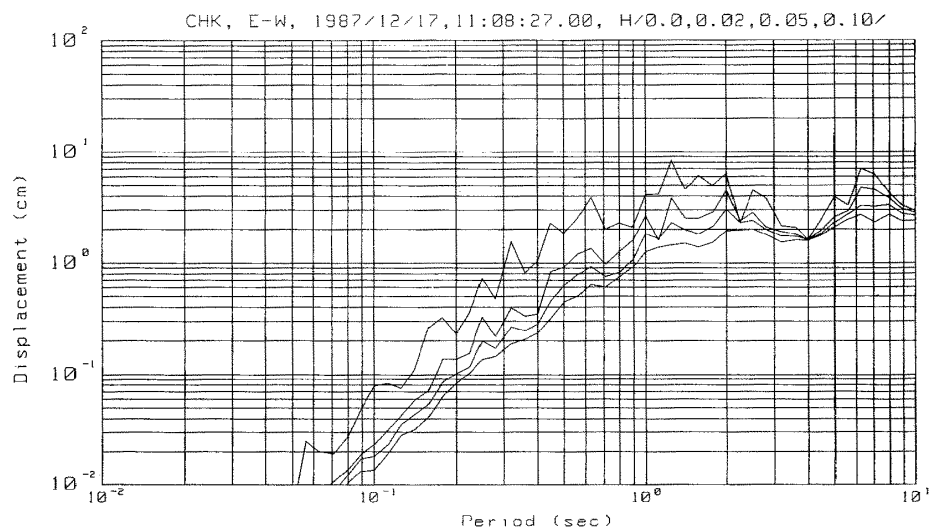
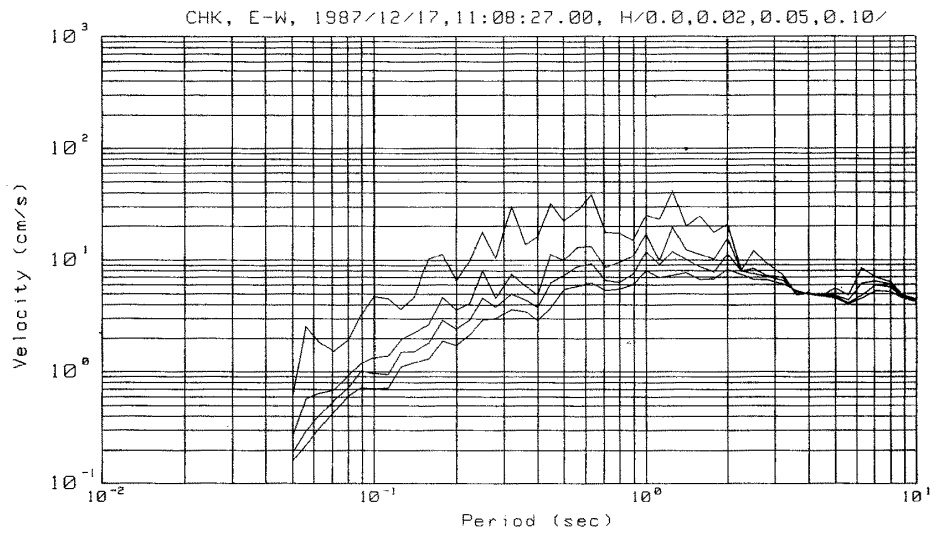
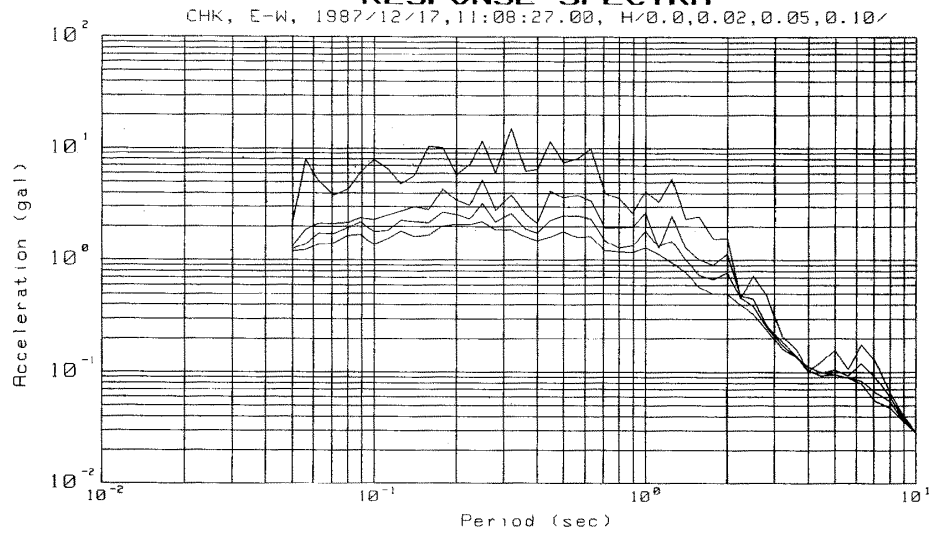


(5-12) IWM, UD-component

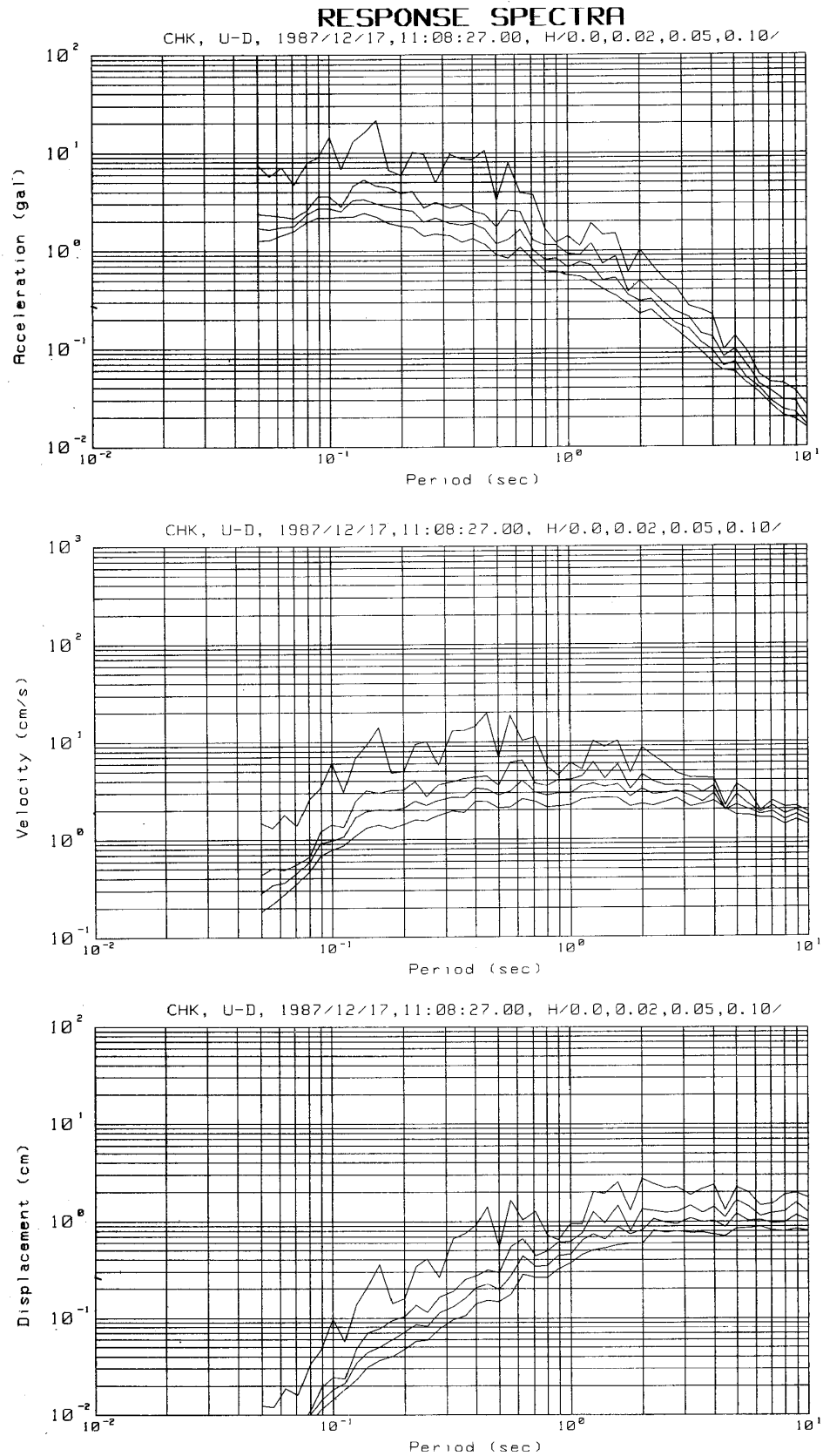


(5-13) CHK, NS-component

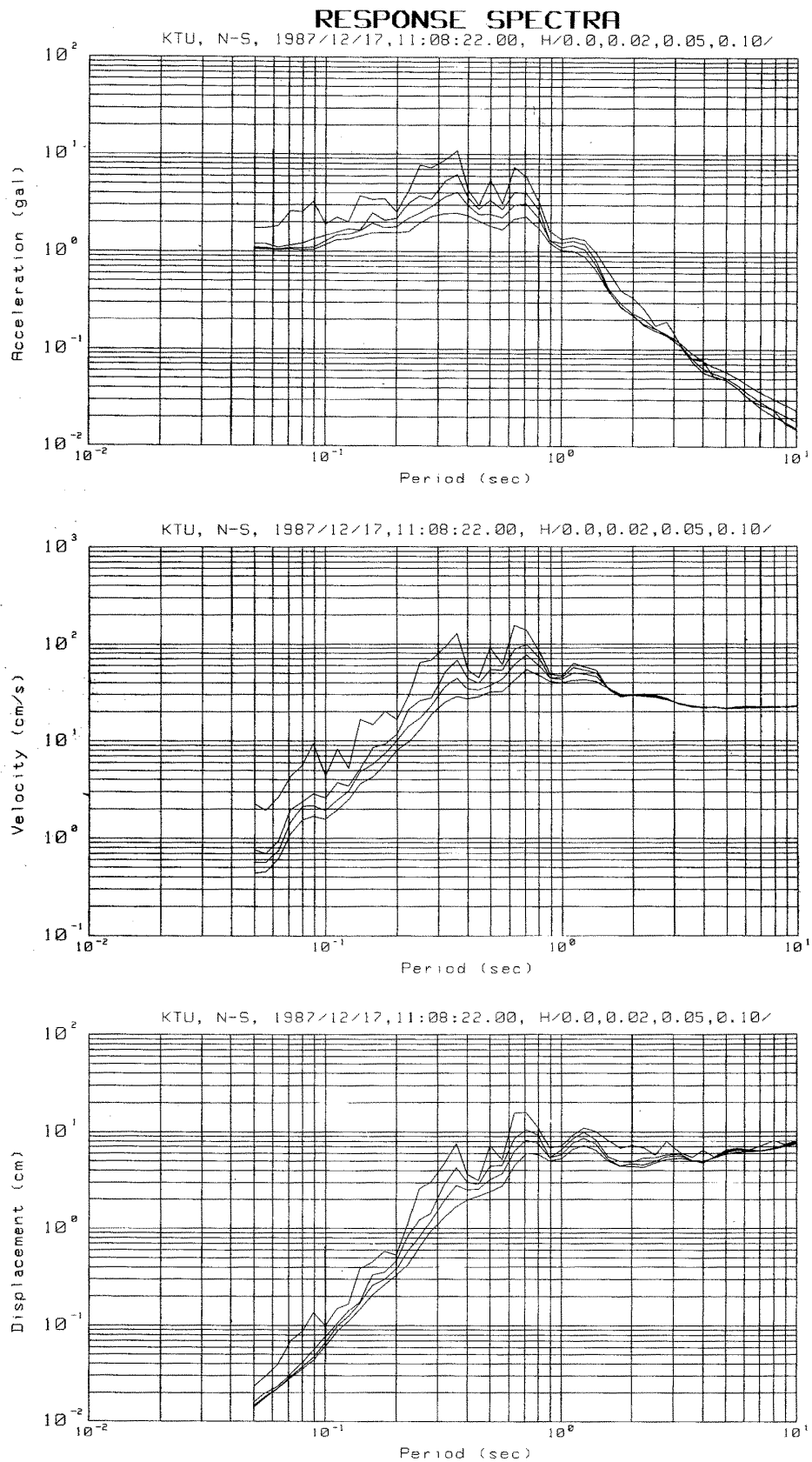
RESPONSE SPECTRA



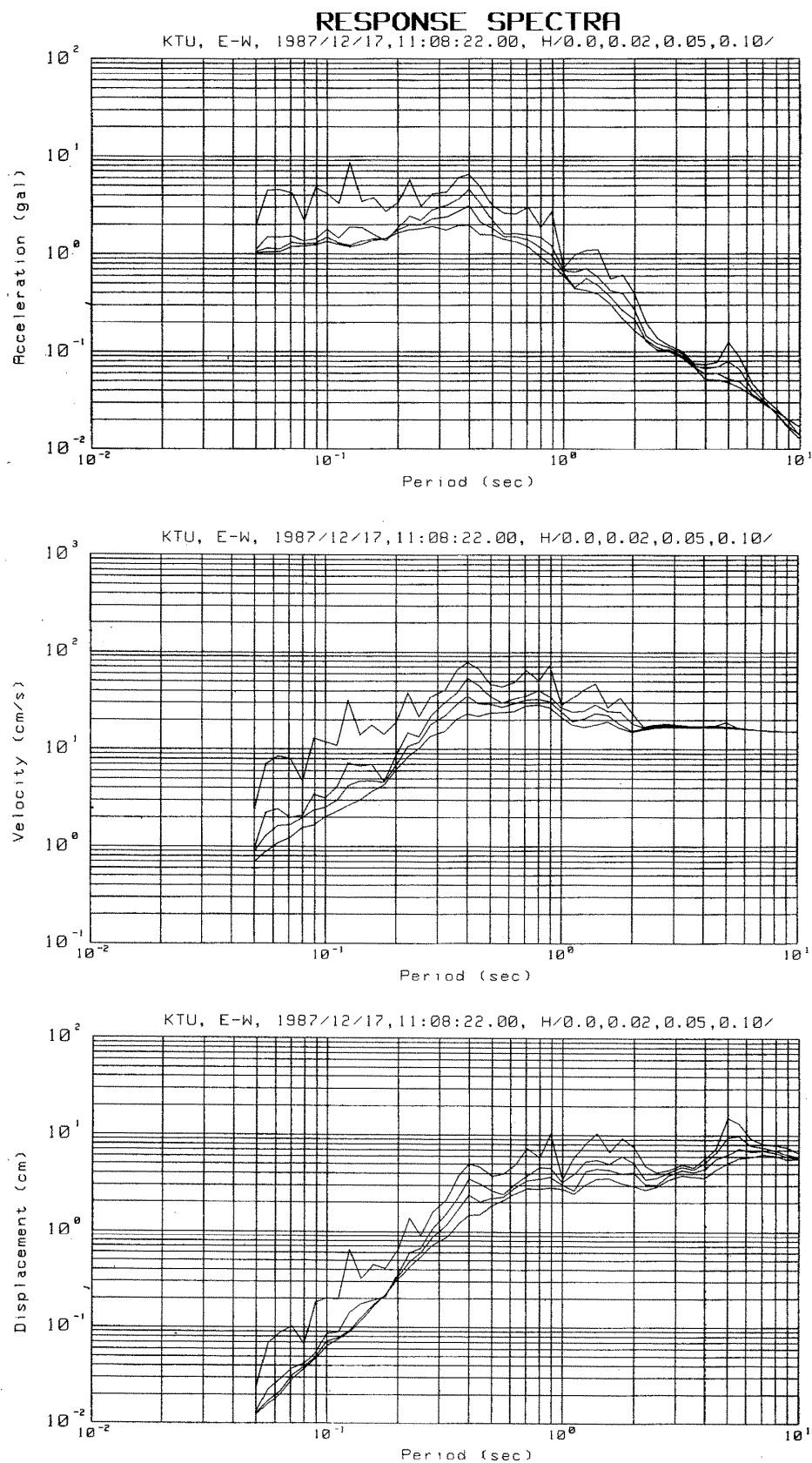
(5-14) CHK, EW-component



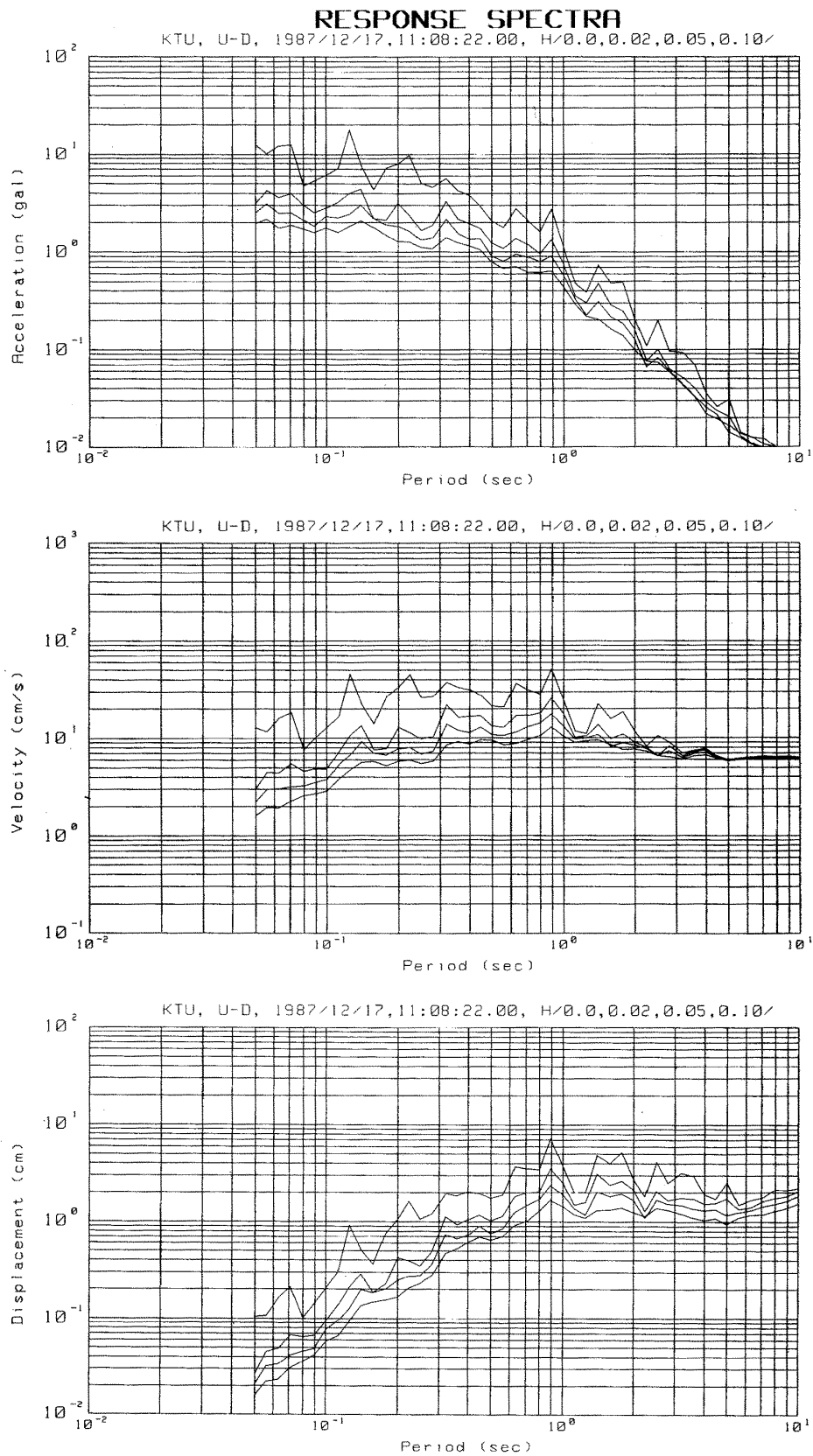
(5-15) CHK, UD-component



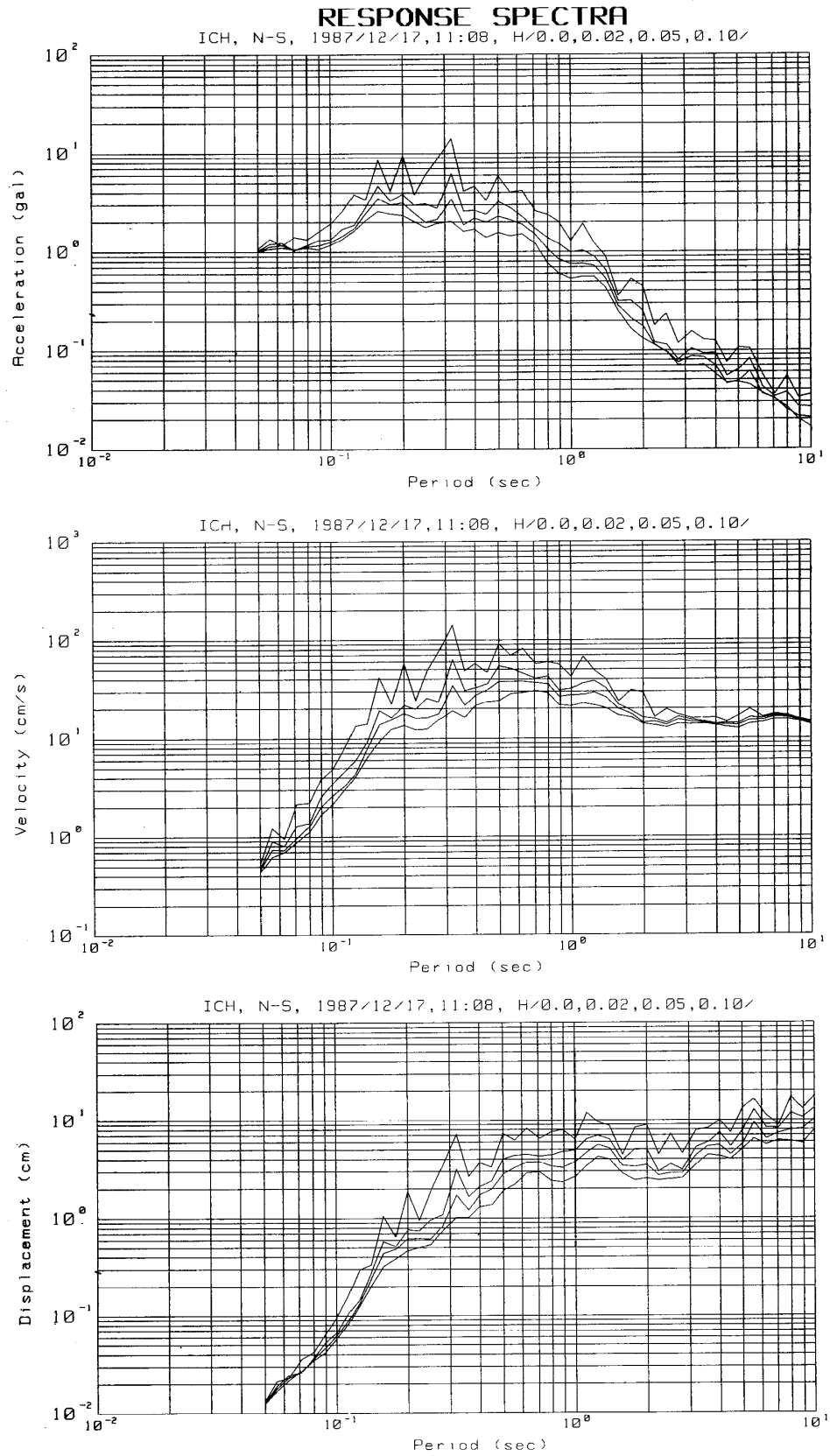
(5-16) KTU, NS-component



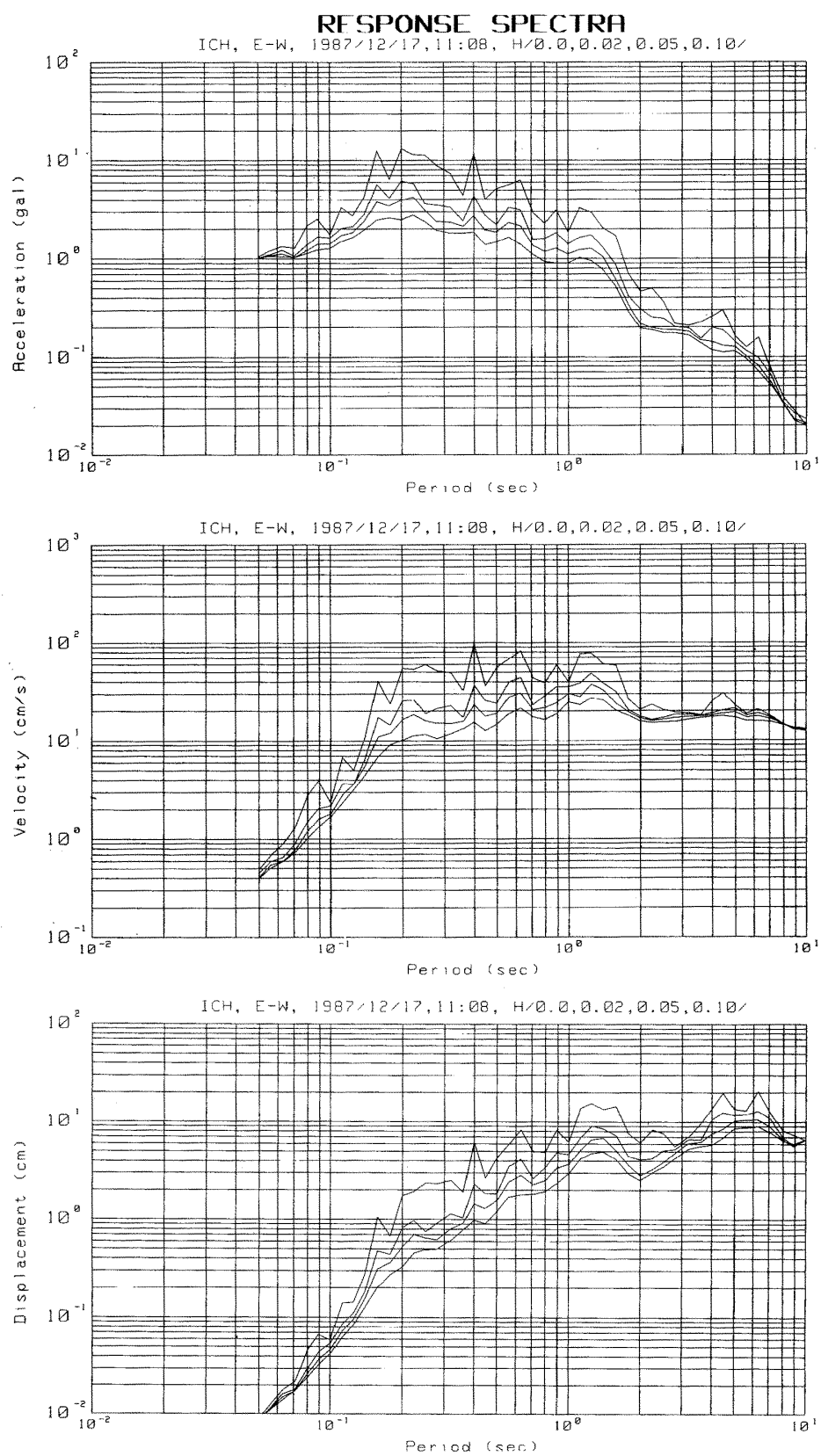
(5-17) KTU, EW-component



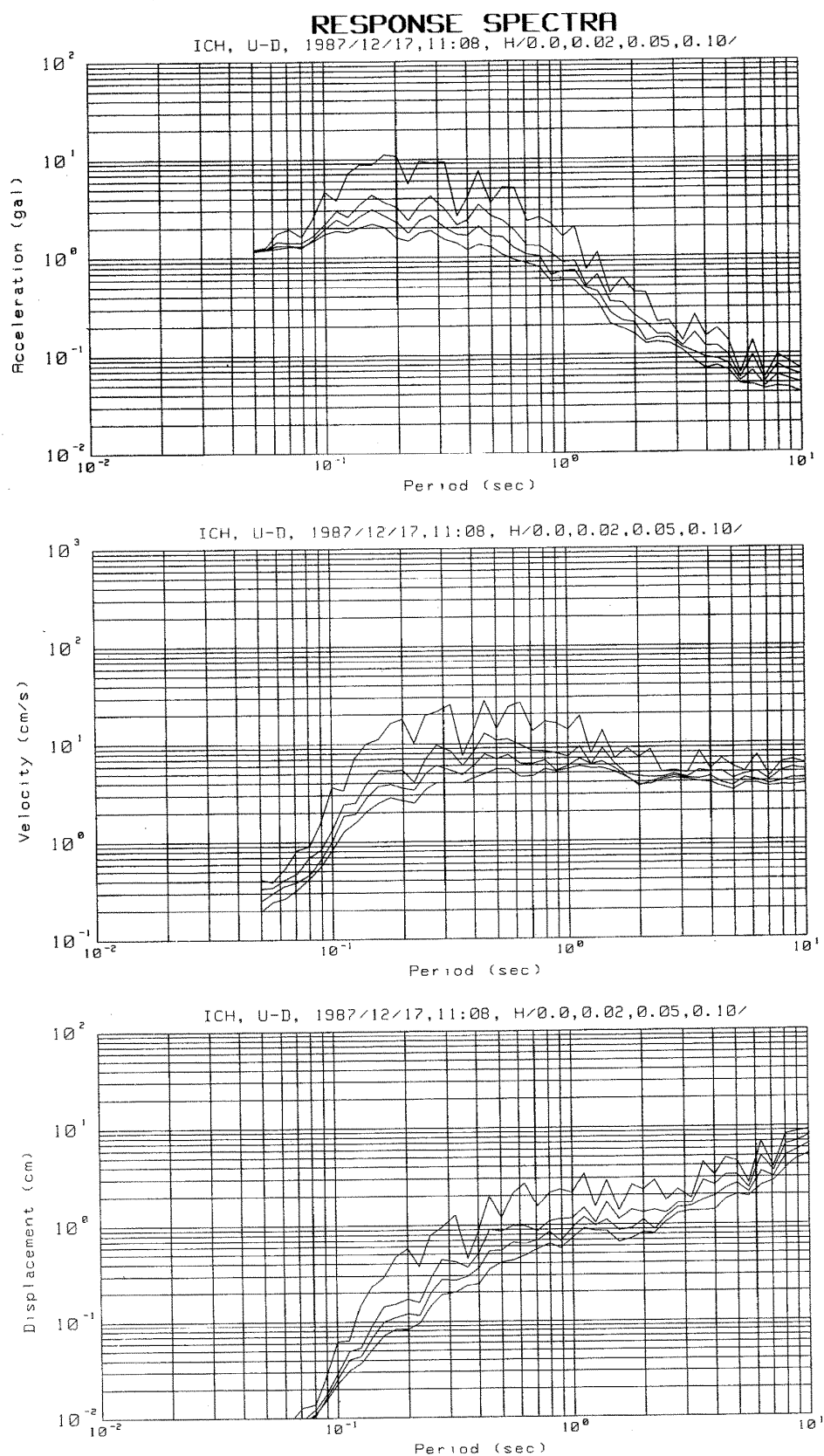
(5-18) KTU, UD-component



(5-19) ICH, NS-component



(5-20) ICH, EW-component



(5-21) ICH, UD-component

Table 2. Lists of response spectra. (2-1) INA, NS-component

RESPONSE SPECTRUM									
PERIOD (sec)	Damping = 0.00			Damping = 0.02			Damping = 0.05		
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
0.50	1.92	1.45	0.02	1.26	0.66	0.01	1.19	0.53	0.01
0.56	2.36	1.90	0.02	1.33	0.58	0.01	1.21	0.53	0.01
0.63	1.89	1.72	0.06	1.10	0.77	0.02	1.12	0.64	0.01
0.71	1.39	1.02	0.09	1.36	0.34	0.03	1.23	0.96	0.02
0.80	4.34	6.27	0.09	1.11	0.73	0.03	1.11	1.25	0.03
0.89	5.01	8.27	0.13	1.37	1.87	0.06	1.11	1.16	0.04
1.00	4.60	8.77	0.26	1.91	0.67	0.09	1.11	1.22	0.06
1.125	6.31	14.30	0.46	2.17	4.09	0.16	1.12	1.47	0.08
1.40	8.85	22.81	0.30	2.22	6.77	0.22	1.11	1.57	0.11
1.58	4.37	10.32	0.30	2.22	15.16	0.40	1.11	1.65	0.11
1.78	16.74	33.26	0.69	2.42	11.09	0.57	1.11	1.80	0.12
2.00	7.31	30.09	1.14	2.22	11.09	0.57	1.11	2.08	0.22
2.250	7.58	33.89	1.14	3.72	11.09	0.57	1.11	2.08	0.22
2.50	10.03	38.80	1.08	4.02	11.09	0.57	1.11	2.08	0.22
2.80	11.67	46.24	1.33	5.22	11.09	0.57	1.11	2.08	0.22
3.20	11.47	49.59	1.33	5.22	11.09	0.57	1.11	2.08	0.22
4.00	14.55	66.24	1.81	5.22	11.09	0.57	1.11	2.08	0.22
4.47	10.58	48.04	1.33	5.22	11.09	0.57	1.11	2.08	0.22
5.00	10.58	48.04	1.33	5.22	11.09	0.57	1.11	2.08	0.22
5.60	16.64	74.77	1.89	5.22	11.09	0.57	1.11	2.08	0.22
6.30	4.33	58.21	0.59	5.22	11.09	0.57	1.11	2.08	0.22
7.10	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
8.00	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
8.90	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
1.120	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
1.125	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
1.150	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
1.1580	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
1.200	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
2.200	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
2.300	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
2.400	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
3.000	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
3.600	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
4.000	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
4.400	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
4.800	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
5.200	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
5.600	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
6.000	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
6.400	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
6.800	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
7.200	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
7.600	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
8.000	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22
10.000	1.99	34.21	0.21	5.22	11.09	0.57	1.11	2.08	0.22

```

Station = INA (Image)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17, 11:08:24.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

```

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RESPONSE SPECTRUM

```

Station = INA (Image)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:24.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

```

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)		ACCE. (gal)	VELO. (cm/s)	DISP. (cm)		ACCE. (gal)	VELO. (cm/s)	DISP. (cm)		ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	
0.50	10.16	0.82	0.05		13.13	1.79	0.02		31.49	1.36	0.10		99.00	8.94	0.11	
0.55	19.42	1.17	0.06		3.13	1.90	0.02		2.43	1.38	0.02		1.11	0.11	0.01	
0.60	12.43	0.93	0.10		3.03	2.03	0.04		2.22	1.61	0.02		1.11	0.11	0.02	
0.65	16.46	1.34	0.06		3.03	2.67	0.05		2.22	1.93	0.04		1.11	0.11	0.03	
0.70	4.46	0.83	0.16		3.23	4.22	0.07		2.22	2.33	0.06		1.11	0.11	0.04	
0.75	8.38	1.48	0.08		3.23	4.62	0.07		2.22	2.67	0.07		1.11	0.11	0.04	
0.80	9.44	1.50	0.21		3.23	4.94	0.11		2.22	2.88	0.11		1.11	0.11	0.09	
0.85	15.26	2.01	0.24		3.23	5.34	0.14		2.22	3.00	0.14		1.11	0.11	0.11	
0.90	10.05	1.53	0.35		3.23	5.77	0.18		2.22	3.18	0.18		1.11	0.11	0.14	
0.95	11.22	1.71	0.58		3.23	6.14	0.22		2.22	3.44	0.22		1.11	0.11	0.18	
1.00	11.94	1.83	0.77		3.23	6.56	0.26		2.22	3.66	0.26		1.11	0.11	0.22	
1.05	10.05	1.53	1.00		3.23	6.94	0.30		2.22	3.88	0.30		1.11	0.11	0.27	
1.10	11.94	1.83	1.24		3.23	7.34	0.34		2.22	4.11	0.34		1.11	0.11	0.31	
1.15	12.40	1.94	1.40		3.23	7.77	0.38		2.22	4.33	0.38		1.11	0.11	0.35	
1.20	10.05	1.53	1.66		3.23	8.14	0.42		2.22	4.55	0.42		1.11	0.11	0.39	
1.25	11.94	1.83	1.90		3.23	8.56	0.46		2.22	4.77	0.46		1.11	0.11	0.43	
1.30	11.94	1.83	2.14		3.23	8.94	0.50		2.22	5.00	0.50		1.11	0.11	0.47	
1.35	10.05	1.53	2.38		3.23	9.34	0.54		2.22	5.22	0.54		1.11	0.11	0.51	
1.40	11.94	1.83	2.62		3.23	9.77	0.58		2.22	5.44	0.58		1.11	0.11	0.55	
1.45	12.40	1.94	2.86		3.23	10.14	0.62		2.22	5.66	0.62		1.11	0.11	0.59	
1.50	10.05	1.53	3.10		3.23	10.56	0.66		2.22	5.88	0.66		1.11	0.11	0.63	
1.55	11.94	1.83	3.34		3.23	10.94	0.70		2.22	6.11	0.70		1.11	0.11	0.67	
1.60	11.94															

(2-4) CHY, NS-component

RESPONSE SPECTRUM

Station = CHY (Chyoshi)
 Component = N-S Data type = ACCELERATION (gal)
 Date and Time = 1987/12/17 11:08:26.00
 Sampling interval = 0.005(sec)
 Time length = 60(s)

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	
0.50	2.406	1.46	0.04	0.1	1.65	7.1	0.1	0.1	1.28	5.0	0.1	0.1	1.28	5.0	0.1	
0.56	4.321	3.874	0.03	0.4	1.11	2.22	0.1	0.1	1.23	3.5	0.1	0.1	1.12	2.8	0.1	
0.63	10.641	10.601	0.10	1.3	1.15	3.07	0.03	0.3	1.15	3.51	0.03	0.3	1.11	2.4	0.03	
0.71	16.088	12.041	0.32	1.4	1.60	15.8	0.09	0.4	1.11	7.7	0.05	0.5	1.11	7.7	0.05	
0.80	16.088	12.041	0.60	1.6	3.28	11.5	0.26	0.8	2.33	6.6	0.18	0.8	2.33	6.6	0.18	
0.89	16.088	12.041	0.87	1.8	4.47	11.5	0.34	1.1	3.22	5.2	0.22	1.1	3.22	5.2	0.22	
1.00	16.088	12.041	1.14	2.1	6.00	11.5	0.41	1.1	4.47	4.8	0.22	1.1	4.47	4.8	0.22	
1.125	16.088	12.041	1.31	2.5	8.66	11.5	0.50	1.1	6.00	4.8	0.22	1.1	6.00	4.8	0.22	
1.158	16.088	12.041	1.49	2.9	11.54	11.5	0.54	1.1	8.66	4.8	0.22	1.1	8.66	4.8	0.22	
1.200	16.088	12.041	1.66	3.3	13.33	11.5	0.60	1.1	11.54	4.8	0.22	1.1	11.54	4.8	0.22	
1.225	16.088	12.041	1.83	3.8	16.66	11.5	0.68	1.1	13.33	4.8	0.22	1.1	13.33	4.8	0.22	
1.250	16.088	12.041	2.00	4.2	19.99	11.5	0.77	1.1	16.66	4.8	0.22	1.1	16.66	4.8	0.22	
1.275	16.088	12.041	2.17	4.7	23.32	11.5	0.84	1.1	19.99	4.8	0.22	1.1	19.99	4.8	0.22	
1.300	16.088	12.041	2.34	5.2	26.65	11.5	0.92	1.1	23.32	4.8	0.22	1.1	23.32	4.8	0.22	
1.325	16.088	12.041	2.51	5.7	30.00	11.5	1.00	1.1	26.65	4.8	0.22	1.1	26.65	4.8	0.22	
1.350	16.088	12.041	2.68	6.2	33.33	11.5	1.08	1.1	30.00	4.8	0.22	1.1	30.00	4.8	0.22	
1.375	16.088	12.041	2.85	6.7	36.66	11.5	1.16	1.1	33.33	4.8	0.22	1.1	33.33	4.8	0.22	
1.400	16.088	12.041	3.02	7.2	40.00	11.5	1.24	1.1	36.66	4.8	0.22	1.1	36.66	4.8	0.22	
1.425	16.088	12.041	3.19	7.7	43.33	11.5	1.31	1.1	40.00	4.8	0.22	1.1	40.00	4.8	0.22	
1.450	16.088	12.041	3.36	8.2	46.66	11.5	1.39	1.1	43.33	4.8	0.22	1.1	43.33	4.8	0.22	
1.475	16.088	12.041	3.53	8.7	50.00	11.5	1.46	1.1	46.66	4.8	0.22	1.1	46.66	4.8	0.22	
1.500	16.088	12.041	3.70	9.2	53.33	11.5	1.54	1.1	50.00	4.8	0.22	1.1	50.00	4.8	0.22	
1.525	16.088	12.041	3.87	9.7	56.66	11.5	1.61	1.1	53.33	4.8	0.22	1.1	53.33	4.8	0.22	
1.550	16.088	12.041	4.04	10.2	60.00	11.5	1.69	1.1	56.66	4.8	0.22	1.1	56.66	4.8	0.22	
1.575	16.088	12.041	4.21	10.7	63.33	11.5	1.76	1.1	60.00	4.8	0.22	1.1	60.00	4.8	0.22	
1.600	16.088	12.041	4.38	11.2	66.66	11.5	1.84	1.1	63.33	4.8	0.22	1.1	63.33	4.8	0.22	
1.625	16.088	12.041	4.55	11.7	70.00	11.5	1.91	1.1	66.66	4.8	0.22	1.1	66.66	4.8	0.22	
1.650	16.088	12.041	4.72	12.2	73.33	11.5	2.00	1.1	70.00	4.8	0.22	1.1	70.00	4.8	0.22	
1.675	16.088	12.041	4.89	12.7	76.66	11.5	2.07	1.1	73.33	4.8	0.22	1.1	73.33	4.8	0.22	
1.700	16.088	12.041	5.06	13.2	80.00	11.5	2.15	1.1	76.66	4.8	0.22	1.1	76.66	4.8	0.22	
1.725	16.088	12.041	5.23	13.7	83.33	11.5	2.22	1.1	80.00	4.8	0.22	1.1	80.00	4.8	0.22	
1.750	16.088	12.041	5.40	14.2	86.66	11.5	2.30	1.1	83.33	4.8	0.22	1.1	83.33	4.8	0.22	
1.775	16.088	12.041	5.57	14.7	90.00	11.5	2.37	1.1	86.66	4.8	0.22	1.1	86.66	4.8	0.22	
1.800	16.088	12.041	5.74	15.2	93.33	11.5	2.45	1.1	90.00	4.8	0.22	1.1	90.00	4.8	0.22	
1.825	16.088	12.041	5.91	15.7	96.66	11.5	2.52	1.1	93.33	4.8	0.22	1.1	93.33	4.8	0.22	
1.850	16.088	12.041	6.08	16.2	100.00	11.5	2.60	1.1	96.66	4.8	0.22	1.1	96.66	4.8	0.22	
1.875	16.088	12.041	6.25	16.7	103.33	11.5	2.67	1.1	100.00	4.8	0.22	1.1	100.00	4.8	0.22	
1.900	16.088	12.041	6.42	17.2	106.66	11.5	2.75	1.1	103.33	4.8	0.22	1.1	103.33	4.8	0.22	
1.925	16.088	12.041	6.59	17.7	110.00	11.5	2.82	1.1	106.66	4.8	0.22	1.1	106.66	4.8	0.22	
1.950	16.088	12.041	6.76	18.2	113.33	11.5	2.90	1.1	110.00	4.8	0.22	1.1	110.00	4.8	0.22	
1.975	16.088	12.041	6.93	18.7	116.66	11.5	2.97	1.1	113.33	4.8	0.22	1.1	113.33	4.8	0.22	
2.000	16.088	12.041	7.10	19.2	120.00	11.5	3.05	1.1	116.66	4.8	0.22	1.1	116.66	4.8	0.22	
2.025	16.088	12.041	7.27	19.7	123.33	11.5	3.12	1.1	120.00	4.8	0.22	1.1	120.00	4.8	0.22	
2.050	16.088	12.041	7.44	20.2	126.66	11.5	3.20	1.1	123.33	4.8	0.22	1.1	123.33	4.8	0.22	
2.075	16.088	12.041	7.61	20.7	130.00	11.5	3.27	1.1	126.66	4.8	0.22	1.1	126.66	4.8	0.22	
2.100	16.088	12.041	7.78	21.2	133.33	11.5	3.35	1.1	130.00	4.8	0.22	1.1	130.00	4.8	0.22	
2.125	16.088	12.041	7.95	21.7	136.66	11.5	3.42	1.1	133.33	4.8	0.22	1.1	133.33	4.8	0.22	
2.150	16.088	12.041	8.12	22.2	140.00	11.5	3.50	1.1	136.66	4.8	0.22	1.1	136.66	4.8	0.22	
2.175	16.088	12.041	8.29	22.7	143.33	11.5	3.57	1.1	140.00	4.8	0.22	1.1	140.00	4.8	0.22	
2.200	16.088	12.041	8.46	23.2	146.66	11.5	3.65	1.1	143.33	4.8	0.22	1.1	143.33	4.8	0.22	
2.225	16.088	12.041	8.63	23.7	150.00	11.5	3.72	1.1	146.66	4.8	0.22	1.1	146.66	4.8	0.22	
2.250	16.088	12.041	8.80	24.2	153.33	11.5	3.80	1.1	150.00	4.8	0.22	1.1	150.00	4.8	0.22	
2.275	16.088	12.041	8.97	24.7	156.66	11.5	3.87	1.1	153.33	4.8	0.22	1.1	153.33	4.8	0.22	
2.300	16.088	12.041	9.14	25.2	160.00	11.5	3.95	1.1	156.66	4.8	0.22	1.1	156.66	4.8	0.22	
2.325	16.088	12.041	9.31	25.7	163.33	11.5	4.02	1.1	160.00	4.8	0.22	1.1	160.00	4.8	0.22	
2.350	16.088	12.041	9.48	26.2	166.66	11.5	4.10	1.1	163.33	4.8	0.22	1.1	163.33	4.8	0.22	
2.375	16.088	12.041	9.65	26.7	170.00	11.5	4.17	1.1	166.66	4.8	0.22	1.1	166.66	4.8	0.22	
2.400	16.088	12.041	9.82	27.2	173.33	11.5	4.25	1.1	170.00	4.8	0.22	1.1	170.00	4.8	0.22	
2.425	16.088	12.041	9.99	27.7	176.66	11.5	4.32	1.1	173.33	4.8	0.22	1.1	173.33	4.8	0.22	
2.450	16.088	12.041	10.16	28.2	180.00	11.5	4.40	1.1	176.66	4.8	0.22	1.1	176.66	4.8	0.22	
2.475	16.088	12.041	10.33	28.7	183.33	11.5	4.47	1.1	180.00	4.8	0.22	1.1	180.00	4.8	0.22	
2.500	16.088	12.041	10.50	29.2	186.66	11.5	4.55	1.1	183.33	4.8	0.22	1.1	183.33	4.8	0.22	
2.525	16.088	12.041	10.67	29.7	190.00	11.5	4.62	1.1	186.66	4.8	0.22	1.1	186.66	4.8	0.22	
2.550	16.088	12.041	10.84	30.2	193.33	11.5	4.70	1.1	190.00	4.8	0.22	1.1	190.00	4.8	0.22	
2.575	16.088	12.041	11.01	30.7	196.66	11.5	4.77	1.1	193.33	4.8	0.22	1.1	193.33	4.8	0.22	
2.600	16.088	12.041	11.18	31.2	200.00	11.5	4.85	1.1	196.66	4.8	0.22	1.1	196.66	4.8	0.22	
2.625	16.088	12.041	11.35	31.7	203.33	11.5	4.92	1.1	200.00	4.8	0.22	1.1	200.00	4.8	0.22	
2.650	16.088	12.041	11.52	32.2	206.66	11.5	5.00	1.1	203.33	4.8	0.22	1.1	203.33	4.8	0.22	
2.675	16.088	12.041	11.69	32.7	210.00	11.5	5.07	1.1	206.66	4.8	0.22	1.1	206.66	4.8	0.22</	

(2-5) CHY, EW-component

RESPONSE SPECTRUM

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	type	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	Data	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	type	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	type
Station = CHY (Chyoshi)																
Component = E-W																
Date and Time = 1987/12/17, 11:08:26.00																
Sampling interval = 0.005(sec)																
Time Length = 60(s)																
050	3.32	1.66	0.1		1.78	8.1	0.1		1.56	5.0	0.1		1.41	3.6	0.1	
056	5.17	2.98	0.3		1.55	.99	0.1		1.49	5.0	0.1		1.44	.47	0.1	
063	2.77	1.77	0.4		2.24	.85	0.1		1.58	5.0	0.1		1.49	.51	0.1	
071	4.80	3.48	0.6		2.44	1.21	0.3		1.07	3.3	0.3		1.73	.74	0.3	
089	5.94	4.26	0.9		3.45	1.60	0.6		2.22	3.7	0.6		1.91	.04	0.6	
100	5.08	5.45	1.1		4.45	1.99	0.9		3.04	4.3	0.9		1.80	1.5	0.9	
125	8.53	9.80	1.9		6.10	3.92	1.7		4.39	6.1	1.7		2.09	3.3	1.7	
140	10.23	13.94	2.8		8.15	7.82	2.8		5.61	8.3	2.8		2.86	4.2	2.8	
158	16.06	23.57	4.0		13.71	12.44	4.0		9.96	12.0	4.0		3.50	5.5	4.0	
178	19.02	27.33	5.0		15.11	16.97	5.0		11.23	17.0	5.0		4.11	6.5	5.0	
200	27.07	38.22	7.0		24.63	29.32	7.0		18.00	24.8	7.0		6.09	9.3	7.0	
224	31.17	43.13	9.0		31.44	39.93	9.0		22.14	31.7	9.0		8.41	12.4	9.0	
280	55.20	77.02	15.0		44.53	63.95	15.0		33.27	48.7	15.0		12.09	19.3	15.0	
320	82.30	110.36	22.0		63.48	92.03	22.0		48.41	69.4	22.0		18.65	28.5	22.0	
400	127.70	179.81	35.0		97.11	139.77	35.0		71.21	104.5	35.0		28.97	44.1	35.0	
500	191.15	266.66	53.0		141.35	203.57	53.0		104.04	155.6	53.0		45.45	69.3	53.0	
550	217.70	301.66	60.0		163.58	230.37	60.0		119.54	177.7	60.0		53.88	81.1	60.0	
630	287.25	402.72	82.0		222.10	312.99	82.0		165.19	243.8	82.0		74.44	112.2	82.0	
710	385.00	538.66	110.0		308.22	427.77	110.0		230.33	324.9	110.0		100.91	150.3	110.0	
800	511.00	711.66	150.0		413.33	577.82	150.0		319.56	443.0	150.0		133.33	198.7	150.0	
900	680.00	950.00	200.0		550.00	770.00	200.0		433.33	600.0	200.0		180.00	270.0	200.0	
1000	900.00	1260.00	270.0		740.00	1030.00	270.0		599.99	839.99	270.0		249.99	374.99	270.0	
1250	1350.00	1890.00	405.0		1125.00	1575.00	405.0		875.00	1225.00	405.0		375.00	562.50	405.0	
1500	1800.00	2520.00	540.0		1500.00	2100.00	540.0		1125.00	1575.00	540.0		525.00	787.50	540.0	
1750	2250.00	3150.00	675.0		1875.00	2625.00	675.0		1406.25	1968.75	675.0		656.25	984.38	675.0	
2000	2700.00	3780.00	810.0		2250.00	3150.00	810.0		1750.00	2450.00	810.0		825.00	1237.50	810.0	
2250	3150.00	4425.00	945.0		2625.00	3675.00	945.0		2100.00	2925.00	945.0		1000.00	1500.00	945.0	
2500	3600.00	5040.00	1080.0		3000.00	4200.00	1080.0		2400.00	3360.00	1080.0		1200.00	1800.00	1080.0	
2750	4050.00	5670.00	1215.0		3375.00	4725.00	1215.0		2700.00	3780.00	1215.0		1350.00	2025.00	1215.0	
3000	4500.00	6300.00	1350.0		3750.00	5250.00	1350.0		3000.00	4200.00	1350.0		1500.00	2250.00	1350.0	
3250	4950.00	6930.00	1485.0		4125.00	5775.00	1485.0		3375.00	4725.00	1485.0		1650.00	2475.00	1485.0	
3500	5400.00	7560.00	1620.0		4500.00	6300.00	1620.0		3750.00	5250.00	1620.0		1800.00	2700.00	1620.0	
3750	5850.00	8190.00	1755.0		4875.00	6825.00	1755.0		4125.00	5775.00	1755.0		1950.00	2925.00	1755.0	
4000	6300.00	8820.00	1890.0		5250.00	7350.00	1890.0		4500.00	6300.00	1890.0		2100.00	3150.00	1890.0	
4250	6750.00	9450.00	2025.0		5625.00	7875.00	2025.0		4875.00	6825.00	2025.0		2250.00	3375.00	2025.0	
4500	7200.00	10080.00	2160.0		6000.00	8400.00	2160.0		5250.00	7350.00	2160.0		2400.00	3600.00	2160.0	
4750	7650.00	10710.00	2295.0		6375.00	8925.00	2295.0		5625.00	7875.00	2295.0		2550.00	3825.00	2295.0	
5000	8100.00	11340.00	2430.0		6750.00	9450.00	2430.0		6000.00	8400.00	2430.0		2700.00	4050.00	2430.0	
5250	8550.00	11970.00	2565.0		7125.00	9975.00	2565.0		6375.00	8925.00	2565.0		2850.00	4275.00	2565.0	
5500	9000.00	12600.00	2700.0		7500.00	10500.00	2700.0		6750.00	9450.00	2700.0		3000.00	4500.00	2700.0	
5750	9450.00	13230.00	2835.0		7875.00	11025.00	2835.0		7125.00	9975.00	2835.0		3150.00	4725.00	2835.0	
6000	9900.00	13860.00	2970.0		8250.00	11550.00	2970.0		7500.00	10500.00	2970.0		3300.00	4950.00	2970.0	
6250	10350.00	14490.00	3105.0		8625.00	12075.00	3105.0		7875.00	11025.00	3105.0		3450.00	5175.00	3105.0	
6500	10800.00	15120.00	3240.0		9000.00	12600.00	3240.0		8250.00	11550.00	3240.0		3600.00	5400.00	3240.0	
6750	11250.00	15750.00	3375.0		9375.00	13125.00	3375.0		8625.00	12075.00	3375.0		3750.00	5625.00	3375.0	
7000	11700.00	16380.00	3510.0		9750.00	13650.00	3510.0		9000.00	12600.00	3510.0		3900.00	5850.00	3510.0	
7250	12150.00	17010.00	3645.0		10125.00	14175.00	3645.0		9375.00	13125.00	3645.0		4050.00	6075.00	3645.0	
7500	12600.00	17640.00	3780.0		10500.00	14700.00	3780.0		9750.00	13650.00	3780.0		4200.00	6300.00	3780.0	
7750	13050.00	18270.00	3915.0		10875.00	15225.00	3915.0		10125.00	14175.00	3915.0		4350.00	6525.00	3915.0	
8000	13500.00	18900.00	4050.0		11250.00	15750.00	4050.0		10500.00	14700.00	4050.0		4500.00	6750.00	4050.0	
8250	13950.00	19530.00	4185.0		11625.00	16275.00	4185.0		10875.00	15225.00	4185.0		4650.00	6975.00	4185.0	
8500	14400.00	20160.00	4320.0		12000.00	16800.00	4320.0		11250.00	15750.00	4320.0		4800.00	7200.00	4320.0	
8750	14850.00	20790.00	4455.0		12375.00	17325.00	4455.0		11625.00	16275.00	4455.0		4950.00	7425.00	4455.0	
9000	15300.00	21420.00	4590.0		12750.00	17850.00	4590.0		12000.00	16800.00	4590.0		5100.00	7650.00	4590.0	
9250	15750.00	22050.00	4725.0		13125.00	18375.00	4725.0		12375.00	17325.00	4725.0		5250.00	7875.00	4725.0	
9500	16200.00	22680.00	4860.0		13500.00	18900.00	4860.0		12750.00	17850.00	4860.0		5400.00	8100.00	4860.0	
9750	16650.00	23310.00	4995.0		13875.00	19425.00	4995.0		13125.00	18375.00	4995.0		5550.00	8325.00	4995.0	
10000	17100.00	23940.00	5130.0		14250.00	19950.00	5130.0		13500.00	18900.00	5130.0		5700.00	8550.00	5130.0	
10250	17550.00	24570.00	5265.0		14625.00	20475.00	5265.0		13875.00	19425.00	5265.0		5850.00	8775.00	5265.0	
10500	18000.00	25200.00	5400.0		15000.00	21000.00	5400.0		14250.00	20475.00	5400.0		6000.00	9000.00	5400.0	
10750	18450.00	25830.00	5535.0		15375.00	21525.00	5535.0		14625.00	20950.00	5535.0		6150.00	9225.00	5535.0	
11000	18900.00	26460.00	5670.0		15750.00	22050.00	5670.0		15000.00	21950.00	5670.0		6300.00	9450.00	5670.0	
11250	19350.00	27090.00	5805.0		16125.00	22575.00	5805.0		15375.00	22500.00	5805.0		6450.00	9675.00	5805.0	
11500	19800.00	27720.00	5940.0		16500.00	23100.00	5940.0		15750.00	23025.00	5940.0		6600.00	9900.00	5940.0	
11750	20250.00	28350.00	6075.0		16875.00	23625.00	6075.0		16125.00	23550.00	6075.0		6750.00	10125.00	6075.0	
12000	20700.00	28980.00	6210.0		17250.00	24150.00	6210.0		16500.00	24075.00	6210.0		6900.00	10350.00	6210.0	
12250	21150.00	29610.00	6345.0		17625.00	24675.00	6345.0		16875.00	24600.00	6345.0		7050.00	10575.00	6345.0	
12500	21600.00	30240.00	6480.0		18000.00	25200.00	6480.0		17250.00	25125.00	6480.0		7200.00	10800.00	6480.0	
12750	22050.00	30870.00	6615.0		18375.00	25725.00	6615.0		17625.00	25650.00	6615.0		7350.00	11025.00	6615.0	
13000	22500.00	31500.00	6750.0		18750.00	26250.00	6750.0									

(2-6) CHY, UD-component

RESPONSE SPECTRUM

Station = CHY (Chyoshi) type = ACCELERATION (gal)																
Component = U-D Data																
Date and Time = 1987/12/17, 11:08:26.00																
Sampling interval = 0.005(sec)																
Time Length = 60(s)																
	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
PERIOD	ACCE.	VELO.	DISP.	ACCE.	VELO.	DISP.	ACCE.	VELO.	DISP.	ACCE.	VELO.	DISP.	ACCE.	VELO.	DISP.	
(sec)	(gal)	(cm/s)	(cm)	(gal)	(cm/s)	(cm)	(gal)	(cm/s)	(cm)	(gal)	(cm/s)	(cm)	(gal)	(cm/s)	(cm)	
0.050	3.46	2.24	0.02	2.07	1.05	0.01	2.07	1.05	0.01	2.07	1.05	0.01	2.07	1.05	0.01	
0.055	6.15	4.67	0.04	3.41	1.23	0.04	3.41	1.23	0.04	3.41	1.23	0.04	3.41	1.23	0.04	
0.063	11.32	10.00	0.10	5.35	2.08	0.08	5.35	2.08	0.08	5.35	2.08	0.08	5.35	2.08	0.08	
0.071	19.37	19.81	0.23	8.45	3.59	0.19	8.45	3.59	0.19	8.45	3.59	0.19	8.45	3.59	0.19	
0.080	35.19	35.16	0.49	11.99	5.45	0.38	11.99	5.45	0.38	11.99	5.45	0.38	11.99	5.45	0.38	
0.089	58.50	58.50	0.99	16.68	8.83	0.62	16.68	8.83	0.62	16.68	8.83	0.62	16.68	8.83	0.62	
0.100	88.31	88.31	1.55	22.35	10.83	1.10	22.35	10.83	1.10	22.35	10.83	1.10	22.35	10.83	1.10	
0.125	125.97	125.97	2.23	34.55	15.46	1.66	34.55	15.46	1.66	34.55	15.46	1.66	34.55	15.46	1.66	
0.140	141.41	141.41	3.00	44.36	20.36	2.38	44.36	20.36	2.38	44.36	20.36	2.38	44.36	20.36	2.38	
0.158	166.77	166.77	4.11	55.50	25.41	3.26	55.50	25.41	3.26	55.50	25.41	3.26	55.50	25.41	3.26	
0.178	205.02	205.02	5.55	68.22	30.88	4.44	68.22	30.88	4.44	68.22	30.88	4.44	68.22	30.88	4.44	
0.200	265.30	265.30	7.70	82.62	36.89	5.91	82.62	36.89	5.91	82.62	36.89	5.91	82.62	36.89	5.91	
0.224	350.55	350.55	10.32	100.68	43.46	7.70	100.68	43.46	7.70	100.68	43.46	7.70	100.68	43.46	7.70	
0.250	429.94	429.94	13.44	114.23	50.68	9.84	114.23	50.68	9.84	114.23	50.68	9.84	114.23	50.68	9.84	
0.280	506.71	506.71	17.69	130.97	58.59	12.38	130.97	58.59	12.38	130.97	58.59	12.38	130.97	58.59	12.38	
0.300	552.55	552.55	22.99	145.37	67.21	15.44	145.37	67.21	15.44	145.37	67.21	15.44	145.37	67.21	15.44	
0.320	571.13	571.13	28.44	159.99	76.64	19.10	159.99	76.64	19.10	159.99	76.64	19.10	159.99	76.64	19.10	
0.340	577.19	577.19	33.99	169.99	86.89	23.44	169.99	86.89	23.44	169.99	86.89	23.44	169.99	86.89	23.44	
0.360	560.30	560.30	39.99	163.68	97.99	28.44	163.68	97.99	28.44	163.68	97.99	28.44	163.68	97.99	28.44	
0.380	490.00	490.00	46.99	149.99	109.99	34.10	149.99	109.99	34.10	149.99	109.99	34.10	149.99	109.99	34.10	
0.400	420.00	420.00	54.99	129.99	119.99	40.55	129.99	119.99	40.55	129.99	119.99	40.55	129.99	119.99	40.55	
0.420	350.00	350.00	62.99	109.99	119.99	47.70	109.99	119.99	47.70	109.99	119.99	47.70	109.99	119.99	47.70	
0.440	280.00	280.00	70.99	89.99	109.99	55.55	89.99	109.99	55.55	89.99	109.99	55.55	89.99	109.99	55.55	
0.460	210.00	210.00	78.99	69.99	99.99	63.69	69.99	99.99	63.69	69.99	99.99	63.69	69.99	99.99	63.69	
0.480	140.00	140.00	86.99	49.99	89.99	71.69	49.99	89.99	71.69	49.99	89.99	71.69	49.99	89.99	71.69	
0.500	70.00	70.00	94.99	29.99	79.99	79.69	29.99	79.99	79.69	29.99	79.99	79.69	29.99	79.99	79.69	
0.520	0.00	0.00	102.99	9.99	69.99	69.69	9.99	69.99	69.69	9.99	69.99	69.69	9.99	69.99	69.69	
0.540	1.11	1.11	110.99	0.99	59.99	59.69	0.99	59.99	59.69	0.99	59.99	59.69	0.99	59.99	59.69	
0.560	1.11	1.11	118.99	0.99	49.99	49.69	0.99	49.99	49.69	0.99	49.99	49.69	0.99	49.99	49.69	
0.580	1.11	1.11	126.99	0.99	39.99	39.69	0.99	39.99	39.69	0.99	39.99	39.69	0.99	39.99	39.69	
0.600	1.11	1.11	134.99	0.99	29.99	29.69	0.99	29.99	29.69	0.99	29.99	29.69	0.99	29.99	29.69	
0.620	1.11	1.11	142.99	0.99	19.99	19.69	0.99	19.99	19.69	0.99	19.99	19.69	0.99	19.99	19.69	
0.640	1.11	1.11	150.99	0.99	9.99	9.69	0.99	9.99	9.69	0.99	9.99	9.69	0.99	9.99	9.69	
0.660	1.11	1.11	158.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.680	1.11	1.11	166.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.700	1.11	1.11	174.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.720	1.11	1.11	182.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.740	1.11	1.11	190.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.760	1.11	1.11	198.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.780	1.11	1.11	206.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.800	1.11	1.11	214.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.820	1.11	1.11	222.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.840	1.11	1.11	230.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.860	1.11	1.11	238.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.880	1.11	1.11	246.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.900	1.11	1.11	254.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.920	1.11	1.11	262.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.940	1.11	1.11	270.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.960	1.11	1.11	278.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
0.980	1.11	1.11	286.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.000	1.11	1.11	294.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.020	1.11	1.11	302.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.040	1.11	1.11	310.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.060	1.11	1.11	318.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.080	1.11	1.11	326.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.100	1.11	1.11	334.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.120	1.11	1.11	342.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.140	1.11	1.11	350.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.160	1.11	1.11	358.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.180	1.11	1.11	366.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.200	1.11	1.11	374.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.220	1.11	1.11	382.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.240	1.11	1.11	390.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.260	1.11	1.11	398.99	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	0.99	0.99	0.69	
1.280																

Station = KSR (Kisarazu)

Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17, 11:08:25.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

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RESPONSE SPECTRUM

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Station = KSR (Kisarazu)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:25.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

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PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)		ACCE. (gal)	VELO. (cm/s)	DISP. (cm)		ACCE. (gal)	VELO. (cm/s)	DISP. (cm)		ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	
0.050	2.084	3.714	0.050		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.063	1.262	3.644	0.093		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.071	1.262	3.644	0.110		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.089	1.262	3.644	0.130		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.100	1.262	3.644	0.143		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.112	1.262	3.644	0.155		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.125	1.262	3.644	0.167		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.140	1.262	3.644	0.180		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.158	1.262	3.644	0.193		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.178	1.262	3.644	0.206		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.200	1.262	3.644	0.220		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.224	1.262	3.644	0.233		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.250	1.262	3.644	0.247		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.280	1.262	3.644	0.260		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.300	1.262	3.644	0.273		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.320	1.262	3.644	0.286		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.340	1.262	3.644	0.299		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.360	1.262	3.644	0.312		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.380	1.262	3.644	0.325		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.400	1.262	3.644	0.338		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.427	1.262	3.644	0.351		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.447	1.262	3.644	0.364		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.460	1.262	3.644	0.377		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.477	1.262	3.644	0.390		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.500	1.262	3.644	0.403		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.530	1.262	3.644	0.416		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.560	1.262	3.644	0.429		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.600	1.262	3.644	0.442		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.630	1.262	3.644	0.455		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.700	1.262	3.644	0.468		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.800	1.262	3.644	0.481		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
0.900	1.262	3.644	0.494		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
1.000	1.262	3.644	0.507		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
1.100	1.262	3.644	0.520		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
1.250	1.262	3.644	0.533		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
1.450	1.262	3.644	0.546		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
1.600	1.262	3.644	0.559		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
1.800	1.262	3.644	0.572		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
2.000	1.262	3.644	0.585		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
2.250	1.262	3.644	0.598		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
2.500	1.262	3.644	0.611		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
2.800	1.262	3.644	0.624		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
3.000	1.262	3.644	0.637		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
3.250	1.262	3.644	0.650		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
3.500	1.262	3.644	0.663		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
3.800	1.262	3.644	0.676		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
4.000	1.262	3.644	0.689		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
4.250	1.262	3.644	0.702		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
4.500	1.262	3.644	0.715		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
4.800	1.262	3.644	0.728		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
5.000	1.262	3.644	0.741		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
5.250	1.262	3.644	0.754		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
5.500	1.262	3.644	0.767		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
5.800	1.262	3.644	0.780		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
6.000	1.262	3.644	0.793		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
6.250	1.262	3.644	0.806		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
6.500	1.262	3.644	0.819		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
6.800	1.262	3.644	0.832		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
7.000	1.262	3.644	0.845		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
7.250	1.262	3.644	0.858		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
7.500	1.262	3.644	0.871		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
7.800	1.262	3.644	0.884		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
8.000	1.262	3.644	0.897		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
8.250	1.262	3.644	0.910		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
8.500	1.262	3.644	0.923		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
8.800	1.262	3.644	0.936		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
9.000	1.262	3.644	0.949		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
9.250	1.262	3.644	0.962		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
9.500	1.262	3.644	0.975		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
9.800	1.262	3.644	0.988		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
10.000	1.262	3.644	1.001		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
10.250	1.262	3.644	1.014		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
10.500	1.262	3.644	1.027		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
10.800	1.262	3.644	1.040		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
11.000	1.262	3.644	1.053		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
11.250	1.262	3.644	1.066		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
11.500	1.262	3.644	1.079		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
11.800	1.262	3.644	1.092		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
12.000	1.262	3.644	1.105		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
12.250	1.262	3.644	1.118		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
12.500	1.262	3.644	1.131		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
12.800	1.262	3.644	1.144		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
13.000	1.262	3.644	1.157		1.111	3.456	0.043		1.231	5.238	0.034		1.111	3.456	0.034	
13.25																

(2-9) KSR, UD-component

RESPONSE SPECTRUM

Station = KSR (Kisarazu) Component = U-D Data type = ACCELERATION (gal) Date and Time = 1987/12/17, 11:08:25.00 Sampling interval = 0.005(sec) Time Length = 60(s)									
PERIOD (sec)	Damping = 0.00			Damping = 0.02			Damping = 0.05		
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
0.050	8.59	3.96	0.03	3.94	1.89	0.02	2.77	1.77	0.01
0.056	7.39	4.05	0.04	3.48	2.42	0.03	2.25	1.36	0.02
0.063	19.53	15.67	0.06	4.25	2.43	0.03	2.25	1.36	0.02
0.071	18.46	13.19	0.09	3.43	2.34	0.04	2.25	1.36	0.02
0.080	17.52	15.12	0.14	3.39	2.35	0.07	2.25	1.36	0.02
0.089	19.07	18.97	0.22	4.20	4.20	0.07	2.25	1.36	0.02
0.100	19.20	21.07	0.38	4.54	4.54	0.10	2.25	1.36	0.02
0.125	16.82	18.07	0.73	3.33	2.24	0.18	2.25	1.36	0.02
0.140	7.43	10.26	1.23	3.81	2.44	0.28	2.25	1.36	0.02
0.158	8.43	12.79	0.33	4.60	2.94	0.11	2.25	1.36	0.02
0.178	6.64	11.52	0.33	4.33	2.52	0.19	2.25	1.36	0.02
0.200	4.44	8.35	0.86	4.33	2.52	0.28	2.25	1.36	0.02
0.224	12.20	26.39	0.77	3.65	2.70	0.28	2.25	1.36	0.02
0.250	7.82	19.17	1.05	3.23	2.16	0.39	2.25	1.36	0.02
0.280	8.14	21.92	0.51	3.15	1.96	0.45	2.25	1.36	0.02
0.320	6.50	19.92	0.82	2.44	1.53	0.56	2.25	1.36	0.02
0.360	7.40	26.63	1.05	3.11	1.86	0.56	2.25	1.36	0.02
0.400	12.07	40.30	0.82	3.11	1.86	0.56	2.25	1.36	0.02
0.447	6.93	37.03	1.06	1.43	1.36	0.56	2.25	1.36	0.02
0.500	5.22	26.59	1.06	1.11	1.03	0.56	2.25	1.36	0.02
0.560	5.21	21.55	0.82	1.11	1.03	0.56	2.25	1.36	0.02
0.630	3.98	18.81	0.66	1.22	0.83	0.56	2.25	1.36	0.02
0.800	2.22	12.22	0.69	1.22	0.83	0.56	2.25	1.36	0.02
0.890	2.22	11.53	0.70	1.22	0.83	0.56	2.25	1.36	0.02
1.000	1.50	9.38	0.63	1.22	0.83	0.56	2.25	1.36	0.02
1.120	1.50	8.26	0.63	1.22	0.83	0.56	2.25	1.36	0.02
1.250	1.50	7.37	0.63	1.22	0.83	0.56	2.25	1.36	0.02
1.400	1.50	6.79	0.63	1.22	0.83	0.56	2.25	1.36	0.02
1.580	1.50	6.26	0.63	1.22	0.83	0.56	2.25	1.36	0.02
2.000	1.50	5.38	0.63	1.22	0.83	0.56	2.25	1.36	0.02
2.250	1.50	4.75	0.63	1.22	0.83	0.56	2.25	1.36	0.02
2.500	1.50	4.30	0.63	1.22	0.83	0.56	2.25	1.36	0.02
3.000	1.50	3.77	0.63	1.22	0.83	0.56	2.25	1.36	0.02
3.250	1.50	3.45	0.63	1.22	0.83	0.56	2.25	1.36	0.02
3.500	1.50	3.20	0.63	1.22	0.83	0.56	2.25	1.36	0.02
4.000	1.50	2.77	0.63	1.22	0.83	0.56	2.25	1.36	0.02
4.470	1.50	2.45	0.63	1.22	0.83	0.56	2.25	1.36	0.02
5.000	1.50	2.10	0.63	1.22	0.83	0.56	2.25	1.36	0.02
5.600	1.50	1.88	0.63	1.22	0.83	0.56	2.25	1.36	0.02
6.000	1.50	1.76	0.63	1.22	0.83	0.56	2.25	1.36	0.02
7.000	1.50	1.55	0.63	1.22	0.83	0.56	2.25	1.36	0.02
8.000	1.50	1.44	0.63	1.22	0.83	0.56	2.25	1.36	0.02
10.000	1.50	1.25	0.63	1.22	0.83	0.56	2.25	1.36	0.02
10.000	1.50	1.25	0.63	1.22	0.83	0.56	2.25	1.36	0.02

(2-10) IWM, NS-component

RESPONSE SPECTRUM

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
050	1.70	37	0.00	1.15	14	0.00	1.12	12	0.00	1.13	0	0.00	1.13	11	0.00	
056	1.44	78	0.01	1.36	26	0.01	1.12	27	0.01	1.11	11	0.01	1.11	19	0.01	
063	2.28	91	0.01	1.46	49	0.01	1.14	40	0.01	1.11	20	0.01	1.11	26	0.01	
080	4.81	30	0.03	1.46	59	0.02	1.30	39	0.02	1.11	39	0.02	1.11	37	0.02	
089	2.78	46	0.07	1.10	87	0.07	1.49	61	0.07	1.11	39	0.07	1.11	52	0.07	
100	7.14	28	0.10	3.39	53	0.05	1.23	72	0.05	1.11	53	0.05	1.11	69	0.05	
112	7.47	14	0.18	4.33	14	0.10	2.27	20	0.10	1.11	78	0.10	1.11	10	0.10	
125	10.91	8	0.34	3.39	51	0.16	2.27	20	0.16	1.11	47	0.16	1.11	31	0.16	
140	15.19	4	0.45	3.39	20	0.21	2.27	20	0.21	1.11	28	0.21	1.11	23	0.21	
158	7.46	15	0.59	3.39	10	0.27	2.27	20	0.27	1.11	18	0.27	1.11	10	0.27	
178	13.76	7	0.82	3.39	4	0.38	2.27	20	0.38	1.11	8	0.38	1.11	5	0.38	
200	15.84	4	1.19	3.39	2	0.51	2.27	20	0.51	1.11	4	0.51	1.11	2	0.51	
224	17.38	2	1.45	3.39	1	0.59	2.27	20	0.59	1.11	2	0.59	1.11	1	0.59	
250	17.79	1	0.38	3.39	0	0.77	2.27	20	0.77	1.11	0	0.77	1.11	0	0.77	
280	4.69	12	0.47	3.39	4	1.15	2.27	20	1.15	1.11	4	1.15	1.11	4	1.15	
320	4.38	9	0.77	3.39	7	1.21	2.27	20	1.21	1.11	7	1.21	1.11	7	1.21	
360	8.18	11	1.07	3.39	8	1.38	2.27	20	1.38	1.11	8	1.38	1.11	8	1.38	
400	3.69	11	1.10	3.39	8	1.49	2.27	20	1.49	1.11	8	1.49	1.11	8	1.49	
447	3.37	11	1.10	3.39	8	1.57	2.27	20	1.57	1.11	8	1.57	1.11	8	1.57	
500	3.05	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
560	3.36	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
630	3.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
710	3.23	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
800	3.11	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
890	1.04	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
1000	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
1120	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
1250	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
1400	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
1580	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
1780	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
2000	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
2400	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
2800	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
3200	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
3600	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
4000	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
4470	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
5000	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
5600	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
6300	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
7100	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
8000	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
8900	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	
10000	1.00	11	1.10	3.39	8	1.63	2.27	20	1.63	1.11	8	1.63	1.11	8	1.63	

(2-11) IWM, EW-component

RESPONSE SPECTRUM

Station = IWM (Iwainami)
 Component = E-W
 Date and Time = 1987/12/17, 11:08:27.00
 Sampling interval = 0.005(sec)
 Time Length = 60(s)

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
0.50	1.61	.30	0.00	1.12	.14	0.00	1.36	.13	0.00	1.20	.14	0.00	1.13	.13	0.00	0
0.55	2.62	.82	.01	1.30	.21	0.01	1.26	1.26	0.01	1.23	.19	0.01	1.13	.19	.01	0
0.63	3.43	1.07	.02	2.07	.46	.01	1.61	1.61	.01	1.44	.31	.01	1.23	.31	.01	0
0.71	4.50	1.37	.03	2.06	.66	.01	1.65	1.65	.01	1.46	.40	.02	1.44	.40	.02	0
0.80	4.79	1.25	.04	2.59	.85	.02	1.93	1.93	.02	1.65	.48	.03	1.65	.48	.03	0
0.89	4.44	1.28	.05	2.94	.80	.03	2.30	2.30	.03	1.93	.78	.04	2.22	.78	.04	0
1.00	4.44	1.36	.06	3.40	.85	.07	2.22	2.22	.07	2.22	.85	.08	2.22	.85	.08	0
1.12	4.68	1.45	.10	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.25	4.84	1.44	.13	3.80	.93	.18	2.22	2.22	.18	2.22	.93	.11	2.22	.93	.11	0
1.40	4.65	1.46	.14	3.80	.93	.17	2.22	2.22	.17	2.22	.93	.11	2.22	.93	.11	0
1.55	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.70	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.88	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.00	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.24	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.50	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.80	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
3.20	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
3.60	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
4.00	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
4.47	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
5.00	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
5.60	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
6.30	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
7.10	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
8.00	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
8.90	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.120	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.250	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.400	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.580	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
1.780	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
2.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
3.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
3.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
3.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
3.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
4.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
4.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
4.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
4.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
5.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
5.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
5.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
5.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
6.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
6.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
6.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
6.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
7.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
7.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
7.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
7.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
8.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
8.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
8.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
8.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
9.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
9.240	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
9.500	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
9.800	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0
10.000	4.39	1.46	.15	3.80	.93	.16	2.22	2.22	.16	2.22	.93	.11	2.22	.93	.11	0

(2-12) IWM, UD-component

RESPONSE SPECTRUM

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
0.050	1.45	2.98	0.00	1.23	14	0.00	1.12	1.0	0.00	1.09	1.0	0.00	1.09	1.0	0.00	
0.056	3.83	1.98	0.01	1.42	21	0.00	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.063	3.92	1.85	0.01	1.42	26	0.00	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.071	2.93	3.00	0.04	1.97	39	0.01	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.080	7.81	3.00	0.04	1.97	61	0.01	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.089	4.34	1.84	0.03	1.42	98	0.01	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.100	4.33	1.84	0.07	3.07	98	0.03	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.112	4.45	4.40	0.08	3.29	36	0.06	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.125	10.23	7.49	0.15	4.97	33	0.08	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.140	10.23	6.93	0.15	5.55	1	0.08	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.158	28.16	21.75	0.35	8.07	4	0.16	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.178	7.63	16.94	0.59	4.40	13	0.12	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.200	11.19	10.48	0.35	4.05	2	0.14	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.224	7.78	9.27	0.79	4.07	4	0.25	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.250	17.90	12.37	0.77	4.44	7	0.37	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.280	12.91	12.44	0.67	4.44	6	0.47	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.360	7.28	12.44	0.67	4.44	5	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.400	11.01	12.44	0.67	4.44	4	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.447	11.01	12.44	0.67	4.44	3	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.500	6.98	16.03	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.560	4.33	13.26	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.630	3.33	12.67	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.710	3.33	12.67	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.800	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
0.890	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
1.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
1.120	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
1.250	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
1.480	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
1.780	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
2.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
2.240	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
2.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
2.800	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
3.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
3.260	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
3.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
3.760	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
4.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
4.260	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
4.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
4.760	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
5.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
5.260	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
5.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
5.760	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
6.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
6.260	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
6.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
6.760	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
7.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
7.260	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
7.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
7.760	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
8.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
8.260	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
8.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
8.760	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
9.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
9.260	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
9.500	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
9.760	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	
10.000	1.56	15.74	0.24	3.22	1	0.54	1.12	1.1	0.00	1.16	1.1	0.00	1.16	1.1	0.00	

(2-13) CHK, NS-component

RESPONSE SPECTRUM

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
.050	3.57	1.00	.01	1.44	.29	0.00	1.20	.24	0.00	1.09	.19	0.00	1.09	.19	0.00	
.056	4.63	1.58	.01	1.03	.59	.01	1.30	.38	0.00	1.11	.23	0.00	1.11	.23	0.00	
.071	7.47	2.84	.03	1.22	.79	.01	1.40	.46	0.01	1.11	.33	.01	1.11	.33	0.01	
.080	6.46	3.26	.04	1.35	.79	.02	1.70	.65	.02	1.11	.37	.02	1.11	.37	.02	
.089	6.46	4.47	.07	1.22	.64	.03	1.87	.88	.03	1.11	.46	.03	1.11	.46	.03	
.100	8.09	4.93	.14	2.22	1.50	.04	1.87	1.08	.04	1.11	.50	.04	1.11	.50	.04	
.125	14.56	3.90	.07	2.22	2.57	.05	2.22	5.62	.05	1.11	.62	.05	1.11	.62	.05	
.140	8.73	3.81	.14	2.33	3.27	.05	2.22	3.15	.06	1.11	.63	.06	1.11	.63	.06	
.158	10.29	9.43	.22	2.33	4.30	.09	2.22	3.15	.10	1.11	.63	.10	1.11	.63	.10	
.200	19.77	9.09	.32	2.33	4.38	.16	2.22	3.15	.16	1.11	.63	.16	1.11	.63	.16	
.250	7.44	11.72	.54	2.33	4.38	.22	2.22	3.15	.22	1.11	.63	.22	1.11	.63	.22	
.280	10.85	14.09	.64	2.33	4.38	.27	2.22	3.15	.27	1.11	.63	.27	1.11	.63	.27	
.360	8.93	12.01	.48	2.33	4.38	.33	2.22	3.15	.33	1.11	.63	.33	1.11	.63	.33	
.447	3.62	28.42	.80	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
.500	10.85	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
.560	7.78	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
.630	4.32	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
.710	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
.800	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
.890	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
.900	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
1.120	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
1.400	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
1.780	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
2.000	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
2.400	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
2.800	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
3.200	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
3.600	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
4.000	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
4.400	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
4.800	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
5.200	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
5.600	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
6.000	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
6.400	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
6.800	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
7.200	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
7.600	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
8.000	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
8.400	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
8.800	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
9.200	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
9.600	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	
10.000	3.22	22.33	1.11	2.33	4.38	.60	2.22	3.15	.60	1.11	.63	.60	1.11	.63	.60	

(2-14) CHK, EW-component

RESPONSE SPECTRUM

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
0.050	2.7	1.56	0.12	1.38	0.27	0.00	1.28	0.19	0.00	1.13	0.13	0.00	1.13	0.13	0.00	
0.063	5.06	1.86	0.22	2.22	0.57	0.01	1.74	0.41	0.01	1.13	0.38	0.01	1.13	0.38	0.01	
0.071	3.4	1.55	0.03	2.22	0.69	0.01	1.74	0.41	0.01	1.13	0.38	0.01	1.13	0.38	0.01	
0.089	6.7	1.94	0.05	2.22	0.92	0.02	1.94	0.72	0.02	1.13	0.46	0.02	1.13	0.46	0.02	
0.100	4.1	1.23	0.08	2.22	0.92	0.03	2.22	0.92	0.03	1.13	0.61	0.03	1.13	0.61	0.03	
0.125	6.4	1.57	0.08	2.22	1.36	0.03	2.22	1.36	0.03	1.13	0.71	0.03	1.13	0.71	0.03	
0.140	4.5	1.66	0.11	2.22	1.40	0.04	2.22	1.40	0.04	1.13	0.83	0.04	1.13	0.83	0.04	
0.158	10.2	1.21	0.26	2.22	2.26	0.07	2.22	2.26	0.07	1.13	1.11	0.07	1.13	1.11	0.07	
0.178	10.2	1.57	0.32	2.22	2.67	0.14	2.22	2.67	0.14	1.13	1.67	0.14	1.13	1.67	0.14	
0.200	5.8	1.37	0.36	2.22	3.44	0.16	2.22	3.44	0.16	1.13	2.09	0.16	1.13	2.09	0.16	
0.224	11.7	1.42	0.73	2.22	4.03	0.16	2.22	4.03	0.16	1.13	2.09	0.16	1.13	2.09	0.16	
0.250	16.3	1.72	0.47	2.22	4.03	0.33	2.22	4.03	0.33	1.13	2.09	0.33	1.13	2.09	0.33	
0.280	16.3	1.43	0.57	2.22	4.03	0.43	2.22	4.03	0.43	1.13	2.09	0.43	1.13	2.09	0.43	
0.360	16.3	1.45	1.13	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
0.447	16.3	1.45	1.13	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
0.500	17.4	1.56	1.03	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
0.560	17.4	1.56	1.03	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
0.630	9.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
0.710	9.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
0.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
0.900	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
1.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
1.125	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
1.250	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
1.400	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
1.580	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
1.780	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
2.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
2.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
2.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
2.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
3.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
3.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
3.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
3.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
4.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
4.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
4.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
4.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
5.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
5.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
5.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
5.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
6.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
6.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
6.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
6.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
7.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
7.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
7.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
7.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
8.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
8.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
8.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
8.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
9.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
9.240	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
9.500	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
9.800	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	
10.000	3.3	1.55	0.90	2.22	5.91	0.91	2.22	5.91	0.91	1.13	2.09	0.91	1.13	2.09	0.91	

```

Station = CHK (Chikura)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17, 11:08:27.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

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(2-16) KTU, NS-component

RESPONSE SPECTRUM

Station = KTU (Katsura)
 Component = N-S Data type = ACCELERATION (gal)
 Date and Time = 1987/12/17, 11:08:22.00
 Sampling interval = 0.005(sec)
 Time Length = 60(s)

PERIOD (sec)	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
0.050	1.76	2.27	0.23	1.20	0.76	0.02	1.09	0.56	0.01	0.06	0.44	0.01
0.056	1.84	2.28	0.04	1.20	0.92	0.02	1.05	0.56	0.02	1.04	0.45	0.02
0.063	1.59	2.28	0.07	1.16	0.92	0.03	1.05	0.45	0.03	1.04	0.60	0.03
0.071	2.22	2.28	0.09	1.11	0.96	0.04	1.09	1.22	0.04	1.04	1.10	0.04
0.080	2.22	2.28	0.10	1.11	0.96	0.06	1.09	1.22	0.06	1.04	1.54	0.06
0.089	3.20	2.28	0.14	1.33	0.96	0.08	1.10	2.47	0.07	1.10	1.56	0.09
0.100	2.22	2.28	0.15	1.11	0.96	0.11	1.10	2.47	0.11	1.10	1.56	0.11
0.112	2.22	2.28	0.17	1.11	0.96	0.17	1.10	2.47	0.17	1.10	1.56	0.17
0.125	2.22	2.28	0.17	1.11	0.96	0.17	1.10	2.47	0.17	1.10	1.56	0.17
0.140	2.22	2.28	0.35	1.11	0.96	0.35	1.10	2.47	0.35	1.10	1.56	0.35
0.158	3.20	2.28	0.45	1.11	0.96	0.45	1.10	2.47	0.45	1.10	1.56	0.45
0.178	3.20	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.204	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.224	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.250	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.280	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.360	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.447	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.500	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.560	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.630	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.710	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
0.890	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
1.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
1.120	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
1.250	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
1.380	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
1.500	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
1.680	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
1.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
2.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
2.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
2.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
2.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
2.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
3.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
3.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
3.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
3.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
3.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
4.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
4.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
4.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
4.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
4.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
5.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
5.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
5.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
5.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
5.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
6.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
6.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
6.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
6.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
6.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
7.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
7.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
7.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
7.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
7.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
8.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
8.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
8.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
8.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
8.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
9.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
9.200	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
9.400	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
9.600	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
9.800	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58
10.000	2.22	2.28	0.58	1.11	0.96	0.58	1.10	2.47	0.58	1.10	1.56	0.58

(2-17) KTU, EW-component

RESPONSE SPECTRUM

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
0.050	1.97	2.42	0.02	1.11	.94	0.1	1.05	89	0.1	1.05	69	0.1	1.05	69	0.1	1
0.056	4.56	7.10	.07	1.51	2.25	.03	1.14	.22	.02	1.06	.09	.02	1.06	.88	.02	1
0.071	4.22	8.58	.09	1.54	2.44	.04	1.13	.30	.00	1.19	.09	.00	1.19	.09	.00	1
0.089	2.20	4.68	.10	1.36	2.10	.04	1.11	.27	.05	1.24	.55	.05	1.24	.55	.05	1
0.100	4.19	11.81	.18	1.44	3.16	.09	1.11	.49	.07	1.34	.60	.07	1.34	.60	.07	1
0.125	3.28	10.91	.20	1.47	3.10	.09	1.11	.22	.08	1.25	.29	.09	1.25	.29	.09	1
0.140	3.57	12.06	.26	1.18	4.19	.14	1.11	.36	.09	1.29	.40	.10	1.29	.40	.10	1
0.158	3.77	17.68	.45	1.47	7.16	.19	1.11	.43	.14	1.39	.66	.17	1.39	.66	.17	1
0.200	3.71	14.29	.64	1.37	6.96	.21	1.11	.47	.17	1.43	.88	.22	1.43	.88	.22	1
0.250	3.77	18.71	.64	1.86	4.63	.35	1.11	.77	.21	1.99	.60	.24	1.99	.60	.24	1
0.280	3.06	21.50	.92	2.22	8.57	.66	1.11	.99	.28	2.31	.86	.34	2.31	.86	.34	1
0.300	4.31	24.44	1.56	2.23	13.59	1.53	1.11	.99	.48	2.31	.86	.34	2.31	.86	.34	1
0.360	6.06	40.87	3.44	3.23	29.87	3.27	2.22	.74	.69	3.19	.60	.48	3.19	.60	.48	1
0.447	6.44	67.53	7.79	4.22	45.80	5.32	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
0.500	3.22	48.18	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
0.630	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
0.710	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
0.890	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
1.120	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
1.250	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
1.480	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
1.780	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
2.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
2.250	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
2.500	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
2.800	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
3.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
3.600	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
4.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
4.470	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
5.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
5.600	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
6.300	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
7.100	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
8.900	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
10.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
11.250	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
12.500	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
14.800	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
17.800	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
20.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
22.500	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
25.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
28.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
3.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
3.600	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
4.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
4.470	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
5.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
5.600	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
6.300	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
7.100	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
8.900	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
10.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
11.250	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
12.500	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
14.800	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
17.800	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
20.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
22.500	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
25.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
28.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
3.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
3.600	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
4.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
4.470	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
5.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
5.600	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
6.300	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
7.100	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
8.900	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
10.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
11.250	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
12.500	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
14.800	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
17.800	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
20.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
22.500	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
25.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
28.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85	.86	3.22	.85	.69	3.22	.85	.69	1
3.000	3.22	50.90	4.66	3.22	32.91	3.30	2.22	.85</								

RESPONSE SPECTRUM

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Station = KTU (Katsuura)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17, 11:08:22.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

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PERIOD (sec)	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
0.050	12.56	4.33	1.16	3.95	0.48	0.35	5.12	0.33	9.61	1.15	6.15	0.25
0.063	10.12	3.33	1.16	3.26	4.44	0.00	4.15	0.00	1.77	1.93	2.57	0.03
0.071	12.56	4.33	1.14	3.26	4.44	0.00	4.15	0.00	1.77	1.93	2.57	0.03
0.080	11.17	3.99	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.099	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.100	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.125	11.17	3.99	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.157	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.178	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.200	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.225	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.250	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.320	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.360	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.447	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.560	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.700	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
0.890	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
1.250	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
1.500	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
1.780	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
2.240	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
2.500	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
3.000	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
3.470	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
4.000	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
4.500	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
5.000	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
5.300	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
6.000	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04
7.800	12.56	4.33	1.14	3.05	4.44	0.00	3.81	0.00	1.51	1.82	2.34	0.04

(2-19) ICH, NS-component

RESPONSE SPECTRUM

Station = ICH (Nippon-Gousei-Gomu)
 Component = N-S Data type = ACCELERATION (gal)
 Date and Time = 1987/12/17, 11:08
 Sampling interval = 0.01(sec)
 Time Length = 60(s)

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
0.50	1.07	54	0.1	1.03	48	0.1	1.01	47	0.1	1.01	44	0.1	1.01	44	0.1	1
0.56	1.35	225	0.02	1.23	80	0.02	1.17	73	0.02	1.13	62	0.02	1.07	62	0.02	1
0.71	1.42	15	0.04	1.11	29	0.03	1.04	29	0.03	1.01	29	0.03	1.01	29	0.03	1
0.89	1.43	20	0.04	1.11	38	0.03	1.04	38	0.03	1.01	38	0.03	1.01	38	0.03	1
1.00	1.60	77	0.06	1.11	46	0.05	1.04	46	0.05	1.01	46	0.05	1.01	46	0.05	1
1.12	1.60	79	0.16	1.11	50	0.07	1.04	50	0.09	1.01	50	0.09	1.01	50	0.09	1
1.40	3.83	49	0.30	1.78	27	0.15	1.24	27	0.24	1.22	27	0.24	1.22	27	0.24	1
1.58	3.83	18	0.33	1.86	27	0.28	1.47	27	0.44	1.44	27	0.44	1.44	27	0.44	1
1.78	4.14	9	0.65	2.43	25	0.57	2.05	25	0.62	2.05	25	0.62	2.05	25	0.62	1
2.24	9.80	57	1.91	3.33	19	0.75	2.82	19	0.82	2.82	19	0.82	2.82	19	0.82	1
2.50	8.09	76	1.95	3.01	26	0.98	2.55	26	0.62	2.55	26	0.62	2.55	26	0.62	1
2.80	6.82	17	1.80	2.62	34	1.17	2.23	34	0.74	2.23	34	0.74	2.23	34	0.74	1
3.20	14.24	141	3.27	2.22	63	1.67	1.92	63	1.27	1.92	63	1.27	1.92	63	1.27	1
3.60	4.64	57	2.69	2.22	32	1.70	2.22	32	1.44	2.22	32	1.44	2.22	32	1.44	1
4.00	4.36	87	2.69	2.22	32	1.92	2.22	32	1.72	2.22	32	1.72	2.22	32	1.72	1
4.47	3.89	91	3.32	2.22	32	2.02	2.22	32	1.89	2.22	32	1.89	2.22	32	1.89	1
5.00	3.54	68	2.22	2.22	32	2.37	2.22	32	2.37	2.22	32	2.37	2.22	32	2.37	1
5.60	4.04	59	2.49	2.22	32	2.44	2.22	32	2.44	2.22	32	2.44	2.22	32	2.44	1
7.10	1.39	37	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
8.00	2.22	48	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
1.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
1.250	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
1.400	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
1.780	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
2.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
2.500	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
3.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
4.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
5.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
6.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
7.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
8.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1
10.000	1.22	33	1.64	1.27	42	4.47	1.27	42	1.64	1.27	42	1.64	1.27	42	1.64	1

(2-20) ICH, EW-component

RESPONSE SPECTRUM

PERIOD (sec)	Damping = 0.00				Damping = 0.02				Damping = 0.05				Damping = 0.10			
	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	END
0.050	1.05	49	0.01	1.01	45	0.01	1.07	41	0.01	1.01	39	0.01	1.02	39	0.01	
0.056	1.11	688	0.02	1.10	65	0.02	1.10	59	0.02	1.10	55	0.02	1.10	53	0.02	
0.063	1.11	337	0.05	1.11	91	0.03	1.11	20	0.03	1.11	12	0.03	1.11	9	0.03	
0.080	1.21	399	0.06	1.11	57	0.04	1.11	80	0.04	1.11	41	0.04	1.11	33	0.04	
0.100	1.33	383	0.14	1.22	66	0.08	1.11	63	0.07	1.11	35	0.05	1.11	27	0.06	
0.125	4.26	03	0.28	2.22	11	0.11	1.41	1	0.10	1.35	1	0.10	1.35	1	0.10	
0.140	11.13	199	0.58	5.47	24	0.18	3.33	98	0.16	3.33	84	0.16	2.22	84	0.16	
0.158	12.64	140	0.68	6.54	27	0.44	3.44	42	0.36	3.44	43	0.36	2.22	40	0.36	
0.178	13.21	53	0.76	6.53	24	0.89	3.44	33	0.77	3.44	33	0.77	2.22	33	0.77	
0.200	11.49	53	0.93	5.33	30	1.19	3.33	33	0.94	3.33	33	0.94	2.22	33	0.94	
0.224	11.38	59	1.37	5.33	35	1.52	3.33	40	1.10	3.33	40	1.10	2.22	33	1.10	
0.250	11.87	41	1.93	4.22	40	2.24	2.22	47	1.36	2.22	47	1.36	2.22	47	1.36	
0.300	7.47	32	2.59	3.33	36	3.33	2.22	57	1.54	2.22	57	1.54	2.22	57	1.54	
0.400	4.47	26	3.65	2.22	29	4.47	1.66	72	1.87	1.66	72	1.87	1.66	72	1.87	
0.500	1.45	15	5.64	1.66	22	6.41	1.22	104	2.27	1.22	104	2.27	1.22	104	2.27	
0.630	1.56	8	8.22	1.44	16	10.41	1.11	157	2.44	1.11	157	2.44	1.11	157	2.44	
0.800	1.37	3	9.92	1.11	11	15.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
0.900	1.32	3	10.27	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
1.000	1.29	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
1.100	1.28	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
1.200	1.27	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
1.400	1.22	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
1.500	1.21	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
1.600	1.20	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
1.800	1.18	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
2.000	1.16	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
2.200	1.15	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
2.400	1.14	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
2.600	1.13	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
2.800	1.12	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
3.000	1.11	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
3.200	1.10	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
3.400	1.09	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
3.600	1.08	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
3.800	1.07	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
4.000	1.06	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
4.200	1.05	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
4.400	1.04	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
4.600	1.03	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
4.800	1.02	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
5.000	1.01	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
5.200	1.00	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
5.400	0.99	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
5.600	0.98	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
5.800	0.97	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
6.000	0.96	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
6.200	0.95	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
6.400	0.94	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
6.600	0.93	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
6.800	0.92	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
7.000	0.91	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
7.200	0.90	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
7.400	0.89	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
7.600	0.88	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
7.800	0.87	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
8.000	0.86	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
8.200	0.85	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
8.400	0.84	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
8.600	0.83	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
8.800	0.82	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
9.000	0.81	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
9.200	0.80	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
9.400	0.79	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
9.600	0.78	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
9.800	0.77	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	
10.000	0.76	3	10.43	1.11	11	16.41	1.11	182	2.66	1.11	182	2.66	1.11	182	2.66	

(2-21) ICH, UD-component

RESPONSE SPECTRUM

Station = ICH (Nippon-Gousei-Gomu)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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Table 3. Digitized data. The station code is ICH (Nihon Gosei Gomu) and the accelerometer is SMAC-B₂.

(3-1) NS-component

Station = ICH (Nihon-Gousei-Gomu)													Station = ICH (Nihon-Gousei-Gomu)													
Component = N-S													Component = N-S													
Date and Time = 1987/12/17,11:08													Date and Time = 1987/12/17,11:08													
Total number of data = 5357													Total number of data = 5357													
Sampling interval = 0.01(sec)													Sampling interval = 0.01(sec)													
Scale = 0.01(gal)													Scale = 0.01(gal)													
NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
0	54	53	53	53	53	52	52	51	97	98			570	-823	-1381	-1972	-2435	-2883	-3105	-3282	-3343	-3337	-3196			
10	72	48	45	38	45	3	2	98	238	187			580	-3036	-2787	-2655	-2474	-2109	-1973	-1967	-2103	-2279	-2265			
20	75	13	119	197	205	167	45	-118	-153	-38			590	-2123	-1693	-1136	-384	-1596	-1095	-327	-4025	-5157	-6221	-6948		
30	103	208	221	146	77	91	203	226	151	109			600	7194	7360	7242	6721	5680	4406	3430	2074	999	266			
40	90	50	-30	-178	-297	-174	-29	118	389	496			610	-1284	-2618	-3504	-3874	-4269	-4875	-5018	-5001	-4511	-3854			
50	466	432	404	408	305	119	-16	-191	-323	-280			620	-3321	-1729	18	939	1821	2673	3054	3177	2495	1456			
60	-214	-162	-34	150	228	134	-34	-95	-106	97			630	630	345	-979	-1983	-4087	-4468	-4753	-4573	-4032	-2769			
70	-45	69	182	211	303	395	492	512	307	285			640	-1481	-825	-281	176	35	-423	-677	-1281	-1518	-1832			
80	164	206	161	-55	-47	-74	-179	-318	-326	348			650	-1868	-1453	-975	-364	-322	63	393	788	899	858			
90	-233	-25	230	387	521	606	572	434	317	308			660	703	417	162	-115	-1063	-1479	-1812	-2272	-2611	-2493			
100	100	-3	-213	-384	-417	-407	-312	-266	-126	82			670	-2176	-2159	-1898	-1593	-900	-897	57	943	2343	3510			
110	140	259	392	422	418	395	323	232	196	82			680	4308	5155	5250	5076	4739	4377	3771	3150	2561	1832			
120	28	86	187	262	279	285	301	298	179	12			690	1433	1167	940	773	628	606	947	1270	2143	2849			
130	-57	-29	74	208	243	250	316	291	213	68			700	3428	4041	4689	5165	4968	4446	3304	2455	1503	635			
140	-74	-175	-238	-207	-152	-7	284	596	771	798			710	225	528	1223	2224	2886	3439	4472	5165	5587	5910			
150	755	690	632	554	454	345	134	-148	-230	735			720	5726	4668	3303	2384	1291	-68	-2059	-3539	-3963	-4777			
160	-171	-125	-92	-107	-21	121	363	609	780	735			730	7229	7525	7634	7033	6247	5381	4340	3179	2317	1703			
170	654	623	594	535	404	154	-369	-924	-1217	-1419			740	1780	3061	3619	4508	5688	6076	6221	5802	5003	4048			
180	-1319	-1126	-859	-329	-293	-10	308	681	897	1097			750	2467	1919	1509	874	470	431	948	1711	1908	1927			
190	1183	1214	1224	1222	1179	725	708	422	59	-121			760	2035	2131	2216	1985	1419	629	-3	-2377	-6390	-8120			
200	-422	-742	-986	-1181	-1298	-1365	-1431	-1304	-1154	-957			770	-10080	-12639	-13787	-14723	-13957	-13118	-12143	-10811	-8486	-5729			
210	-711	-483	-239	212	302	450	674	855	1003	1242			780	-3042	-786	469	847	1218	1736	2282	3025	4457	6111			
220	1503	1684	1799	1850	1842	1816	1673	1311	875	509			790	6385	8243	8973	9699	10034	10073	9716	8728	7479	5810			
230	250	-140	-898	-1487	-1854	-2263	-2412	-2380	-2230	-2111			800	4055	829	-263	-1153	-1165	-26	1571	5605	8101	10790			
240	-1876	-1486	-400	784	1337	1710	1904	2033	2075	1898			810	11518	11968	11968	11096	9356	6785	3334	-1476	-6755	-9356			
250	1589	1312	1091	936	764	659	513	341	65	2			820	-10287	-9699	-8182	-6593	-2195	2150	5350	5960	5661	3926			
260	-340	-625	-779	-1072	-1276	-1557	-1803	-1637	-1315	-1054			830	318	-3554	-5338	-9142	-12942	-16155	-17258	-18929	-19608	-19450			
270	-875	-521	-248	93	378	584	782	972	1004	998			840	18581	-16705	-12336	-7244	-2006	2796	6584	8688	9332	9382			
280	1013	1138	1308	1559	1589	1291	1110	824	769	482			850	9233	9356	9727	10129	10588	10588	9813	8426	6554	4272			
290	160	-312	-577	-565	-543	-529	-568	-619	-622	-533			860	1521	-415	-2968	-4020	-4589	-4869	-4400	-3993	-2751	-1356			
300	-354	-67	95	223	315	322	277	184	-20	-255			870	-466	-154	-469	-1431	-2857	-3904	-4738	-5719	-7149	-7543			
310	-613	-645	-471	-260	101	467	763	1127	1437	1577			880	-795	-7909	-8012	-6571	-6944	-5941	-4371	-2967	-1237	1412			
320	1664	1532	1260	756	270	-346	-1067	-1431	-1375	-2130			890	3753	5422	6322	6439	5742	3831	1793	401	-358	-499			
330	-2883	-2370	-2350	-2055	-1898	-1796	-1485	-1174	-867	-237			900	326	1114	2978	5946	8495	9310	9784	9803	9043	8230			
340	843	1749	2523	3025	3163	3257	2732	2343	1838	755			910	7752	7531	7206	6931	5920	5259	4863	4283	3207	1915			
350	-63	-803	-1506	-1954	-1926	-1954	-1852	-1555	-1329	-1286			920	1226	172	-60	-2326	-4139	-4954	-5659	-5952	-6279	-6529			
360	-1041	-833	-701	-375	-124	22	-109	-135	-114	156			930	4996	-3758	-3342	-3452	-3728	-3806	-3887	-3679	-2850	-1170			
370	277	659	1065	1083	1300	1291	1278	1184	981	847			940	8080	9677	10236	10497	10049	9287	8497	7858	7370	6983			
380	506	401	383	62	-249	-213	-232	-16	14	75			950	5453	5341	3555	1945	-1622	-4906	-11192	-11968	-12790	-16872			
390	154	303	621	629	497	426	366	351	338	236			960	-17412	-17261	-15903	-13520	-10476	-7091	-3682	-568	1932	3498			
400	137	84	70	73	142	359	398	432	434	389			970	3775	3316	2543	1796	1341	1338	1531	1443	1001	215			
410	270	95	-256	-611	-783	-925	-869	-718	-680	-549			980	1020	-634	-1897	-3901	-4897	-6276	-7111	-7018	-6759	-6401	-5434		
420	-307	-5	121	209	286	274	215	132	83	130			990	4496	-4964	-4760	-4466	-3947	-3452	-3728	-3806	-3887	-2850	-1170		
430	181	159	47	-208	-463	-551	-529	-462	-375	-353			1000	1030	896	1726	4298	5400	6750	7000	7702	8632	9188	9557		
440	-312	-193	-132	-235	-415	-418	-294	-220	79	489			1010	9697	9520	9033	8275	7022	4887	2886	1636	472	-115			
450	633	764	943	1041	946	581	234	-229	-572	-941			1020	-462	-561	-961	-1130	-1321	-2047	-2763	-3120	-3273	-2684			
460	-1367	-1657	-1743	-1719	-1533	-1406	-1141	-817	-333	136			1030	-2885	-2149	-391	1120	1982	2308	3100	3571	4159	4245			
470	604	1020	1244	1270	896	455	124	-249	-360	-190			1040	4504	4760	4466	3947	2757	2757	2757	172	138	-610	-1753		
480	-172	-30	169	321	249	-71	127	-505	-1060	-1501			1050	1090	2928	-2935	-4536	-5338	-7760	-7850	-8409	-8771	-8614			
490	-1723	-1797	-1587	-1647	-1457	-1282	-818	-609	-238	-151			1060	1100	7978	-6955	-5657	-4098	-1585	993	5353	4957	8260	8799		
500	24	263	484	741	882	508	751	682	405	287			1110	9588	9809	8986	7709	6484	5120	2486	1470	4281	5149			
510	257	74	-78	-287	-473	-908	-685	-744	-816	-857			1120	-1799	-6566	-6252	-6077	-5753	-5531	-4819	-4293	-4497	-5026			
520	-857	-863	-775	-558	-194	347	768	883	885	787			1130	-1130	-5451	-5631	-5317	-4889	-4441	-3951	-3486	-2931	-502			
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Station = ICH (Nippon-Gousei-Gomu)
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Station = ICH (Nippon-Gousei-Gomu)
Component = N-S

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2940	233	211	81	-49	-203	-216	-277	-368	-440	-446
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Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

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Station = ICH (Nippon-Gousei-Gomu)
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Station = ICH (Nippon-Gousei-Gomu)
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
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3710	579	484	439	391	378	392	432	495	586	661	4320	-1368	-1393	-1546	-1647	-1744	-1876	-1894	-1894	-1897
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3740	1090	1153	1311	1597	1767	1857	1949	2003	1966	1837	4350	270	361	505	618	686	727	717	701	689
3750	1698	1650	1644	1540	1289	1008	685	410	181	-2	4360	617	586	503	448	371	299	241	124	109
3760	-202	-413	-470	-465	-692	-903	-988	-1061	-1156	-1216	4370	25	35	135	238	326	391	443	516	623
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3840	701	694	661	639	565	552	440	315	140	-49	4450	-704	-533	-340	-152	34	203	270	280	347
3850	-177	-292	-387	-526	-565	-572	-542	-472	-367	-271	4460	394	394	371	353	334	329	227	166	111
3860	-217	-206	-184	-152	-119	-94	-86	-116	-241	-378	4470	64	66	48	31	64	114	125	153	204
3870	-463	-521	-585	-633	-648	-565	-399	-160	129	324	4480	362	420	457	498	519	523	515	503	465
3880	484	641	822	962	1029	1112	1152	1155	1151	1135	4490	394	354	317	284	269	240	216	199	190
3890	1089	1024	923	833	756	559	437	337	273	185	4500	180	155	142	160	233	291	312	381	434
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3910	95	191	249	284	302	300	295	279	245	210	4520	-159	-283	-406	-494	-693	-699	-710	-753	-701
3920	172	142	54	-26	-118	-121	-416	-486	-726	-839	4530	-563	-510	-470	-476	-556	-556	-664	-707	-722
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3940	-1073	-998	-972	-965	-937	-881	-835	-762	-750	-658	4550	-42	86	144	280	334	404	506	580	582
3950	-616	-302	-355	-258	-127	-29	87	220	394	542	4560	428	327	287	283	255	217	151	71	-51
3960	611	659	708	773	830	855	823	768	760	775	4570	-137	-250	-345	-450	-512	-509	-525	-574	-598
3970	721	632	569	526	431	198	39	40	-33	-168	4580	-727	-722	-723	-751	-792	-808	-863	-928	-1034
3980	-295	-410	-544	-696	-732	-734	-750	-777	-779	-776	4590	-1108	-1121	-1117	-1120	-1069	-922	-833	-755	-664
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4000	215	464	769	1096	1289	1422	1573	1507	1406	1400	4610	123	131	141	139	180	214	215	171	120
4010	1310	1229	1159	1065	1043	996	942	920	1003	1070	4620	101	102	138	239	350	381	373	382	468
4020	1073	1072	1077	1083	1083	1026	907	822	630	590	4630	654	707	740	807	891	955	969	994	1041
4030	596	372	341	290	269	252	230	182	159	126	4640	1152	1217	1294	1345	1365	1358	1373	1413	1440
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4050	71	188	300	397	411	351	285	167	65	-66	4660	-762	-1015	-1150	-1105	-1127	-1166	-1292	-1516	-1589
4060	-267	-403	-441	-436	-458	-530	-597	-736	-878	-957	4670	-1738	-1711	-1594	-1495	-1362	-1260	-1073	-994	-892
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4080	-514	-451	-273	-158	-119	-115	-59	62	159	211	4690	-100	-61	-34	-25	24	40	31	28	68
4090	223	257	274	283	286	284	279	198	-24	-141	4700	-42	-104	-116	-116	-122	-128	-129	-135	-160
4100	-286	-560	-760	-945	-1073	-1156	-1200	-1246	-1251	-1217	4710	-204	-215	-217	-216	-169	-135	-134	-139	-116
4110	-1189	-1039	-1036	-855	-766	-609	-595	-462	-364	-256	4720	25	64	65	82	102	169	223	252	313
4120	-61	30	29	154	314	340	411	462	573	698	4730	355	379	395	372	344	351	381	412	439
4130	855	877	872	877	960	1140	1274	1331	1337	1385	4740	511	509	513	517	524	533	509	442	372
4140	1537	1589	1608	1610	1618	1495	1308	1065	804	731	4750	180	87	74	15	-32	-57	-80	-81	-102
4150	685	480	263	115	63	41	-1	-114	-302	-436	4760	-219	-244	-236	-346	-381	-418	-445	-458	-456
4160	-460	-537	-619	-610	-611	-610	-553	-494	-505	-497	4770	-426	-386	-364	-359	-342	-337	-328	-310	-272
4170	-481	-475	-479	-479	-533	-650	-706	-778	-813	-889	4780	-229	-216	-149	-88	-56	-20	9	70	226
4180	-1077	-1197	-1367	-1538	-1633	-1650	-1594	-1545	-1492	-1401	4790	320	352	329	231	160	86	35	-1	-8
4190	-1280	-1042	-797	-539	-274	-18	210	368	469	660	4800	-39	-43	-39	-10	20	54	81	112	135
4200	681	770	944	937	964	957	1003	1026	1027	1050	4810	172	203	225	241	252	266	299	316	312
4210	1081	1119	1147	1173	1276	1279	1261	1204	1196	1144	4820	304	289	259	240	210	154	113	61	-51
4220	1293	1325	1365	1375	1322	1108	1017	813	472	228	4830	-153	-222	-233	-340	-393	-502	-654	-687	-689

Station = ICH (Nippon-Gousei-Gomu)
Component = N-S

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4850	-859	-859	-852	-837	-836	-836	-838	-844	-850	-867
4860	-887	-909	-926	-943	-958	-947	-899	-846	-674	-467
4870	-296	-146	-141	51	132	305	392	490	626	724
4880	803	940	980	1000	1000	1000	1000	998	983	980
4890	976	973	961	895	848	833	829	825	843	930
4900	1033	1070	1087	1098	1117	1126	1043	983	878	828
4910	726	608	538	529	450	370	294	142	36	-46
4920	-152	-178	-294	-463	-570	-639	-688	-732	-748	-702
4930	-582	-499	-456	-402	-377	-379	-379	-379	-363	-319
4940	-288	-268	-279	-361	-425	-510	-561	-591	-609	-639
4950	-647	-655	-632	-560	-543	-496	-431	-378	-319	-241
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4970	767	951	1053	1068	1070	1069	1060	999	772	646
4980	489	381	370	298	182	103	16	-43	-45	-194
4990	-289	-338	-455	-529	-577	-613	-661	-784	-843	-882
5000	-880	-833	-809	-818	-877	-914	-917	-920	-937	-905
5010	-829	-755	-733	-742	-706	-655	-637	-626	-541	-353
5020	-224	-228	-155	-41	20	115	230	337	453	586
5030	681	754	826	910	983	993	1012	1015	959	826
5040	735	665	582	536	462	372	287	212	130	53
5050	-23	-47	67	95	142	197	202	225	231	291
5060	301	314	315	320	331	323	228	79	-113	-205
5070	-303	-309	-422	-481	-576	-641	-533	-479	-323	-111
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5090	577	583	554	512	449	383	347	330	328	315
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5120	-227	-328	-350	-383	-441	-525	-596	-608	-644	-696
5130	-716	-714	-713	-708	-695	-672	-652	-635	-634	-645
5140	-662	-679	-688	-691	-696	-707	-713	-716	-711	-701
5150	-677	-650	-622	-577	-533	-495	-470	-445	-382	-382
5160	-376	-348	-313	-308	-290	-267	-220	-140	-84	-4
5170	41	74	89	108	154	206	256	271	281	283
5180	283	291	302	303	301	300	299	298	298	296
5190	296	296	296	296	296	296	295	294	294	294
5200	296	306	324	348	372	389	398	399	390	283
5210	161	15	-103	-104	-137	-220	-308	-404	-478	-496
5220	-496	-480	-452	-429	-380	-310	-233	-151	-77	-69
5230	-49	-9	27	49	49	50	52	40	-21	-86
5240	-109	-177	-216	-257	-313	-319	-380	-451	-510	-545
5250	-543	-529	-483	-479	-479	-479	-477	-464	-461	-460
5260	-477	-544	-622	-711	-856	-910	-955	-996	-1023	-1051
5270	-1078	-1068	-977	-842	-814	-684	-663	-667	-658	-568
5280	-478	-282	-176	-55	135	177	269	367	404	429
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5310	622	613	592	571	544	503	455	403	374	337
5320	266	160	20	-48	-151	-262	-333	-436	-477	-477
5330	-492	-515	-531	-536	-506	-433	-337	-273	-276	-276
5340	-273	-267	-263	-256	-263	-306	-349	-403	-434	-448
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(3-2) EW-component

Station = ICH (Nippon-Gousei-Gomu)														
Component = E-W														
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30	223	233	181	93	88	132	203	268	348	334	600	4900	5350	5427
40	212	136	61	-43	-88	-25	79	128	202	345	610	3017	2698	1943
50	433	357	294	238	196	119	42	35	75	130	620	-4543	-4899	-4881
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70	271	266	254	257	275	281	296	331	374	398	640	1059	668	389
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100	176	137	133	88	40	51	124	192	227	260	680	853	1049	988
110	265	252	234	253	271	273	309	371	413	419	690	-3299	-3818	-4442
120	400	334	300	220	160	68	-31	-114	-171	-154	700	-6012	-6404	-6765
130	-188	-146	-39	83	184	251	274	282	291	291	710	-3860	-2726	-1731
140	283	275	272	261	251	253	251	279	342	392	720	7002	5669	4524
150	343	199	92	13	-40	-34	-63	-175	-299	-335	740	755	2179	2730
160	-266	-170	-102	-58	-45	-9	71	181	218	137	750	2073	1767	1635
170	51	-41	-105	-144	-170	-200	-267	-308	-272	-103	760	-1909	-1708	-1205
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190	793	682	602	508	409	142	-125	-390	-578	-288	780	-548	-1040	-914
200	-677	-607	-573	-564	-432	-456	-438	-407	-342	-278	790	-1177	-1426	-1489
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230	-445	-784	-1026	-1270	-1488	-1562	-1525	-1452	-1341	-1172	820	-6706	-7276	-7917
240	-916	-678	-346	221	706	959	1059	1064	1065	1004	830	-2579	-2357	-2444
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260	98	249	432	518	459	285	132	42	-14	-58	850	1144	-3659	-5534
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290	-636	-435	0	246	550	600	524	379	103	-234	880	5522	6804	6903
300	-553	-634	-728	-876	-1103	-1377	-1675	-1774	-1739	-1559	890	1259	1744	2249
310	-1473	-1247	-993	-560	-199	-279	582	826	994	1057	900	2862	2151	1732
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360	499	556	719	725	805	865	808	576	467	44	950	-8082	-9431	-9935
370	-377	-356	-586	-522	-388	-23	477	842	809	1235	960	5210	7219	8704
380	1503	1501	1221	1064	730	435	193	-111	-309	-384	970	-2795	-4677	-4932
390	-485	-856	-692	-687	-555	-391	-240	-100	145	216	990	-1266	557	1740
400	188	-7	-150	-288	-345	-265	-172	-93	-60	-60	1000	7261	7420	7858
410	-57	-115	-342	-555	-682	-854	-912	-897	-174	-521	1010	5334	3690	2230
420	-252	-103	-143	-212	-265	-294	-307	-250	-165	-51	1020	-4390	-3846	-3049
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440	-68	-135	-227	-327	-420	-511	-504	-512	-442	-209	1040	-2480	-236	1417
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460	-533	-569	-459	-260	29	133	189	174	51	-143	1060	-3587	-2356	-1224
470	-310	-355	-429	-610	-717	-931	-961	-971	-919	-818	1070	1080	2210	1705
480	-722	-524	-417	-293	-241	-105	-61	-51	-148	-295	1080	1090	4101	4470
490	-383	-506	-713	-824	-837	-802	-582	-327	-153	-26	1090	5156	3044	747
500	87	129	136	101	71	103	237	358	442	487	1100	-2937	-2740	-2936
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520	-559	-776	-935	-1003	-836	-589	-278	258	750	953	1120	-2625	-996	-1409
530	837	574	281	-36	-286	-506	-676	-766	-711	-596	1130	2045	818	1377
540	-556	-526	-400	-296	-134	434	973	1508	1881	2181	1140	-5845	-5278	-2895
550	2144	1732	1365	899	160	-483	-788	-995	-1099	-1092	1150	-5885	-2613	-4498
560	-954	-879	-813	-816	-966	-1032	-1104	-1205	-1200	-812	1160	4090	3527	2972
											1170	-1877	-852	271
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Station = ICH (Nippon-Gousei-Gomu)
Component = E-W

PAGE : 3

Station = ICH (Nippon-Gousei-Gomu)
Component = E-W

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1200	-724	-174	934	2164	3260	4572	5700	6529	6720	6465
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1220	3101	-2518	-1887	-1023	236	2608	3674	4827	5560	6038
1230	5935	5146	4501	3121	885	-447	-1145	-1487	-1618	-1359
1240	-364	-792	-708	-383	-1498	-1606	-2284	-3379	-3939	-4194
1250	-4267	-4074	-3600	-2925	-2485	-2250	-2111	-2106	-2109	-1991
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1270	4044	-3563	-2805	1841	89	1391	2262	2571	2771	2771
1280	2850	2975	3017	3083	3248	3374	3430	3419	3188	2854
1290	2328	1745	1273	921	434	39	-24	42	172	170
1300	-38	-361	-749	-1350	-1955	-3115	-4660	-5697	-6509	-6827
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1320	6021	7157	8041	8487	8147	7224	5876	4670	2965	670
1330	-1316	-2172	-2930	-3303	-3334	-3274	-3051	-2915	-2817	-2419
1340	-1881	-1264	-1132	-358	2127	3245	4473	6062	7275	7398
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1360	-7265	-6726	-5718	-4200	-1935	356	2132	3158	4423	4789
1370	5120	4795	3795	2740	1766	528	-469	-1434	-2003	-2127
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1410	-1387	-1408	3388	5141	6385	6767	6404	5813	4880	3367
1420	1046	-1208	-2866	-4583	-5772	-6365	-6468	-6232	-5846	-4325
1430	-2585	-1316	1290	2822	4868	6377	7914	8373	9395	9709
1440	9755	9239	8356	7225	5966	4053	1630	-398	-1913	-4173
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1490	1432	2186	2768	2946	2968	2734	2311	1857	-569	446
1500	-700	-1553	-2011	-2381	-2595	-2636	-2478	-1887	-569	428
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4090	368	267	120	40	34	-13	-39	-81	-119	-125	4700	158	115	94	87	159	218	283	330	352	431
4100	-100	-66	41	114	252	249	252	265	247	210	4710	561	648	782	872	887	902	906	975	1021	1027
4110	140	-57	-97	-328	-328	-587	-820	-985	-1077	-1120	4720	1033	1033	1031	1031	967	878	804	751	682	618
4120	-1132	-1128	-1063	-840	-817	-741	-567	-491	-282	-100	4730	559	487	336	242	154	70	41	-47	-138	-244
4130	127	244	380	438	399	338	311	161	41	-28	4740	-590	-362	-494	-537	-579	-640	-638	-637	-635	-633
4140	-48	-134	-191	-212	-217	-184	-47	-7	61	151	4750	-625	-568	-474	-449	-400	-384	-342	-282	-236	-236
4150	782	401	530	628	705	740	735	724	694	548	4760	-157	-122	-90	-35	-42	-41	-23	23	43	71
4160	431	382	297	232	199	185	146	79	35	29	4770	194	241	245	253	300	337	385	438	499	548
4170	-1	-46	-47	-51	-46	-36	-36	-40	-58	-79	4780	489	358	288	138	61	-32	-146	-202	-440	-550
4180	-19	-112	-153	-171	-168	-165	-158	-153	-139	-128	4790	-651	734	-813	-871	-937	-989	-1005	-1031	-1042	-1028
4190	-114	-101	-109	-136	-154	-228	-323	-320	-348	-422	4800	-963	944	-942	-915	-881	-869	-846	-836	-863	-921
4200	-469	-486	-478	-479	-495	-542	-651	-650	-680	-735	4810	-941	-939	-938	-892	-827	-861	-887	-893	-741	-570
4210	-745	-853	-901	-1027	-1056	-1084	-1144	-1189	-1192	-1184	4820	-146	-275	-146	-38	-141	-91	-180	-281	-390	474
4220	-1147	-1030	-1007	-1000	-929	-794	-717	-710	-651	-566	4830	435	451	471	471	465	464	454	449	469	474

Station = ICH (Nippon-Gousei-Gomu)
Component = E-W

PAGE : 8

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4850	377	429	482	537	607	641	662	697	741	793	
4860	822	841	847	807	736	644	606	588	500	349	
4870	357	358	288	130	92	142	139	55	-135	-144	
4880	-221	-248	-348	-455	-605	-715	-795	-372	-935	-976	
4890	-984	-916	-873	-717	-540	-525	-321	-187	-49	189	
4900	306	500	556	629	680	682	721	764	782	796	
4910	785	774	774	769	757	678	574	484	433	407	
4920	356	312	306	277	195	117	93	6	-72	-108	
4930	-194	-281	-380	-415	-438	-501	-548	-531	-470	-439	
4940	-423	-376	-246	-53	32	62	210	321	428	664	
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4960	1209	1149	1035	960	968	917	833	745	631	457	
4970	567	478	362	236	173	157	70	56	39	22	
4980	-1	-23	-143	-129	-58	-108	-205	-234	-262	-310	
4990	-319	-323	-340	-381	-455	-498	-534	-556	-565	-575	
5000	-584	-586	-587	-587	-594	-501	-436	-435	-436	-402	
5010	-361	-346	-342	-305	-240	-211	-161	-110	-75	-55	
5020	-20	42	75	108	168	231	258	270	303	337	
5030	349	348	364	400	428	436	436	435	440	448	
5040	446	445	441	414	345	286	242	169	99	-51	
5050	-87	-235	-331	-403	-562	-706	-792	-809	-866	-933	
5060	-986	-1010	-1039	-1063	-1069	-1061	-998	-986	-984	-930	
5070	-888	-882	-817	-747	-679	-589	-558	-508	-450	-421	
5080	-384	-314	-280	-119	-85	12	97	156	237	462	
5090	523	542	538	587	657	752	781	790	826	844	
5100	840	833	823	784	764	759	726	683	655	644	
5110	618	589	591	610	667	700	710	736	744	745	
5120	732	697	687	654	636	622	586	491	422	408	
5130	345	244	166	24	-57	-113	-131	-134	-85	11	
5140	22	68	144	224	278	305	277	288	285	273	
5150	262	251	214	199	172	133	126	120	101	90	
5160	74	73	72	76	134	196	209	208	209	208	
5170	208	209	210	202	158	92	19	-64	-153	-182	
5180	-207	-251	-300	-330	-339	-340	-311	-248	-184	-100	
5190	-32	25	71	83	135	171	180	182	185	122	
5200	38	-33	-104	-142	-188	-229	-239	-236	-283	-299	
5210	-305	-289	-277	-251	-197	-140	-95	-85	-84	-104	
5220	-149	-217	-306	-371	-430	-476	-540	-582	-598	-639	
5230	-664	-688	-698	-700	-684	-637	-585	-504	-453	-412	
5240	-372	-192	-96	14	85	150	247	340	431	772	
5250	930	986	899	995	1057	1094	1160	1161	1138	1175	
5260	1121	1066	1042	984	926	866	790	752	728	684	
5270	649	592	568	568	563	564	573	550	547	550	
5280	545	503	430	346	232	201	-70	-166	-250	-394	
5290	-477	-558	-693	-788	-865	-923	-961	-996	-1011	-983	
5300	-914	-837	-759	-639	-565	-525	-484	-466	-427	-391	
5310	-367	-353	-362	-350	-339	-372	-400	-421	-475	-524	
5320	-555	-562	-573	-602	-639	-685	-729	-746	-754	-753	
5330	-761	-790	-826	-860	-863	-874	-901	-902	-903	-905	
5340	-900	-866	-800	-713	-625	-528	-389	-303	-312	-266	
5350	-217	-132	-39	111	211	278	332				END

(3-3) UD-component

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40	981	762	572	469	440	372	309	162	-573	-1314	640	-765	-556	90	538	708	521	164	-33	-357	-590																						
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120	-538	-720	-515	-126	326	752	952	1004	1021	772	730	884	1164	1040	1350	1779	1507	1181	1053	861	373																						
130	632	462	134	-266	-627	-842	-914	-832	-651	-373	740	-142	-787	-1639	-2271	-3231	-3710	-3734	-3237	-2280	-1320																						
140	-118	-6	233	635	1005	1289	921	284	-28	-84	750	-224	148	546	1042	1141	1140	816	542	474	519																						
150	156	331	277	49	-99	36	1122	2320	2616	2521	760	1008	1703	2201	2757	2806	2753	2465	2049	1473	665																						
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180	-1629	-1144	-802	-577	-488	-461	-228	-218	122	432	790	937	993	1037	1075	1089	732	359	-58	-327	-561																						
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210	1014	666	364	-111	-480	-683	-723	446	-109	88	820	-1559	-819	-391	31	254	234	221	62	-212	-294																						
220	345	336	423	484	549	595	660	719	679	565	830	-478	-775	-919	-817	-856	-911	-905	-885	-844	-822																						
230	496	497	444	282	-109	-490	-606	-580	-312	74	840	-752	-635	-597	-406	-264	-167	-160	-135	-91	-89																						
240	321	479	605	701	752	592	347	-8	-534	-837	850	-200	-367	-338	-358	-455	-394	-212	-189	39	179																						
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260	920	427	-94	-333	-529	-450	-271	-156	-121	-65	870	162	-35	223	395	763	903	955	868	844	844																						
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410	-316	-258	-257	-359	-572	-786	-1173	-1455	-1641	-1786	1020	1145	1062	1028	1013	1003	1017	1094	1172	1211	1112																						
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430	67	119	95	34	-151	-375	-593	-845	-1018	-851	1040	622	585	308	-20	-514	-1083	-1759	-2142	-2246	-2177																						
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450	2557	3337	3937	4236	4422	4372	4093	3720	3126	2090	1060	160	138	418	744	1025	1301	1253	881	382	-116																						
460	855	-67	-717	-1357	-1727	-2187	-2447	-2533	-2682	-2691	1070	-538	-917	-1216	-1520	-1645	-1636	-1505	-1223	-911	-500																						
470	-2699	-2480	-1979	-1187	-438	229	668	1005	1047	891	1080	-41	469	781	1064	1180	1325	1358	1228	997	504																						
480	651	334	266	134	71	-246	-834	-2023	-2398	-2385	1090	-109	-469	-555	-417	-555	-1066	-1159	-1254	-1316	-1386																						
490	-1910	-1494	-1108	-835	-704	-635	-439	-303	-325	-480	1100	-1629	-1717	-1785	-1700	-1377	-1133	-915	-561	-67																							
500	-539	-553	-475	-452	-277	-122	132	321	461	557	1110	711	1213	1573	1855	1856	1768	1578	1385	1211	1061																						
510	606	660	703	717	677	566	425	387	291	112	1120	977	891	795	895	997	1015	986	893	815	687																						
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550	-1359	-513	338	639	646	697	842	1104	1262	1746	1160	-211	-300	-450	-584	-608	-616	-352	-300	-85	86																						
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Digitized Data on NRCDP Strong-Motion Earthquake Records (4)

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1190	-748	-616	-396	-244	-80	102	135	57	-84	-231	1800	-319	-360	-397	-412	-405	-278	-172	-66	86	174	1800	-319	-360	-397	-412	-405	-278	-172	-66	86	174
1200	-282	-295	-279	-216	-4	192	246	362	365	235	1810	260	220	34	-210	-276	-435	-636	-767	-807	-942	1810	260	220	34	-210	-276	-435	-636	-767	-807	-942
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1230	-1660	-1833	-1839	-1742	-1088	-255	351	1294	1484	1760	1840	856	970	1066	1099	1110	1113	1106	1061	1018	943	1840	856	970	1066	1099	1110	1113	1106	1061	1018	943
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1280	133	75	212	415	761	1207	1706	1891	1862	1747	1890	-100	-99	-20	164	255	420	737	844	923	955	1890	-100	-99	-20	164	255	420	737	844	923	955
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1500	783	466	331	129	-61	-143	-78	-34	-11	56	2110	1054	1002	804	729	566	540	367	242	5	220	2110	1054	1002	804	729	566	540	367	242	5	220
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1540	-902	-641	-344	-123	363	550	754	858	913	1007	2150	-104	-7	61	71	43	22	11	-6	-27	-28	2150	-104	-7	61	71	43	22	11	-6	-27	-28
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2450	337	254	212	158	33	-43	-176	-176	-151	-138
2460	-577	-324	-804	-908	-980	-1111	-1202	-1248	-1246	-102
2470	-1224	-1086	-902	-841	-704	-690	-661	-530	-411	-378
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2510	945	853	680	523	231	144	84	-10	-131	-261
2520	-363	-466	-590	-530	-627	-691	-756	-815	-831	-781
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2570	-744	-793	-760	-662	-675	-669	-660	-659	-610	-576
2580	-502	-454	-453	-385	-301	-281	-260	-253	-247	-235
2590	-202	-231	-233	-234	-282	-298	-296	-278	-256	-222
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2620	837	864	869	843	820	806	781	767	767	762
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4860	-151	-142	-137	-134	-125	-97	-80	-49	-25	-22
4870	-19	0	22	40	76	90	103	118	120	120
4880	120	120	120	121	131	129	132	136	157	154
4890	160	175	189	191	176	158	135	115	91	68
4900	47	29	21	19	19	20	21	24	34	37
4910	37	39	57	82	106	158	207	235	260	276
4920	317	376	425	454	454	437	423	421	427	424
4930	386	352	324	274	235	204	170	155	143	115
4940	86	61	45	27	-2	-25	-43	-67	-79	-78
4950	-69	-61	-56	-50	-50	-50	-50	-49	-50	-62
4960	-87	-107	-127	-146	-153	-181	-183	-182	-182	-178
4970	-168	-148	-147	-142	-142	-120	-123	-123	-116	-99
4980	-97	-87	-67	-52	-50	-49	-49	-48	-47	-45
4990	-45	-45	-47	-54	-62	-83	-88	-83	-75	-56
5000	-37	-27	-19	-15	-7	13	41	60	78	143
5010	190	202	206	207	209	216	224	234	246	253
5020	256	261	269	294	325	336	339	354	366	365
5030	365	365	363	361	347	327	318	293	245	194
5040	147	124	113	89	27	-32	-83	-143	-147	-168
5050	-195	-223	-231	-227	-230	-219	-199	-183	-176	-175
5060	-174	-174	-175	-175	-175	-175	-175	-175	-175	-175
5070	-173	-172	-167	-167	-165	-165	-163	-162	-159	-154
5080	-151	-144	-136	-131	-125	-109	-105	-92	-87	-68
5090	-30	0	21	41	75	105	121	145	184	201
5100	227	280	308	336	348	355	360	383	438	484
5110	512	533	555	587	603	611	626	634	638	626
5120	594	562	547	551	528	472	415	376	362	366
5130	363	331	272	236	177	109	81	40	-40	-109
5140	-164	-216	-228	-234	-229	-232	-256	-264	-267	-269
5150	-269	-269	-264	-243	-224	-198	-189	-198	-200	-194
5160	-191	-192	-187	-187	-180	-167	-176	-181	-172	-140
5170	-120	-91	-81	-84	-93	-90	-89	-100	-121	-124
5180	-123	-123	-126	-127	-119	-119	-123	-124	-123	-120
5190	-100	-81	-76	-58	-27	-1	21	51	63	72
5200	89	97	104	110	122	148	182	204	212	259
5210	318	352	364	321	277	257	225	213	216	217
5220	228	218	184	160	139	139	142	142	128	92
5230	54	25	17	10	1	-8	-13	-25	-40	-56
5240	-74	-89	-97	-106	-113	-121	-121	-125	-148	-160
5250	-168	-170	-165	-164	-164	-164	-159	-159	-151	-111
5260	-76	-45	-3	-3	-4	-3	-3	-3	-6	-3
5270	18	25	23	23	27	29	29	27	27	26
5280	20	16	9	6	-4	-7	-12	-15	-13	-14
5290	-15	-15	-16	-16	-10	-2	7	12	13	13
5300	16	35	58	73	86	102	107	107	117	131
5310	152	184	233	291	330	353	377	406	422	420
5320	427	445	489	474	487	496	500	499	499	499
5330	500	504	511	491	491	455	423	376	343	308
5340	292	268	242	228	185	163	111	62	41	22
5350	6	-16	-23	-62	-111	-171	-170			

END

Table. 4

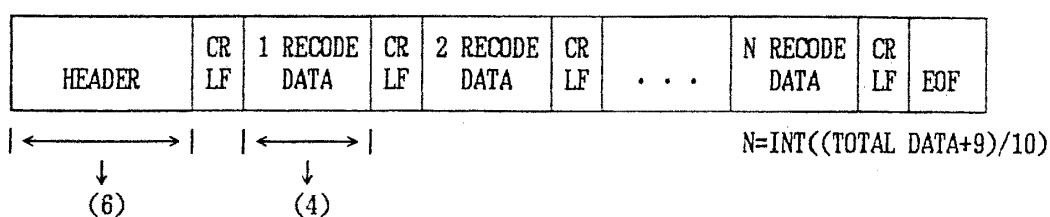
(1) FLOPPY DISK

DISK SIZE : 3.5INCH
 FORMATED : MS-DOS
 DENSITY : 2DD (9SECTOR/TRACK, 720KB TYPE)
 CHARACTER CODE : ASCII

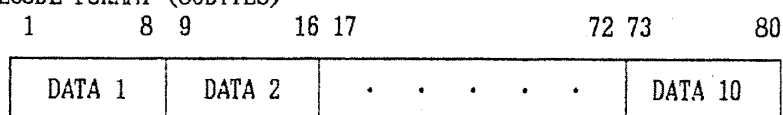
(2) FILE NAME

FILE NAME= 'AAABBBB.CC'
 AAA : STATION CODE
 BBBB : MONTH·DAY
 CC : CHANNEL INDX

(3) FILE FORMAT



(4) RECODE FORMAT (80BYTES)



RECODE FORMAT=(10I8)
 SCALE OF DATA=0.01(GAL)

(5) SAMPLE PROGRAM

SYSTEM : MS-DOS (Version 3.1)
 PC9801 N-88(86) BASIC (Version 4.0)

```

10 OPTION BASE 1
20 DIM HEAD1$(200),HEAD2$(200)
30 OPEN "ICH1217.01" FOR INPUT AS #1
40 LINE INPUT #1,HEAD1$
50 LINE INPUT #1,HEAD2$
60 PRINT HEAD1$;HEAD2$
70 N=VAL(MID$(HEAD1$,110,5)) ' NUMBER OF DATA
80 BIT1=0.01 ' SCALE
90 FOR K=1 TO N
100 INPUT #1,BUF
110 BUF=BUF*BIT1
120 PRINT "(";K;")";BUF;"gal"
130 NEXT K
140 CLOSE #1
150 END
  
```


概 要

本資料は国立防災科学技術センター・強震記録数値集の第4集であり、1987年千葉県東方沖地震における強震記録を扱っている。国立防災科学技術センターのデジタル型強震計による6地点の3成分が採録されている。本資料には、各記録の加速度波形、速度波形、変位波形及び各種応答スペクトルの一次処理に加えて、SMAC-B₂ 記録の数値表を収めてある。なお、デジタル強震計記録は、群列観測として利用しやすい様にフロッピー・ディスクに数値データをMS-DOS形式で書き込んであるが、読み取りに必要なBasicプログラムを本文中に付加することで利用の便宜をはかった。

Key Word : Strong-motion Earthquake Observation, Digitized Acceleration Records, Response Spectra

キーワード : 強震観測, 加速度数値化記録, 応答スペクトル