

土木研究所資料

東京湾沿岸における地中地震動特性の解析

——（その2）地中地震動の加速度応答スペクトル特性の解析——

Characteristics of Underground Acceleration Records Obtained Around Tokyo Bay

—— Part 2 Response Acceleration Characteristics of Underground Motions ——

昭和59年 3 月

建設省土木研究所
地震防災部振動研究室

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ま え が き

本報告は、東京湾沿岸における千葉県富津岬、川崎市浮島公園、横須賀市観音崎の3カ所において得られた地中地震観測記録をもとに、地中地震動の強度および周期特性を減衰定数5%の加速度応答スペクトルによって検討した結果をとりまとめたものである。なお、本解析のもととなった地中地震観測は、関東地方建設局東京湾岸道路調査事務所によって実施されたものであり、記録の利用に当たって御関係の皆様は、厚くお礼申し上げる次第である。

昭和59年3月

建設省土木研究所地震防災部振動研究室

室 長	荒 川 直 士
主任研究員	川 島 一 彦
研 究 員	田 村 敬 一
	相 沢 興
	高 橋 和 之

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1. 解析に用いた強震記録

解析対象としたのは、表 1-1 に示すように昭和45年以後東京湾沿岸の富津岬、浮島公園および観音崎の3箇所において観測された地中地震記録である。これらの記録の加速度波形を示すと図 1-1（富津岬）、図 1-2（浮島公園）および図 1-3（観音崎）のようになる。

表1-1 最大加速度の一覧表

(a) 富津岬

地震発生 年月日	地震名	マグニ チュード M	深さ Δ (km)	震央距離 (km)	N S 成分			E W 成分			U D 成分		
					地表面	-70 m	-110 m	地表面	-70 m	-110 m	地表面	-70 m	-110 m
1971. 7. 23	山梨県東部	5.3	10	81	9.2	7.2	6.6	10.9	7.1	11.1	3.9	3.7	3.3
1972. 2. 29	八丈島東沖	7.1	70	272	23.0	32.3	18.6	25.8	23.6	21.6	8.6	10.9	13.3
1974. 5. 9	伊豆半島南岸	6.9	10	123	37.9	22.3	28.7	49.4	26.4	13.7	13.9	6.8	7.1
1974. 8. 4	茨城県南西部	5.8	50	79	14.3	8.4	4.3	13.0	5.5	7.0	20.4	2.9	3.4
1978. 1. 14	大島近傍	7.0	0	79	50.4	59.9	52.7	77.5	35.0	34.8	24.8	13.3	12.9

(b) 浮島公園

地震発生 年月日	地震名	マグニ チュード M	深さ Δ (km)	震央距離 (km)	N S 成分				E W 成分				U D 成分			
					地表面	-27 m	-67 m	-127 m	地表面	-27 m	-67 m	-127 m	地表面	-27 m	-67 m	-127 m
1970. 9. 30	神奈川県東部	4.8	40	15	11.9	10.9	5.6	6.2	17.6	11.4	6.0	3.8	7.5	4.1	1.8	2.3
1971. 7. 33	山梨県東部	5.3	10	75	16.7	15.7	6.8	6.3	14.1	14.9	5.6	3.7	2.3	3.7	3.3	2.7
1972. 12. 4	八丈島東方沖	7.2	50	284	20.0	14.6	6.7	6.4	15.6	11.3	7.1	4.7	4.6	4.4	3.7	3.6
1974. 5. 9	伊豆半島南岸	6.9	10	139	12.2	9.2	5.0	5.9	12.9	6.1	3.4	3.1	3.5	3.0	2.4	2.0
1974. 8. 4	茨城県南西部	5.8	50	57	14.8	11.5	7.9	5.3	15.4	9.1	5.7	5.3	6.5	3.7	2.3	2.3

(c) 観音崎

地震発生 年月日	地震名	マグニ チュード M	深さ Δ (km)	震央距離 (km)	N S 成分			E W 成分			U D 成分		
					地表面	-80 m	-120 m	地表面	-80 m	-120 m	地表面	-80 m	-120 m
1971. 7. 23	山梨県東部	5.3	10	78	15.0	5.8	9.9	16.7	6.3	5.5	5.6	4.0	3.8
1972. 2. 29	八丈島東沖	7.1	70	269	10.3	13.1	12.2	8.6	14.9	14.6	6.0	11.3	10.4
1972. 12. 4	八丈島東方沖	7.2	50	259	6.5	10.1	10.4	7.3	10.6	10.7	—	—	—
1973. 12. 22	千葉県南部	5.0	70	49	13.0	6.4	7.4	18.5	7.3	6.0	6.3	3.0	3.9
1974. 5. 9	伊豆半島南岸	6.9	10	115	29.8	14.7	11.5	36.6	17.7	22.4	12.5	6.9	5.5
1974. 8. 4	茨城県南西部	5.8	50	87	12.7	7.2	6.5	16.3	7.5	6.4	6.5	4.5	3.3

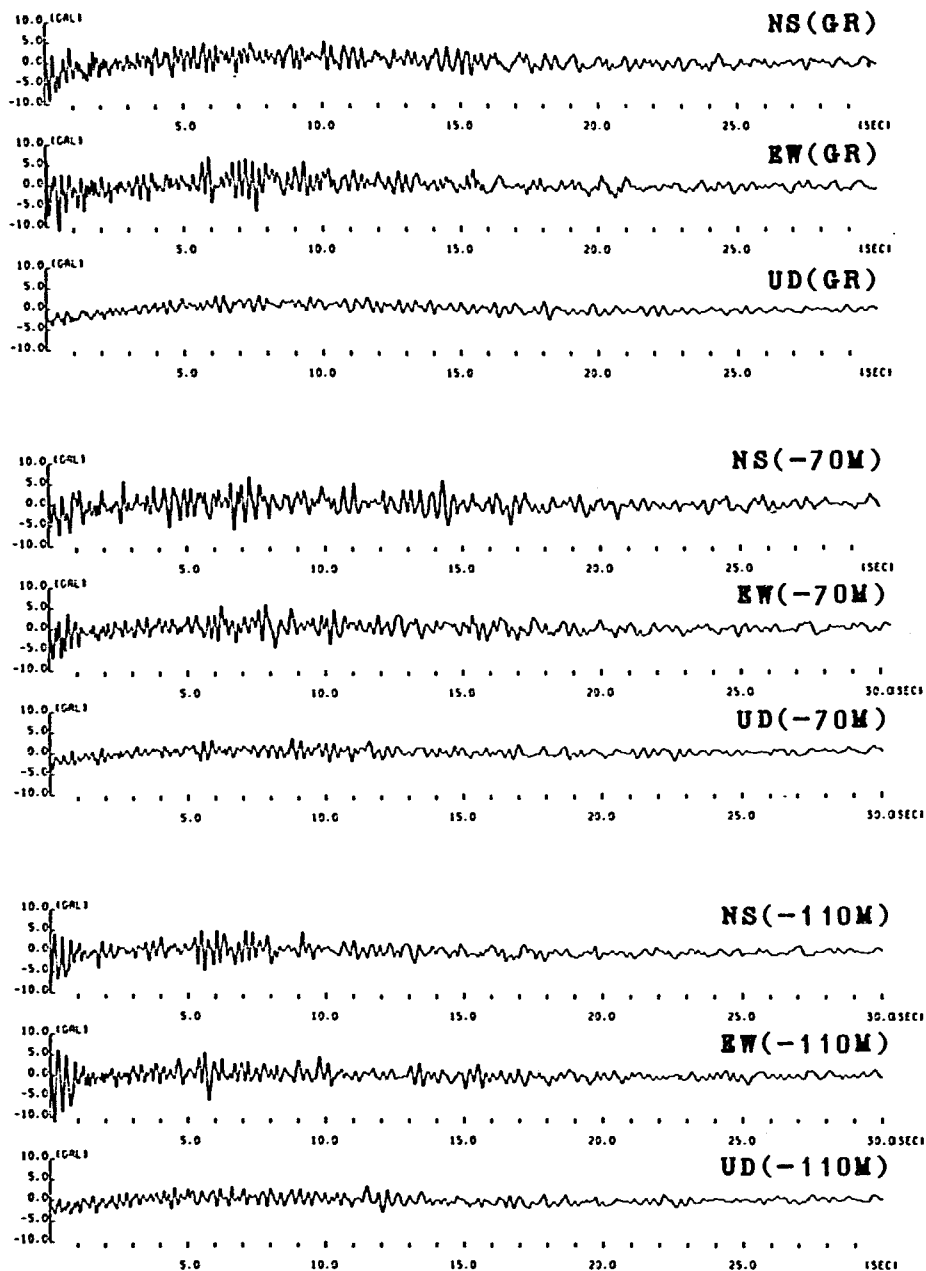


図 1 - 1 (1) 富津岬の地中地震記録波形 (1971. 7. 23, $M = 5.3$, $\Delta = 10 \text{ km}$)

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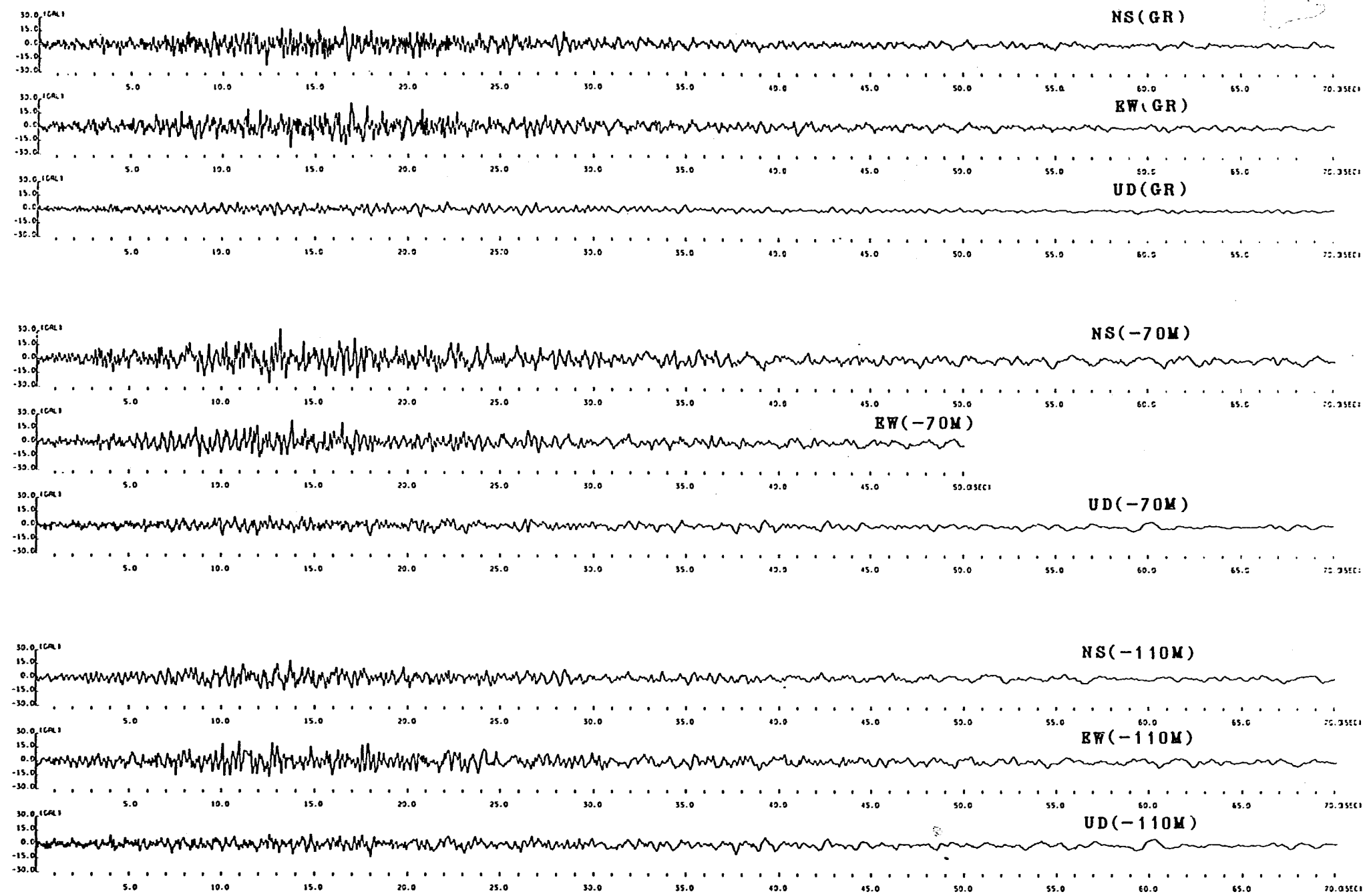


図1-1(2) 富津岬の地中地震記録波形 (1972. 2. 29, $M = 7.1$, $\Delta = 70 \text{ km}$)

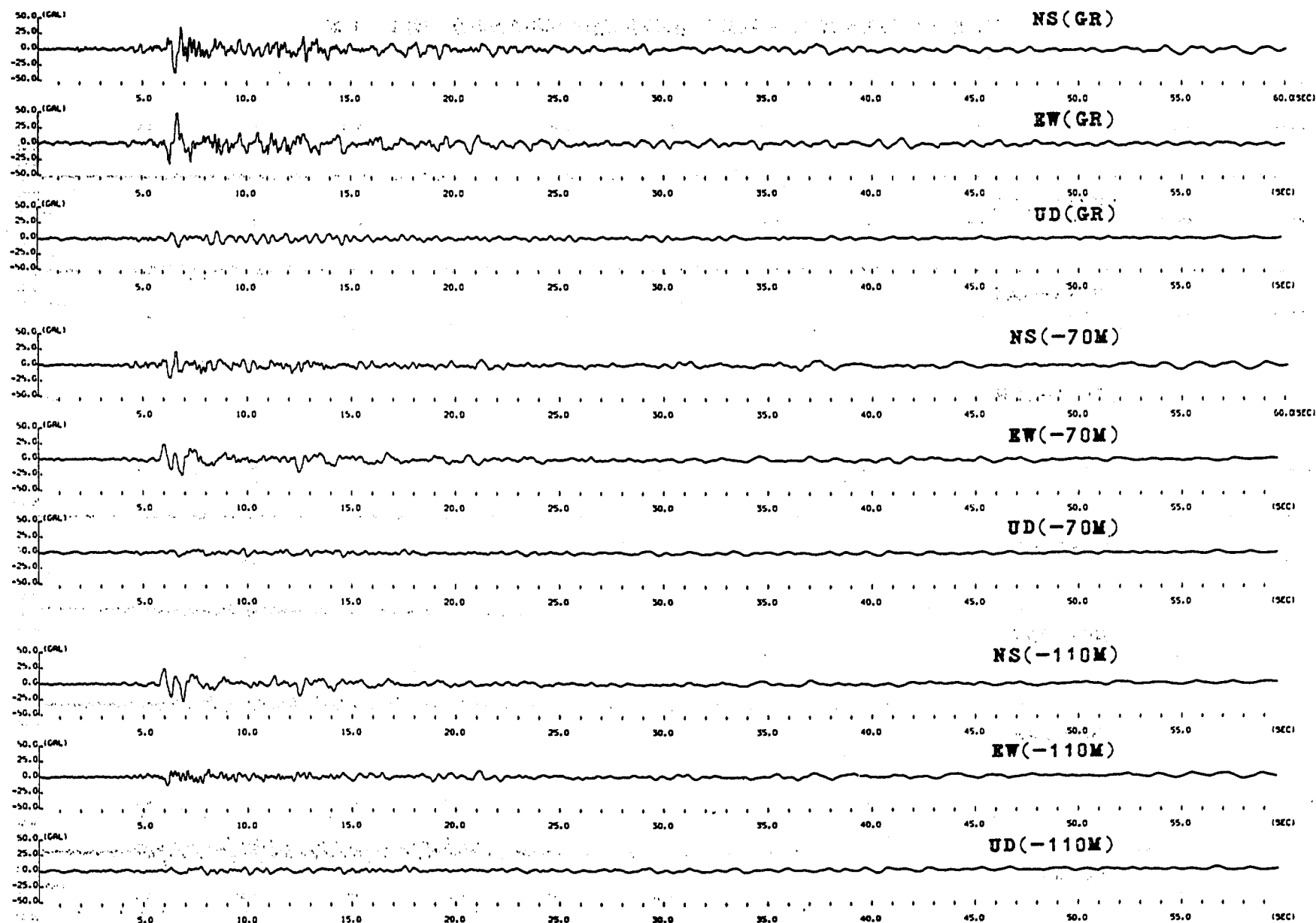


図 1 - 1 (3) 富津岬の地中地震記録波形 (1974.5.9, $M=6.9$, $A=10$ km)

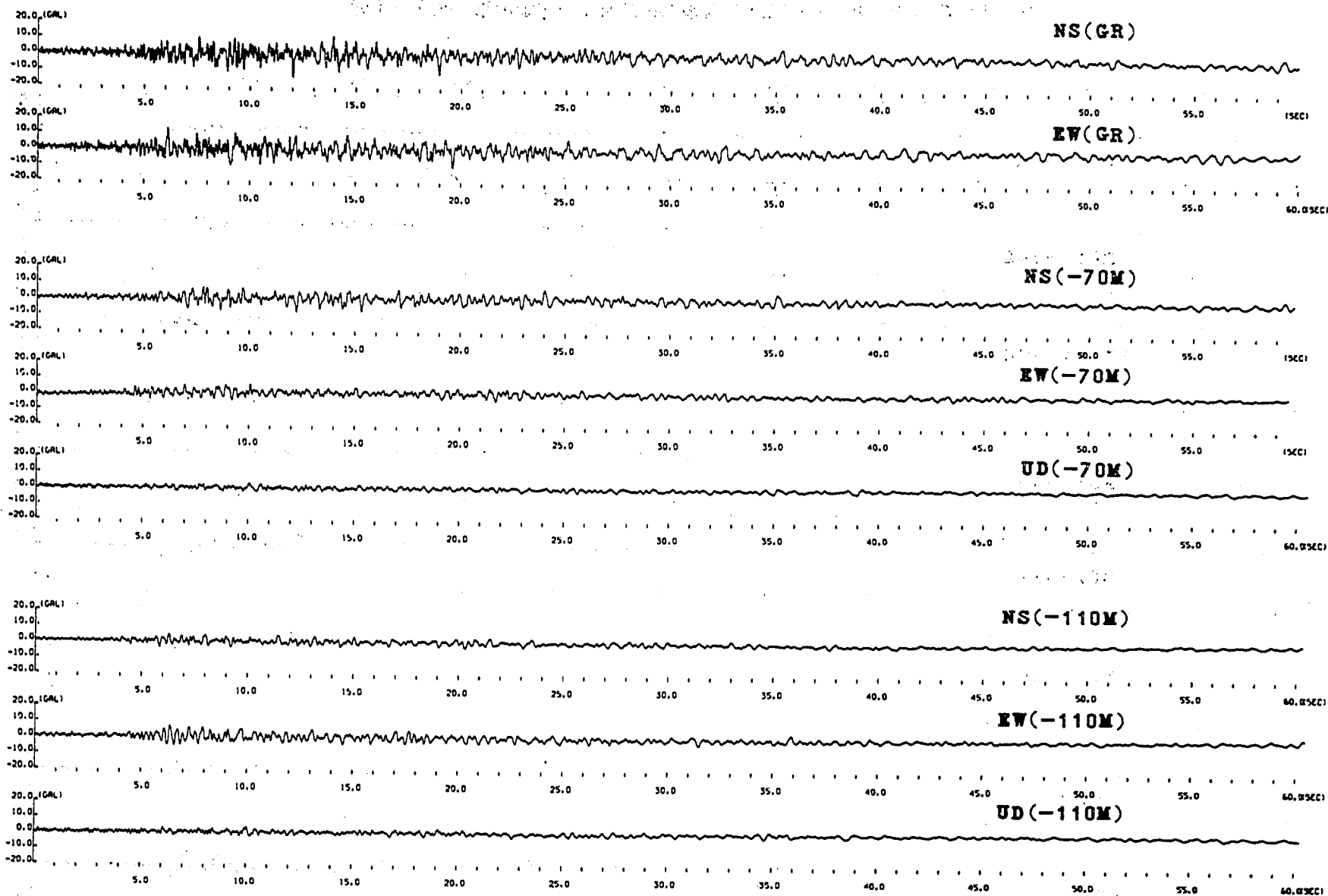


図 1-1 (4) 富津岬の地中地震記録波形 (1974. 8. 4, $M=5.8$, $\Delta=50$ km)

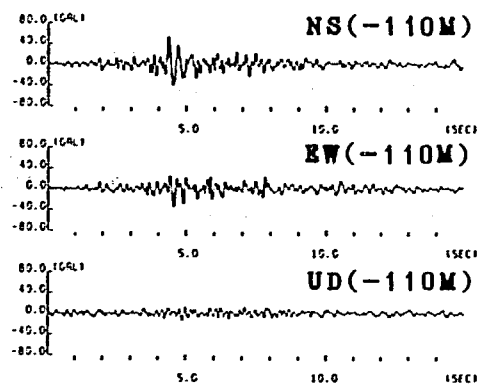
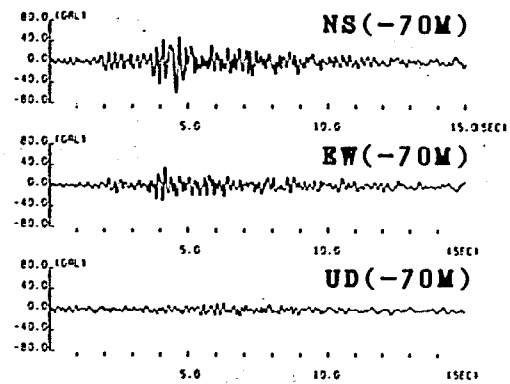
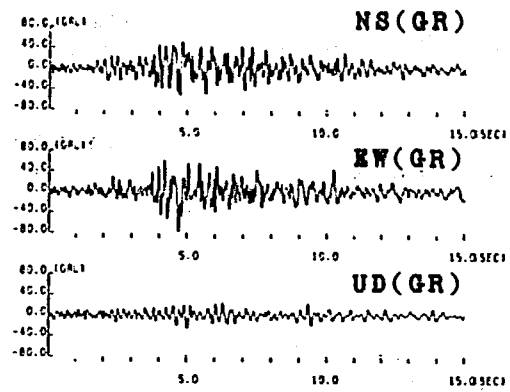


図1-1(5) 富津岬の地中地震記録波形 (1978. 1. 14, $M=7.0$, $\Delta=0\text{ km}$)

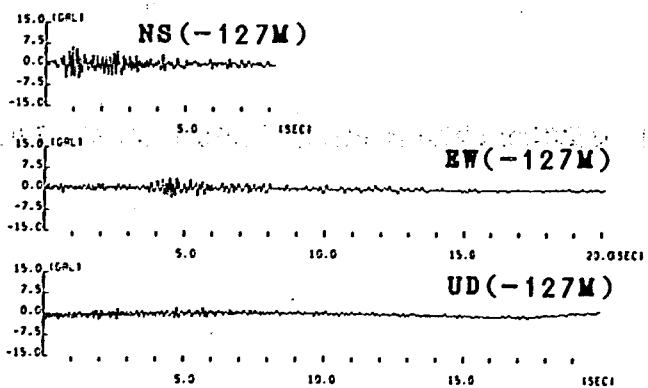
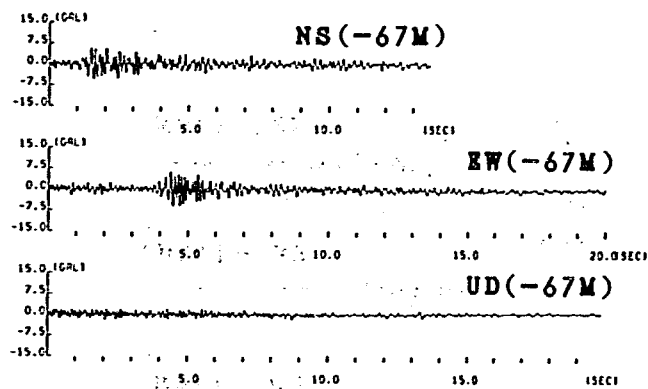
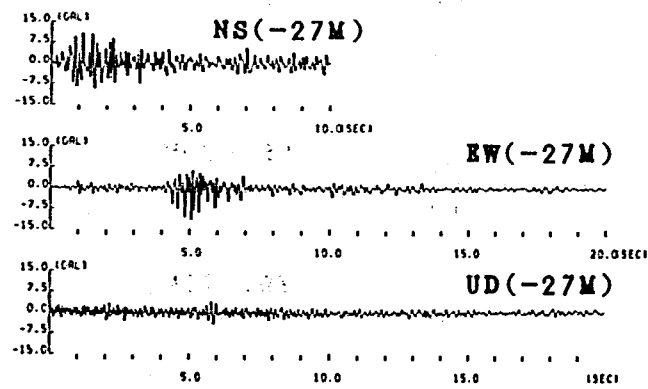
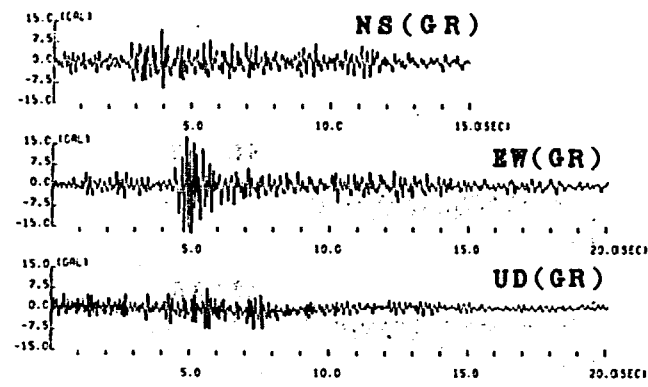


図 1 - 2 (1) 浮島公園の地中地震記録波形 (1970. 9. 30, $M = 4.8$, $\Delta = 40 \text{ km}$)

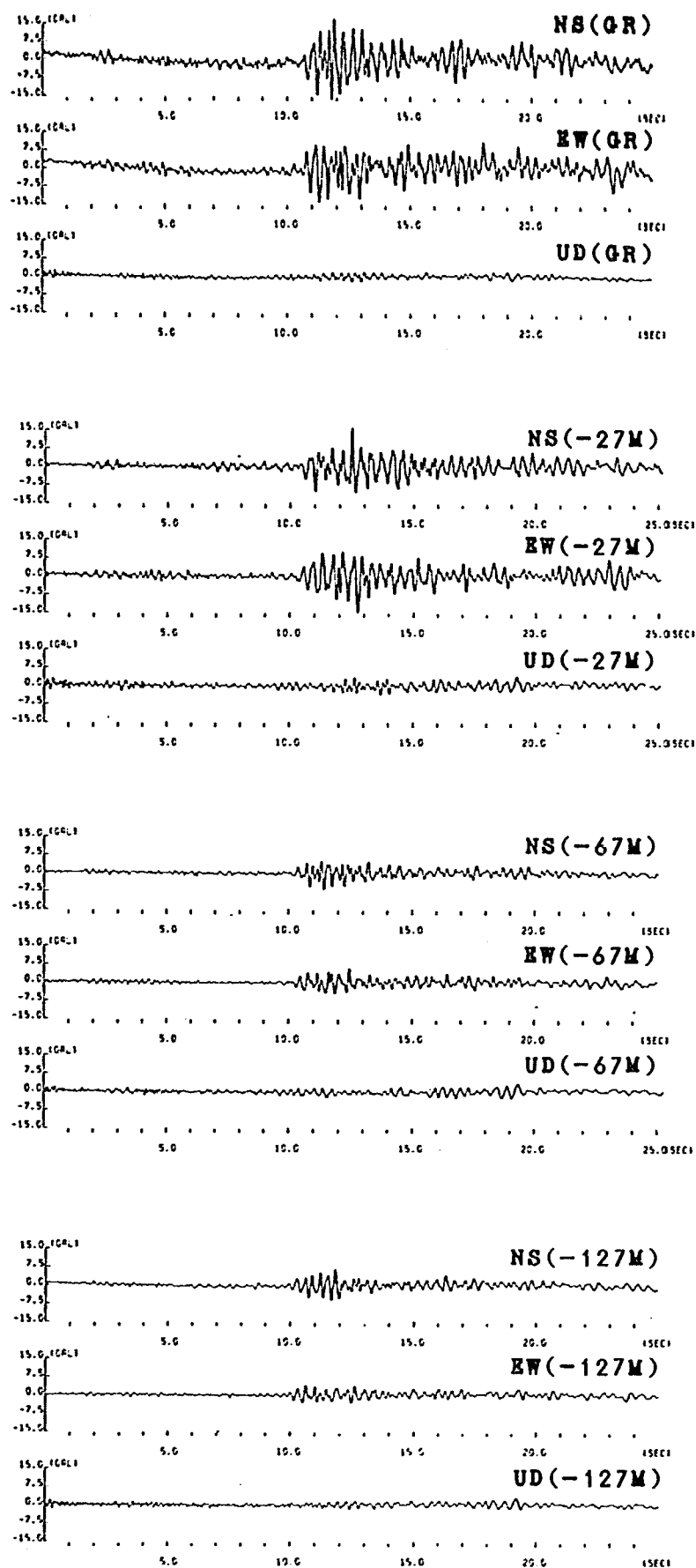


図 1 - 2 (2) 浮島公園の地中地震記録波形 (1971.7.23, $M = 5.3$, $\Delta = 10 \text{ km}$)

1. The first part of the report is a general introduction to the subject of the study.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a discussion of the results of the study.

4. The fourth part of the report is a conclusion of the study.

5. The fifth part of the report is a list of references.

6. The sixth part of the report is a list of figures.

7. The seventh part of the report is a list of tables.

8. The eighth part of the report is a list of appendices.

9. The ninth part of the report is a list of footnotes.

10. The tenth part of the report is a list of acknowledgments.

11. The eleventh part of the report is a list of abbreviations.

12. The twelfth part of the report is a list of symbols.

13. The thirteenth part of the report is a list of definitions.

14. The fourteenth part of the report is a list of references.

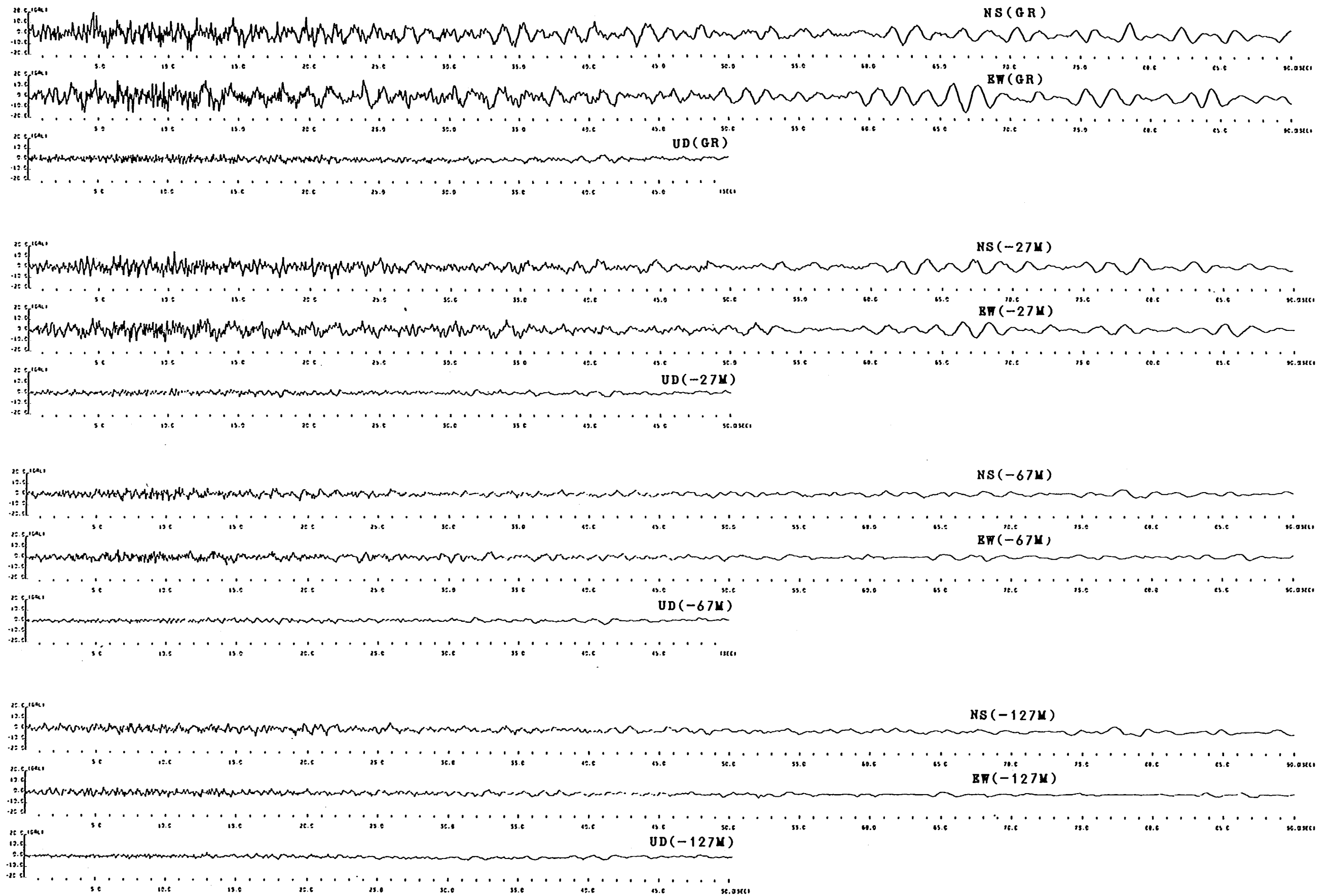


図1-2(3) 浮島公園の地中地震記録波形 (1972.12.4, $M=7.2$, $d=50\text{ km}$)

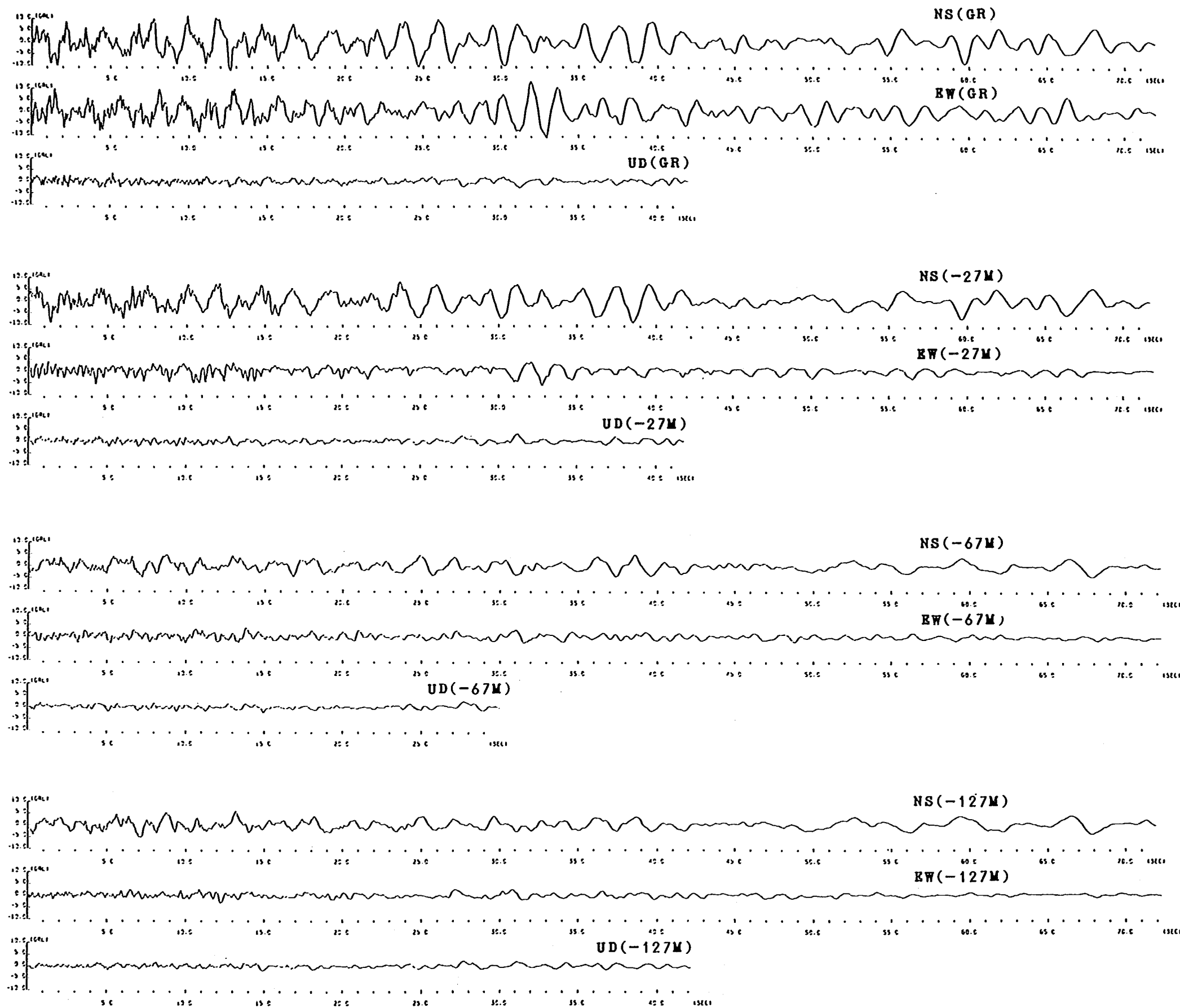


図 1-2 (4) 浮島公園の地中地震記録波形 (1974.5.9, $M = 6.9$, $d = 10 \text{ km}$)

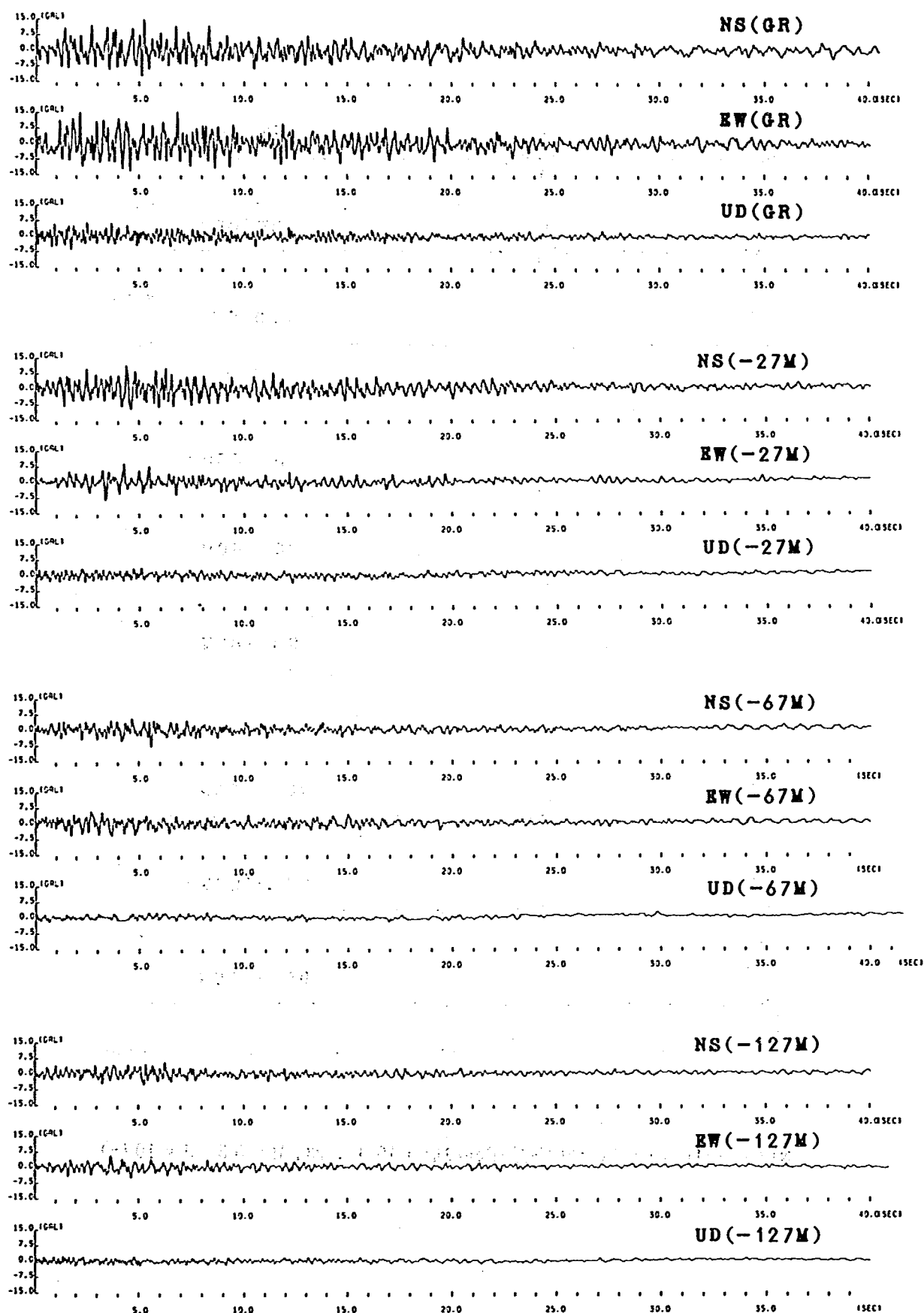


図 1 - 2 (5) 浮島公園の地中地震記録波形 (1974. 8. 4, $M = 5.8$, $\Delta = 50 \text{ km}$)

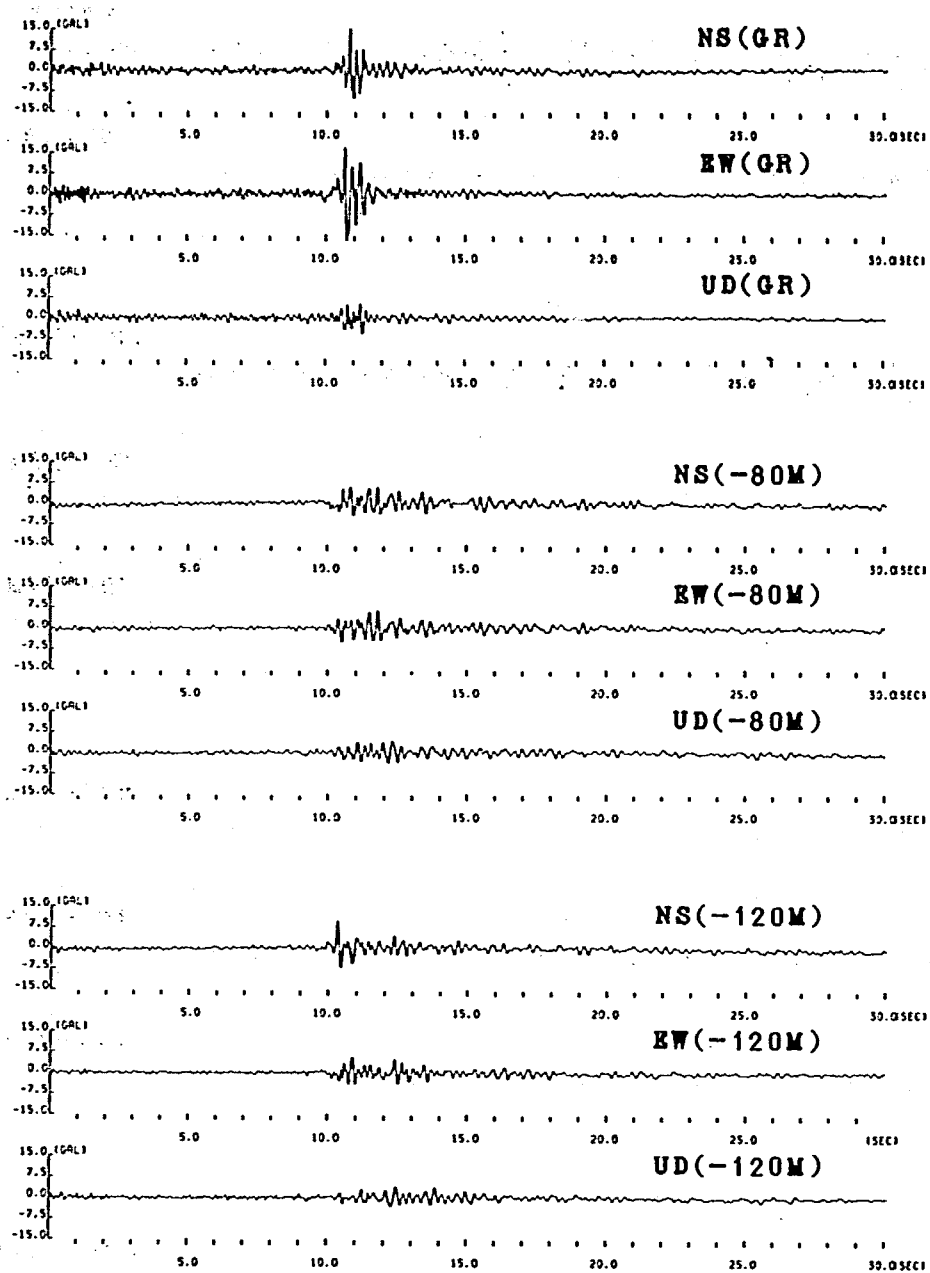


図 1 - 3 (1) 観音崎の地中地震記録波形 (1971.7.23, $M=5.3$, $\Delta=10$ km)

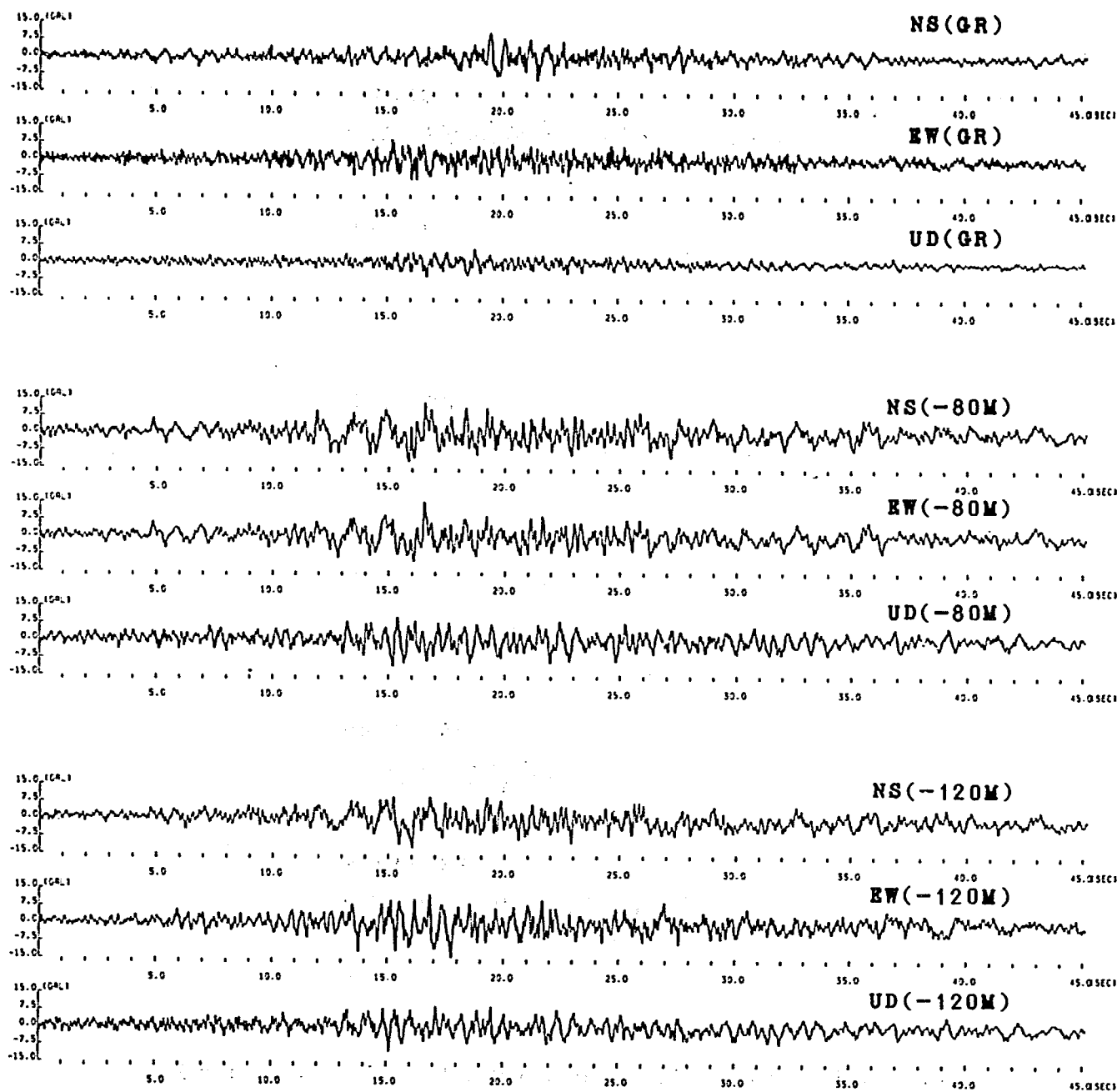


図 1 - 3 (2) 観音崎の地中地震記録波形 (1972. 2. 29, $M=7.1$, $\Delta=70 \text{ km}$)

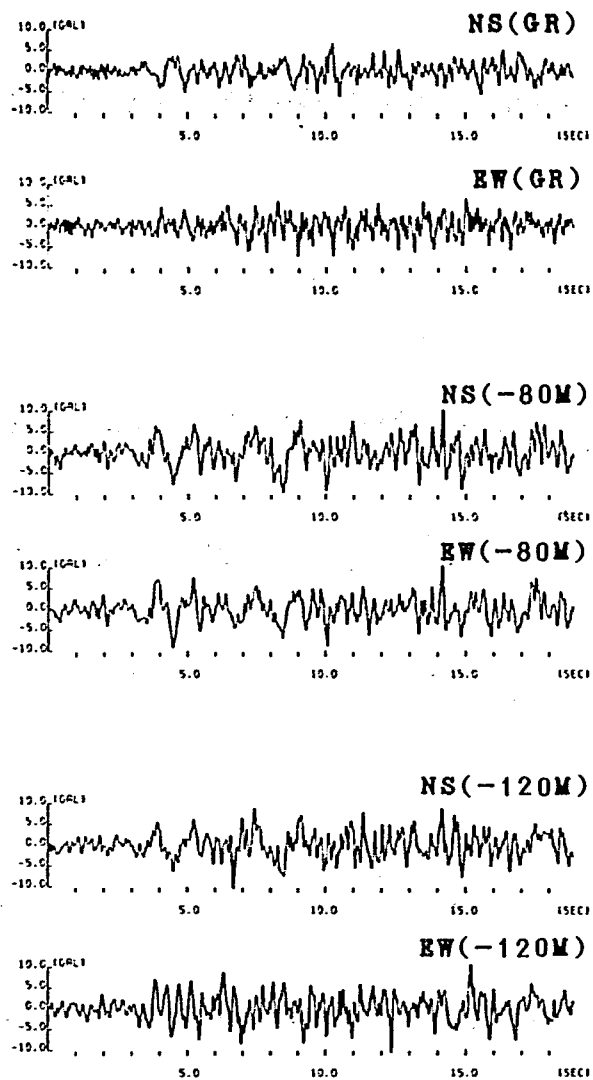


図 1 - 3 (3) 観音崎の地中地震記録波形 (1972. 12. 4, $M = 7.2$, $d = 50 \text{ km}$)

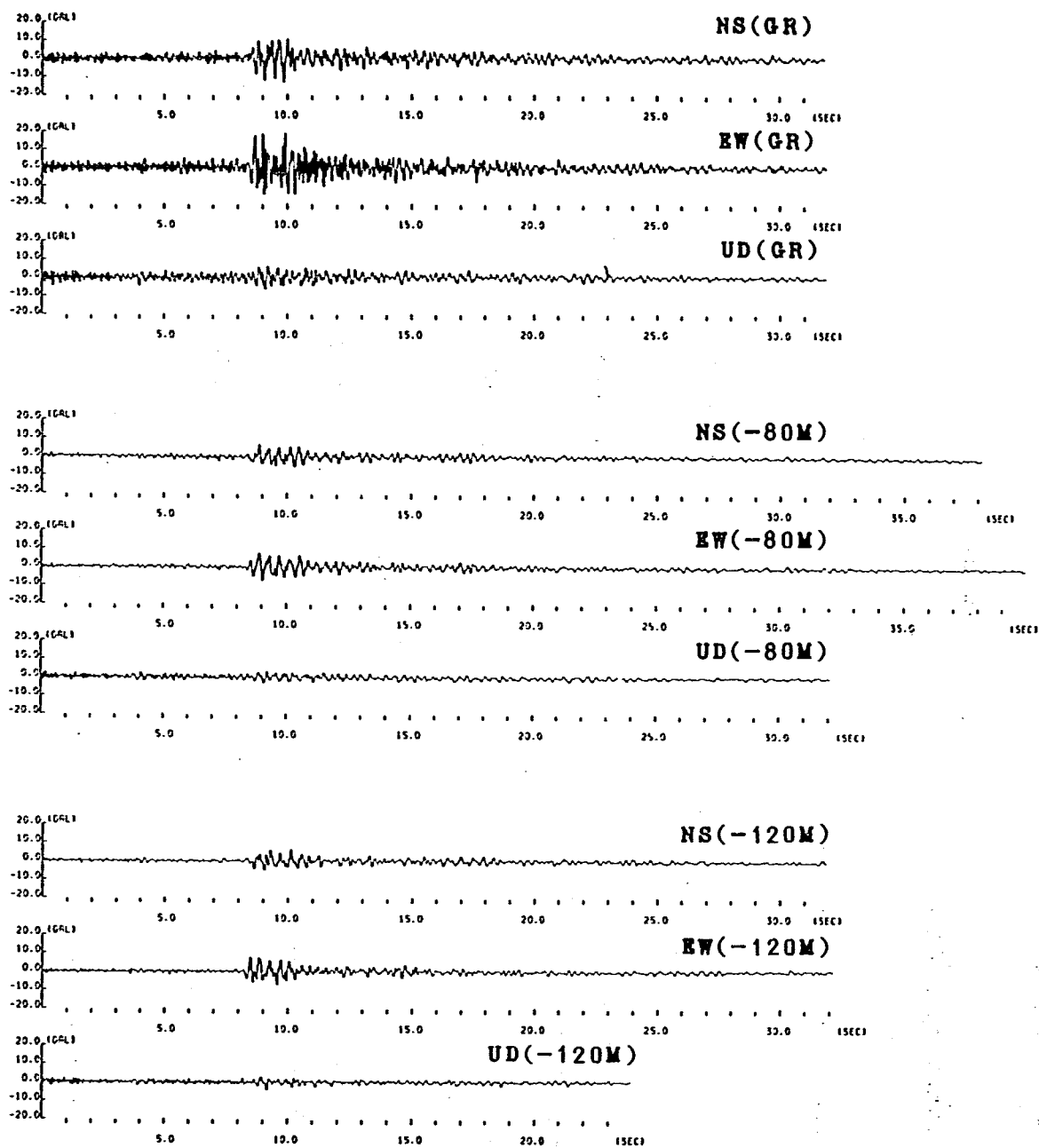


図1-3(4) 観音崎の地中地震記録波形 (1973. 12. 22, $M=0.0$, $d=70\text{ km}$)

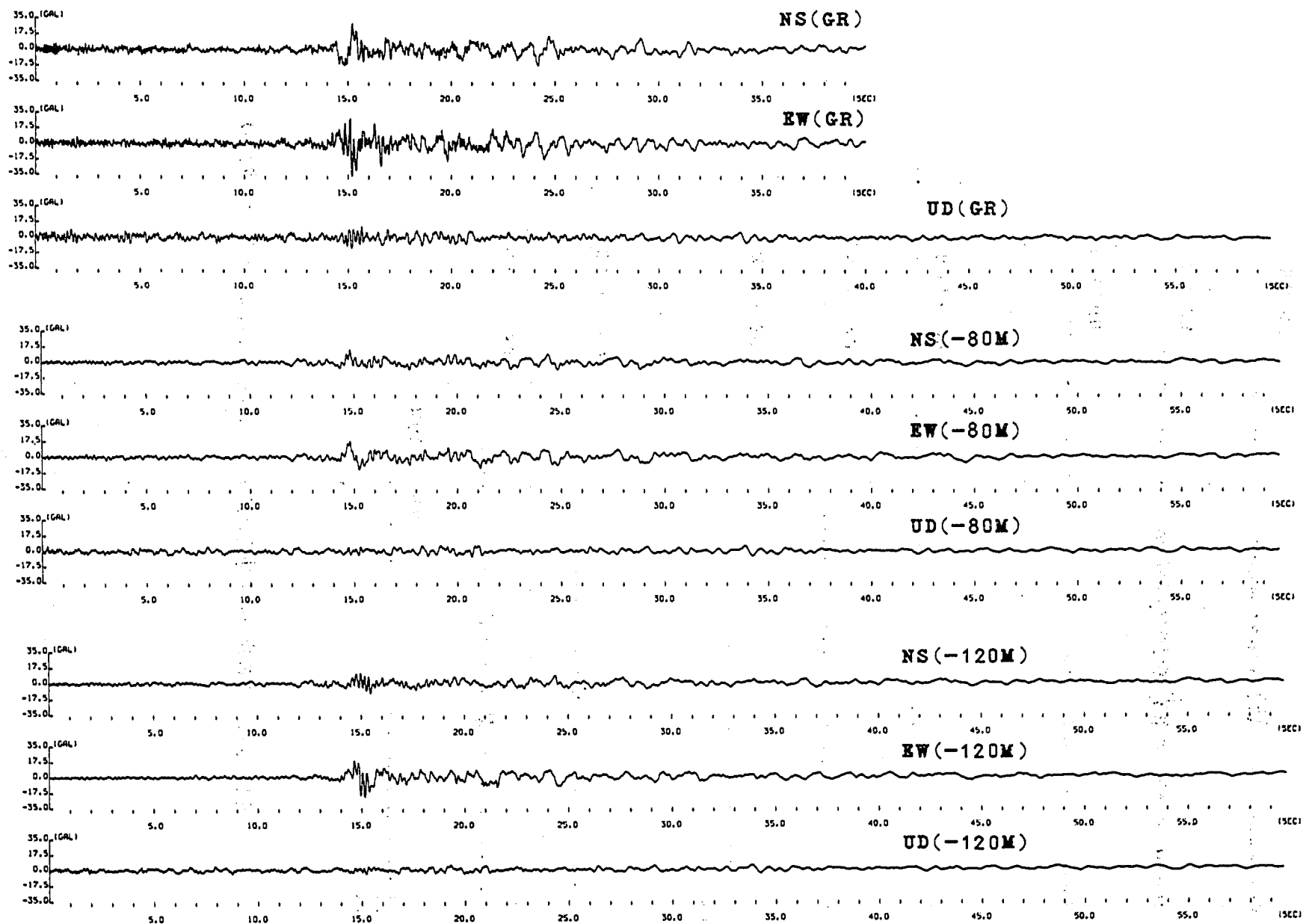


図 1-3 (5) 観音崎の地中地震記録波形 (1974. 5. 9, $M=6.9$, $\Delta=10 \text{ km}$)

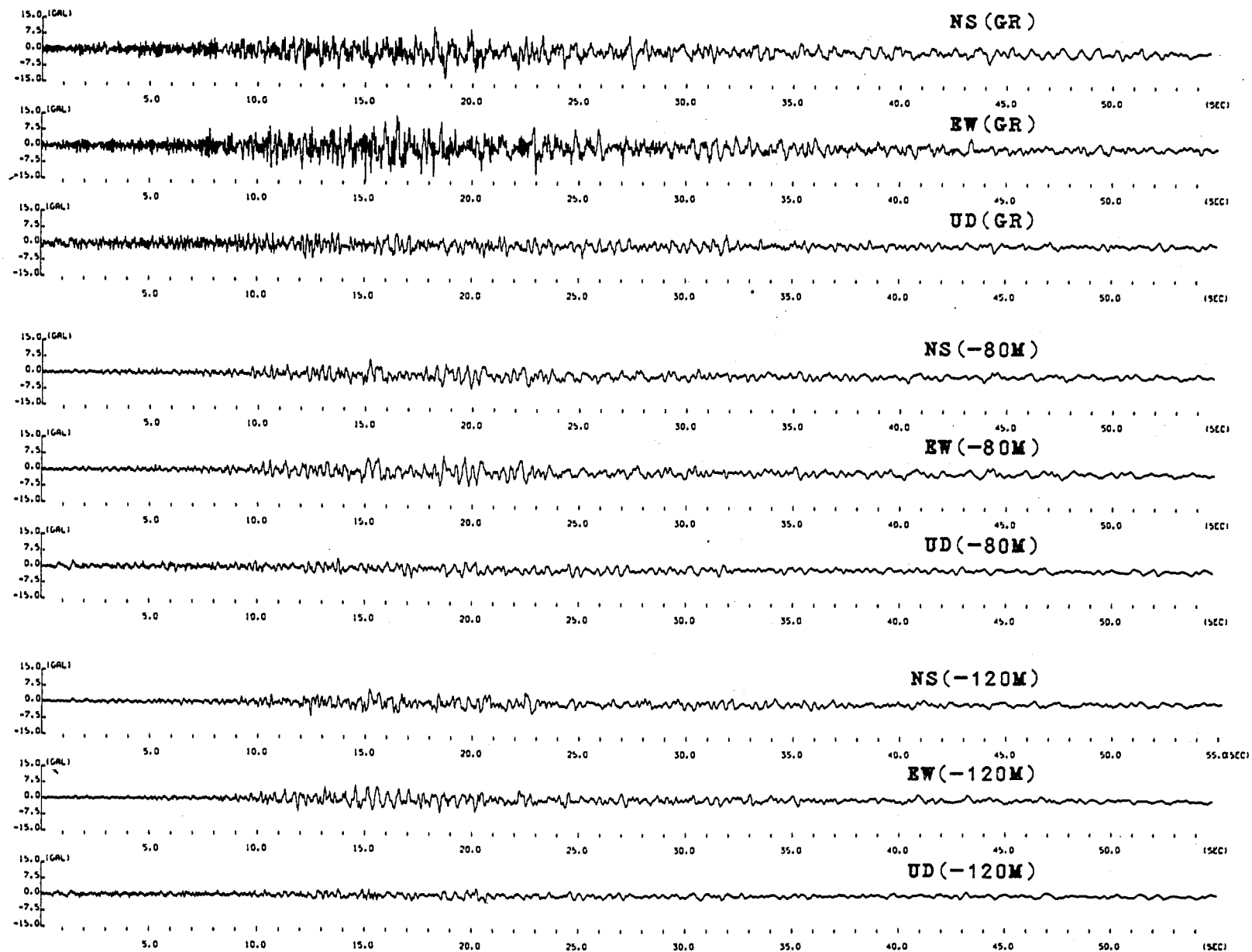
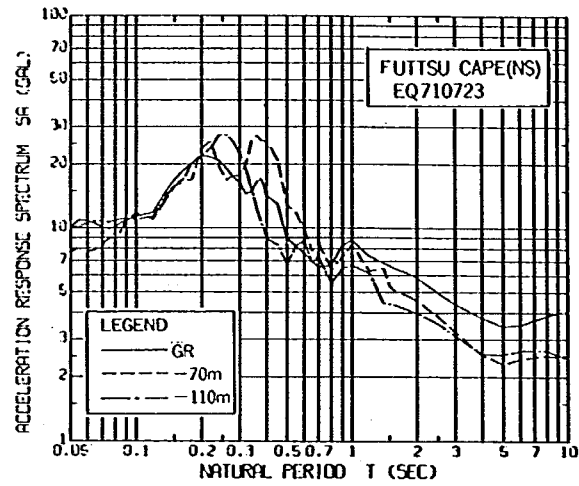


図 1 - 3 (6) 観音崎の地中地震記録波形 (1974. 8. 4, $M = 5.8$, $\Delta = 50 \text{ km}$)

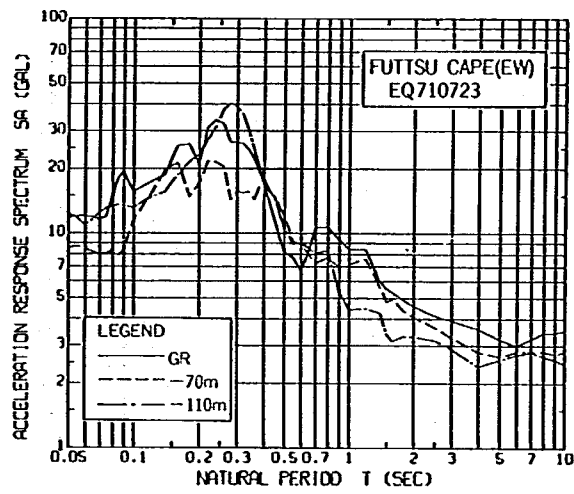
2. 地中地震動の加速度応答スペクトル

図1-1～図1-3に示した記録の加速度応答スペクトル $S_A(T)$ 〔gal〕($h=0.05$)を求めると図2-1(富津岬), 図2-2(浮島公園)および図2-3(観音崎)のようになる。これより, 同一観測点ごとに, 観測深度が異なると加速度応答スペクトル $S_A(T)$ で表わした地震動の強度および周期特性がどのように変化するかを知ることができる。

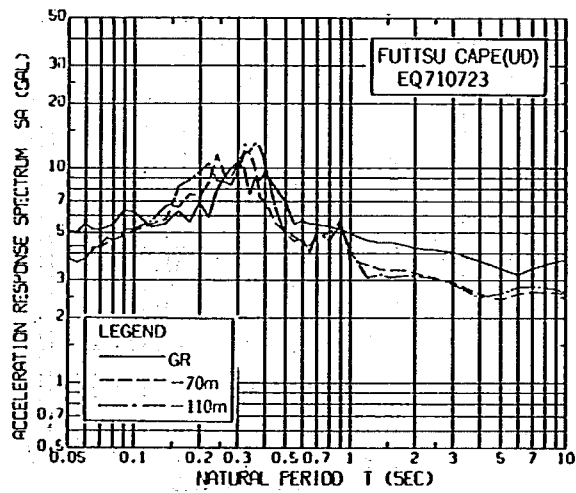
また, 各深度ごとに地震動の周期特性がどのように変化するかを求めるために, 加速度応答スペクトル倍率 $\beta(T)$ ($\beta(T) = S_A(T)/a_{max}$; a_{max} は, 地震動の最大加速度〔gal〕)を求め, 同一観測地点の同一深度における複数回の地震に対する $\beta(T)$ スペクトルの平均値(m)およびこれに標準偏差(σ)の1倍を加減した値を求めた。この結果を図2-4(富津岬), 図2-5(浮島公園)および図2-6(観音崎)に示す。ここで, 平均に $S_A(T)$ スペクトルのかわりに $\beta(T)$ スペクトルを用いたのは, $S_A(T)$ スペクトルは周期特性以外に強度特性が入っており, $S_A(T)$ スペクトルを単純に平均すると強度の大きい記録の周期特性が強調されることを考慮したためである。また, 平均および標準偏差を求めるに際しては, 水平成分(南北成分および東西成分は区分せずに, 両者ともに水平成分として取扱った)および上下成分に分けて行った。これによればいずれの観測所においても, $\beta(T)$ スペクトルの平均値は, 各深度ごとに大きな変化はみられず道路橋示方書耐震設計編に規定する2～3種地盤上での $\beta(T)$ スペクトルに近い特性を有することがわかる。



(a) N-S 成分

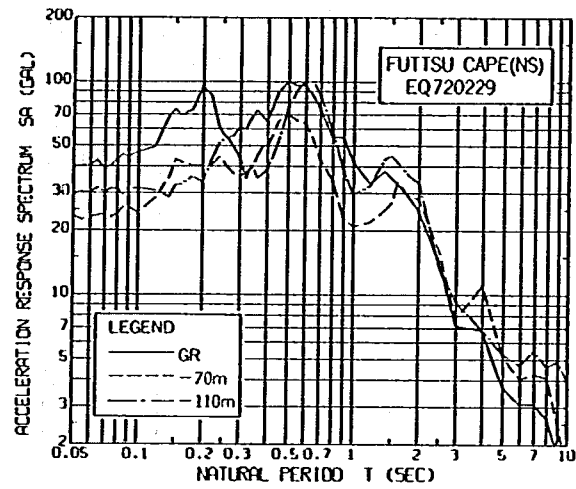


(b) E-W 成分

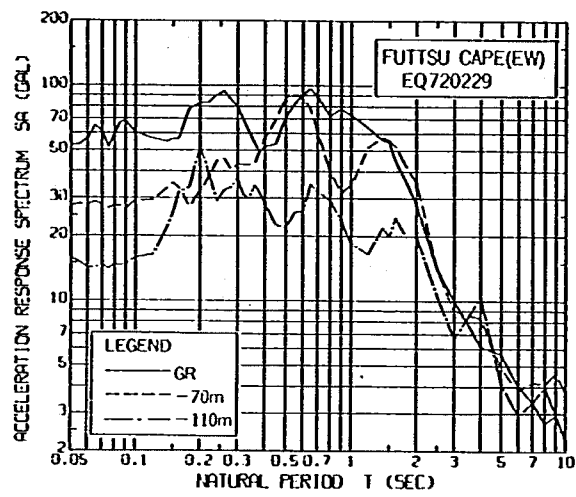


(c) U-D 成分

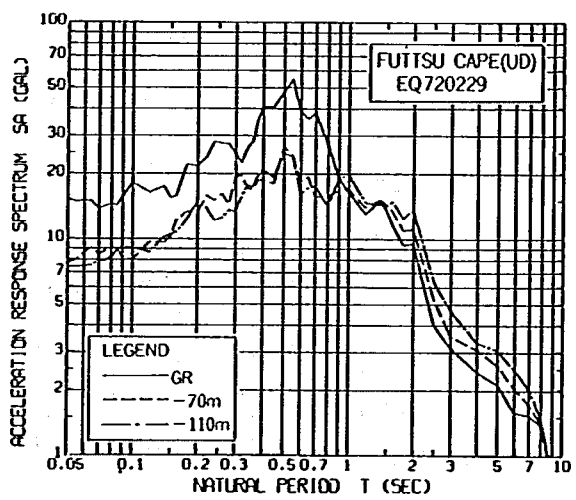
図 2-1(1) 加速度応答スペクトル (富津岬, 1971. 7. 23)



(a) N-S 成分

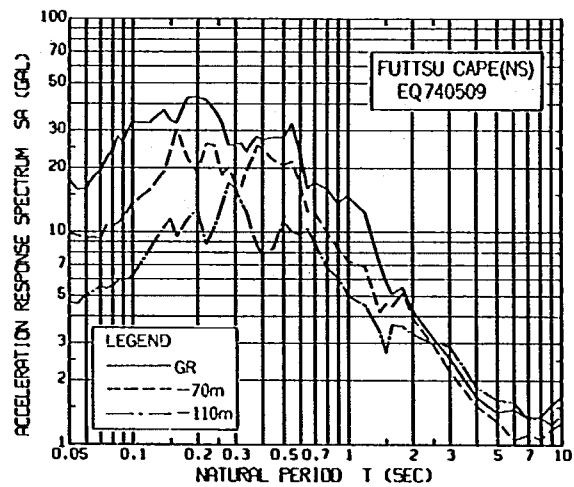


(b) E-W 成分

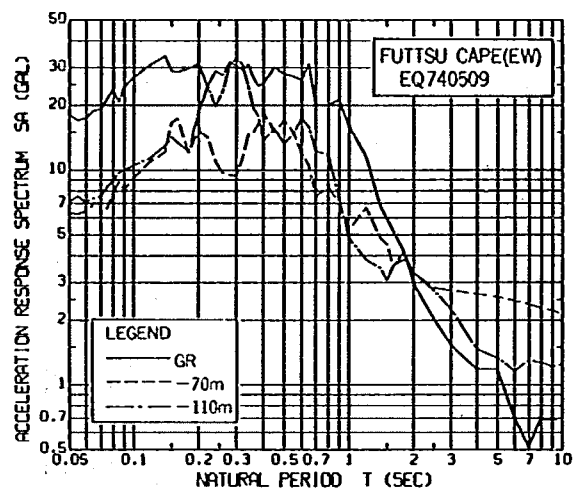


(c) U-D 成分

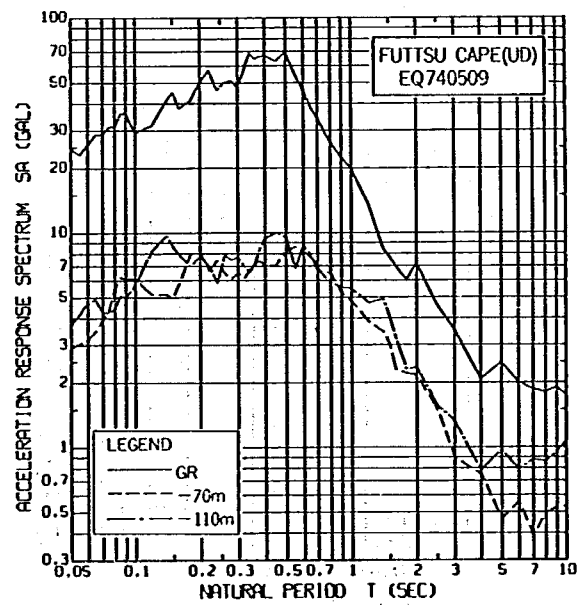
図 2 - 1 (2) 加速度応答スペクトル (富津岬, 1972. 2. 29)



(a) $N-S$ 成分

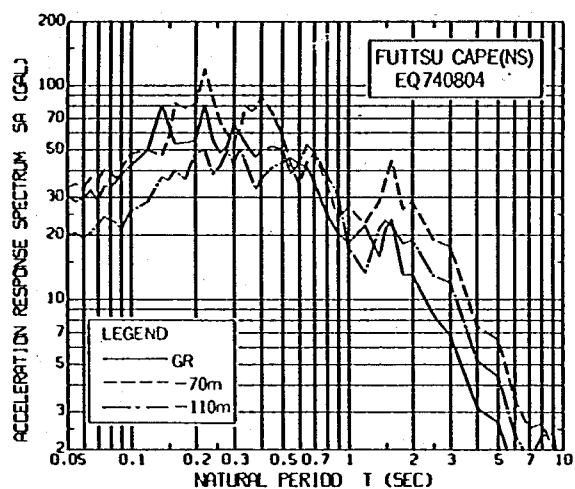


(b) $E-W$ 成分

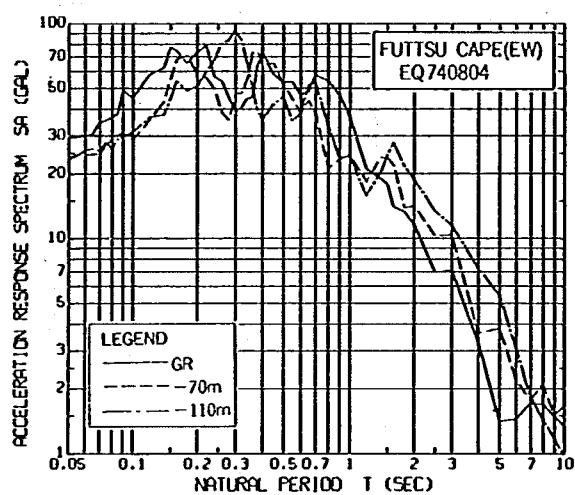


(c) $U-D$ 成分

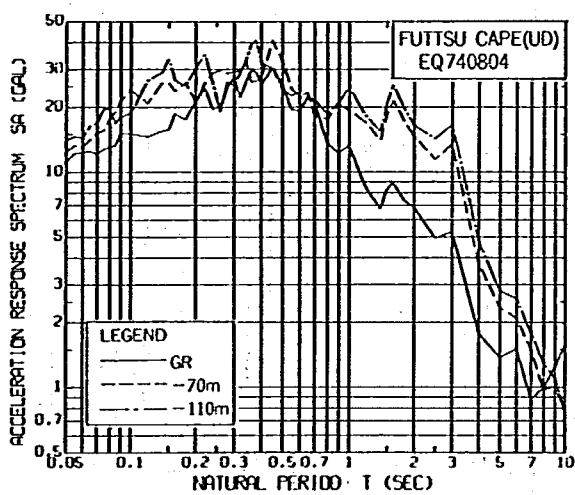
図 2-1 (3) 加速度応答スペクトル (富津岬, 1974.5.9)



(a) N-S 成分

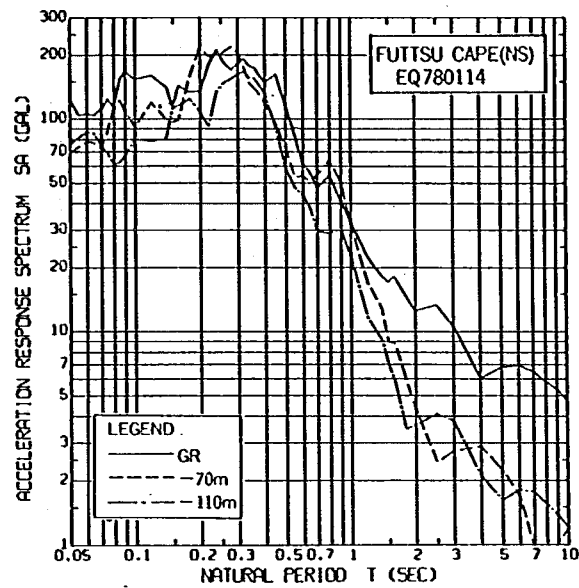


(b) E-W 成分

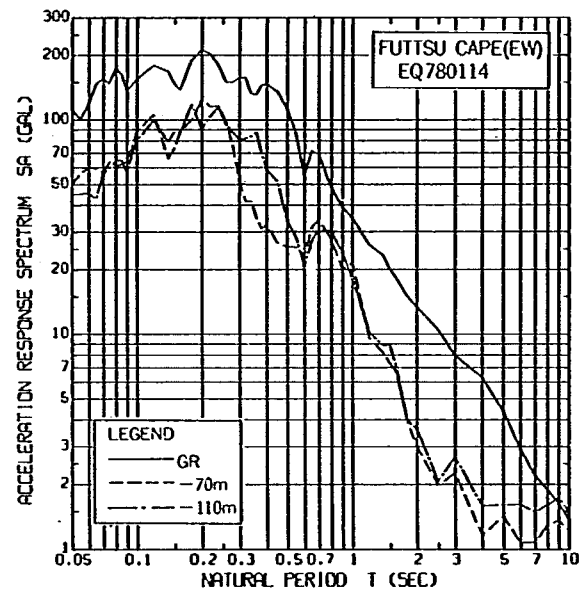


(c) U-D 成分

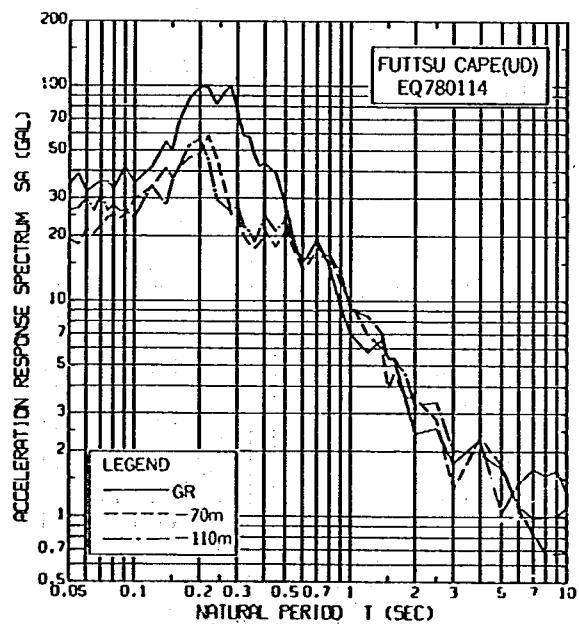
図 2-1 (4) 加速度応答スペクトル (富津岬, 1974. 8. 4)



(a) N-S 成分

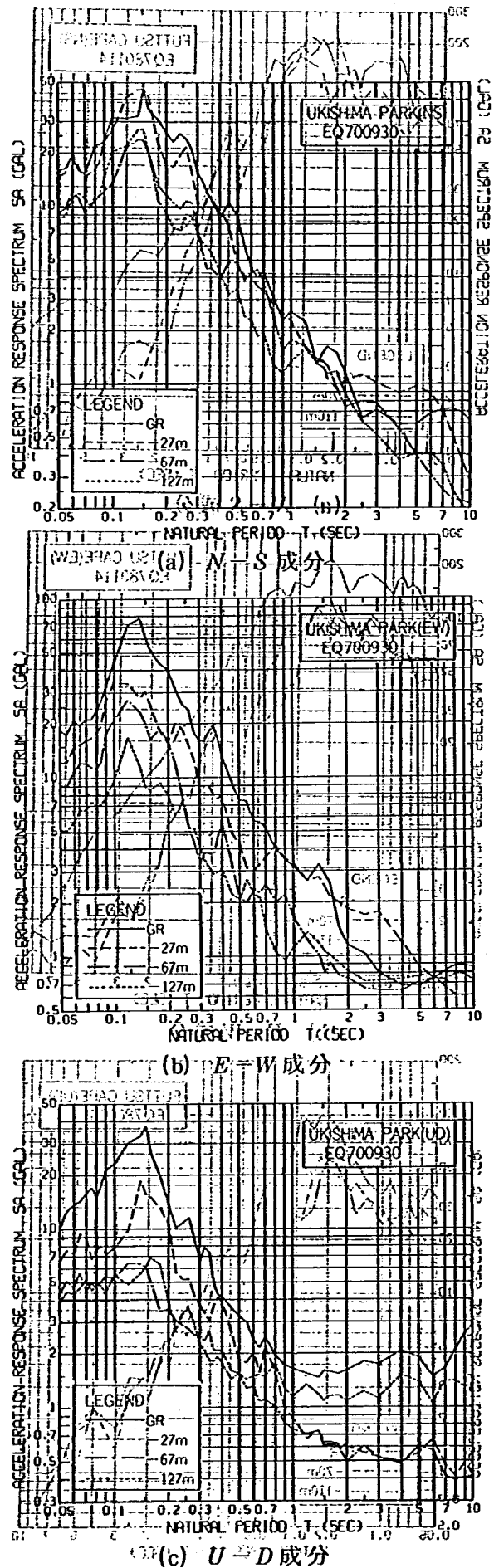


(b) E-W 成分

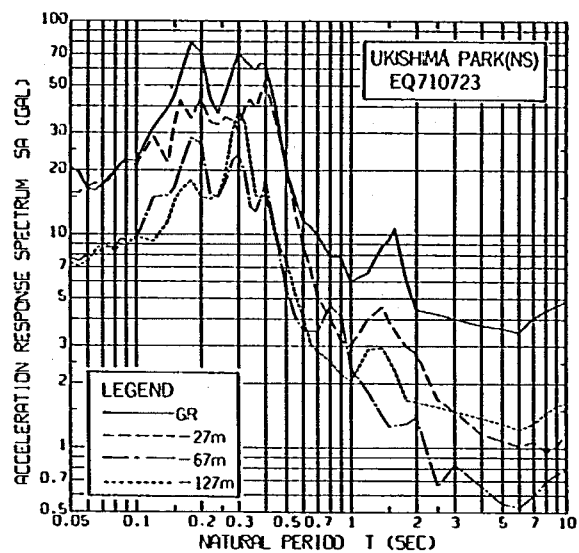


(c) U-D 成分

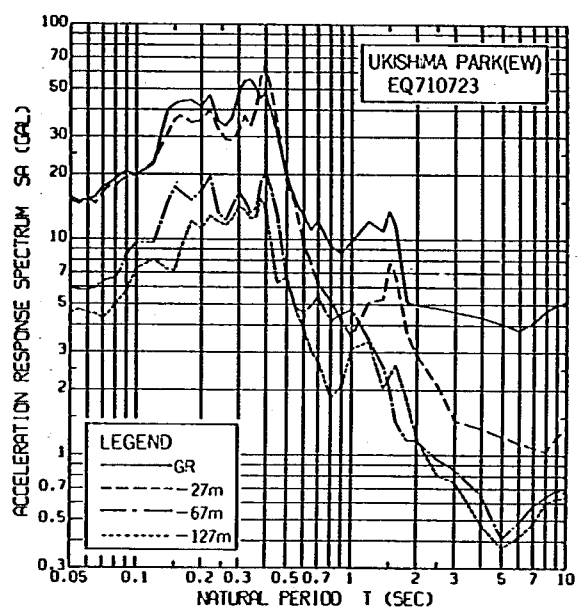
図 2-1 (5) 加速度応答スペクトル (富津岬, 1978. 1. 14)



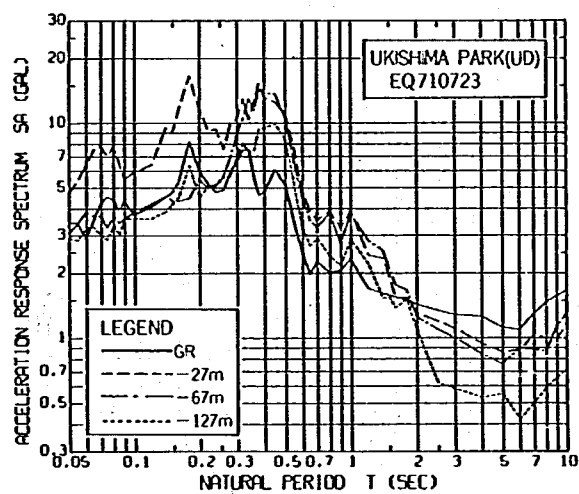
(図2-2(1)) 加速度応答スペクトル (浮島公園, 1970.9.30)



(a) N-S 成分

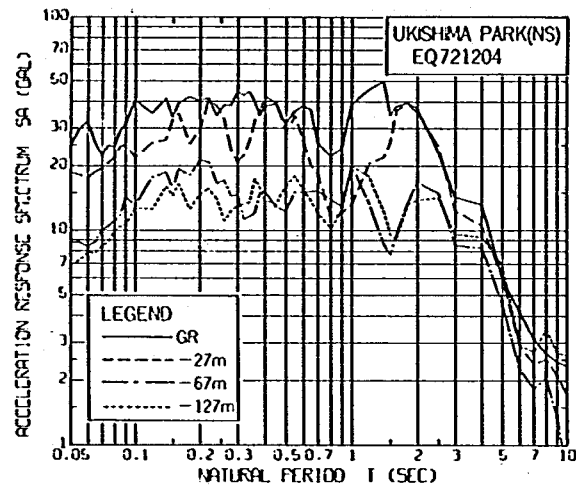


(b) E-W 成分

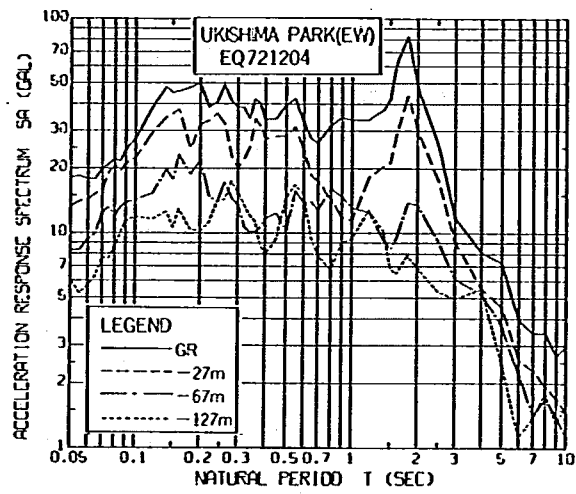


(c) U-D 成分

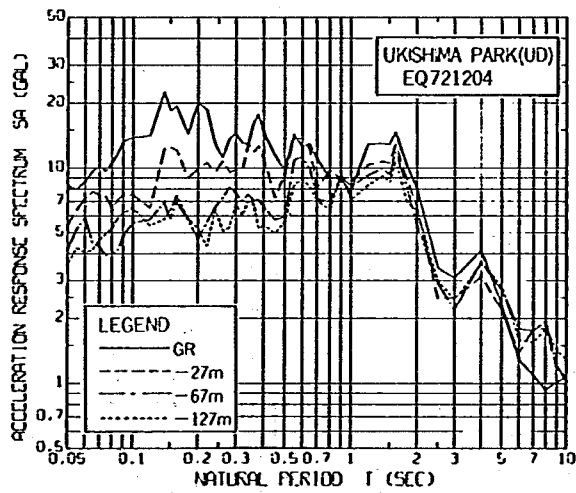
(図 2-2 (2)) 加速度応答スペクトル (浮島公園, 1971. 7. 23)



(a) N-S 成分

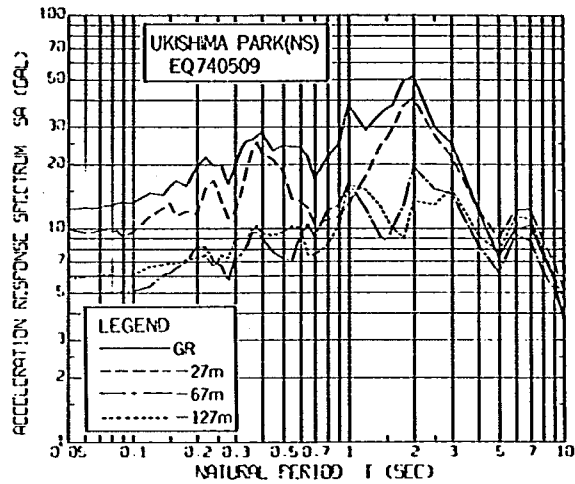


(b) E-W 成分

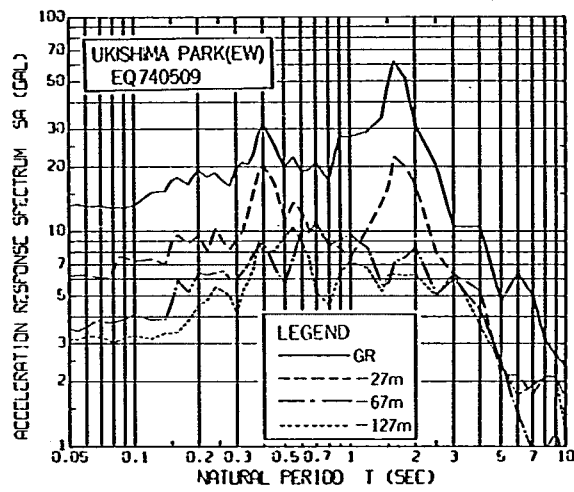


(c) U-D 成分

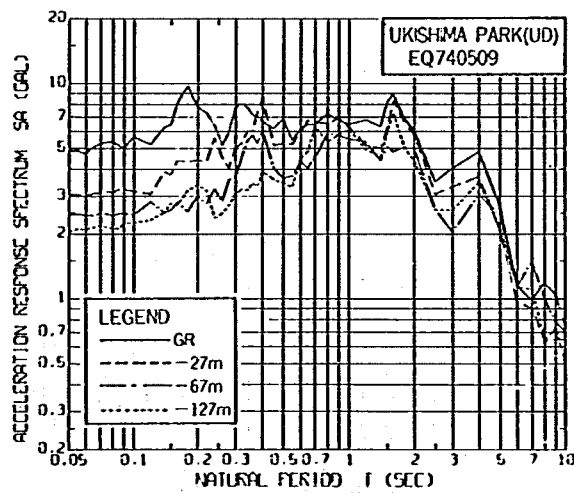
図 2-2 (3) 加速度応答スペクトル (浮島公園, 1972. 12. 4)



(a) N-S 成分

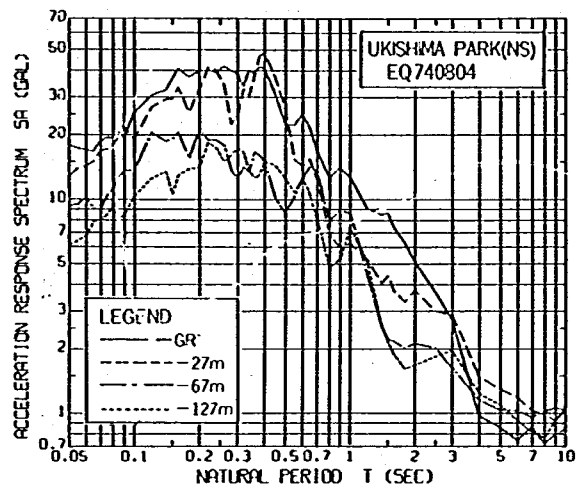


(b) E-W 成分

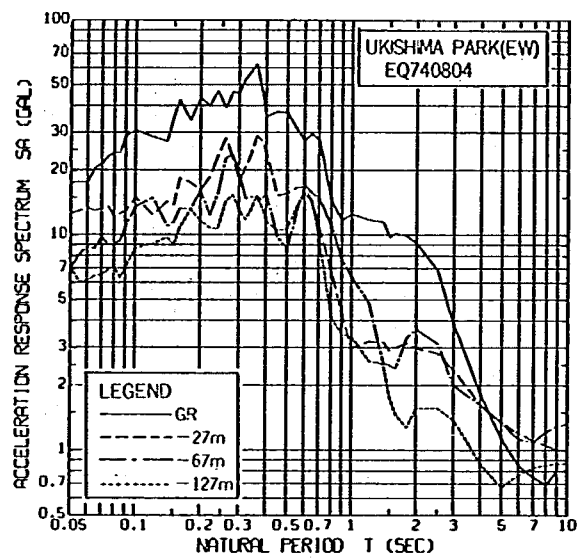


(c) U-D 成分

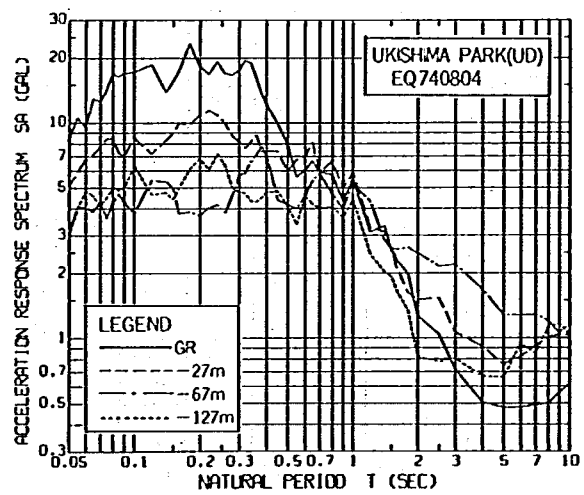
図 2-2 (4) 加速度応答スペクトル (浮島公園, 1974. 5. 9)



(a) N-S 成分

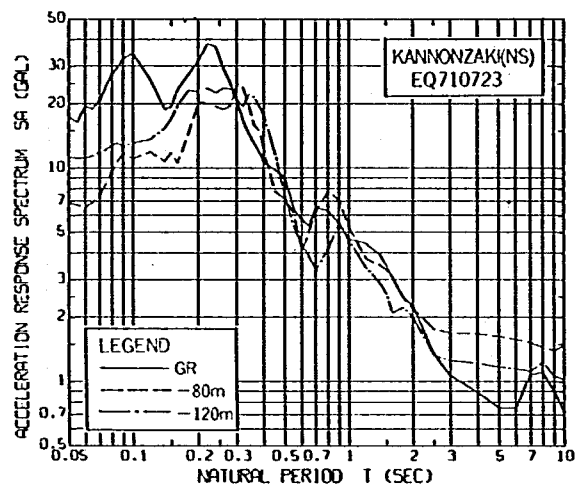


(b) E-W 成分

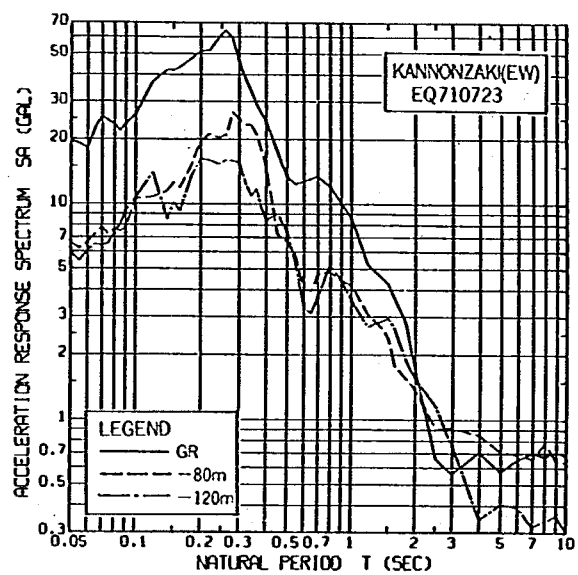


(c) U-D 成分

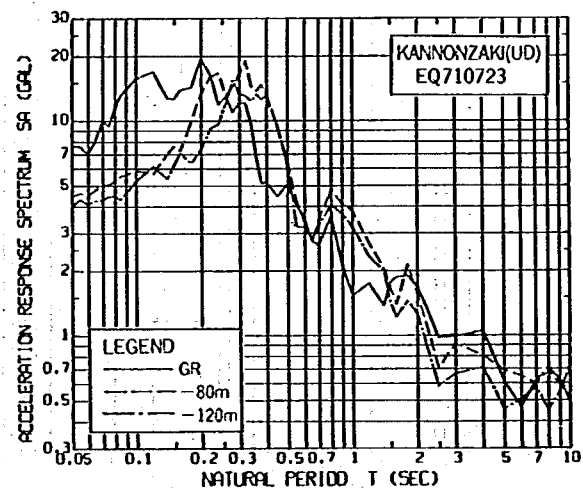
図 2-2 (5) 加速度応答スペクトル (浮島公園, 1974. 8. 4)



(a) N-S 成分

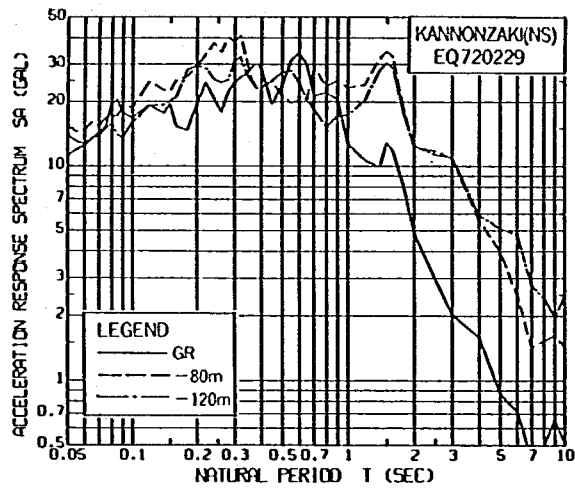


(b) E-W 成分

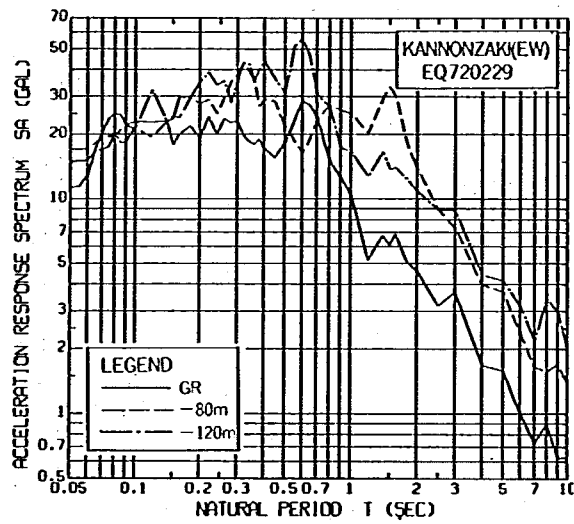


(c) U-D 成分

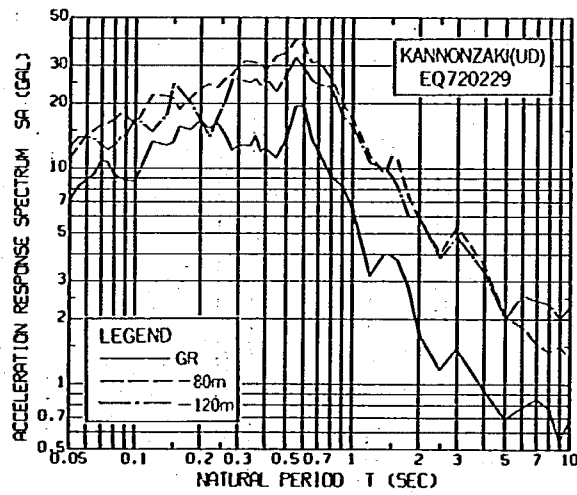
図 2-3 (1) 加速度応答スペクトル (観音崎, 1971. 7. 23)



(a) N-S 成分

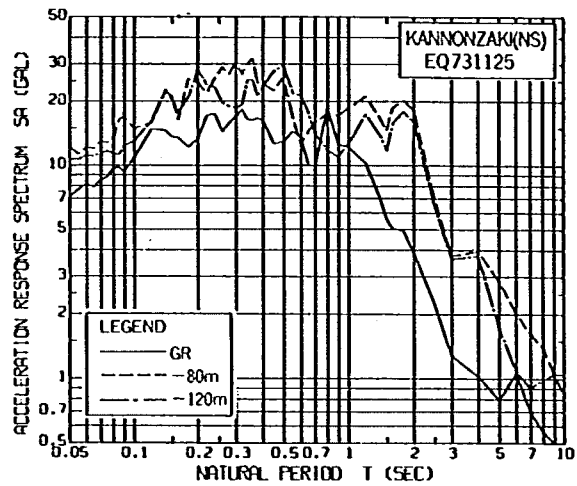


(b) E-W 成分

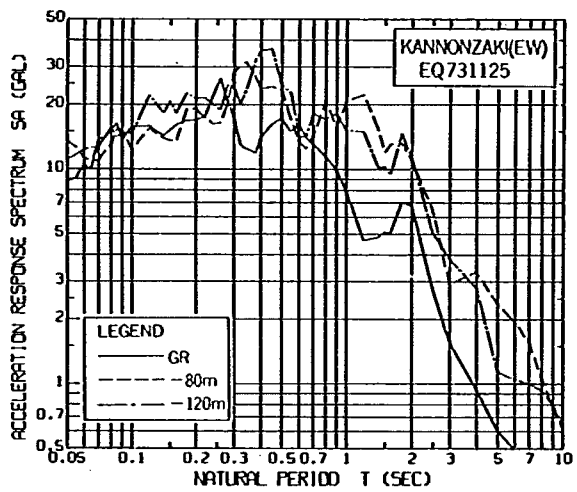


(c) U-D 成分

図 2-3 (2) 加速度応答スペクトル (観音崎, 1972. 2. 29)

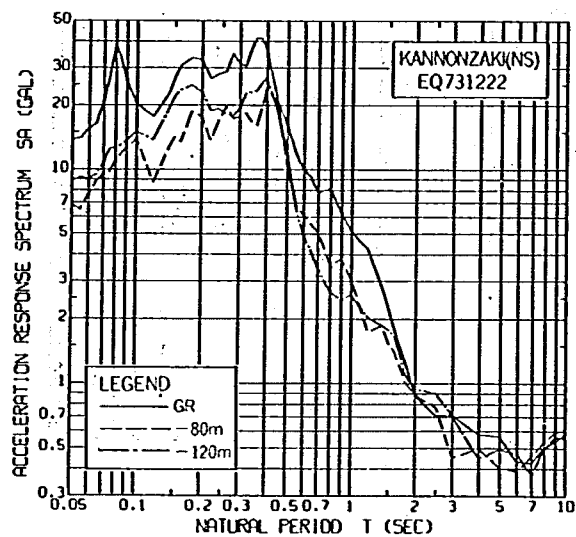


(a) N-S 成分

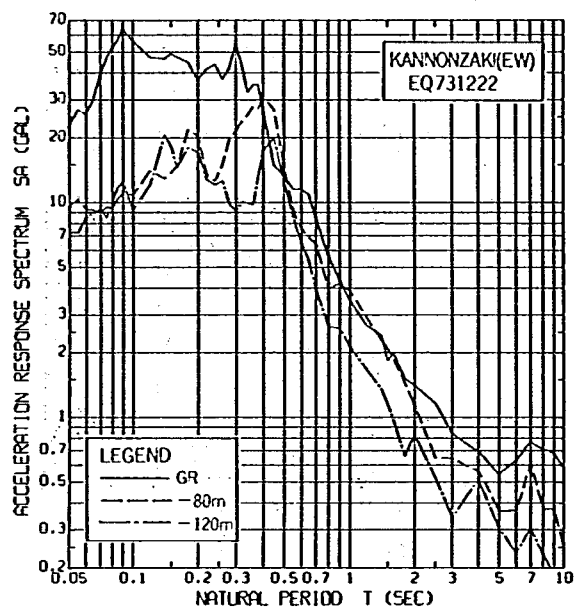


(b) E-W 成分

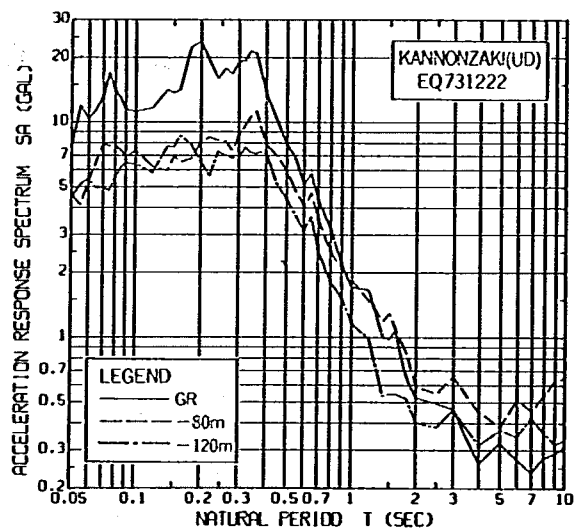
図 2-3 (3) 加速度応答スペクトル (観音崎, 1973. 11. 25)



(a) N-S 成分

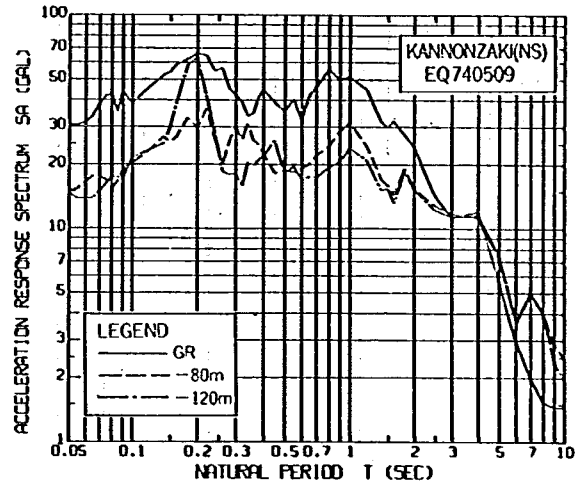


(b) E-W 成分

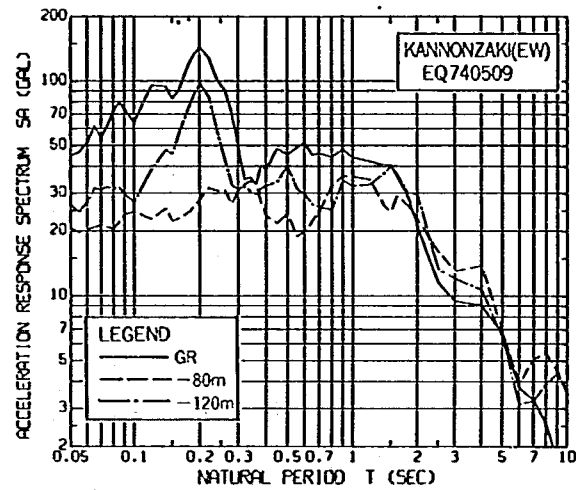


(c) U-D 成分

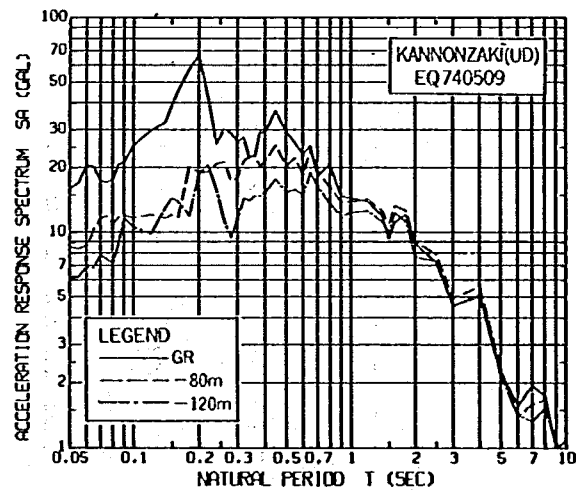
図 2-3 (4) 加速度応答スペクトル (観音崎, 1973. 12. 22)



(a) N-S 成分

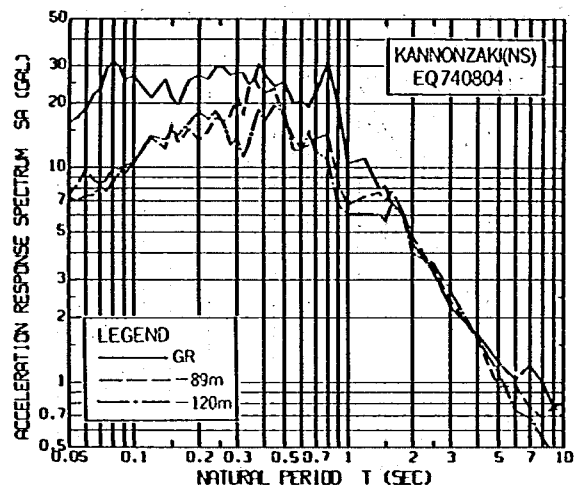


(b) E-W 成分

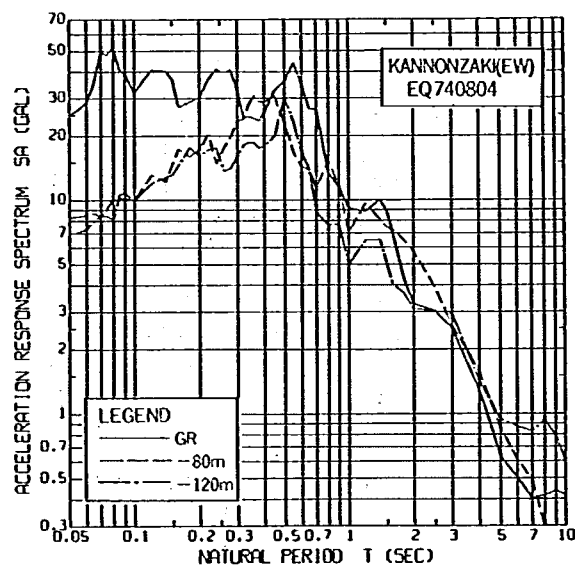


(c) U-D 成分

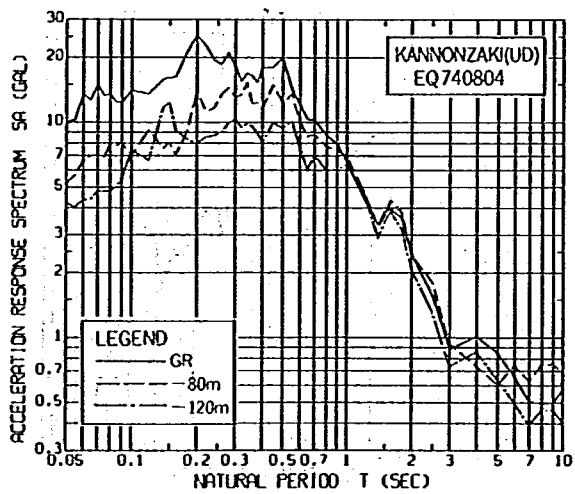
図 2-3 (5) 加速度応答スペクトル (観音崎, 1974. 5. 9)



(a) $N-S$ 成分

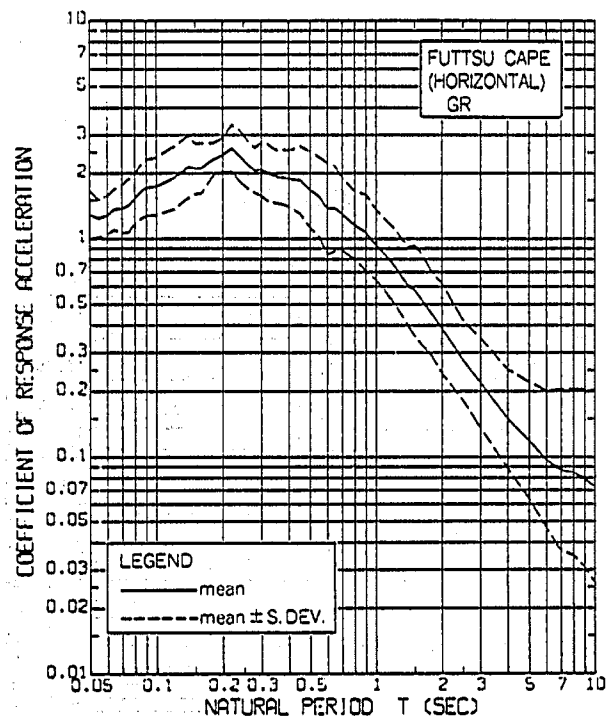


(b) $E-W$ 成分

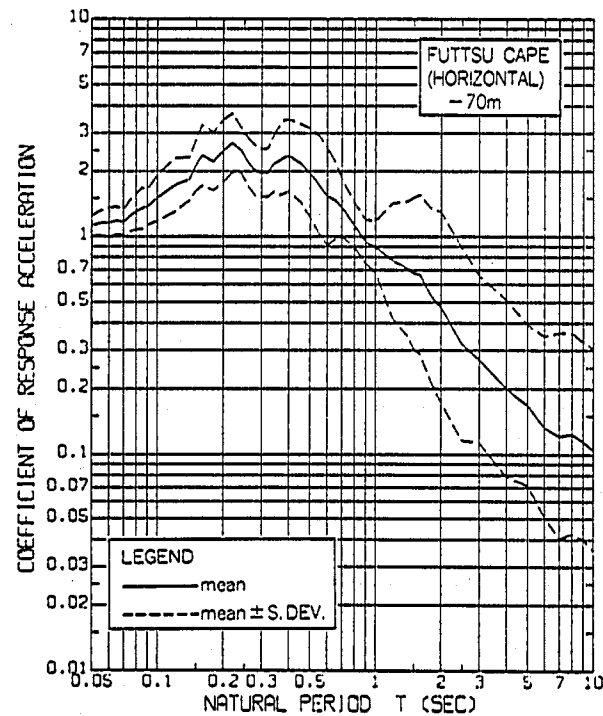


(c) $U-D$ 成分

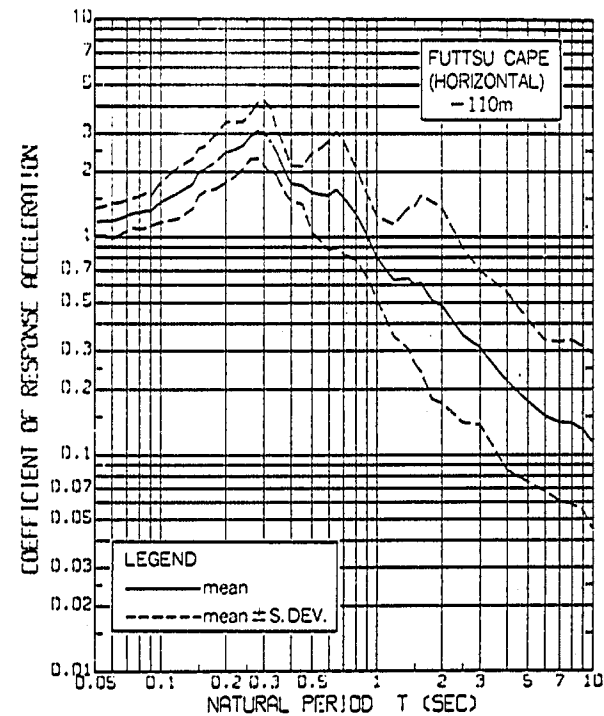
図 2-3 (6) 加速度応答スペクトル (観音崎, 1974. 8. 4)



(a) GR

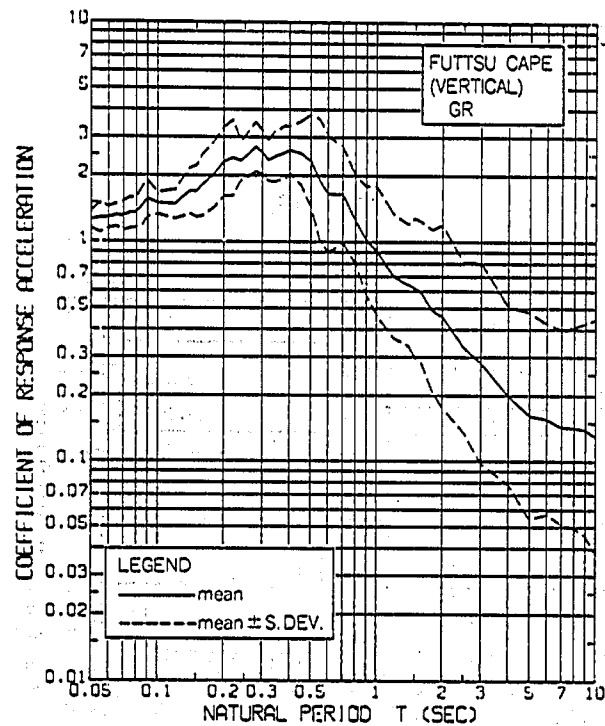


(b) - 70 m

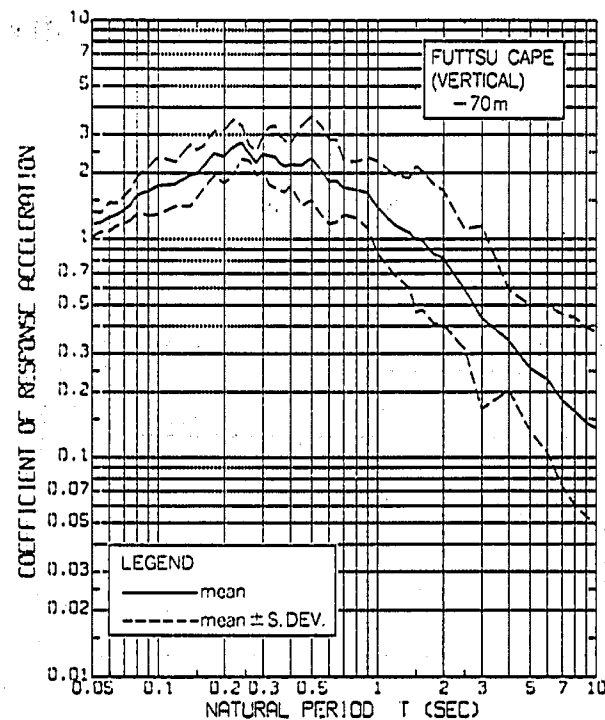


(c) - 110 m

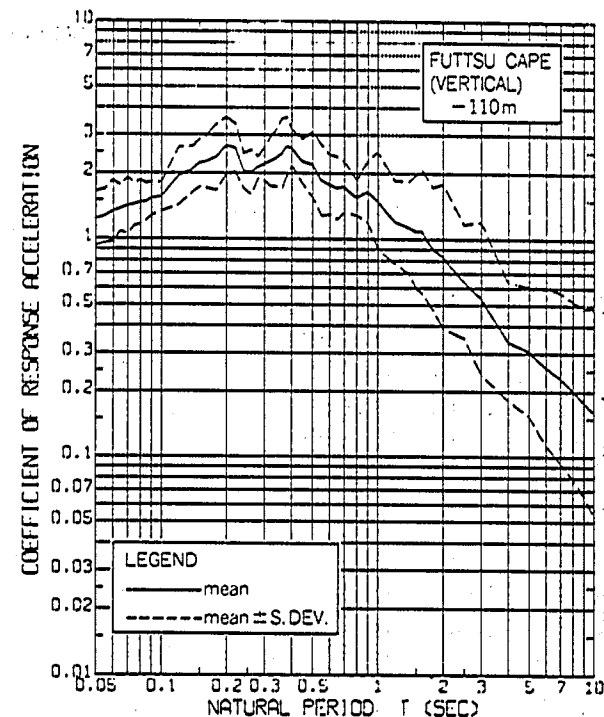
図 2-4 (1) 絶対加速度応答スペクトル倍率 (富津岬, 水平成分)



(a) GR

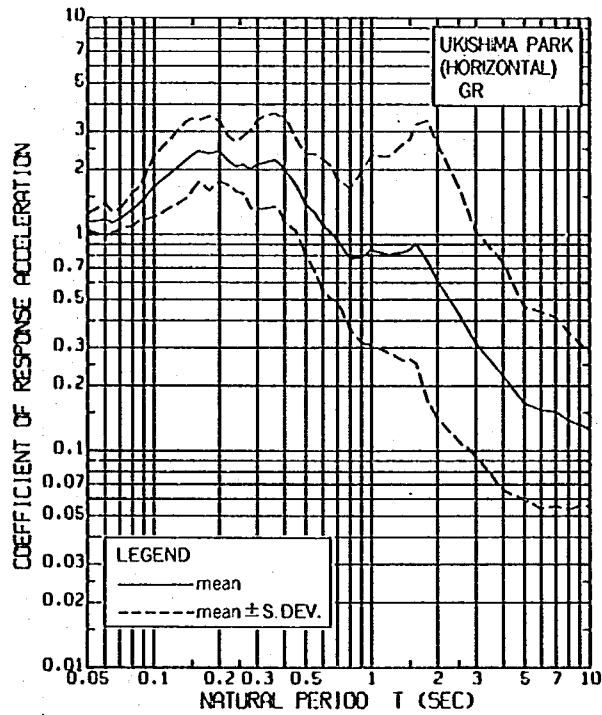


(b) -70 m

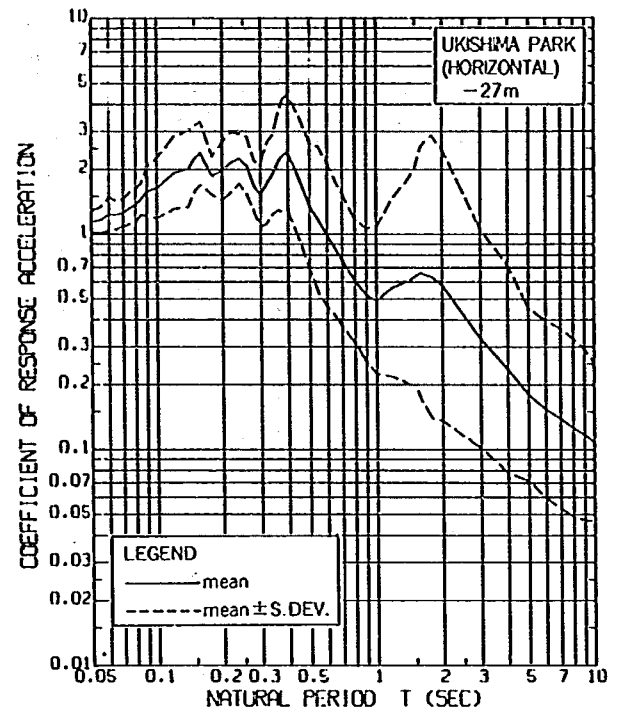


(c) -110 m

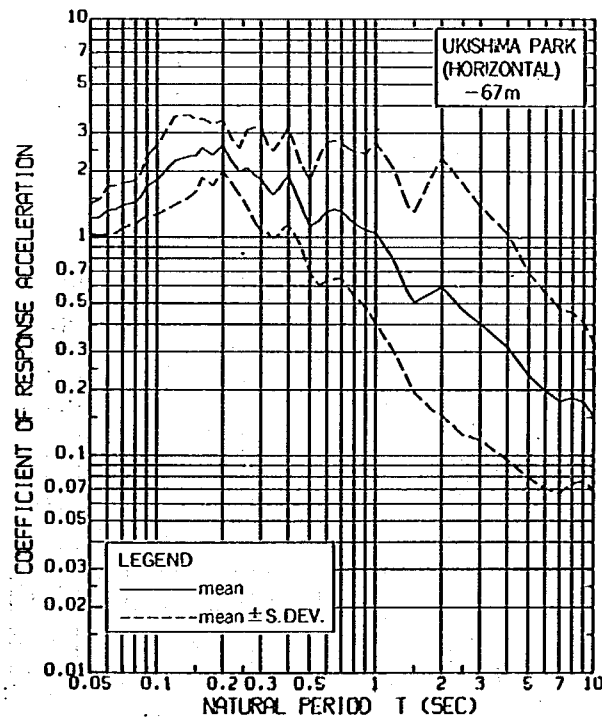
図2-4(2) 絶対加速度応答スペクトル倍率 (富津岬, 上下成分)



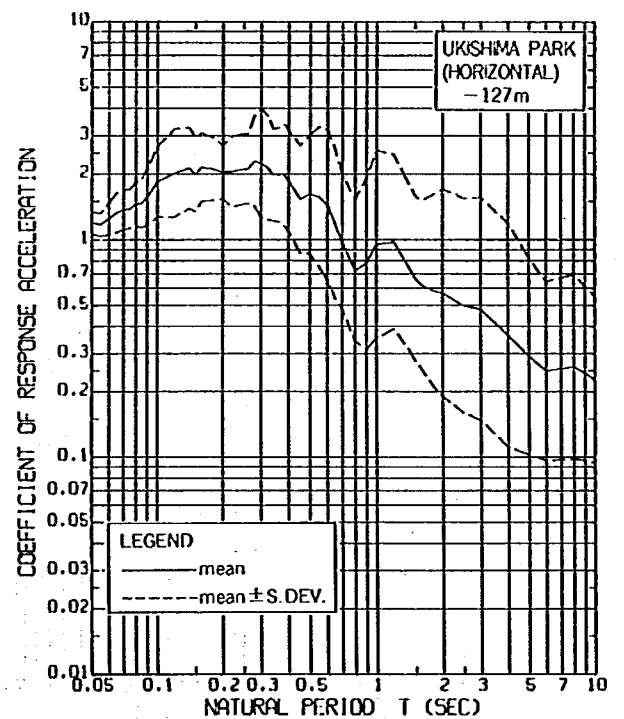
(a) GR



(b) - 27 m

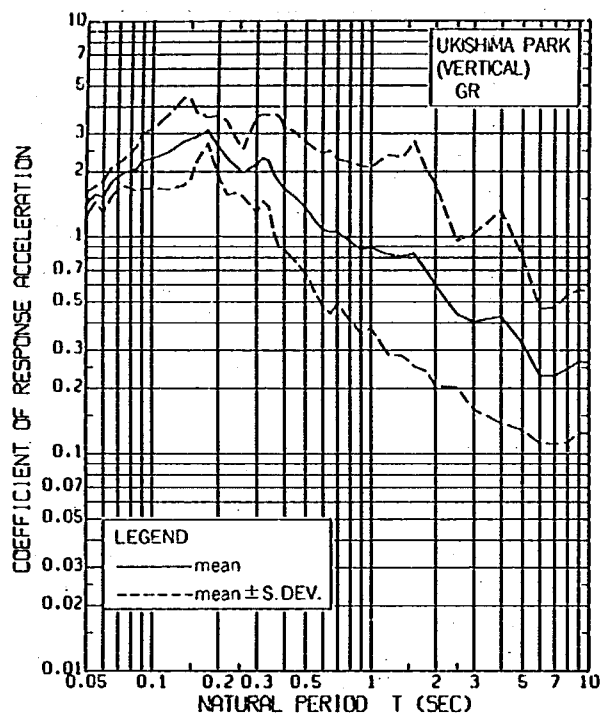


(c) - 67 m

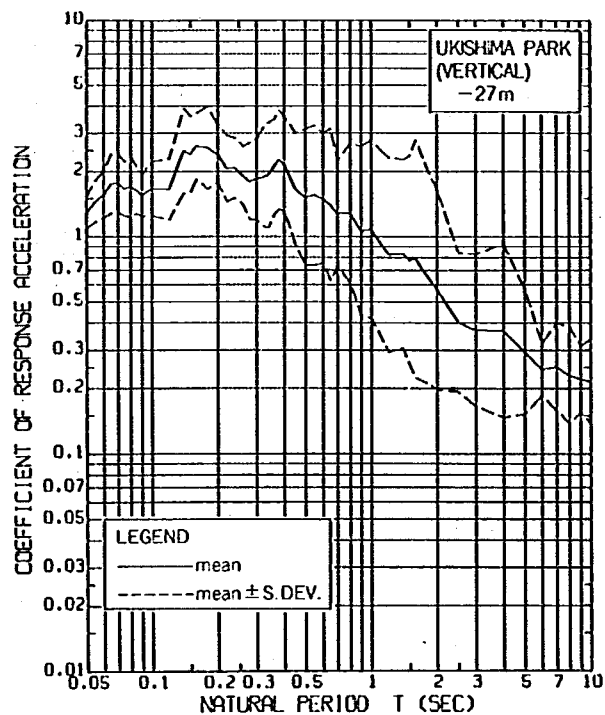


(d) - 127 m

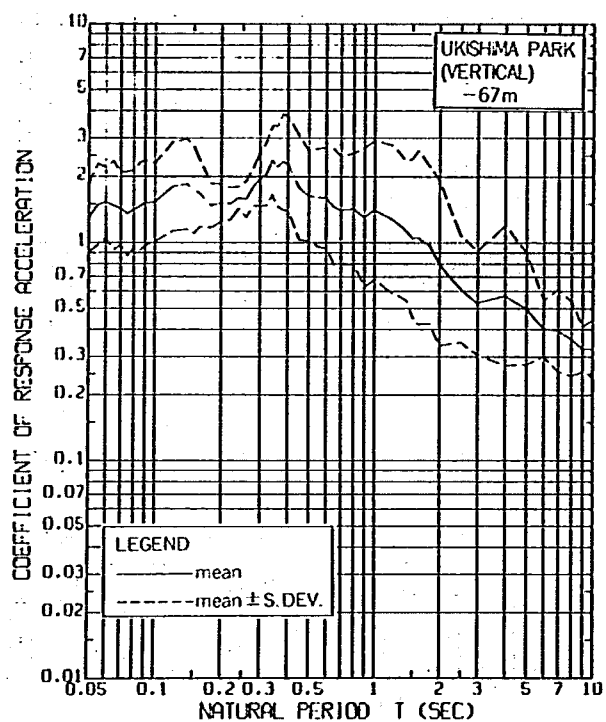
図 2-5 (1) 絶対加速度応答スペクトル倍率 (浮島公園, 水平成分)



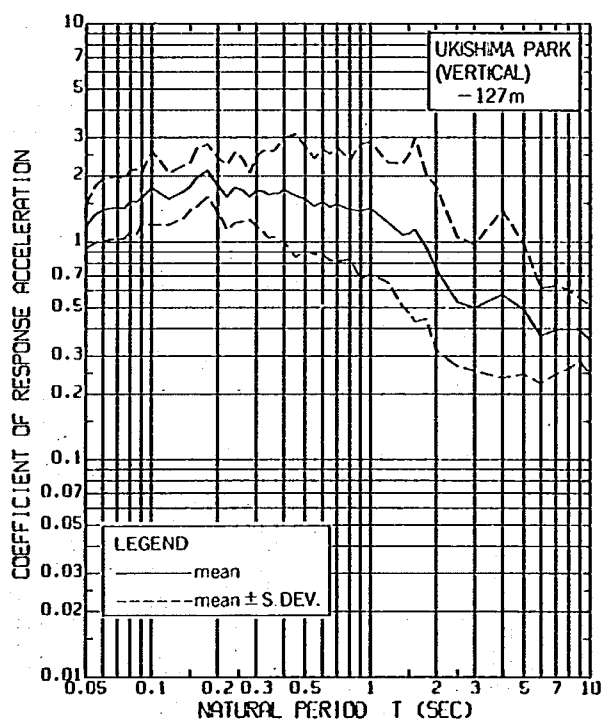
(a) GR



(b) - 27 m

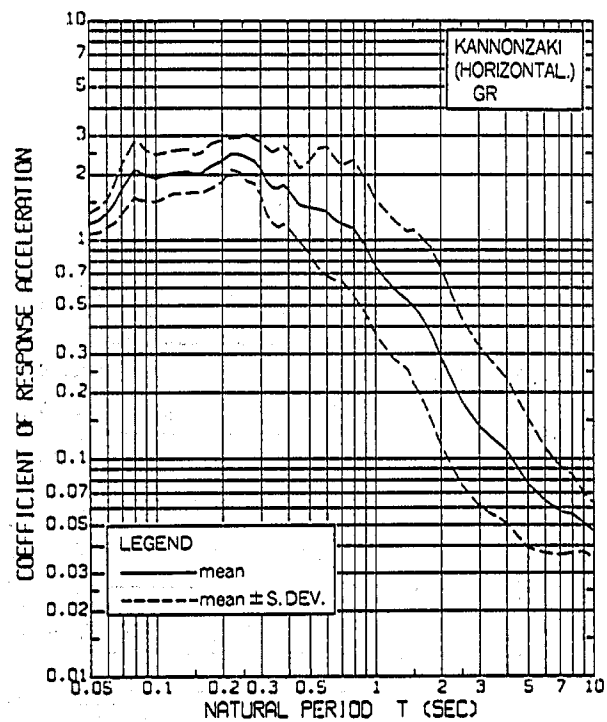


(c) - 67 m

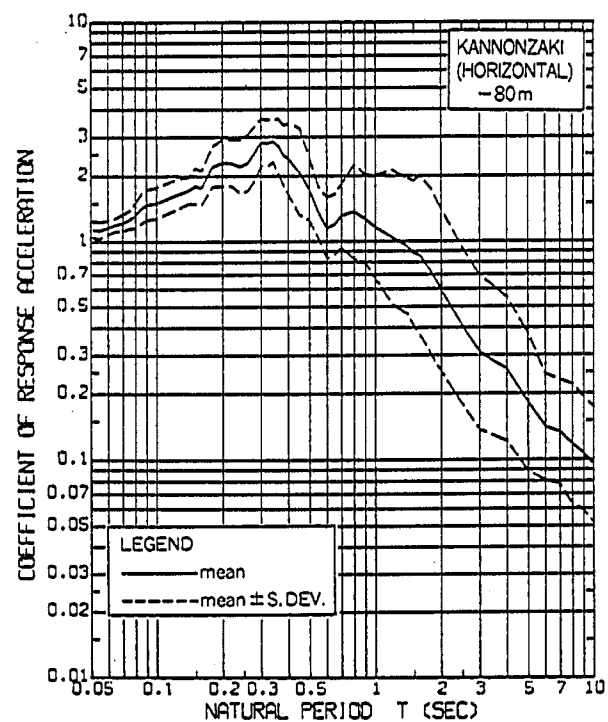


(d) - 127 m

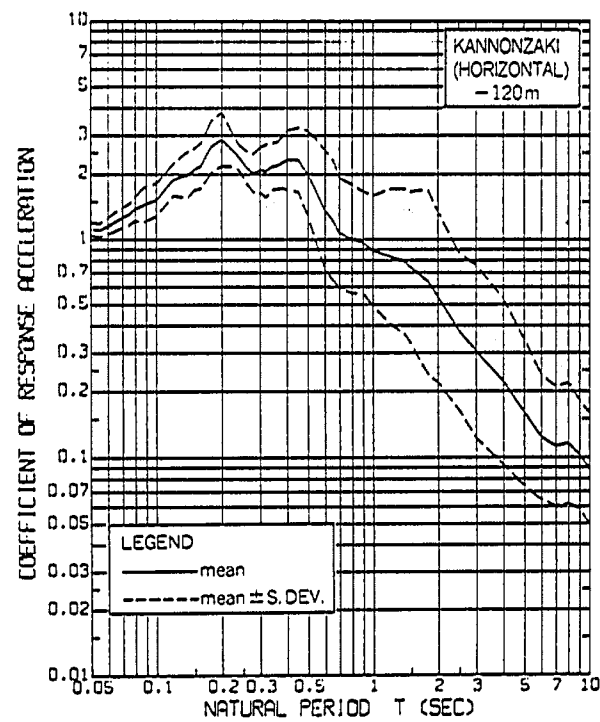
図 2 - 5 (2) 絶対加速度応答スペクトル倍率 (浮島公園, 上下成分)



(a) GR

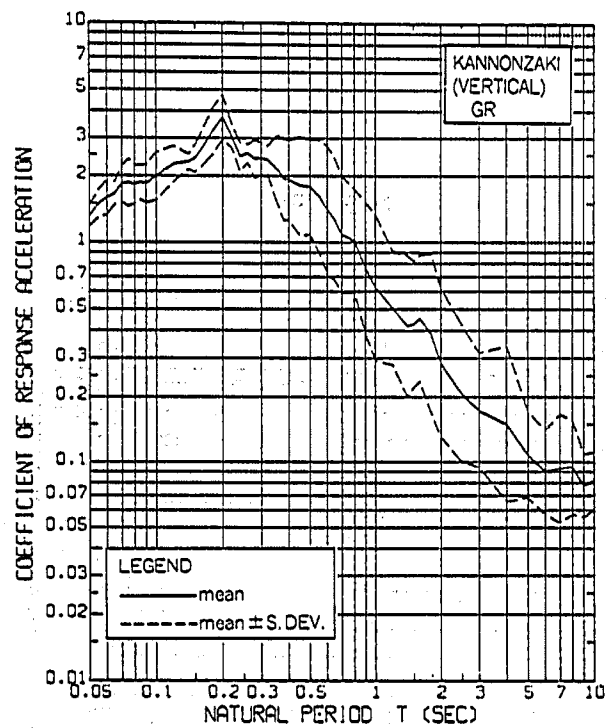


(b) - 80 m

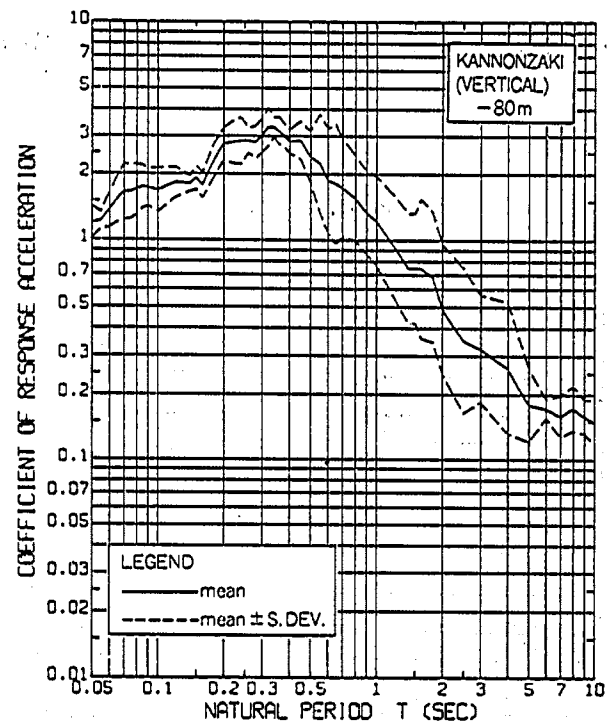


(c) - 120 m

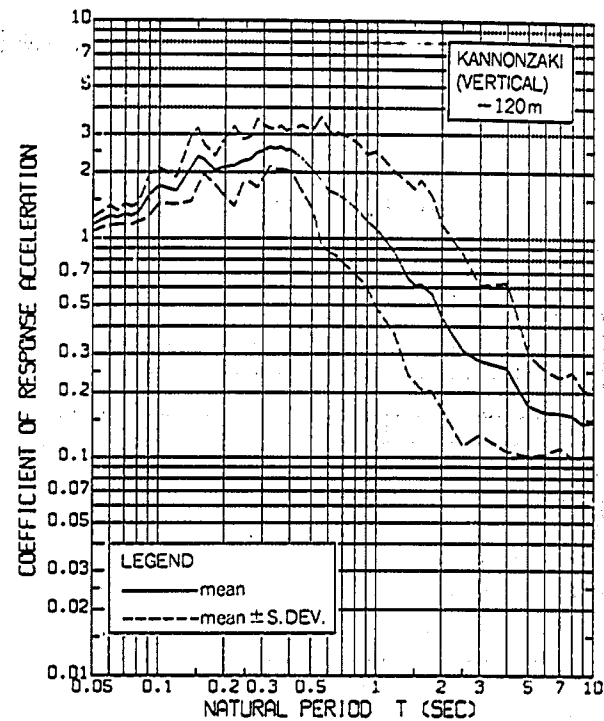
図 2 - 6 (1) 絶対加速度応答スペクトル倍率 (観音崎, 水平成分)



(a) GR



(b) - 80 m



(c) - 120 m

図 2 - 6 (2) 絶対加速度応答スペクトル倍率 (観音崎, 上下成分)

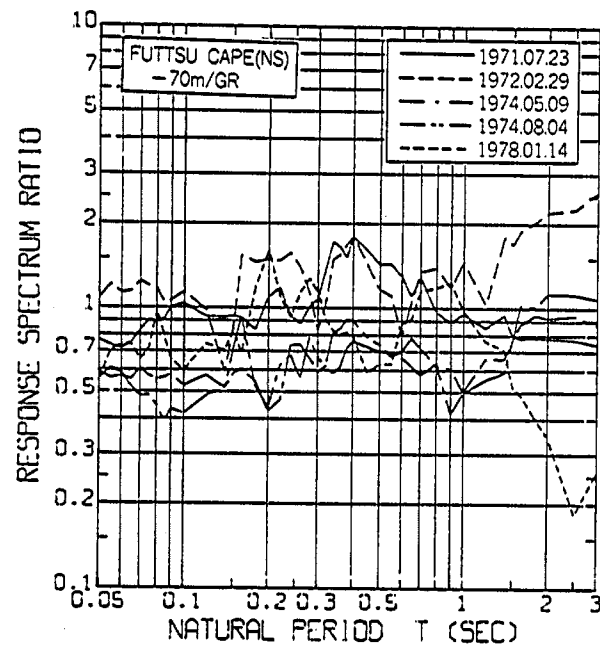
3. 加速度応答スペクトル比による増幅特性

同一観測地点の記録ごとに、地表面の加速度応答スペクトルに比較して地中の加速度応答スペクトルがどのように減少するかを調査するために、次式により S_A スペクトルの減少率 γ を定義した。

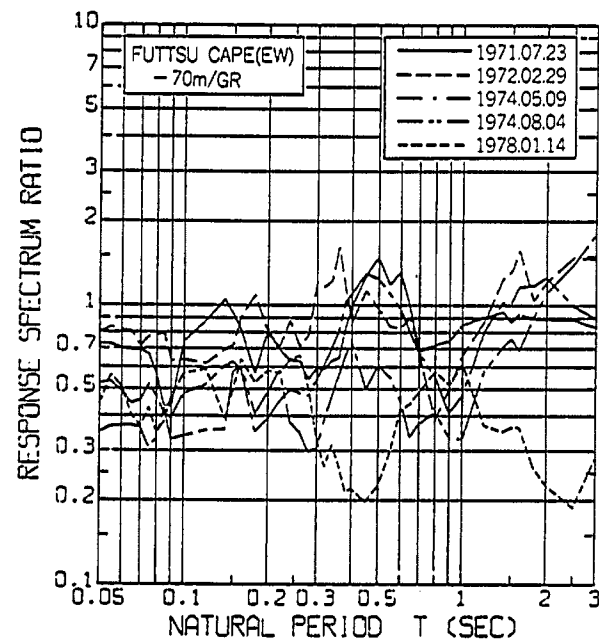
$$\gamma_{x/GR}^H = \frac{\text{地表面から } xm \text{ の位置における水平方向地震動の } S_A \text{ スペクトル}}{\text{地表面における水平方向地震動の } S_A \text{ スペクトル}}$$

$$\gamma_{x/GR}^V = \frac{\text{地表面から } xm \text{ の位置における上下方向地震動の } S_A \text{ スペクトル}}{\text{地表面における上下方向地震動の } S_A \text{ スペクトル}}$$

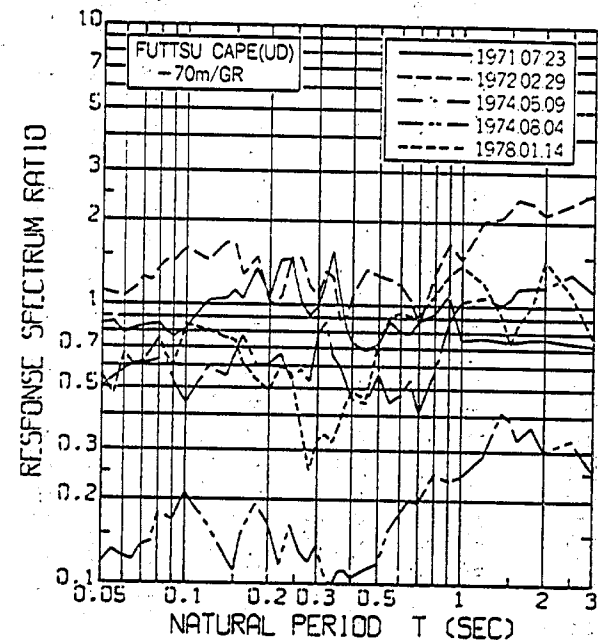
観測所ごとに $\gamma_{x/GR}^H$ および $\gamma_{x/GR}^V$ を求めた結果が図 3-1 (富津岬), 図 3-2 (浮島公園) および図 3-3 (観音崎) である。また, これらを複数回の地震に対して平均し, 平均値 (m) および標準偏差 (σ) を求めると図 3-4 (富津岬), 図 3-5 (浮島公園) および図 3-6 (観音崎) のようになる。これらの結果により, 地表面の S_A スペクトルを 1.0 とした場合の地中の S_A スペクトルの平均的な減少率を知ることができる。



(a) $\gamma_{-70/GR}^{NS}$

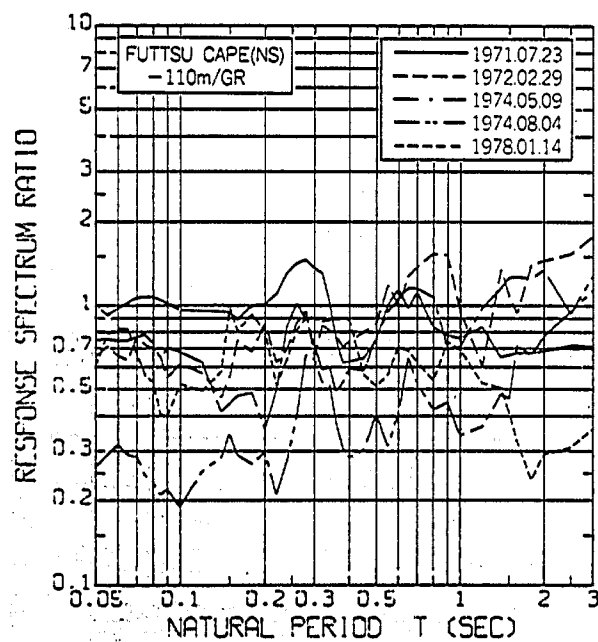


(b) $\gamma_{-70/GR}^{EW}$

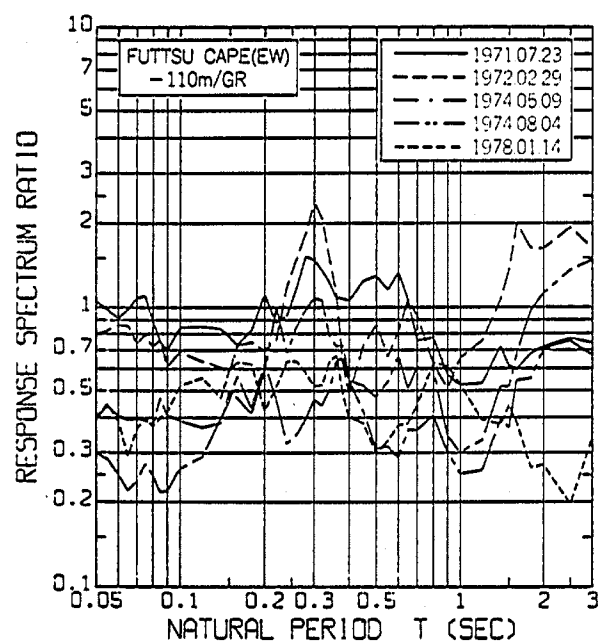


(c) $\gamma_{-70/GR}^{UD}$

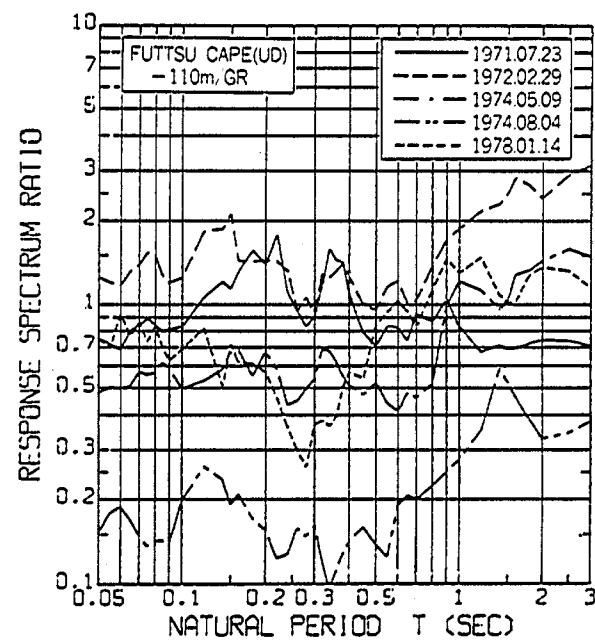
図 3-1 (1) 加速度応答スペクトル比 γ (富津岬)



(a) $\gamma_{-110/GR}^{NS}$

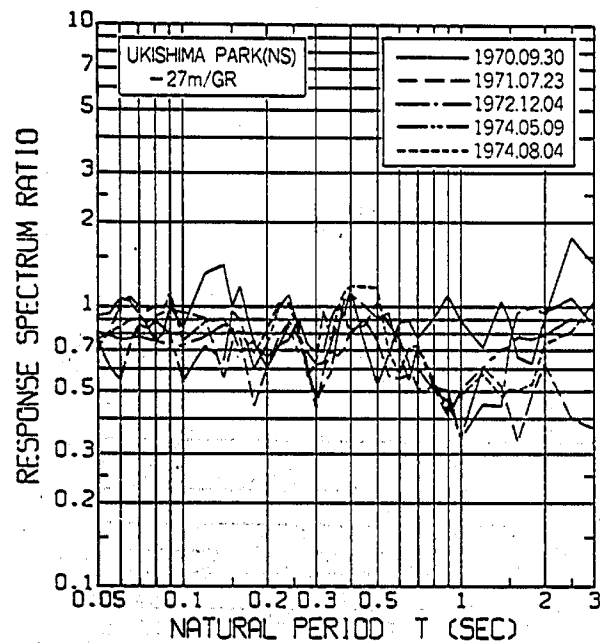


(b) $\gamma_{-110/GR}^{EW}$

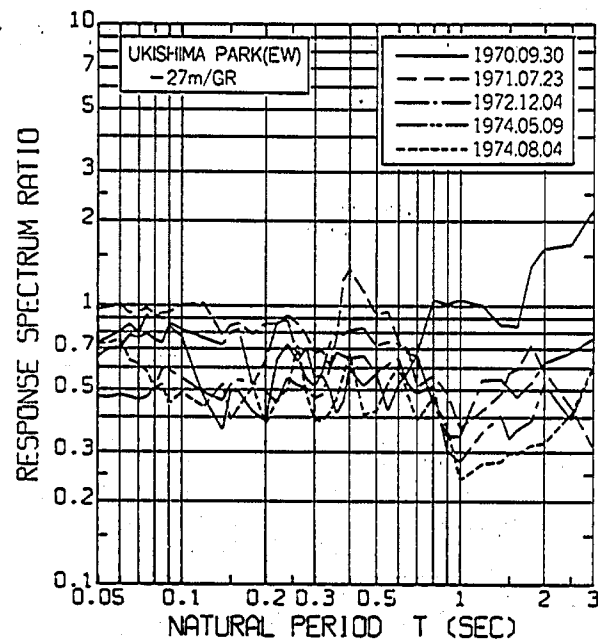


(c) $\gamma_{-110/GR}^{UD}$

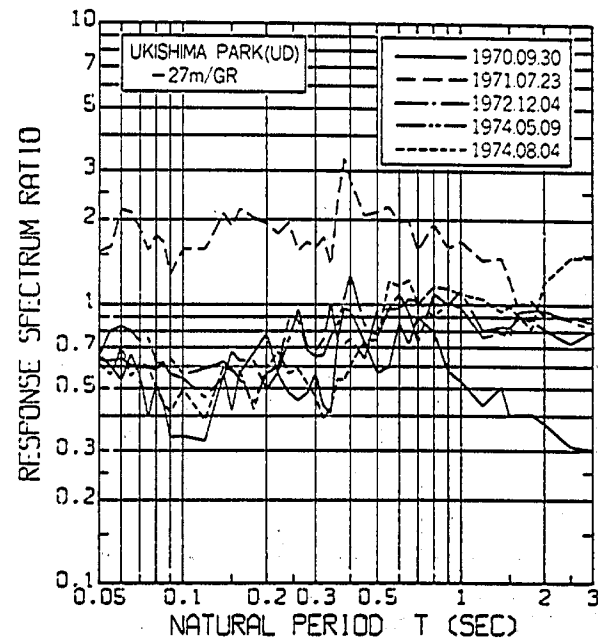
図 3-1 (2) 加速度応答スペクトル比 γ (富津岬)



(a) $\gamma_{-27/GR}^{NS}$

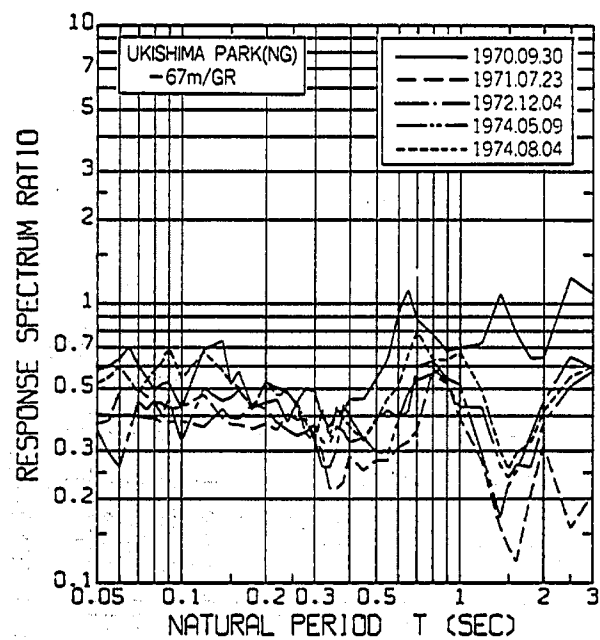


(b) $\gamma_{-27/GR}^{EW}$

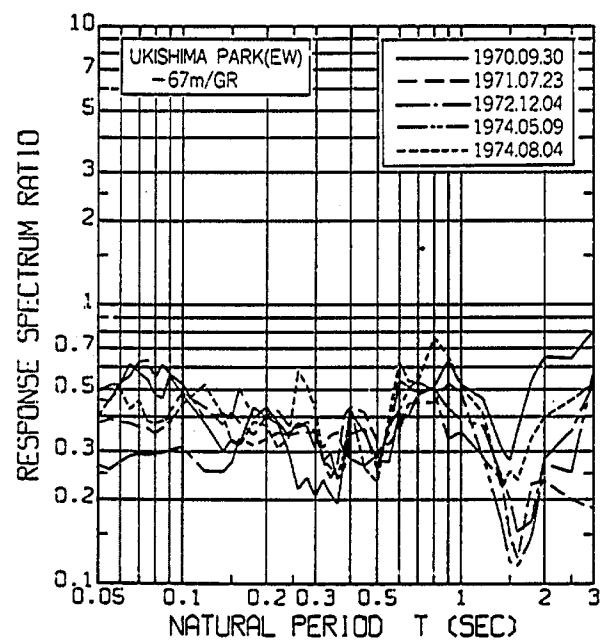


(c) $\gamma_{-27/GR}^{UD}$

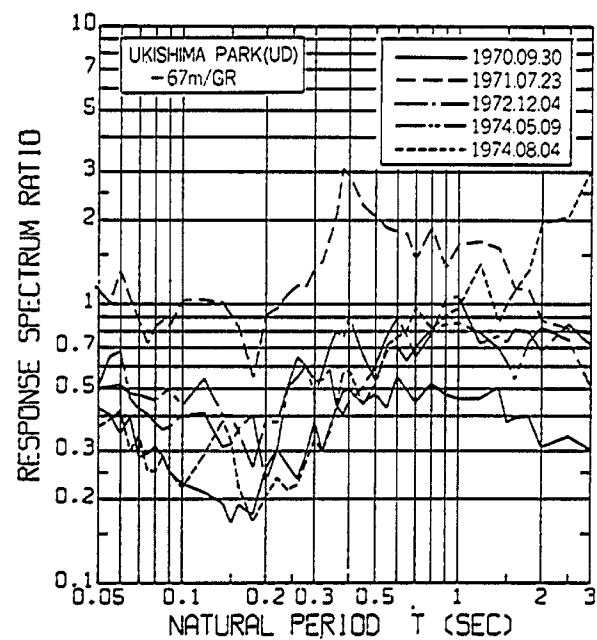
図 3-2 (1) 加速度応答スペクトル比 γ (浮島公園)



(a) $\gamma_{-67/GR}^{NS}$

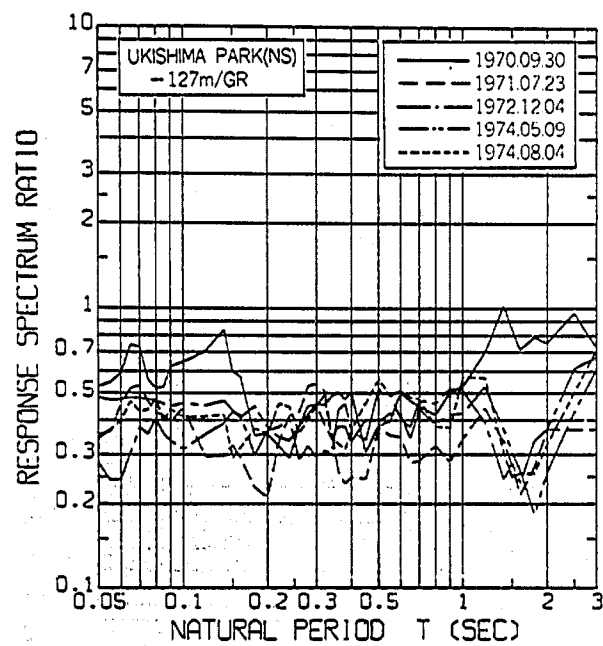


(b) $\gamma_{-67/GR}^{EW}$

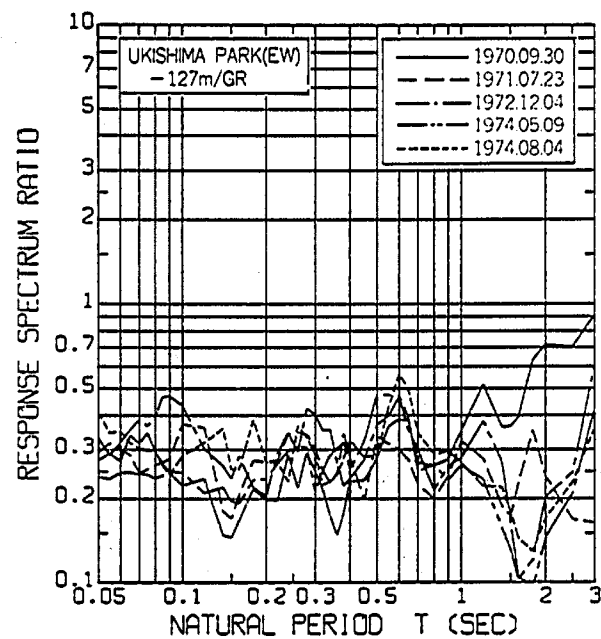


(c) $\gamma_{-67/GR}^{UD}$

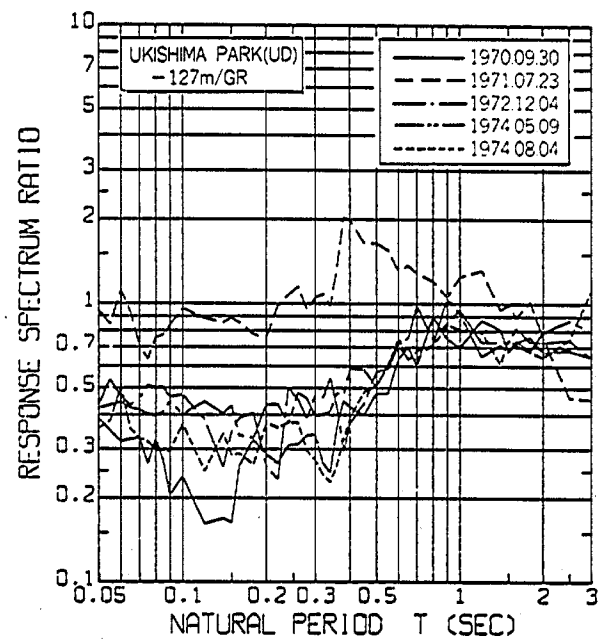
図 3-2 (2) 加速度応答スペクトル比 γ (浮島公園)



(a) $\gamma_{-127/GR}^{NS}$

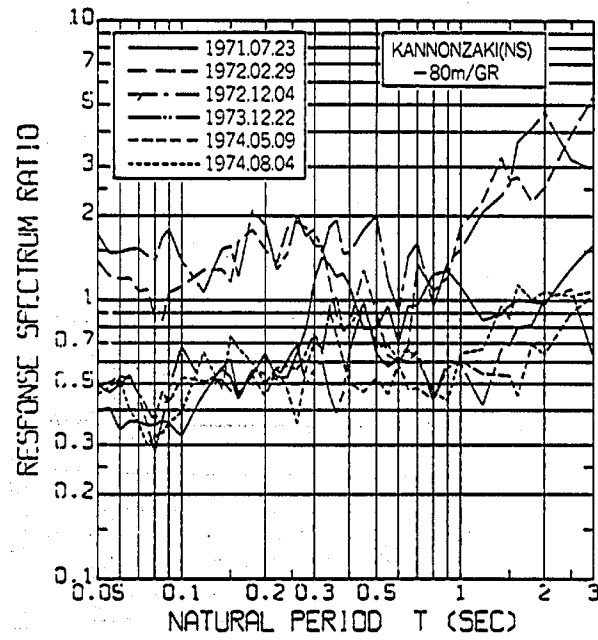


(b) $\gamma_{-127/GR}^{EW}$

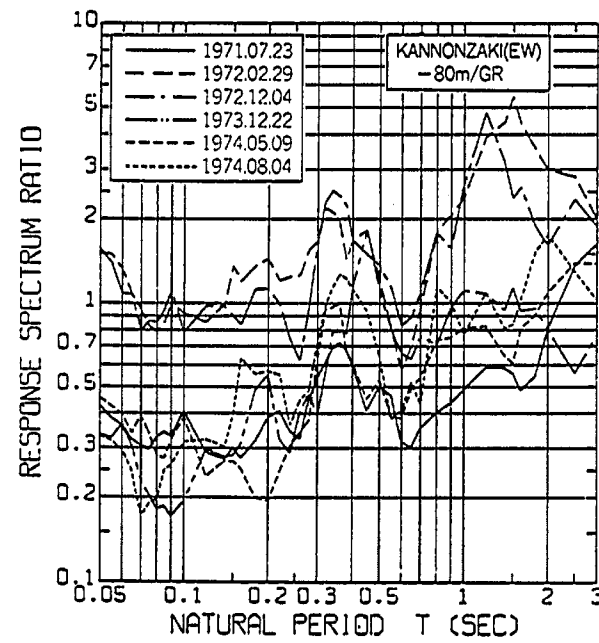


(c) $\gamma_{-127/GR}^{UD}$

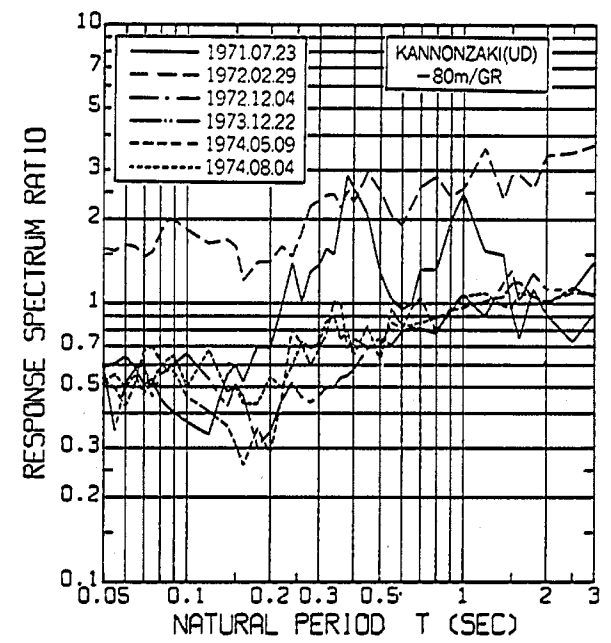
図 3-2(3) 加速度応答スペクトル比 γ (浮島公園)



(a) $\gamma_{-80/GR}^{NS}$

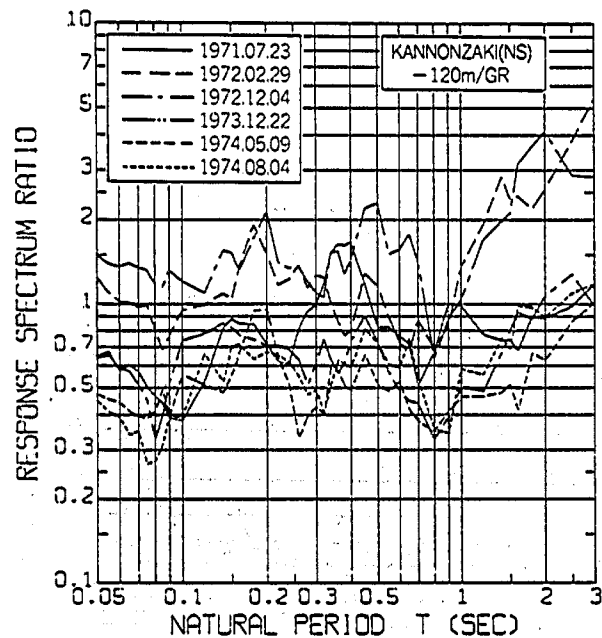


(b) $\gamma_{-80/GR}^{EW}$

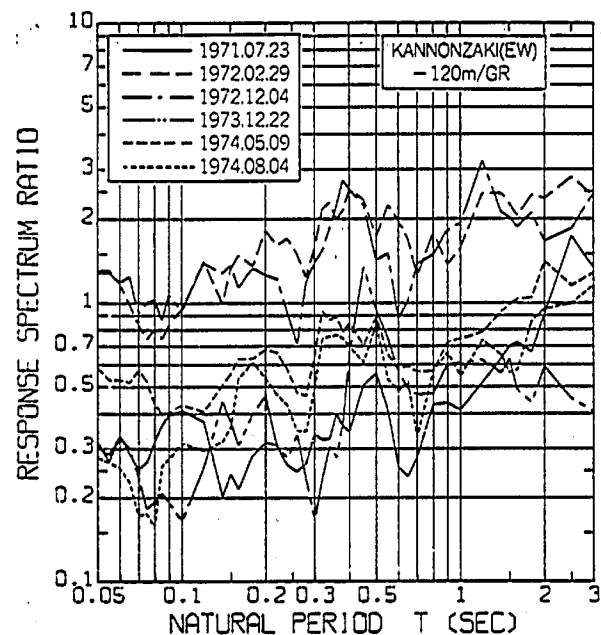


(c) $\gamma_{-80/GR}^{UD}$

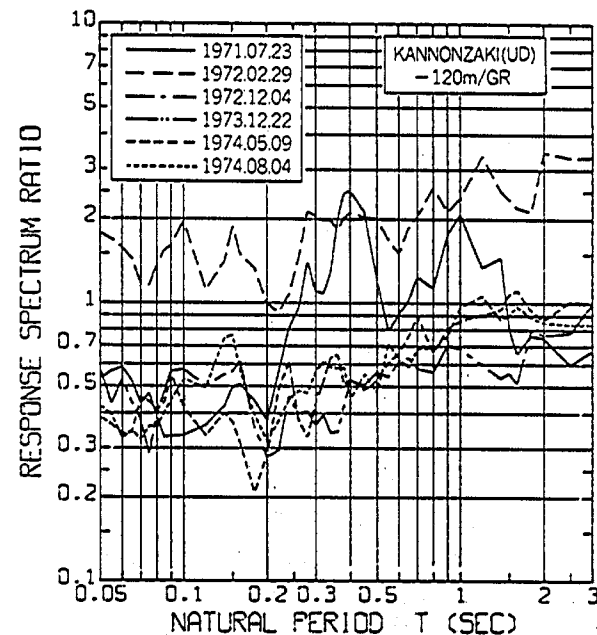
図 3-3 (1) 加速度応答スペクトル比 γ (観音崎)



(a) $\gamma_{-120/GR}^{NS}$

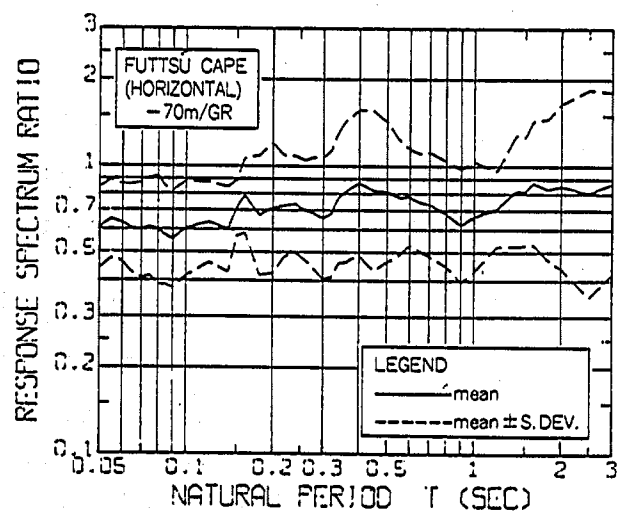


(b) $\gamma_{-120/GR}^{EW}$

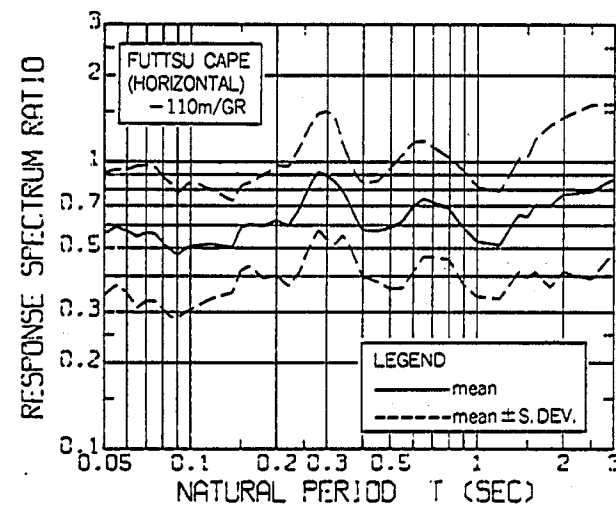


(c) $\gamma_{-120/GR}^{UD}$

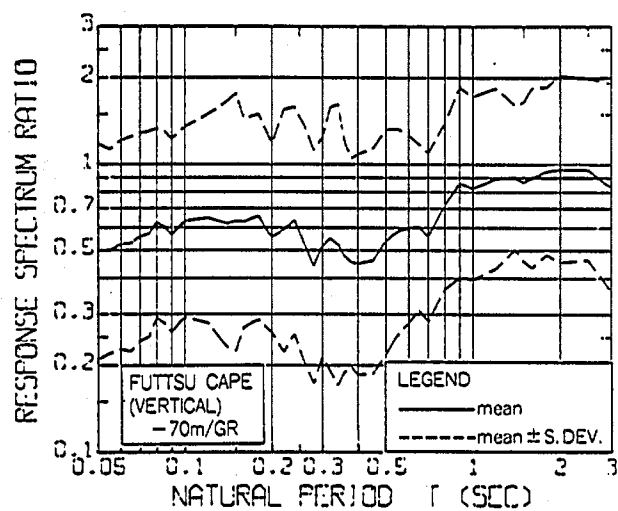
図 3-3 (2) 加速度応答スペクトル比 γ (観音崎)



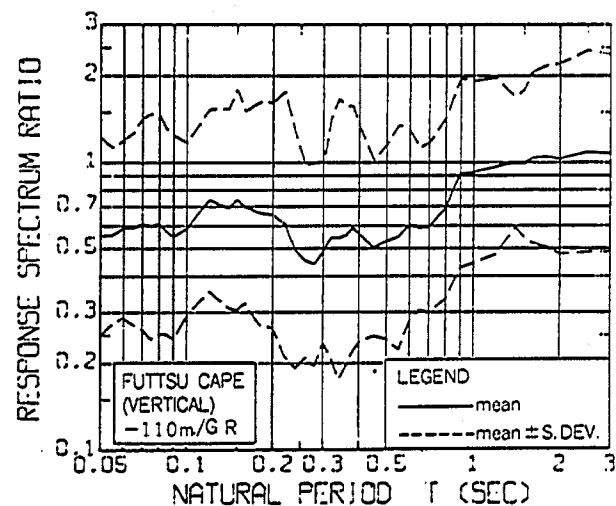
(a) $\gamma_{-70/GR}^H$



(b) $\gamma_{-110/GR}^H$

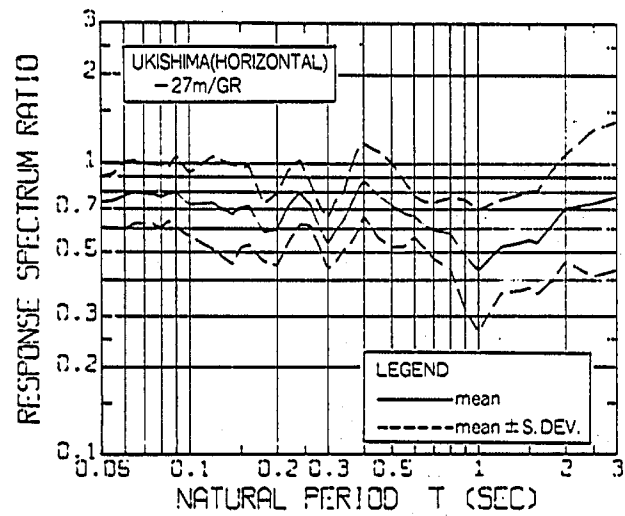


(c) $\gamma_{-70/GR}^V$

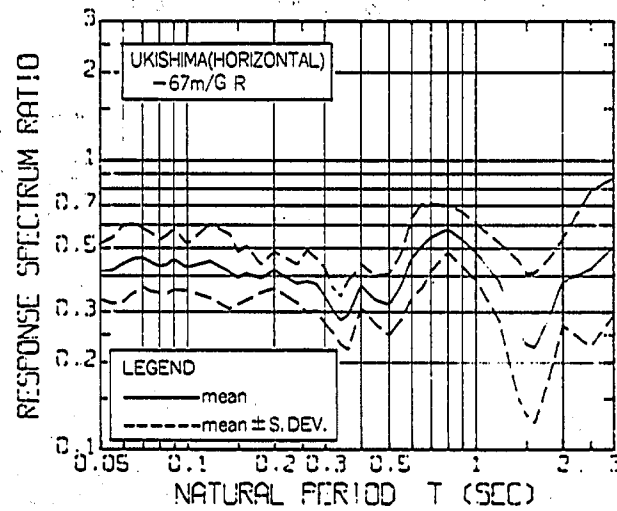


(d) $\gamma_{-110/GR}^V$

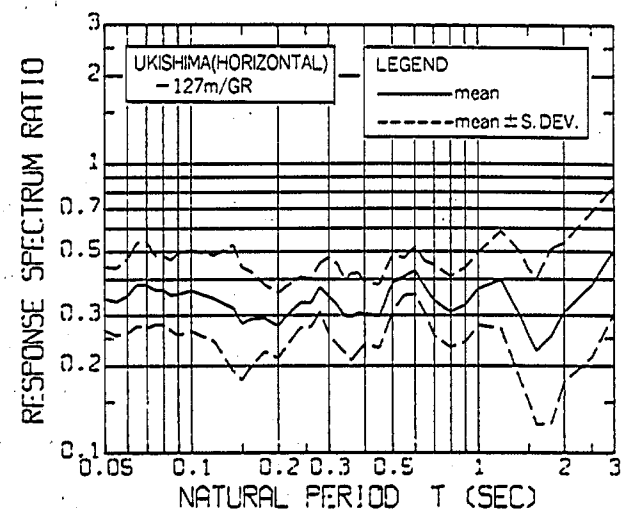
図 3-4 加速度応答スペクトル比 γ (富津岬)



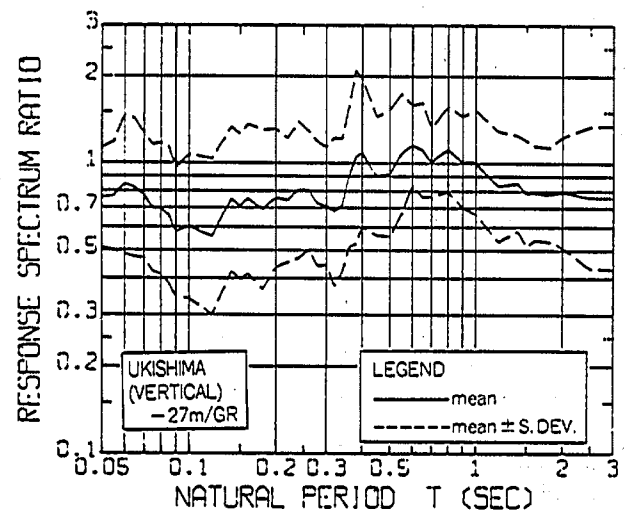
(a) $\gamma_{-27/GR}^H$



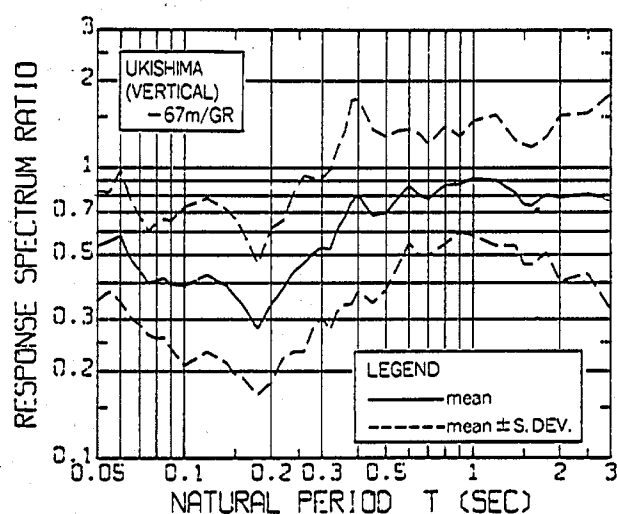
(b) $\gamma_{-67/GR}^H$



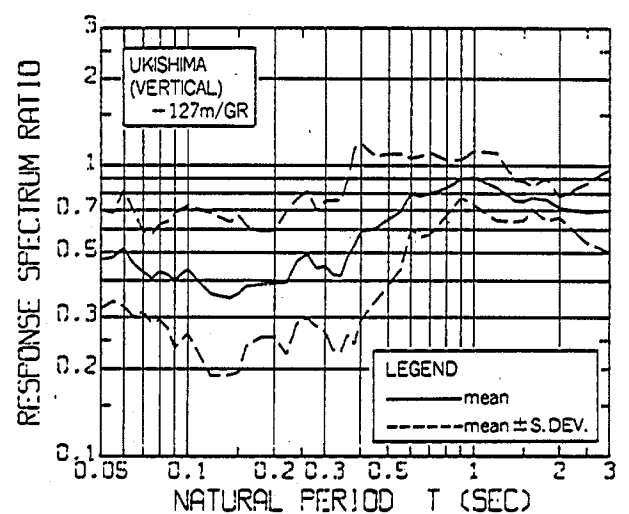
(c) $\gamma_{-127/GR}^H$



(d) $\gamma_{-27/GR}^V$

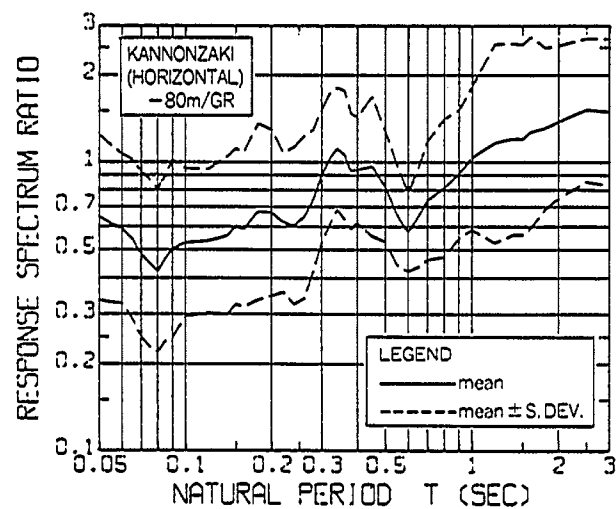


(e) $\gamma_{-67/GR}^V$

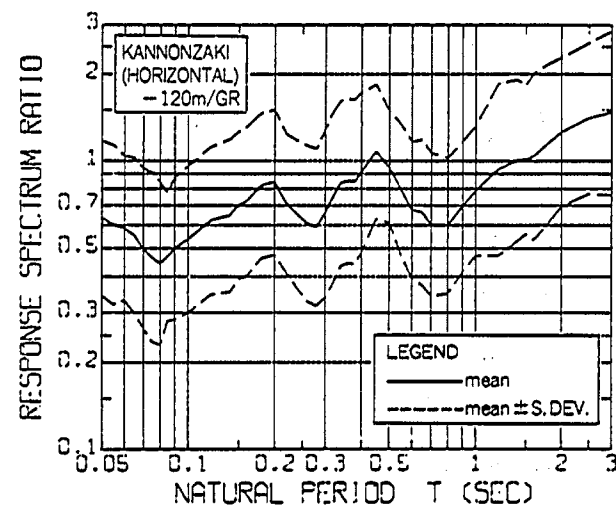


(f) $\gamma_{-127/GR}^V$

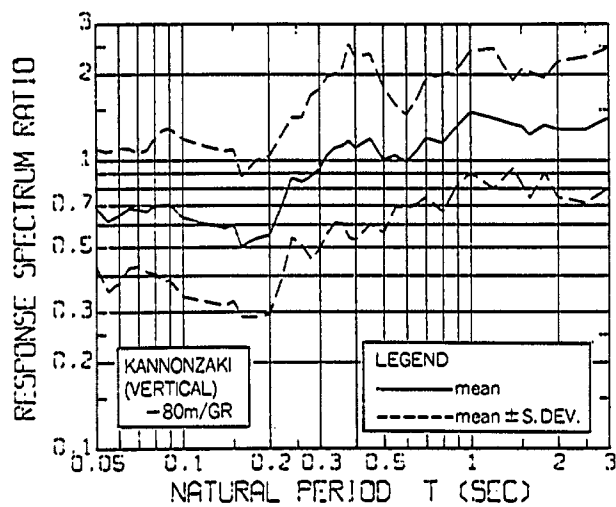
図 3-5 加速度応答スペクトル比 γ (浮島公園)



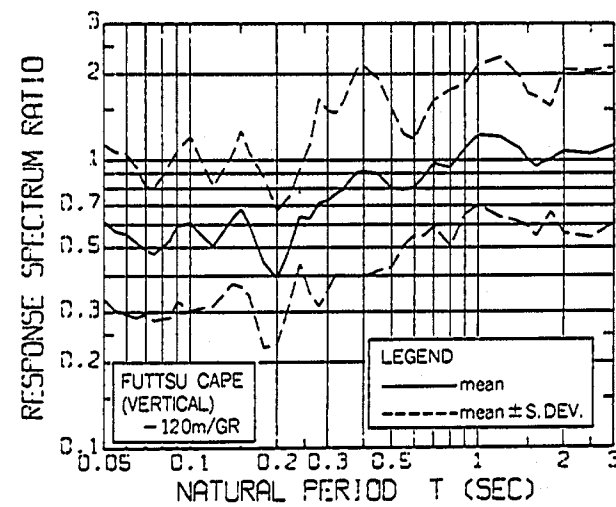
(a) $\gamma_{-80/GR}^H$



(b) $\gamma_{-120/GR}^H$



(c) $\gamma_{-80/GR}^V$



(d) $\gamma_{-120/GR}^V$

図3-6 加速度応答スペクトル比 γ (観音崎)

4. ま と め

以上の解析結果を要約すると以下ようになる。

- 1) 富津岬 (-70 m , -110 m), 浮島公園 (-27 m , -67 m , -127 m) および観音崎 (-80 m , -120 m) における地中地震動の加速度応答スペクトル特性のうち, その周期特性を加速度応答スペクトル倍率 β によって表わすと, β は平均的に道路橋示方書耐震設計編に規定する 2 ～ 3 種地盤上の β スペクトルに近い特性を有している。
- 2) 同一観測地点における地中地震動の加速度応答スペクトル S_A の強度は, 一般に地中深部となるにつれて減少する。地表面での S_A スペクトルに対する地中の S_A スペクトルの減少率 γ を式 (3-1) で定義すると, 減少率 γ の平均は, 図 3-4 ～ 図 3-6 のようになる。

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- 5) 建設省土木研究所振動研究室：最大地震動および地震応答スペクトルの推定法－（その4）最大加速度，最大速度，最大変位および加速度応答スペクトルの距離減衰式の再検討－，土木研究所資料，第1993号，昭和58年3月。

付属資料

加速度応答スペクトル S_a の値

附錄
附錄一 八〇一 八〇二 八〇三

付表 1-1 (1) 富津岬の加速度応答スペクトル S_A の値 (1971. 7. 23, $M=5.3$, $\Delta=10$ km)

No.	T	Gr (0 m)			-70 m			-110 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.0018E+01	1.1769E+01	5.0756E+00	7.6902E+00	8.5269E+00	4.3100E+00	1.0169E+01	1.2347E+01	3.8028E+00
2	0.055	1.0892E+01	1.2011E+01	5.0521E+00	8.0108E+00	8.7089E+00	4.3501E+00	1.0047E+01	1.1811E+01	3.6450E+00
3	0.060	1.0790E+01	1.2020E+01	5.4931E+00	7.7226E+00	8.4572E+00	4.3230E+00	1.0542E+01	1.0949E+01	3.7773E+00
4	0.065	1.0511E+01	1.1889E+01	5.1933E+00	7.8715E+00	8.1894E+00	4.2431E+00	1.0759E+01	1.1621E+01	4.1802E+00
5	0.070	1.0103E+01	1.1553E+01	5.1716E+00	8.3686E+00	7.9626E+00	4.2915E+00	1.0763E+01	1.2469E+01	4.3510E+00
6	0.075	9.8912E+00	1.1990E+01	5.3143E+00	8.9167E+00	8.0261E+00	4.4713E+00	1.0611E+01	1.3156E+01	4.7428E+00
7	0.080	1.0109E+01	1.4927E+01	5.4677E+00	8.9548E+00	8.3705E+00	4.6371E+00	1.0834E+01	1.3374E+01	4.6241E+00
8	0.085	1.0533E+01	1.8166E+01	5.9276E+00	9.6122E+00	7.8601E+00	4.7386E+00	1.1012E+01	1.3624E+01	4.7295E+00
9	0.090	1.0832E+01	1.9281E+01	6.3584E+00	1.0877E+01	8.3189E+00	4.8473E+00	1.1041E+01	1.3477E+01	5.1742E+00
10	0.100	1.1342E+01	1.5624E+01	6.2672E+00	1.1727E+01	1.1626E+01	5.1161E+00	1.0942E+01	1.3138E+01	5.2014E+00
11	0.120	1.1823E+01	1.7365E+01	5.3284E+00	1.0997E+01	1.5198E+01	5.4893E+00	1.1341E+01	1.4776E+01	5.6642E+00
12	0.140	1.5155E+01	1.8818E+01	5.5104E+00	1.3998E+01	1.9728E+01	5.7757E+00	1.4449E+01	1.5606E+01	6.6624E+00
13	0.150	1.6787E+01	2.2048E+01	5.9713E+00	1.5662E+01	2.0705E+01	6.6832E+00	1.5890E+01	1.7300E+01	6.8164E+00
14	0.160	1.8154E+01	2.5683E+01	6.2928E+00	1.6719E+01	2.1216E+01	6.5965E+00	1.6166E+01	1.8697E+01	8.2728E+00
15	0.180	2.0163E+01	2.6028E+01	5.6424E+00	1.6841E+01	1.4798E+01	7.5929E+00	2.0160E+01	2.1514E+01	8.8388E+00
16	0.200	2.1830E+01	2.1066E+01	6.9173E+00	2.3786E+01	1.7111E+01	7.4079E+00	2.2016E+01	2.3408E+01	9.6494E+00
17	0.220	2.1601E+01	3.1264E+01	5.9124E+00	2.5494E+01	2.1727E+01	8.5474E+00	2.3754E+01	2.7442E+01	1.0535E+01
18	0.240	2.0792E+01	3.3757E+01	7.9352E+00	1.9618E+01	2.1398E+01	1.1567E+01	2.7307E+01	3.1524E+01	8.7486E+00
19	0.260	1.9215E+01	3.2432E+01	9.0650E+00	1.6846E+01	2.0483E+01	9.3060E+00	2.7329E+01	3.8053E+01	8.6403E+00
20	0.280	1.7394E+01	2.6507E+01	1.0048E+01	1.7506E+01	1.4310E+01	9.1643E+00	2.5379E+01	4.0338E+01	8.3524E+00
21	0.300	1.6431E+01	2.6557E+01	1.0643E+01	1.7650E+01	1.5721E+01	1.0483E+01	2.2408E+01	3.9186E+01	9.6931E+00
22	0.320	1.4452E+01	2.6190E+01	9.9411E+00	1.9738E+01	1.5421E+01	1.2048E+01	1.8937E+01	3.5635E+01	1.1646E+01
23	0.340	1.4786E+01	2.4618E+01	7.5586E+00	2.5474E+01	1.5622E+01	1.1749E+01	1.5178E+01	3.0312E+01	1.1975E+01
24	0.360	1.6471E+01	2.2291E+01	9.0526E+00	2.7159E+01	1.4394E+01	9.9999E+00	1.2206E+01	2.4123E+01	1.3055E+01
25	0.380	1.6975E+01	1.9664E+01	8.7821E+00	2.5792E+01	1.6332E+01	7.2556E+00	1.0473E+01	2.1049E+01	1.2456E+01
26	0.400	1.4160E+01	1.7055E+01	9.5720E+00	2.5399E+01	1.6753E+01	7.0077E+00	8.8605E+00	1.0487E+01	1.0487E+01
27	0.450	1.3008E+01	1.1534E+01	8.0658E+00	2.1002E+01	1.4683E+01	5.5217E+00	8.3531E+00	1.4357E+01	6.3773E+00
28	0.500	8.9418E+00	8.1539E+00	6.9859E+00	1.2772E+01	1.2085E+01	5.0739E+00	6.7360E+00	1.0554E+01	4.9518E+00
29	0.550	8.2255E+00	7.7291E+00	5.4935E+00	1.1813E+01	9.1660E+00	4.8019E+00	8.2510E+00	8.9355E+00	4.5725E+00
30	0.600	7.5865E+00	6.7567E+00	5.6592E+00	9.8760E+00	8.8678E+00	4.5534E+00	8.6722E+00	9.0089E+00	4.6544E+00
31	0.650	7.0256E+00	8.1251E+00	5.4979E+00	7.7561E+00	8.0083E+00	4.3462E+00	6.8666E+00	8.6045E+00	4.0700E+00
32	0.700	6.5427E+00	1.0643E+01	5.4632E+00	8.4611E+00	7.2625E+00	4.7684E+00	7.3062E+00	8.0446E+00	5.0580E+00
33	0.800	6.6473E+00	1.0712E+01	5.3425E+00	6.4319E+00	7.7127E+00	4.9861E+00	5.5448E+00	8.3027E+00	4.6286E+00
34	0.900	8.2710E+00	9.3342E+00	5.1881E+00	7.3379E+00	6.9498E+00	5.6613E+00	6.4329E+00	5.3274E+00	5.4386E+00
35	1.000	8.7611E+00	8.4266E+00	4.9574E+00	8.3532E+00	7.1660E+00	3.7284E+00	6.6680E+00	4.4066E+00	4.1273E+00
36	1.200	7.3820E+00	8.3992E+00	4.6003E+00	6.2640E+00	7.6033E+00	3.5314E+00	6.1550E+00	4.4545E+00	3.0935E+00
37	1.400	6.8451E+00	5.9185E+00	4.4798E+00	6.4621E+00	5.5983E+00	3.3616E+00	4.4487E+00	4.2528E+00	3.1902E+00
38	1.500	6.6306E+00	5.5198E+00	4.5017E+00	5.2973E+00	4.7986E+00	3.3369E+00	4.3867E+00	3.3839E+00	3.0997E+00
39	1.600	6.4184E+00	5.3078E+00	4.4837E+00	4.9982E+00	4.9228E+00	3.3511E+00	4.3220E+00	3.1498E+00	3.0994E+00
40	1.800	6.1294E+00	4.8743E+00	4.3708E+00	4.8138E+00	4.3586E+00	3.3360E+00	4.1247E+00	3.3035E+00	3.1571E+00
41	2.000	5.8374E+00	4.5692E+00	4.2370E+00	4.5418E+00	4.0657E+00	3.2318E+00	3.9765E+00	3.2943E+00	3.1459E+00
42	2.500	4.9464E+00	4.1212E+00	4.1476E+00	3.8267E+00	3.6578E+00	3.0626E+00	3.5585E+00	3.1710E+00	3.0560E+00
43	3.000	4.3751E+00	3.9111E+00	4.0651E+00	3.2472E+00	3.2690E+00	2.9376E+00	3.1199E+00	2.8933E+00	2.8784E+00
44	4.000	3.7758E+00	3.5710E+00	3.6914E+00	2.5303E+00	2.7942E+00	2.5919E+00	2.5608E+00	2.3968E+00	2.5039E+00
45	5.000	3.4464E+00	3.1992E+00	3.4060E+00	2.2953E+00	2.6586E+00	2.4441E+00	2.5412E+00	2.5763E+00	2.5980E+00
46	6.000	3.4961E+00	2.9779E+00	3.1839E+00	2.4170E+00	2.7964E+00	2.6467E+00	2.7110E+00	2.7110E+00	2.7847E+00
47	7.000	3.7075E+00	3.2175E+00	3.4060E+00	2.4760E+00	2.7885E+00	2.6517E+00	2.6628E+00	2.7849E+00	2.8168E+00
48	8.000	3.8628E+00	3.4319E+00	3.5543E+00	2.5144E+00	2.8128E+00	2.6362E+00	2.6509E+00	2.6678E+00	2.7817E+00
49	9.000	4.0058E+00	3.4217E+00	3.6803E+00	2.4717E+00	2.7238E+00	2.6324E+00	2.5202E+00	2.5657E+00	2.7227E+00
50	10.000	4.0512E+00	3.5148E+00	3.7324E+00	2.4750E+00	2.7914E+00	2.5781E+00	2.5124E+00	2.4615E+00	2.6375E+00

付表 1-1 (2) 富津岬の加速度応答スペクトル S_A の値 (1972.2.29, $M=7.1$, $\Delta=70$ km)

No	T	Gr (0 m)			-70 m			-110 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	3.0880E+01	2.9432E+01	1.1169E+01	3.3341E+01	2.3495E+01	1.2417E+01	2.0135E+01	2.3319E+01	1.4015E+01
2	0.055	2.8673E+01	2.9528E+01	1.2193E+01	3.4715E+01	2.4607E+01	1.3227E+01	2.0376E+01	2.4254E+01	1.4545E+01
3	0.060	2.9631E+01	2.9862E+01	1.2317E+01	3.3438E+01	2.4378E+01	1.3127E+01	1.9508E+01	2.5697E+01	1.4419E+01
4	0.065	3.2387E+01	3.0569E+01	1.2457E+01	3.7082E+01	2.4664E+01	1.4076E+01	2.0480E+01	2.6140E+01	1.6447E+01
5	0.070	2.9054E+01	3.4640E+01	1.2155E+01	3.6182E+01	2.4644E+01	1.5199E+01	2.2488E+01	2.5672E+01	1.6548E+01
6	0.075	3.3906E+01	3.5437E+01	1.2742E+01	4.0564E+01	2.7468E+01	1.5536E+01	2.4381E+01	2.8046E+01	1.9617E+01
7	0.080	3.3724E+01	3.6547E+01	1.3076E+01	3.9623E+01	2.8474E+01	1.7654E+01	2.3621E+01	2.6247E+01	1.9665E+01
8	0.085	3.5319E+01	3.8162E+01	1.3268E+01	3.6650E+01	3.0259E+01	1.9013E+01	2.2937E+01	2.8969E+01	1.6605E+01
9	0.090	3.8360E+01	4.8786E+01	1.5053E+01	4.0651E+01	3.0810E+01	2.1373E+01	2.1117E+01	2.9681E+01	1.8021E+01
10	0.100	4.2232E+01	4.5246E+01	1.5057E+01	4.8055E+01	2.8803E+01	2.3913E+01	2.5924E+01	3.1213E+01	1.8773E+01
11	0.120	5.0365E+01	5.7959E+01	1.4535E+01	4.9404E+01	3.5751E+01	2.0871E+01	2.8754E+01	3.6790E+01	2.6651E+01
12	0.140	8.0504E+01	6.2177E+01	1.5508E+01	4.7474E+01	4.3032E+01	2.5827E+01	3.7404E+01	3.7668E+01	2.8921E+01
13	0.150	6.5782E+01	7.7400E+01	1.5758E+01	5.6992E+01	5.5668E+01	2.5735E+01	3.6364E+01	4.5257E+01	3.3365E+01
14	0.160	5.3403E+01	7.4741E+01	1.8609E+01	8.2141E+01	6.8000E+01	2.3742E+01	3.9979E+01	5.4184E+01	2.6687E+01
15	0.180	5.3997E+01	6.5357E+01	1.7541E+01	7.8533E+01	7.1031E+01	2.5973E+01	3.6665E+01	4.8688E+01	2.5046E+01
16	0.200	5.5232E+01	7.3578E+01	2.1006E+01	8.1892E+01	5.8615E+01	2.1133E+01	4.7656E+01	5.1129E+01	3.0206E+01
17	0.220	8.1268E+01	7.8675E+01	2.4487E+01	1.1959E+02	5.5818E+01	2.5919E+01	5.0339E+01	5.9859E+01	3.5076E+01
18	0.240	5.5587E+01	5.6582E+01	1.9538E+01	8.7128E+01	4.9864E+01	2.8885E+01	3.8722E+01	6.7260E+01	2.5809E+01
19	0.260	4.8343E+01	5.3989E+01	2.0149E+01	6.7405E+01	3.8457E+01	2.9646E+01	4.1976E+01	9.0925E+01	1.9131E+01
20	0.280	5.1634E+01	4.5294E+01	2.4735E+01	5.8679E+01	3.5562E+01	2.8602E+01	4.9351E+01	8.3546E+01	2.6238E+01
21	0.300	6.5659E+01	3.9117E+01	2.7171E+01	5.4815E+01	4.7429E+01	2.9247E+01	4.3106E+01	9.3032E+01	2.5197E+01
22	0.320	5.9453E+01	4.0685E+01	2.2276E+01	6.1825E+01	4.7278E+01	2.9387E+01	5.0377E+01	8.4373E+01	2.8836E+01
23	0.340	5.3837E+01	4.4637E+01	2.5902E+01	8.0360E+01	5.4940E+01	3.2572E+01	4.3650E+01	6.6720E+01	3.2426E+01
24	0.360	4.9243E+01	4.5254E+01	2.9512E+01	7.6232E+01	7.2942E+01	2.6075E+01	3.7694E+01	5.0288E+01	3.9069E+01
25	0.380	4.6338E+01	6.3755E+01	2.9107E+01	7.7946E+01	7.3775E+01	2.6435E+01	3.2782E+01	3.9707E+01	4.0914E+01
26	0.400	4.9393E+01	7.3347E+01	2.5465E+01	8.9090E+01	6.3849E+01	2.7656E+01	3.6566E+01	3.5822E+01	3.2265E+01
27	0.450	5.1882E+01	5.7955E+01	3.0385E+01	7.4435E+01	6.5266E+01	4.1396E+01	4.2114E+01	4.2114E+01	3.0246E+01
28	0.500	5.0375E+01	5.3082E+01	2.5412E+01	5.8627E+01	5.1580E+01	3.2436E+01	4.3493E+01	4.5739E+01	2.4311E+01
29	0.550	3.8852E+01	5.3517E+01	1.9523E+01	4.2924E+01	4.4824E+01	2.4135E+01	4.5968E+01	3.5371E+01	2.2666E+01
30	0.600	4.3246E+01	4.6464E+01	1.9240E+01	3.4469E+01	3.8410E+01	2.2708E+01	4.3194E+01	3.7938E+01	2.3411E+01
31	0.650	4.1515E+01	4.8341E+01	2.2116E+01	4.3733E+01	4.3837E+01	2.3256E+01	5.3011E+01	5.1746E+01	2.2373E+01
32	0.700	3.5720E+01	5.7539E+01	2.1045E+01	4.8062E+01	3.8248E+01	1.8074E+01	4.9205E+01	5.3186E+01	2.1739E+01
33	0.800	2.5103E+01	5.4248E+01	1.3549E+01	3.4884E+01	2.1108E+01	1.7646E+01	3.8508E+01	3.3783E+01	1.8668E+01
34	0.900	2.0412E+01	4.6681E+01	1.2266E+01	2.4141E+01	2.3362E+01	2.0516E+01	3.0918E+01	2.3751E+01	2.0923E+01
35	1.000	1.8338E+01	3.6863E+01	1.3178E+01	2.6824E+01	2.4372E+01	1.9279E+01	1.7465E+01	2.4135E+01	2.4710E+01
36	1.200	2.2136E+01	2.1049E+01	8.4077E+00	2.2752E+01	1.8423E+01	1.6965E+01	1.3377E+01	1.5862E+01	1.8212E+01
37	1.400	1.5918E+01	1.9020E+01	6.7519E+00	2.8643E+01	2.3787E+01	1.3989E+01	2.1471E+01	2.0321E+01	1.5646E+01
38	1.500	2.1586E+01	1.7870E+01	8.3145E+00	3.6320E+01	2.3555E+01	1.8606E+01	2.3333E+01	2.4411E+01	2.0761E+01
39	1.600	2.3535E+01	1.4026E+01	9.8997E+00	4.4535E+01	2.1961E+01	2.1471E+01	2.2086E+01	2.7901E+01	2.5233E+01
40	1.800	1.3018E+01	1.3337E+01	7.3589E+00	2.6397E+01	1.3846E+01	1.7216E+01	1.8236E+01	2.1664E+01	1.9661E+01
41	2.000	1.3028E+01	1.1660E+01	6.8431E+00	2.8557E+01	1.4114E+01	1.4557E+01	1.8823E+01	1.8823E+01	1.6465E+01
42	2.500	8.4016E+00	6.9465E+00	4.9121E+00	1.8898E+01	1.0284E+01	1.1437E+01	1.2860E+01	1.3414E+01	1.4293E+01
43	3.000	6.7988E+00	7.0980E+00	5.2643E+00	1.7658E+01	1.0375E+01	1.3428E+01	1.2044E+01	1.1570E+01	1.6496E+01
44	4.000	3.1417E+00	3.2708E+00	7.5016E+00	7.5016E+00	3.6232E+00	3.7676E+00	5.2385E+00	7.2791E+00	4.7810E+00
45	5.000	2.6756E+00	1.4107E+00	1.3716E+00	6.5219E+00	3.8151E+00	2.3333E+00	4.3827E+00	5.4560E+00	2.7974E+00
46	6.000	1.5087E+00	1.4426E+00	1.5052E+00	3.4355E+00	2.2100E+00	2.0979E+00	2.3525E+00	3.0869E+00	2.5434E+00
47	7.000	9.0503E-01	1.7098E+00	8.8012E-01	2.5155E+00	1.7786E+00	1.4903E+00	1.7880E+00	1.8339E+00	1.7832E+00
48	8.000	8.9082E-01	1.6898E+00	9.9202E-01	2.6445E+00	2.0860E+00	9.7298E-01	2.3158E+00	1.4405E+00	1.2981E+00
49	9.000	7.6597E-01	1.4923E+00	1.2309E+00	2.0573E+00	1.5059E+00	1.0060E+00	2.3747E+00	1.1807E+00	1.1021E+00
50	10.000	6.6685E-01	1.3364E+00	1.5511E+00	1.2623E+00	1.6469E+00	7.9042E-01	1.3823E+00	9.7529E-01	7.8319E-01

付表 1-1 (3) 富津岬の加速度応答スペクトル S_A の値 (1974.5.9, $M=6.9$, $\Delta=10$ km)

No.	T	Gr (0 m)			-70 m			-110 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	3.9508E+01	5.2744E+01	1.5436E+01	2.3386E+01	2.7460E+01	7.7332E+00	2.9478E+01	1.5765E+01	7.4009E+00
2	0.055	4.0261E+01	5.3145E+01	1.4891E+01	2.2535E+01	2.8138E+01	8.0117E+00	3.0476E+01	1.5112E+01	7.4746E+00
3	0.060	4.0609E+01	5.6619E+01	1.5027E+01	2.3150E+01	2.7901E+01	8.6553E+00	3.0178E+01	1.4294E+01	7.4747E+00
4	0.065	4.2490E+01	6.4997E+01	1.4915E+01	2.3507E+01	2.8778E+01	9.1279E+00	3.1674E+01	1.4266E+01	7.5695E+00
5	0.070	3.9198E+01	6.1511E+01	1.3861E+01	2.3817E+01	2.7947E+01	8.5044E+00	3.0168E+01	1.4575E+01	7.9238E+00
6	0.075	4.0267E+01	5.1774E+01	1.4196E+01	2.3093E+01	2.6874E+01	8.7847E+00	3.1433E+01	1.4132E+01	7.9358E+00
7	0.080	4.3031E+01	5.9062E+01	1.4506E+01	2.3827E+01	2.7597E+01	9.1144E+00	3.1374E+01	1.4766E+01	8.2346E+00
8	0.085	4.5697E+01	6.7272E+01	1.4336E+01	2.5658E+01	2.7589E+01	8.9991E+00	2.9464E+01	1.4596E+01	8.8319E+00
9	0.090	4.4527E+01	6.8444E+01	1.5604E+01	2.5714E+01	2.6857E+01	8.2636E+00	3.1245E+01	1.4960E+01	9.2265E+00
10	0.100	4.6629E+01	6.0472E+01	1.8198E+01	2.4391E+01	2.9070E+01	7.9952E+00	3.1650E+01	1.5891E+01	9.0507E+00
11	0.120	4.9585E+01	5.6762E+01	1.6441E+01	2.8474E+01	2.9346E+01	9.7030E+00	3.0788E+01	1.6437E+01	8.7082E+00
12	0.140	6.9376E+01	5.4841E+01	1.7488E+01	3.5839E+01	3.3222E+01	9.6307E+00	2.8730E+01	2.1801E+01	1.0233E+01
13	0.150	7.4249E+01	5.6457E+01	1.5528E+01	4.3167E+01	3.5378E+01	1.0256E+01	3.2838E+01	2.5971E+01	1.0452E+01
14	0.160	6.9557E+01	5.6648E+01	1.5770E+01	4.2075E+01	3.3535E+01	1.2168E+01	3.2847E+01	3.1982E+01	1.0778E+01
15	0.180	7.3816E+01	7.8196E+01	2.2122E+01	4.0346E+01	2.7416E+01	1.3359E+01	3.5768E+01	3.3854E+01	1.2256E+01
16	0.200	9.4753E+01	8.2787E+01	2.1748E+01	4.0392E+01	3.2346E+01	1.3278E+01	3.3972E+01	5.1878E+01	1.4651E+01
17	0.220	8.6546E+01	8.3401E+01	2.3840E+01	4.0381E+01	3.7497E+01	1.5850E+01	4.2710E+01	3.9114E+01	1.3931E+01
18	0.240	6.0384E+01	9.0178E+01	2.8147E+01	4.4393E+01	4.4721E+01	1.5098E+01	5.1338E+01	2.9142E+01	1.2239E+01
19	0.260	5.4190E+01	9.4215E+01	2.7720E+01	4.0053E+01	4.5505E+01	1.6150E+01	5.5116E+01	3.2777E+01	1.2475E+01
20	0.280	5.5799E+01	8.6290E+01	2.7434E+01	3.7085E+01	4.0695E+01	1.4510E+01	4.9627E+01	3.3826E+01	1.3633E+01
21	0.300	6.1385E+01	7.9875E+01	2.4864E+01	3.6109E+01	4.3211E+01	1.9428E+01	4.3800E+01	3.7119E+01	1.3403E+01
22	0.320	5.9905E+01	6.9731E+01	2.2614E+01	3.7257E+01	4.2853E+01	1.9648E+01	3.5058E+01	3.0914E+01	1.5561E+01
23	0.340	6.7711E+01	6.1004E+01	2.6122E+01	3.9502E+01	4.2905E+01	1.7138E+01	4.0462E+01	3.0489E+01	1.7727E+01
24	0.360	7.3370E+01	5.3987E+01	2.8114E+01	4.5028E+01	4.3660E+01	1.7025E+01	3.5370E+01	3.4528E+01	1.7473E+01
25	0.380	6.9038E+01	4.8724E+01	3.5343E+01	4.9600E+01	5.0267E+01	1.8593E+01	3.6773E+01	3.1844E+01	1.9486E+01
26	0.400	6.5212E+01	5.2070E+01	4.0824E+01	4.9564E+01	5.7227E+01	1.8622E+01	3.8601E+01	2.8331E+01	2.0864E+01
27	0.450	8.9567E+01	5.3531E+01	4.0832E+01	6.5114E+01	6.9477E+01	1.8078E+01	5.1938E+01	2.2558E+01	1.9317E+01
28	0.500	1.0011E+02	7.1240E+01	4.7596E+01	7.0016E+01	8.8686E+01	2.6624E+01	7.6505E+01	2.1992E+01	2.4895E+01
29	0.550	9.5964E+01	8.1946E+01	5.4617E+01	6.5959E+01	8.9766E+01	2.4304E+01	9.1714E+01	2.5826E+01	2.4071E+01
30	0.600	9.5641E+01	9.0637E+01	3.8736E+01	6.3608E+01	8.8098E+01	1.8334E+01	1.0071E+02	2.6112E+01	1.6024E+01
31	0.650	9.6449E+01	9.6936E+01	3.6033E+01	5.3787E+01	7.7794E+01	1.9296E+01	9.9953E+01	3.4997E+01	1.7308E+01
32	0.700	7.4887E+01	8.9445E+01	3.8021E+01	4.3111E+01	6.0370E+01	1.5647E+01	8.6126E+01	3.2202E+01	1.7499E+01
33	0.800	5.4649E+01	7.2315E+01	2.7473E+01	3.4685E+01	3.9766E+01	1.5807E+01	5.8533E+01	2.9420E+01	1.4234E+01
34	0.900	5.4704E+01	7.7926E+01	1.9077E+01	2.2802E+01	3.1888E+01	1.6713E+01	3.8150E+01	2.3496E+01	1.8871E+01
35	1.000	4.1816E+01	7.3157E+01	1.6463E+01	2.0920E+01	3.4523E+01	1.7005E+01	2.9556E+01	1.8422E+01	1.9923E+01
36	1.200	3.3249E+01	6.4079E+01	1.3081E+01	2.1962E+01	5.1877E+01	1.4011E+01	3.2580E+01	1.6595E+01	1.4706E+01
37	1.400	3.8006E+01	5.5706E+01	1.5006E+01	2.4992E+01	5.7222E+01	1.5131E+01	4.3701E+01	2.1975E+01	1.4406E+01
38	1.500	3.5412E+01	5.4593E+01	1.3708E+01	2.6941E+01	5.5836E+01	1.4492E+01	4.4688E+01	2.0012E+01	1.4204E+01
39	1.600	3.3125E+01	4.4934E+01	1.1602E+01	3.4031E+01	5.2253E+01	1.3415E+01	4.2047E+01	2.4484E+01	1.4867E+01
40	1.800	2.8888E+01	3.5887E+01	9.4151E+00	2.9087E+01	4.2118E+01	1.0995E+01	3.6153E+01	1.9831E+01	1.2477E+01
41	2.000	2.4981E+01	2.8285E+01	9.5171E+00	2.8115E+01	3.5504E+01	1.1130E+01	3.3536E+01	1.9924E+01	1.3629E+01
42	2.500	1.4290E+01	1.4055E+01	4.0333E+00	1.5984E+01	1.3956E+01	5.2885E+00	1.3352E+01	1.0580E+01	6.3874E+00
43	3.000	7.2034E+00	1.0026E+01	3.1536E+00	7.7615E+00	8.9912E+00	3.5615E+00	9.2246E+00	6.7061E+00	4.6685E+00
44	4.000	6.8311E+00	6.1316E+00	2.4373E+00	1.1053E+01	8.3049E+00	3.0908E+00	6.8764E+00	1.0436E+01	3.3361E+00
45	5.000	3.7353E+00	5.6665E+00	2.1405E+00	5.1687E+00	4.8955E+00	2.6218E+00	5.2998E+00	4.1087E+00	3.0762E+00
46	6.000	3.0973E+00	4.0275E+00	1.5861E+00	4.0618E+00	3.8600E+00	2.0475E+00	4.7196E+00	2.9635E+00	2.5017E+00
47	7.000	3.1107E+00	3.3938E+00	1.5375E+00	4.2745E+00	4.1807E+00	1.7281E+00	5.4996E+00	3.3758E+00	2.0416E+00
48	8.000	2.6797E+00	2.7055E+00	1.3979E+00	4.1204E+00	4.1402E+00	1.4168E+00	4.6473E+00	4.0107E+00	1.4961E+00
49	9.000	1.8547E+00	2.9252E+00	8.9491E-01	2.5218E+00	4.6059E+00	7.3655E-01	4.9053E+00	2.9724E+00	9.4990E-01
50	10.000	1.4499E+00	2.3364E+00	6.7086E-01	1.5737E+00	3.7808E+00	6.7310E-01	3.9874E+00	2.2777E+00	5.9233E-01

付表 1-1 (4) 富津岬の加速度応答スペクトル S_A の値 (1974. 8. 4, $M=5.8$, $\Delta=50$ km)

No.	T	Gr (0 m)			-70 m			-110 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.7728E+01	1.8098E+01	2.4577E+01	9.8333E+00	6.2954E+00	2.9039E+00	4.6559E+00	7.1148E+00	3.7341E+00
2	0.055	1.5813E+01	1.7071E+01	2.3146E+01	9.6437E+00	6.2527E+00	3.0446E+00	4.5850E+00	7.5471E+00	4.1411E+00
3	0.060	1.5950E+01	1.7463E+01	2.5534E+01	9.3136E+00	6.4385E+00	3.1856E+00	5.0450E+00	7.1001E+00	4.3046E+00
4	0.065	1.8080E+01	1.8905E+01	2.8654E+01	9.4246E+00	6.9974E+00	3.4842E+00	5.2521E+00	7.4115E+00	4.8819E+00
5	0.070	1.9336E+01	1.9199E+01	2.8740E+01	9.3031E+00	6.9585E+00	3.9470E+00	5.5438E+00	7.5676E+00	4.2801E+00
6	0.075	2.2098E+01	2.1524E+01	3.1073E+01	1.0745E+01	6.6128E+00	4.3609E+00	5.4174E+00	8.3932E+00	4.2474E+00
7	0.080	2.4027E+01	2.3633E+01	3.1240E+01	1.0689E+01	7.8502E+00	5.5451E+00	5.5821E+00	8.9132E+00	4.4504E+00
8	0.085	2.8104E+01	2.0743E+01	3.5875E+01	1.0974E+01	8.8407E+00	6.2453E+00	5.8876E+00	9.7558E+00	5.1194E+00
9	0.090	2.6697E+01	2.4414E+01	3.6093E+01	1.1543E+01	8.0406E+00	6.0860E+00	5.8621E+00	9.9991E+00	5.0104E+00
10	0.100	3.2767E+01	2.7048E+01	2.9082E+01	1.3629E+01	9.1770E+00	6.1132E+00	6.2078E+00	1.0559E+01	5.7401E+00
11	0.120	3.2574E+01	3.0992E+01	3.1602E+01	1.5755E+01	1.0997E+01	5.1560E+00	8.2917E+00	1.1400E+01	8.2774E+00
12	0.140	3.7271E+01	3.4020E+01	4.1264E+01	1.9190E+01	1.2172E+01	5.1478E+00	1.0575E+01	1.2997E+01	9.7343E+00
13	0.150	3.3477E+01	2.8900E+01	4.4974E+01	2.3972E+01	1.6664E+01	5.0089E+00	1.1518E+01	1.4287E+01	8.5972E+00
14	0.160	3.2620E+01	2.8657E+01	3.7947E+01	3.0281E+01	1.7356E+01	5.7972E+00	9.4672E+00	1.3497E+01	7.9288E+00
15	0.180	4.2556E+01	2.9634E+01	4.1089E+01	2.2195E+01	1.2061E+01	7.9379E+00	1.1495E+01	1.2299E+01	7.0212E+00
16	0.200	4.3066E+01	3.1427E+01	5.0055E+01	1.9042E+01	1.5253E+01	8.1780E+00	1.2773E+01	1.8688E+01	7.7893E+00
17	0.220	4.1691E+01	2.4621E+01	5.6993E+01	2.6034E+01	1.4329E+01	6.6568E+00	8.7710E+00	2.4539E+01	7.0322E+00
18	0.240	3.7790E+01	2.8905E+01	4.6063E+01	2.5634E+01	1.0976E+01	7.4397E+00	1.0421E+01	1.9797E+01	5.8745E+00
19	0.260	3.2972E+01	2.7702E+01	5.0123E+01	1.8609E+01	9.6999E+00	6.4639E+00	1.3362E+01	2.3608E+01	7.9221E+00
20	0.280	2.5616E+01	3.1920E+01	5.0973E+01	2.0095E+01	9.4746E+00	6.1100E+00	1.7016E+01	3.1233E+01	7.5263E+00
21	0.300	2.5625E+01	3.0734E+01	4.6932E+01	1.6909E+01	9.4351E+00	6.5330E+00	1.6292E+01	3.3016E+01	7.7003E+00
22	0.320	2.6117E+01	2.9282E+01	5.7304E+01	1.6372E+01	1.1442E+01	6.1612E+00	1.3799E+01	3.1008E+01	6.9853E+00
23	0.340	2.3987E+01	3.1035E+01	6.8417E+01	1.9524E+01	1.4627E+01	6.7195E+00	1.2376E+01	2.4473E+01	6.5678E+00
24	0.360	2.6482E+01	2.6890E+01	6.4727E+01	2.2255E+01	1.5027E+01	7.1960E+00	9.8901E+00	1.9341E+01	7.2208E+00
25	0.380	2.8181E+01	2.4696E+01	6.6145E+01	2.5627E+01	1.6369E+01	7.4016E+00	8.5750E+00	1.7931E+01	8.4980E+00
26	0.400	2.7210E+01	2.5415E+01	6.7001E+01	2.4591E+01	1.8615E+01	7.0320E+00	7.7283E+00	1.3789E+01	9.4800E+00
27	0.450	2.7821E+01	3.0096E+01	6.2985E+01	2.1934E+01	1.5007E+01	7.1081E+00	8.4020E+00	1.5631E+01	1.0043E+01
28	0.500	2.7856E+01	2.8112E+01	6.9302E+01	2.0585E+01	1.7069E+01	8.2028E+00	1.1236E+01	1.3299E+01	9.5717E+00
29	0.550	3.2010E+01	2.7332E+01	5.4871E+01	2.1458E+01	1.5011E+01	8.6067E+00	9.9792E+00	1.4738E+01	6.8505E+00
30	0.600	2.3842E+01	2.6385E+01	4.5915E+01	1.6659E+01	1.1906E+01	8.1959E+00	9.7322E+00	1.7508E+01	8.7117E+00
31	0.650	1.6035E+01	3.1178E+01	3.8300E+01	1.2554E+01	1.0484E+01	7.6697E+00	1.0360E+01	1.5873E+01	7.9149E+00
32	0.700	1.7051E+01	2.0167E+01	3.4200E+01	1.2319E+01	7.5826E+00	6.6847E+00	8.8762E+00	1.2250E+01	6.8285E+00
33	0.800	1.6042E+01	2.0054E+01	2.6235E+01	9.9428E+00	8.2600E+00	6.4920E+00	6.7729E+00	1.1857E+01	5.8735E+00
34	0.900	1.3742E+01	2.1322E+01	2.2385E+01	8.3848E+00	7.1396E+00	5.2427E+00	6.1386E+00	7.3116E+00	5.6068E+00
35	1.000	1.4727E+01	1.6136E+01	1.9875E+01	7.3009E+00	5.3207E+00	4.8112E+00	5.0064E+00	4.8459E+00	5.5062E+00
36	1.200	1.2378E+01	1.1541E+01	1.3419E+01	6.8505E+00	6.6990E+00	3.8430E+00	4.5247E+00	3.8236E+00	4.7261E+00
37	1.400	7.1243E+00	6.8055E+00	8.3944E+00	4.2035E+00	4.8419E+00	3.4683E+00	3.4066E+00	3.5173E+00	4.9315E+00
38	1.500	5.8940E+00	5.9752E+00	7.7076E+00	4.5802E+00	4.5235E+00	2.9969E+00	2.7196E+00	4.0351E+00	4.0351E+00
39	1.600	5.1177E+00	5.2651E+00	6.9884E+00	4.4810E+00	3.6181E+00	2.2999E+00	3.6660E+00	3.5781E+00	3.2315E+00
40	1.800	5.4745E+00	4.2333E+00	6.0193E+00	5.1645E+00	3.8282E+00	2.2101E+00	3.6100E+00	4.1258E+00	2.3110E+00
41	2.000	4.2991E+00	2.9941E+00	7.2183E+00	3.9598E+00	3.3174E+00	2.1656E+00	3.3152E+00	3.3535E+00	2.3651E+00
42	2.500	3.1514E+00	2.0318E+00	4.5591E+00	2.9541E+00	2.8396E+00	1.5004E+00	2.9983E+00	2.7614E+00	1.5698E+00
43	3.000	2.5578E+00	1.5407E+00	3.5211E+00	2.2223E+00	2.7633E+00	8.9867E-01	2.9082E+00	2.2693E+00	1.3318E+00
44	4.000	1.6769E+00	1.1897E+00	2.0731E+00	1.5249E+00	2.6554E+00	7.4973E-01	1.8634E+00	1.4701E+00	7.8759E-01
45	5.000	1.4211E+00	1.1882E+00	2.4791E+00	1.2865E+00	2.5706E+00	4.6625E-01	1.6307E+00	1.3413E+00	9.7164E-01
46	6.000	1.4626E+00	7.0554E-01	2.0032E+00	1.0585E+00	2.4761E+00	5.5997E-01	1.5769E+00	1.1670E+00	7.9443E-01
47	7.000	1.3473E+00	5.1662E-01	1.8605E+00	1.1140E+00	2.3775E+00	3.9110E-01	1.3246E+00	1.3046E+00	8.8098E-01
48	8.000	1.3545E+00	6.9696E-01	1.8023E+00	1.0674E+00	2.2937E+00	4.9819E-01	1.3393E+00	1.2730E+00	8.6244E-01
49	9.000	1.5309E+00	6.8659E-01	1.8923E+00	1.1866E+00	2.2271E+00	5.2603E-01	1.2526E+00	1.2212E+00	9.5541E-01
50	10.000	1.6725E+00	7.0452E-01	1.7497E+00	1.2669E+00	2.1484E+00	5.3278E-01	1.3819E+00	1.2518E+00	1.0767E+00

付表 1-1 (5) 富津岬の加速度応答スペクトル S_A の値 (1978.1.14, $M=7.0$, $\Delta=0$ km)

No	T	Gr (0 m)			-70 m			-110 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.2580E+02	1.1268E+02	3.4729E+01	6.9031E+01	4.9494E+01	1.9242E+01	7.5588E+01	4.4998E+01	2.6364E+01
2	0.055	1.0434E+02	1.0038E+02	3.8860E+01	7.3681E+01	5.6053E+01	1.8286E+01	8.1910E+01	4.5164E+01	2.6918E+01
3	0.060	1.0577E+02	1.1739E+02	3.2136E+01	7.7890E+01	5.9769E+01	2.1457E+01	8.6836E+01	4.5591E+01	2.9778E+01
4	0.065	1.0409E+02	1.4748E+02	3.4134E+01	7.7264E+01	5.9359E+01	2.0521E+01	8.5441E+01	4.2992E+01	2.6227E+01
5	0.070	1.1104E+02	1.5509E+02	3.5941E+01	7.2377E+01	5.6768E+01	2.2352E+01	7.4276E+01	5.6319E+01	3.0963E+01
6	0.075	1.2375E+02	1.4885E+02	3.5776E+01	8.8669E+01	6.3541E+01	2.4372E+01	6.9063E+01	5.9683E+01	2.6236E+01
7	0.080	1.1451E+02	1.7469E+02	3.3302E+01	1.1140E+02	6.0705E+01	2.5070E+01	6.0778E+01	6.4887E+01	2.7744E+01
8	0.085	1.5424E+02	1.6277E+02	3.7242E+01	1.2311E+02	6.2029E+01	2.4148E+01	6.2659E+01	6.4877E+01	2.6210E+01
9	0.090	1.6791E+02	1.3647E+02	4.1742E+01	1.0926E+02	6.3519E+01	2.5082E+01	6.7060E+01	5.7394E+01	2.6128E+01
10	0.100	1.5416E+02	1.5483E+02	3.5352E+01	9.2142E+01	8.8067E+01	2.9780E+01	8.0199E+01	8.0501E+01	2.4405E+01
11	0.120	1.6032E+02	1.7958E+02	4.1849E+01	1.1886E+02	1.0539E+02	3.3806E+01	7.8691E+01	9.9809E+01	3.4276E+01
12	0.140	1.4119E+02	1.6861E+02	5.4786E+01	9.9365E+01	6.6105E+01	4.1463E+01	8.1450E+01	7.9156E+01	2.7830E+01
13	0.150	1.1480E+02	1.4750E+02	5.0221E+01	9.6457E+01	7.3186E+01	3.7290E+01	1.1328E+02	8.7724E+01	3.6054E+01
14	0.160	1.4321E+02	1.3857E+02	6.6636E+01	9.8491E+01	8.8581E+01	4.1048E+01	1.1540E+02	8.7284E+01	4.1175E+01
15	0.180	1.3425E+02	1.9007E+02	8.7206E+01	1.5935E+02	9.9954E+01	4.6489E+01	1.2479E+02	1.1783E+02	5.3277E+01
16	0.200	1.3451E+02	2.1298E+02	9.8553E+01	2.1607E+02	1.2408E+02	4.8310E+01	1.0816E+02	9.0601E+01	5.6256E+01
17	0.220	1.7987E+02	2.0339E+02	9.8111E+01	1.9725E+02	1.1532E+02	5.8644E+01	9.2635E+01	1.0476E+02	4.5273E+01
18	0.240	2.1132E+02	1.8062E+02	8.1993E+01	1.9492E+02	1.1547E+02	4.6168E+01	1.3566E+02	1.1486E+02	2.9592E+01
19	0.260	1.8267E+02	1.5004E+02	9.2764E+01	2.0766E+02	9.8707E+01	3.4042E+01	1.4955E+02	9.5278E+01	2.7693E+01
20	0.280	1.7167E+02	1.5032E+02	9.9945E+01	2.1821E+02	7.5028E+01	2.5376E+01	1.5449E+02	8.7539E+01	2.6000E+01
21	0.300	1.8088E+02	1.5708E+02	7.5302E+01	2.0610E+02	5.1677E+01	2.4556E+01	1.6308E+02	8.1538E+01	2.7813E+01
22	0.320	1.9249E+02	1.5815E+02	5.8484E+01	1.7612E+02	4.1639E+01	1.9954E+01	1.6760E+02	8.2254E+01	2.2333E+01
23	0.340	1.7768E+02	1.3292E+02	5.7863E+01	1.4722E+02	4.1824E+01	1.8493E+01	1.5712E+02	8.4112E+01	2.1088E+01
24	0.360	1.7414E+02	1.3147E+02	4.7389E+01	1.3986E+02	3.4978E+01	1.7634E+01	1.5575E+02	8.7823E+01	1.8757E+01
25	0.380	1.6018E+02	1.4490E+02	4.2109E+01	1.3099E+02	3.1072E+01	1.8610E+01	1.4426E+02	7.0641E+01	2.1273E+01
26	0.400	1.4911E+02	1.4710E+02	4.3779E+01	1.1878E+02	3.2219E+01	2.1304E+01	1.3194E+02	5.8773E+01	2.4967E+01
27	0.450	1.6140E+02	1.3559E+02	3.9226E+01	9.5186E+01	2.6736E+01	1.7909E+01	9.0793E+01	5.1852E+01	2.1255E+01
28	0.500	1.1621E+02	1.1324E+02	2.8084E+01	7.3203E+01	2.5506E+01	2.1038E+01	5.9250E+01	3.3690E+01	2.3765E+01
29	0.550	8.4658E+01	8.6151E+01	1.8586E+01	5.3274E+01	2.5480E+01	1.6860E+01	4.7805E+01	2.8403E+01	1.7492E+01
30	0.600	6.1351E+01	5.4720E+01	1.5108E+01	5.3927E+01	2.2964E+01	1.4166E+01	4.3783E+01	2.0552E+01	1.5575E+01
31	0.650	5.5924E+01	7.1679E+01	1.6763E+01	5.0977E+01	3.1569E+01	1.5373E+01	3.8342E+01	2.7281E+01	1.5837E+01
32	0.700	4.7295E+01	6.9279E+01	1.9251E+01	5.4410E+01	3.3891E+01	1.7667E+01	2.9521E+01	3.0765E+01	1.5961E+01
33	0.800	5.3979E+01	4.8489E+01	1.4480E+01	6.3780E+01	2.7919E+01	1.5858E+01	2.8967E+01	3.0357E+01	1.6402E+01
34	0.900	4.1038E+01	3.9122E+01	9.2604E+00	5.0607E+01	2.0088E+01	1.1948E+01	3.0254E+01	2.3876E+01	1.3537E+01
35	1.000	3.2725E+01	3.5034E+01	7.0262E+00	3.1895E+01	2.1545E+01	9.7908E+00	2.2593E+01	1.8373E+01	9.1279E+00
36	1.200	2.2093E+01	2.6068E+01	5.7697E+00	1.6820E+01	9.6070E+00	6.9596E+00	1.1548E+01	1.0187E+01	8.5165E+00
37	1.400	1.8167E+01	2.3341E+01	6.5976E+00	1.2858E+01	8.1888E+00	6.0510E+00	9.1577E+00	8.8484E+00	7.1152E+00
38	1.500	1.7163E+01	2.0166E+01	5.3796E+00	8.9018E+00	7.3269E+00	3.9350E+00	7.0565E+00	8.9069E+00	5.4649E+00
39	1.600	1.8060E+01	1.8430E+01	5.3302E+00	8.8461E+00	6.7060E+00	4.5773E+00	5.8578E+00	7.0720E+00	5.4335E+00
40	1.800	1.4773E+01	1.5080E+01	3.5455E+00	5.9785E+00	3.9486E+00	3.5663E+00	3.4988E+00	3.9883E+00	4.5491E+00
41	2.000	1.2495E+01	1.3416E+01	2.4145E+00	4.3203E+00	3.0213E+00	3.5408E+00	3.6383E+00	3.6271E+00	3.2850E+00
42	2.500	1.3320E+01	1.0538E+01	2.5610E+00	2.4469E+00	1.9892E+00	2.8309E+00	4.1083E+00	2.0696E+00	3.3798E+00
43	3.000	1.0626E+01	7.9717E+00	1.7669E+00	2.7579E+00	2.2554E+00	1.3484E+00	3.8141E+00	2.6871E+00	2.0309E+00
44	4.000	6.0191E+00	6.3167E+00	2.2682E+00	2.8956E+00	1.1641E+00	2.3203E+00	2.1047E+00	1.5945E+00	1.9568E+00
45	5.000	6.8029E+00	4.3785E+00	1.0457E+00	2.2468E+00	1.4230E+00	1.7426E+00	1.6244E+00	1.6082E+00	1.6864E+00
46	6.000	6.9167E+00	2.9107E+00	1.4264E+00	1.6963E+00	1.0737E+00	1.0898E+00	1.8117E+00	1.6128E+00	1.1207E+00
47	7.000	6.4953E+00	2.1924E+00	1.6550E+00	9.5651E+01	1.0810E+00	8.3469E+01	1.7662E+00	1.4939E+00	9.8850E+01
48	8.000	5.8238E+00	1.8850E+00	1.5548E+00	8.9709E+01	1.2938E+00	6.8227E+01	1.5659E+00	1.6110E+00	9.9301E+01
49	9.000	5.3566E+00	1.6231E+00	1.6230E+00	1.0321E+00	1.3610E+00	6.7528E+01	1.3811E+00	1.7289E+00	1.0129E+00
50	10.000	4.7584E+00	1.3763E+00	1.2928E+00	1.1939E+00	1.2310E+00	6.8406E+01	1.2179E+00	1.4963E+00	1.0969E+00

付表1-2(1) 浮島公園の加速度応答スペクトル S_A の値 (1970. 9. 30, $M=4.8$, $\Delta=40\text{ km}$)

No	T	Gr (0 m)			-27 m			-67 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.5723E+01	1.8697E+01	1.0029E+01	1.4563E+01	1.2222E+01	6.5892E+00	9.0984E+00	9.1695E+00	4.2652E+00
2	0.055	1.6434E+01	1.7547E+01	1.2601E+01	1.5496E+01	1.2292E+01	7.5768E+00	9.8313E+00	9.0414E+00	5.1090E+00
3	0.060	1.8899E+01	2.0985E+01	1.3640E+01	2.0229E+01	1.4730E+01	7.2988E+00	1.2041E+01	1.0900E+01	4.7263E+00
4	0.065	1.6010E+01	1.9717E+01	1.4330E+01	1.6685E+01	1.5394E+01	9.4497E+00	1.1241E+01	1.2144E+01	5.6693E+00
5	0.070	1.5397E+01	2.1173E+01	1.5775E+01	1.4506E+01	1.6194E+01	8.7857E+00	9.2957E+00	1.2114E+01	4.4750E+00
6	0.075	1.8078E+01	2.1218E+01	1.7056E+01	1.5343E+01	1.6732E+01	6.7658E+00	9.8846E+00	1.1500E+01	4.9899E+00
7	0.080	2.1970E+01	2.3679E+01	1.4974E+01	1.6421E+01	1.7907E+01	7.7275E+00	1.0835E+01	1.1310E+01	4.6382E+00
8	0.085	2.2210E+01	2.6506E+01	1.7609E+01	1.7791E+01	1.9412E+01	7.9448E+00	1.1507E+01	1.2362E+01	5.0780E+00
9	0.090	2.3044E+01	3.1463E+01	2.1454E+01	2.3262E+01	2.6543E+01	7.2005E+00	1.2110E+01	1.7549E+01	5.4305E+00
10	0.100	3.1622E+01	4.3966E+01	2.3128E+01	2.6663E+01	3.4016E+01	7.8279E+00	1.3487E+01	2.1172E+01	5.2870E+00
11	0.120	3.1226E+01	7.1490E+01	3.0323E+01	4.0991E+01	3.3602E+01	9.8857E+00	2.1531E+01	2.7235E+01	6.4370E+00
12	0.140	3.2402E+01	7.7883E+01	3.3179E+01	4.5503E+01	2.7984E+01	1.8547E+01	2.3825E+01	2.3363E+01	6.3815E+00
13	0.150	4.5631E+01	6.1180E+01	3.7322E+01	4.5761E+01	3.0347E+01	1.5603E+01	2.3582E+01	2.0303E+01	6.1517E+00
14	0.160	3.5257E+01	5.1606E+01	2.6564E+01	4.1630E+01	2.5425E+01	1.5021E+01	2.0301E+01	1.6455E+01	5.0752E+00
15	0.180	3.0974E+01	4.3427E+01	1.9582E+01	2.2719E+01	1.8151E+01	1.3034E+01	1.3227E+01	1.8733E+01	3.4509E+00
16	0.200	2.6190E+01	4.0377E+01	1.3702E+01	1.7312E+01	1.5664E+01	1.0750E+01	1.1666E+01	1.6134E+01	3.5345E+00
17	0.220	2.3089E+01	3.1389E+01	1.0118E+01	1.6707E+01	2.0155E+01	5.6890E+00	1.0548E+01	1.1845E+01	3.0840E+00
18	0.240	2.5671E+01	2.5675E+01	1.0796E+01	1.9637E+01	1.8674E+01	5.1984E+00	9.7715E+00	7.7750E+00	2.8855E+00
19	0.260	2.3996E+01	2.4064E+01	1.1524E+01	2.1753E+01	1.5235E+01	5.2269E+00	1.0769E+01	5.2859E+00	2.7436E+00
20	0.280	2.0904E+01	1.7818E+01	8.7094E+00	1.5341E+01	1.2561E+01	4.1830E+00	1.0506E+01	4.3114E+00	2.5446E+00
21	0.300	1.5552E+01	1.6111E+01	6.6291E+00	1.0728E+01	8.9709E+00	3.7296E+00	7.5791E+00	3.3277E+00	2.5194E+00
22	0.320	1.4037E+01	1.5979E+01	7.8486E+00	9.6787E+00	8.9306E+00	3.4016E+00	5.5604E+00	3.8001E+00	2.3439E+00
23	0.340	1.2211E+01	1.7862E+01	7.3749E+00	1.1104E+01	8.9601E+00	3.0059E+00	4.4627E+00	3.7514E+00	2.6644E+00
24	0.360	1.0919E+01	1.9505E+01	4.9631E+00	1.1027E+01	8.0515E+00	3.7365E+00	4.5263E+00	3.7829E+00	2.0960E+00
25	0.380	1.0318E+01	1.6773E+01	4.2661E+00	9.7147E+00	7.6146E+00	4.1377E+00	4.2723E+00	4.7069E+00	2.0891E+00
26	0.400	8.4958E+00	1.3380E+01	4.1550E+00	9.7774E+00	7.9466E+00	3.9368E+00	3.8933E+00	5.5960E+00	2.0694E+00
27	0.450	1.0576E+01	9.6319E+00	3.6181E+00	7.8340E+00	4.9691E+00	2.6510E+00	4.8616E+00	3.3749E+00	1.6054E+00
28	0.500	8.9907E+00	7.4801E+00	3.2181E+00	4.7452E+00	4.2627E+00	1.8250E+00	4.8519E+00	2.1049E+00	1.5424E+00
29	0.550	6.0713E+00	7.3388E+00	2.9967E+00	4.0800E+00	3.0995E+00	1.7818E+00	3.8596E+00	2.0097E+00	1.2305E+00
30	0.600	4.5629E+00	5.6997E+00	2.3539E+00	4.0048E+00	2.9847E+00	2.0167E+00	4.2276E+00	2.3352E+00	1.3007E+00
31	0.650	3.9655E+00	5.6099E+00	2.1648E+00	3.5457E+00	3.2561E+00	1.5601E+00	4.4404E+00	2.2719E+00	1.0747E+00
32	0.700	4.3681E+00	5.2732E+00	2.4733E+00	3.3826E+00	3.5644E+00	2.2288E+00	3.8398E+00	2.5238E+00	1.1044E+00
33	0.800	3.0923E+00	3.9666E+00	1.9433E+00	2.8052E+00	4.1483E+00	1.5437E+00	2.4106E+00	2.0130E+00	1.0142E+00
34	0.900	2.2795E+00	3.4667E+00	1.7176E+00	2.5059E+00	3.5214E+00	9.9100E-01	1.5424E+00	2.1919E+00	8.1986E-01
35	1.000	2.5437E+00	3.1909E+00	1.6459E+00	2.2771E+00	3.3340E+00	8.7181E-01	1.7700E+00	1.6603E+00	7.5782E-01
36	1.200	2.2617E+00	2.6315E+00	1.5424E+00	1.6122E+00	2.6475E+00	6.6955E-01	1.6353E+00	1.2196E+00	7.1090E-01
37	1.400	1.2827E+00	3.2471E+00	1.4655E+00	1.3404E+00	2.7611E+00	7.3992E-01	1.3912E+00	1.0016E+00	7.3880E-01
38	1.500	1.4837E+00	2.8858E+00	1.5995E+00	1.3338E+00	2.4540E+00	6.3749E-01	1.3612E+00	8.0423E-01	6.0767E-01
39	1.600	1.6198E+00	2.5809E+00	1.5825E+00	1.0689E+00	2.1674E+00	6.4074E-01	1.2671E+00	9.1933E-01	6.2015E-01
40	1.800	1.4952E+00	1.4381E+00	1.5407E+00	9.3724E-01	1.9970E+00	6.2518E-01	9.5588E-01	7.7738E-01	6.1561E-01
41	2.000	1.1616E+00	1.1518E+00	1.6121E+00	1.0539E+00	1.8354E+00	6.0600E-01	7.4849E-01	7.4953E-01	4.9650E-01
42	2.500	6.4060E-01	1.0256E+00	1.8016E+00	1.1326E+00	1.6930E+00	5.5868E-01	7.9478E-01	6.5868E-01	6.0810E-01
43	3.000	7.1444E-01	7.9820E-01	1.7387E+00	1.0128E+00	1.7567E+00	5.2678E-01	7.8057E-01	6.4143E-01	5.2538E-01
44	4.000	5.8765E-01	6.7751E-01	2.0736E+00	8.8652E-01	1.1876E+00	4.9767E-01	5.5638E-01	6.4004E-01	4.8485E-01
45	5.000	5.9405E-01	6.7847E-01	1.9033E+00	9.7007E-01	8.6866E-01	5.5745E-01	3.9805E-01	7.1481E-01	6.0200E-01
46	6.000	6.7877E-01	7.3700E-01	1.4831E+00	8.8367E-01	7.4960E-01	6.6060E-01	3.0802E-01	7.4287E-01	5.7668E-01
47	7.000	7.1699E-01	8.2643E-01	1.6579E+00	7.1480E-01	6.6585E-01	4.7866E-01	2.5396E-01	7.3830E-01	4.1558E-01
48	8.000	7.2172E-01	8.8039E-01	2.0853E+00	5.0779E-01	5.9796E-01	4.1447E-01	2.2326E-01	7.9096E-01	3.9232E-01
49	9.000	6.9049E-01	8.7730E-01	2.5728E+00	3.7320E-01	5.9442E-01	4.8850E-01	2.1918E-01	7.8328E-01	4.0778E-01
50	10.000	6.2140E-01	8.5865E-01	2.8790E+00	2.8160E-01	6.0481E-01	4.1703E-01	2.1008E-01	7.2534E-01	4.1247E-01

付表 1-2 (1)' 浮島公園の加速度応答スペクトル S_A の値

(1970. 9. 30, $M=4.8$, $\Delta=40 \text{ km}$)

No.	T	-127 m		
		N-S	E-W	U-D
1	0.050	8.2922E+00	5.1359E+00	3.8794E+00
2	0.055	8.9812E+00	5.0888E+00	4.4308E+00
3	0.060	1.1166E+01	5.7232E+00	4.3435E+00
4	0.065	1.1896E+01	6.6742E+00	4.6774E+00
5	0.070	1.1178E+01	6.6746E+00	5.1933E+00
6	0.075	1.0098E+01	7.3233E+00	4.5294E+00
7	0.080	1.1390E+01	7.0139E+00	4.8724E+00
8	0.085	1.1652E+01	7.1255E+00	4.8376E+00
9	0.090	1.4339E+01	7.7815E+00	4.3708E+00
10	0.100	2.0401E+01	9.7746E+00	5.5165E+00
11	0.120	2.2006E+01	1.6818E+01	4.8909E+00
12	0.140	2.7174E+01	1.1489E+01	5.6051E+00
13	0.150	2.7268E+01	8.8712E+00	6.0939E+00
14	0.160	2.0269E+01	8.5860E+00	6.9173E+00
15	0.180	1.0907E+01	9.4085E+00	6.3456E+00
16	0.200	9.3415E+00	7.9770E+00	3.9390E+00
17	0.220	7.4660E+00	6.1790E+00	2.6936E+00
18	0.240	7.4489E+00	7.3898E+00	3.3376E+00
19	0.260	9.1201E+00	5.2526E+00	3.5863E+00
20	0.260	8.7820E+00	5.1881E+00	2.9343E+00
21	0.300	7.1265E+00	4.0593E+00	2.2453E+00
22	0.320	6.3676E+00	3.4565E+00	2.0958E+00
23	0.340	5.9607E+00	3.1038E+00	1.8231E+00
24	0.360	5.4999E+00	2.8837E+00	1.8158E+00
25	0.380	4.9039E+00	2.9777E+00	1.9186E+00
26	0.400	4.2901E+00	3.0843E+00	1.7745E+00
27	0.450	3.2313E+00	2.2325E+00	1.4407E+00
28	0.500	3.4306E+00	2.0853E+00	1.5402E+00
29	0.550	2.4043E+00	2.6803E+00	1.4352E+00
30	0.600	2.2899E+00	2.2092E+00	1.4942E+00
31	0.650	1.8653E+00	2.1280E+00	1.5188E+00
32	0.700	1.9624E+00	1.4180E+00	1.4888E+00
33	0.800	1.2851E+00	1.0442E+00	1.7466E+00
34	0.900	1.1443E+00	9.5451E-01	1.2861E+00
35	1.000	1.3393E+00	1.1176E+00	1.1482E+00
36	1.200	1.5756E+00	1.3607E+00	1.3438E+00
37	1.400	1.3088E+00	1.1730E+00	1.1838E+00
38	1.500	1.2481E+00	1.0519E+00	1.0871E+00
39	1.600	1.1534E+00	1.0127E+00	1.1542E+00
40	1.800	1.1811E+00	9.0900E-01	1.1695E+00
41	2.000	8.7680E-01	8.2593E-01	1.0852E+00
42	2.500	6.1607E-01	7.1987E-01	1.2276E+00
43	3.000	5.1829E-01	7.2687E-01	1.1252E+00
44	4.000	3.7501E-01	7.4077E-01	1.5156E+00
45	5.000	4.0417E-01	7.6558E-01	1.3921E+00
46	6.000	4.0977E-01	9.0414E-01	1.0631E+00
47	7.000	3.4930E-01	8.1353E-01	1.4001E+00
48	8.000	2.4996E-01	8.1235E-01	1.4044E+00
49	9.000	2.1063E-01	8.1673E-01	1.3031E+00
50	10.000	1.7095E-01	8.1506E-01	1.3196E+00

付表 1-2 (2) 浮島公園の加速度応答スペクトル S_A の値 (1971. 7. 23, $M=5.3$, $\Delta=10$ km)

No.	T	Gr (0 m)			-27 m			-67 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	2.0692E+01	1.5622E+01	3.0799E+00	1.5710E+01	1.5102E+01	4.7100E+00	7.7562E+00	5.9323E+00	3.4639E+00
2	0.055	1.9536E+01	1.5000E+01	3.3969E+00	1.5753E+01	1.4721E+01	5.4215E+00	7.5296E+00	5.8490E+00	3.4353E+00
3	0.060	1.6407E+01	1.5235E+01	2.9174E+00	1.6800E+01	1.5418E+01	6.3398E+00	7.9988E+00	5.8217E+00	3.8512E+00
4	0.065	1.6116E+01	1.5756E+01	3.5497E+00	1.7441E+01	1.4729E+01	7.5380E+00	8.0631E+00	5.9722E+00	3.7017E+00
5	0.070	1.7085E+01	1.7471E+01	4.2461E+00	1.7139E+01	1.6549E+01	7.8445E+00	8.5265E+00	6.4108E+00	3.6929E+00
6	0.075	1.8625E+01	1.8041E+01	4.5436E+00	1.7995E+01	1.7597E+01	7.0553E+00	8.7308E+00	6.5608E+00	3.2620E+00
7	0.080	1.9615E+01	1.8991E+01	4.4165E+00	1.9686E+01	1.7669E+01	7.7549E+00	8.7437E+00	6.6064E+00	3.6684E+00
8	0.085	2.1566E+01	2.0035E+01	3.9250E+00	2.1366E+01	1.8674E+01	6.5403E+00	9.5336E+00	7.3004E+00	3.4411E+00
9	0.090	2.2419E+01	2.0574E+01	4.3161E+00	2.1955E+01	1.9387E+01	5.5019E+00	9.4318E+00	8.5346E+00	3.6025E+00
10	0.100	2.2125E+01	1.9831E+01	3.7567E+00	2.1155E+01	1.9902E+01	5.8934E+00	9.4986E+00	9.6794E+00	3.8695E+00
11	0.120	3.1677E+01	2.2379E+01	4.0987E+00	2.8894E+01	2.2822E+01	6.4101E+00	1.5020E+01	9.6546E+00	4.2323E+00
12	0.140	3.9124E+01	4.0275E+01	4.5433E+00	2.1794E+01	3.1369E+01	9.5457E+00	1.5303E+01	1.5122E+01	4.5918E+00
13	0.150	4.4577E+01	4.2396E+01	4.7903E+00	3.3238E+01	3.5935E+01	9.0347E+00	1.6649E+01	1.7520E+01	4.3536E+00
14	0.160	5.4972E+01	4.3675E+01	5.2818E+00	4.2518E+01	3.7574E+01	1.1517E+01	2.0455E+01	1.6710E+01	4.3496E+00
15	0.180	7.9108E+01	4.4244E+01	8.1921E+00	3.5068E+01	3.4944E+01	1.6602E+01	2.8395E+01	1.5234E+01	4.4906E+00
16	0.200	7.1568E+01	4.1594E+01	6.0106E+00	4.3631E+01	3.5788E+01	1.1616E+01	2.6779E+01	1.6849E+01	5.4834E+00
17	0.220	4.3853E+01	4.6631E+01	5.2019E+00	3.3677E+01	4.0107E+01	9.2610E+00	1.5631E+01	1.9555E+01	5.0307E+00
18	0.240	3.6971E+01	3.5371E+01	4.7891E+00	3.2749E+01	3.2697E+01	9.3444E+00	1.4998E+01	1.3272E+01	5.1997E+00
19	0.260	4.5687E+01	3.3705E+01	4.8928E+00	3.5495E+01	2.9097E+01	7.5788E+00	1.7692E+01	1.2294E+01	5.7127E+00
20	0.280	5.7133E+01	3.6787E+01	5.9758E+00	3.4466E+01	2.8851E+01	9.9451E+00	2.2255E+01	1.4180E+01	6.9300E+00
21	0.300	7.0857E+01	4.7348E+01	6.5806E+00	3.0521E+01	3.1991E+01	1.0407E+01	2.3672E+01	1.6577E+01	8.6154E+00
22	0.320	6.5669E+01	5.4433E+01	7.4868E+00	3.9249E+01	3.7384E+01	1.2960E+01	1.9483E+01	1.5169E+01	1.0582E+01
23	0.340	6.1698E+01	5.5239E+01	7.5495E+00	4.2896E+01	3.3718E+01	1.0413E+01	1.3505E+01	1.3317E+01	1.2994E+01
24	0.360	5.9081E+01	5.1431E+01	5.4805E+00	3.9480E+01	3.9748E+01	1.2861E+01	1.2896E+01	1.4012E+01	1.1497E+01
25	0.380	6.3380E+01	4.5247E+01	4.6296E+00	4.5070E+01	5.5617E+01	1.5325E+01	1.4601E+01	1.8333E+01	1.4320E+01
26	0.400	6.2529E+01	4.8296E+01	4.7705E+00	5.1849E+01	6.5086E+01	1.3138E+01	1.7954E+01	2.0973E+01	1.3851E+01
27	0.450	3.8245E+01	3.1964E+01	6.0636E+00	3.2809E+01	3.5751E+01	1.2523E+01	9.7480E+00	1.3198E+01	1.3666E+01
28	0.500	2.0082E+01	1.9839E+01	5.1876E+00	2.0904E+01	1.8385E+01	1.1055E+01	5.5590E+00	6.4814E+00	1.0663E+01
29	0.550	1.4932E+01	1.5116E+01	3.4376E+00	1.2912E+01	1.4386E+01	7.6619E+00	4.1330E+00	4.8032E+00	6.4634E+00
30	0.600	1.1580E+01	1.2864E+01	2.4665E+00	8.8955E+00	9.5343E+00	4.8389E+00	3.5534E+00	4.6443E+00	4.4992E+00
31	0.650	1.0915E+01	1.1080E+01	1.9771E+00	6.8324E+00	7.7369E+00	3.9179E+00	3.5160E+00	4.9375E+00	3.5393E+00
32	0.700	9.9710E+00	1.2113E+01	2.2768E+00	5.0741E+00	6.2010E+00	3.5302E+00	3.5294E+00	5.4150E+00	3.2695E+00
33	0.800	7.8863E+00	9.3040E+00	2.0178E+00	4.0624E+00	5.2202E+00	3.9051E+00	4.6566E+00	4.1827E+00	3.8078E+00
34	0.900	7.8274E+00	8.6351E+00	2.0638E+00	3.1812E+00	4.1860E+00	3.2645E+00	4.1431E+00	4.5341E+00	2.7800E+00
35	1.000	6.0073E+00	9.7138E+00	2.3243E+00	3.0254E+00	3.5560E+00	3.8952E+00	2.3624E+00	4.7291E+00	3.8092E+00
36	1.200	6.5964E+00	1.2117E+01	1.7013E+00	4.0287E+00	5.1079E+00	2.4336E+00	1.8280E+00	3.4497E+00	2.8498E+00
37	1.400	8.7945E+00	1.0940E+01	1.6183E+00	4.5811E+00	5.2932E+00	2.3600E+00	1.3979E+00	2.5861E+00	2.5822E+00
38	1.500	9.3857E+00	1.3454E+01	1.5805E+00	3.9112E+00	7.7879E+00	1.9362E+00	1.2626E+00	2.0110E+00	2.1131E+00
39	1.600	1.0684E+01	1.1556E+01	1.5549E+00	3.5300E+00	6.8331E+00	1.5433E+00	1.2764E+00	1.4299E+00	1.7739E+00
40	1.800	6.1647E+00	5.1263E+00	1.4980E+00	2.9920E+00	3.7098E+00	1.5475E+00	1.2950E+00	1.1747E+00	1.6817E+00
41	2.000	4.4269E+00	4.9644E+00	1.4383E+00	2.7747E+00	2.8976E+00	1.3095E+00	1.3894E+00	1.1655E+00	1.2571E+00
42	2.500	4.2257E+00	4.8016E+00	1.3480E+00	1.6880E+00	2.0937E+00	1.2049E+00	6.6432E-01	9.5591E-01	1.1026E+00
43	3.000	4.0131E+00	4.6154E+00	1.2867E+00	1.4835E+00	1.4412E+00	1.1123E+00	8.3434E-01	8.5990E-01	1.0074E+00
44	4.000	3.7414E+00	4.3527E+00	1.2623E+00	1.1633E+00	1.3284E+00	9.4852E-01	6.6046E-01	6.5574E-01	8.4708E-01
45	5.000	3.6190E+00	4.0515E+00	1.1232E+00	1.0830E+00	1.2171E+00	8.6674E-01	5.4869E-01	4.1073E-01	7.6259E-01
46	6.000	3.4712E+00	3.7905E+00	1.0964E+00	1.0210E+00	1.1381E+00	8.8378E-01	5.2828E-01	4.8704E-01	9.0013E-01
47	7.000	4.0406E+00	4.1410E+00	1.2947E+00	1.0726E+00	1.0843E+00	1.0364E+00	5.9880E-01	5.8265E-01	8.8773E-01
48	8.000	4.3740E+00	4.6741E+00	1.4635E+00	9.6380E-01	1.0418E+00	1.0046E+00	6.9825E-01	6.4258E-01	8.7481E-01
49	9.000	4.6274E+00	4.9849E+00	1.5748E+00	1.0205E+00	1.2190E+00	9.9075E-01	7.5687E-01	6.9377E-01	1.1339E+00
50	10.000	4.8499E+00	5.1641E+00	1.6616E+00	1.1777E+00	1.3353E+00	1.1646E+00	7.8609E-01	6.7244E-01	1.3024E+00

付表 1-2 (2)' 浮島公園の加速度応答スペクトル S_A の値
(1971. 7. 23, $M=5.3$, $\Delta=10$ km)

No	T	-27 m		
		N-S	E-W	U-D
1	0.050	7.3545E+00	4.5736E+00	2.9136E+00
2	0.055	7.0944E+00	4.7357E+00	2.8580E+00
3	0.060	7.4995E+00	4.5674E+00	3.2504E+00
4	0.065	8.3839E+00	4.5127E+00	3.2952E+00
5	0.070	9.0841E+00	4.3190E+00	2.9924E+00
6	0.075	8.6960E+00	4.5877E+00	2.8838E+00
7	0.080	8.3788E+00	5.0114E+00	3.3460E+00
8	0.085	8.9668E+00	5.3827E+00	3.0288E+00
9	0.090	8.8413E+00	5.7249E+00	3.6061E+00
10	0.100	9.7926E+00	7.3670E+00	3.6036E+00
11	0.120	9.2986E+00	8.0517E+00	3.6124E+00
12	0.140	1.1597E+01	7.2437E+00	3.8933E+00
13	0.150	1.4475E+01	7.1987E+00	4.2398E+00
14	0.160	1.6089E+01	8.9977E+00	4.5129E+00
15	0.180	1.8021E+01	1.2137E+01	6.3571E+00
16	0.200	1.5064E+01	1.1249E+01	4.5372E+00
17	0.220	1.4730E+01	1.2835E+01	5.1075E+00
18	0.240	1.5349E+01	1.2100E+01	5.1374E+00
19	0.260	1.9539E+01	1.1663E+01	5.6171E+00
20	0.280	3.0357E+01	1.2569E+01	5.6574E+00
21	0.300	3.8242E+01	1.4247E+01	6.9408E+00
22	0.320	3.3347E+01	1.3730E+01	8.0762E+00
23	0.340	2.1908E+01	1.2534E+01	7.3885E+00
24	0.360	1.5265E+01	1.2731E+01	7.4867E+00
25	0.380	1.4928E+01	1.5519E+01	9.3956E+00
26	0.400	1.5544E+01	1.3608E+01	9.4788E+00
27	0.450	9.3760E+00	6.3290E+00	9.9734E+00
28	0.500	7.5514E+00	6.6699E+00	8.4902E+00
29	0.550	5.2562E+00	4.7456E+00	5.3225E+00
30	0.600	4.0202E+00	3.8505E+00	3.2143E+00
31	0.650	3.0572E+00	3.0360E+00	2.7007E+00
32	0.700	2.8333E+00	2.7216E+00	2.9184E+00
33	0.800	2.5449E+00	1.8550E+00	2.4190E+00
34	0.900	2.2039E+00	2.0828E+00	2.1770E+00
35	1.000	2.0581E+00	3.1222E+00	2.8888E+00
36	1.200	2.9023E+00	3.3574E+00	2.2292E+00
37	1.400	2.9357E+00	2.0456E+00	1.5371E+00
38	1.500	2.5716E+00	2.3269E+00	1.5543E+00
39	1.600	2.2882E+00	2.6175E+00	1.3846E+00
40	1.800	1.6725E+00	1.8096E+00	1.5203E+00
41	2.000	1.6382E+00	1.1900E+00	1.0919E+00
42	2.500	1.5581E+00	8.0566E-01	6.2166E-01
43	3.000	1.4803E+00	7.5273E-01	5.8499E-01
44	4.000	1.3808E+00	4.7459E-01	5.3434E-01
45	5.000	1.2985E+00	3.7317E-01	5.5418E-01
46	6.000	1.2211E+00	4.1754E-01	4.2418E-01
47	7.000	1.2995E+00	4.8239E-01	5.0314E-01
48	8.000	1.4609E+00	6.0066E-01	5.9182E-01
49	9.000	1.5743E+00	6.2994E-01	6.6167E-01
50	10.000	1.6295E+00	6.3811E-01	7.1572E-01

付表1-2(3) 浮島公園の加速度応答スペクトル S_A の値 (1972. 12. 4, $M=7.2$, $\Delta=50$ km)

No.	T	Gr (0 m)			-27 m			-67 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	2.4561E+01	1.8185E+01	8.2819E+00	1.8658E+01	1.3342E+01	5.3958E+00	8.7764E+00	8.3346E+00	4.1874E+00
2	0.055	2.9719E+01	1.8377E+01	7.9588E+00	1.8190E+01	1.4059E+01	6.4065E+00	8.8025E+00	8.3370E+00	5.1776E+00
3	0.060	3.2269E+01	1.7912E+01	8.6630E+00	1.7648E+01	1.4427E+01	7.1996E+00	8.4373E+00	9.3826E+00	5.8759E+00
4	0.065	2.5558E+01	1.7878E+01	9.6939E+00	1.8746E+01	1.5218E+01	7.7874E+00	8.8368E+00	9.9751E+00	4.4832E+00
5	0.070	2.2422E+01	1.9990E+01	1.0143E+01	1.9429E+01	1.5927E+01	7.5065E+00	1.0093E+01	1.2504E+01	4.2987E+00
6	0.075	2.4887E+01	2.0810E+01	9.6826E+00	2.0694E+01	1.9187E+01	7.3246E+00	1.0456E+01	1.3152E+01	3.9461E+00
7	0.080	2.4525E+01	2.2133E+01	1.0552E+01	2.1860E+01	2.0449E+01	6.5078E+00	1.1094E+01	1.2118E+01	4.0091E+00
8	0.085	2.9192E+01	2.1619E+01	1.1631E+01	2.4658E+01	1.9424E+01	7.1379E+00	1.1747E+01	1.3226E+01	4.1519E+00
9	0.090	3.1314E+01	2.4370E+01	1.3248E+01	2.4966E+01	2.1068E+01	7.4551E+00	1.4343E+01	1.3832E+01	4.8315E+00
10	0.100	4.0605E+01	2.7476E+01	1.3829E+01	2.1979E+01	2.2429E+01	7.5115E+00	1.3191E+01	1.4338E+01	5.5701E+00
11	0.120	3.5321E+01	3.8671E+01	1.4082E+01	2.5614E+01	2.9575E+01	6.5271E+00	1.7700E+01	1.5309E+01	5.7675E+00
12	0.140	4.1314E+01	4.8162E+01	2.2436E+01	2.6521E+01	3.4746E+01	1.2276E+01	1.8666E+01	1.9832E+01	6.9141E+00
13	0.150	3.3925E+01	4.5138E+01	1.8424E+01	3.2904E+01	3.6149E+01	1.2437E+01	1.5726E+01	1.7811E+01	5.8295E+00
14	0.160	3.9359E+01	4.5821E+01	1.9242E+01	3.5356E+01	3.7708E+01	1.2095E+01	1.9391E+01	2.3149E+01	6.9683E+00
15	0.180	4.2085E+01	4.7757E+01	1.4387E+01	2.5322E+01	2.4707E+01	8.9841E+00	1.8154E+01	1.8839E+01	5.7897E+00
16	0.200	4.0393E+01	5.0269E+01	2.0095E+01	2.9478E+01	3.2180E+01	9.9218E+00	2.1290E+01	2.1719E+01	4.6699E+00
17	0.220	4.1481E+01	3.8554E+01	1.8590E+01	4.0898E+01	3.3433E+01	1.0571E+01	2.0907E+01	1.4837E+01	5.5941E+00
18	0.240	3.4534E+01	4.0871E+01	1.2842E+01	3.8070E+01	3.6126E+01	9.5793E+00	1.6629E+01	1.3995E+01	6.5556E+00
19	0.260	3.8675E+01	4.9022E+01	1.1211E+01	3.2740E+01	3.2467E+01	1.1073E+01	1.7090E+01	1.7223E+01	7.2569E+00
20	0.280	3.8546E+01	4.1464E+01	1.3645E+01	2.3612E+01	2.2777E+01	9.5763E+00	1.4499E+01	1.4561E+01	8.1809E+00
21	0.300	4.4436E+01	3.8804E+01	1.4420E+01	2.0796E+01	1.9975E+01	9.7919E+00	1.4655E+01	1.3628E+01	7.6610E+00
22	0.320	4.3005E+01	3.8513E+01	1.3072E+01	2.2499E+01	2.2266E+01	9.7986E+00	1.1322E+01	1.0684E+01	7.0302E+00
23	0.340	4.4459E+01	3.4327E+01	1.2909E+01	2.6033E+01	2.5236E+01	1.2936E+01	1.1616E+01	1.0148E+01	7.5599E+00
24	0.360	4.0106E+01	4.2237E+01	1.6092E+01	3.2775E+01	3.4212E+01	1.1862E+01	1.2113E+01	1.0097E+01	7.0809E+00
25	0.380	3.4431E+01	4.0531E+01	1.7660E+01	3.6641E+01	3.1896E+01	1.2648E+01	1.5029E+01	1.0611E+01	7.1323E+00
26	0.400	3.8158E+01	3.3760E+01	1.4607E+01	4.2134E+01	2.7567E+01	1.1022E+01	1.5281E+01	1.1717E+01	6.5525E+00
27	0.450	3.9026E+01	3.4259E+01	1.1375E+01	3.9429E+01	2.8359E+01	7.2566E+00	1.2899E+01	1.2410E+01	5.7650E+00
28	0.500	3.1391E+01	3.9472E+01	9.7959E+00	2.8748E+01	2.8368E+01	9.4119E+00	1.2358E+01	1.0211E+01	5.9207E+00
29	0.550	3.6231E+01	4.2459E+01	1.4214E+01	3.4441E+01	3.1394E+01	1.3693E+01	1.5124E+01	1.5854E+01	1.0928E+01
30	0.600	3.8259E+01	3.2960E+01	1.2585E+01	2.6144E+01	2.4110E+01	1.3676E+01	1.5148E+01	1.3880E+01	1.1254E+01
31	0.650	3.6729E+01	2.7585E+01	1.2849E+01	2.0128E+01	1.8575E+01	1.2088E+01	1.5174E+01	1.4026E+01	9.9034E+00
32	0.700	2.5668E+01	2.6415E+01	1.1107E+01	1.8472E+01	1.7475E+01	8.1339E+00	1.5361E+01	1.2896E+01	7.1996E+00
33	0.800	2.2371E+01	3.1864E+01	8.9498E+00	1.1583E+01	1.4340E+01	9.7627E+00	1.3995E+01	1.6184E+01	6.9931E+00
34	0.900	2.4041E+01	3.4680E+01	8.9158E+00	1.2098E+01	1.1842E+01	8.8963E+00	1.3048E+01	1.4858E+01	9.2896E+00
35	1.000	3.9020E+01	3.3687E+01	7.7595E+00	1.3244E+01	1.1508E+01	8.6559E+00	2.0102E+01	1.3169E+01	8.2543E+00
36	1.200	4.5680E+01	3.3809E+01	1.2907E+01	2.0454E+01	1.8307E+01	1.0371E+01	1.3462E+01	1.2547E+01	9.3098E+00
37	1.400	4.9897E+01	3.7759E+01	1.2968E+01	2.2083E+01	2.0594E+01	1.0748E+01	8.5833E+00	9.1954E+00	9.9799E+00
38	1.500	3.4537E+01	4.2209E+01	1.2804E+01	2.5673E+01	2.1418E+01	1.0513E+01	7.7755E+00	8.4858E+00	9.3547E+00
39	1.600	3.7995E+01	6.1681E+01	1.4613E+01	3.6402E+01	2.9055E+01	1.2912E+01	9.6097E+00	9.4754E+00	1.1895E+01
40	1.800	3.9459E+01	8.2823E+01	1.0177E+01	3.9234E+01	4.3876E+01	8.9039E+00	1.3450E+01	1.3875E+01	8.0829E+00
41	2.000	3.7371E+01	4.8040E+01	8.0767E+00	3.5615E+01	3.0060E+01	6.5895E+00	1.6805E+01	1.3590E+01	5.4898E+00
42	2.500	2.3130E+01	2.5705E+01	3.4194E+00	2.4899E+01	1.7505E+01	2.4710E+00	1.5001E+01	9.1367E+00	2.9056E+00
43	3.000	1.4328E+01	1.1828E+01	3.0891E+00	1.2335E+01	9.0757E+00	2.4855E+00	8.5340E+00	6.1384E+00	2.2005E+00
44	4.000	1.3260E+01	8.1334E+00	4.1447E+00	1.0612E+01	5.5237E+00	3.1257E+00	8.2920E+00	5.2138E+00	3.6636E+00
45	5.000	6.0110E+00	7.2840E+00	2.3292E+00	5.9955E+00	4.5374E+00	2.1998E+00	4.5695E+00	3.7116E+00	2.6888E+00
46	6.000	4.1562E+00	3.9299E+00	1.2877E+00	2.1877E+00	2.5464E+00	2.3847E+00	2.2635E+00	2.1906E+00	1.7930E+00
47	7.000	3.1308E+00	3.4317E+00	1.0989E+00	2.4110E+00	2.3021E+00	1.7946E+00	1.8382E+00	1.4194E+00	1.7501E+00
48	8.000	2.6777E+00	3.4234E+00	9.3236E-01	2.5106E+00	1.9438E+00	1.7906E+00	2.0579E+00	1.6784E+00	1.9327E+00
49	9.000	2.4579E+00	2.6868E+00	1.0117E+00	2.1181E+00	1.6969E+00	1.1830E+00	1.3286E+00	1.4130E+00	1.2060E+00
50	10.000	2.3431E+00	2.9432E+00	1.0715E+00	1.7183E+00	1.4657E+00	1.0322E+00	7.4860E-01	1.1178E+00	1.0581E+00

付表 1-2 (3)' 浮島公園の加速度応答スペクトル S_A の値
(1972. 12. 4, $M=7.2$, $\Delta=50$ km)

No	T	-127 m		
		N-S	E-W	U-D
1	0.050	6.8875E+00	6.0088E+00	3.5963E+00
2	0.055	7.2326E+00	5.2541E+00	4.2538E+00
3	0.060	7.8869E+00	5.6804E+00	4.0565E+00
4	0.065	7.7992E+00	6.3205E+00	4.1847E+00
5	0.070	8.4489E+00	7.7069E+00	4.6542E+00
6	0.075	8.8740E+00	7.6019E+00	4.9497E+00
7	0.080	9.9771E+00	8.6966E+00	5.2790E+00
8	0.085	1.0452E+01	1.0084E+01	5.8479E+00
9	0.090	1.0569E+01	1.1434E+01	6.1476E+00
10	0.100	1.2715E+01	1.1942E+01	6.5350E+00
11	0.120	1.2562E+01	1.1656E+01	5.4188E+00
12	0.140	1.6007E+01	1.2638E+01	5.7967E+00
13	0.150	1.4511E+01	1.0642E+01	6.3926E+00
14	0.160	1.6457E+01	1.3015E+01	7.4779E+00
15	0.180	1.2555E+01	1.0456E+01	5.8513E+00
16	0.200	1.4815E+01	1.0267E+01	5.2157E+00
17	0.220	1.5642E+01	1.1236E+01	4.3424E+00
18	0.240	1.4044E+01	1.4137E+01	6.4257E+00
19	0.260	1.1105E+01	1.4424E+01	5.1047E+00
20	0.280	1.2411E+01	1.7548E+01	5.2967E+00
21	0.300	1.3056E+01	1.5646E+01	6.8438E+00
22	0.320	1.3287E+01	1.3568E+01	6.0271E+00
23	0.340	1.3536E+01	1.2165E+01	6.9982E+00
24	0.360	1.7503E+01	1.1425E+01	6.8362E+00
25	0.380	1.5846E+01	8.9753E+00	5.2029E+00
26	0.400	1.3861E+01	7.9591E+00	5.4346E+00
27	0.450	1.3238E+01	9.4490E+00	4.9941E+00
28	0.500	1.6204E+01	1.4560E+01	5.6194E+00
29	0.550	1.7964E+01	1.6900E+01	8.3306E+00
30	0.600	1.5451E+01	1.5371E+01	8.9081E+00
31	0.650	1.3857E+01	9.6549E+00	8.2004E+00
32	0.700	1.2113E+01	7.9310E+00	7.0707E+00
33	0.800	1.0250E+01	6.8232E+00	6.4397E+00
34	0.900	1.2455E+01	9.1005E+00	9.2772E+00
35	1.000	1.9977E+01	9.3907E+00	7.1294E+00
36	1.200	1.7968E+01	1.2848E+01	8.3737E+00
37	1.400	1.2222E+01	1.0197E+01	9.2305E+00
38	1.500	9.6242E+00	6.9383E+00	8.5993E+00
39	1.600	9.0317E+00	6.4622E+00	1.0745E+01
40	1.800	1.3314E+01	7.9192E+00	6.9383E+00
41	2.000	1.3862E+01	6.9432E+00	6.3821E+00
42	2.500	1.4199E+01	5.3725E+00	2.9784E+00
43	3.000	9.6150E+00	4.9755E+00	2.4445E+00
44	4.000	9.3171E+00	5.5034E+00	3.6036E+00
45	5.000	6.9249E+00	2.5146E+00	2.8247E+00
46	6.000	2.9029E+00	1.1316E+00	1.5913E+00
47	7.000	2.7316E+00	1.3814E+00	1.5563E+00
48	8.000	3.4534E+00	1.7983E+00	1.7876E+00
49	9.000	2.6938E+00	1.3068E+00	1.4277E+00
50	10.000	2.6340E+00	1.5679E+00	1.2973E+00

付表 1-2 (4) 浮島公園の加速度応答スペクトル S_A の値 (1974.5.9, $M=6.9$, $\Delta=10\text{ km}$)

No	T	Gr (0 m)			-27 m			-67 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.2328E+01	1.3170E+01	4.8540E+00	9.9852E+00	6.2122E+00	3.0569E+00	5.0039E+00	3.5155E+00	2.4483E+00
2	0.055	1.2373E+01	1.3365E+01	4.8777E+00	9.7438E+00	6.2527E+00	3.0487E+00	4.9768E+00	3.4430E+00	2.4800E+00
3	0.060	1.2541E+01	1.3082E+01	4.7235E+00	9.6089E+00	6.2689E+00	3.0144E+00	5.0189E+00	3.5785E+00	2.4401E+00
4	0.065	1.2467E+01	1.3080E+01	5.0833E+00	9.5644E+00	6.1557E+00	3.0768E+00	5.0228E+00	3.7907E+00	2.4454E+00
5	0.070	1.2545E+01	1.3181E+01	5.2530E+00	9.7919E+00	6.0486E+00	3.1124E+00	4.9894E+00	3.8574E+00	2.4963E+00
6	0.075	1.2798E+01	1.2893E+01	5.3484E+00	9.8421E+00	6.0611E+00	3.1595E+00	5.0081E+00	3.7554E+00	2.4862E+00
7	0.080	1.2876E+01	1.2904E+01	5.3577E+00	9.6669E+00	6.5732E+00	3.1155E+00	5.0388E+00	3.7737E+00	2.4384E+00
8	0.085	1.3141E+01	1.2915E+01	5.1724E+00	9.7633E+00	7.6224E+00	3.2148E+00	5.0020E+00	3.8333E+00	2.4895E+00
9	0.090	1.3314E+01	1.2860E+01	5.0204E+00	9.2252E+00	7.5566E+00	3.2155E+00	5.0694E+00	3.9090E+00	2.4931E+00
10	0.100	1.3196E+01	1.3209E+01	5.6478E+00	9.6283E+00	7.2730E+00	3.1614E+00	5.0670E+00	4.1074E+00	2.4626E+00
11	0.120	1.4682E+01	1.5151E+01	5.2164E+00	1.1407E+01	7.4056E+00	3.0638E+00	5.3572E+00	3.8665E+00	2.8332E+00
12	0.140	1.4419E+01	1.5391E+01	6.2651E+00	1.2449E+01	7.0411E+00	3.8938E+00	6.0935E+00	3.9061E+00	2.5158E+00
13	0.150	1.5753E+01	1.7257E+01	6.4603E+00	1.3157E+01	8.9820E+00	3.7882E+00	6.1781E+00	4.7116E+00	2.5929E+00
14	0.160	1.6756E+01	1.7772E+01	8.1025E+00	1.1496E+01	9.6274E+00	4.3785E+00	6.5277E+00	5.9316E+00	2.8209E+00
15	0.180	1.5894E+01	1.6608E+01	9.7314E+00	1.2040E+01	8.7894E+00	4.3361E+00	7.0150E+00	5.2357E+00	2.5485E+00
16	0.200	1.9364E+01	1.9292E+01	7.7948E+00	1.1682E+01	9.5156E+00	4.4096E+00	8.2031E+00	6.4198E+00	2.9976E+00
17	0.220	2.1621E+01	1.7992E+01	7.3229E+00	1.5435E+01	8.1264E+00	4.5600E+00	8.1968E+00	6.3124E+00	2.7785E+00
18	0.240	1.9733E+01	1.8679E+01	6.4082E+00	1.6865E+01	1.0290E+01	5.6131E+00	7.0382E+00	6.4138E+00	3.2437E+00
19	0.260	1.9807E+01	1.7220E+01	5.1858E+00	1.3479E+01	8.9387E+00	4.5419E+00	6.7171E+00	6.5594E+00	2.8432E+00
20	0.280	1.6206E+01	1.6329E+01	5.9314E+00	1.1177E+01	8.2677E+00	4.0437E+00	5.6887E+00	6.0332E+00	3.5942E+00
21	0.300	1.9273E+01	1.9658E+01	7.7634E+00	1.1966E+01	9.1808E+00	5.0511E+00	7.1768E+00	6.0144E+00	3.6670E+00
22	0.320	2.3524E+01	2.0968E+01	8.0654E+00	1.4748E+01	1.0067E+01	5.2767E+00	7.5873E+00	6.5069E+00	4.6005E+00
23	0.340	2.5882E+01	2.0555E+01	7.7878E+00	1.9087E+01	1.2341E+01	5.9621E+00	8.2527E+00	7.0783E+00	5.4452E+00
24	0.360	2.6064E+01	2.2579E+01	7.1514E+00	2.3108E+01	1.5367E+01	6.0411E+00	9.5661E+00	7.9406E+00	5.7510E+00
25	0.380	2.7146E+01	2.8230E+01	7.0555E+00	2.5500E+01	1.8655E+01	7.3975E+00	9.5840E+00	8.4820E+00	5.3166E+00
26	0.400	2.8315E+01	3.1657E+01	6.6550E+00	2.2609E+01	2.0478E+01	8.4856E+00	9.0987E+00	8.9564E+00	5.9863E+00
27	0.450	2.5332E+01	2.5332E+01	6.1765E+00	2.1005E+01	1.6707E+01	5.1707E+00	7.7533E+00	6.7522E+00	4.0648E+00
28	0.500	2.4455E+01	1.9855E+01	6.8338E+00	1.8627E+01	1.1396E+01	5.2631E+00	7.2763E+00	5.7661E+00	3.6472E+00
29	0.550	2.4250E+01	2.2136E+01	5.4557E+00	1.3732E+01	1.3660E+01	5.2489E+00	7.0675E+00	7.7394E+00	3.7166E+00
30	0.600	2.4181E+01	1.9010E+01	6.1588E+00	1.3398E+01	1.2285E+01	5.9634E+00	9.3317E+00	1.0203E+01	4.3476E+00
31	0.650	2.1830E+01	1.9393E+01	6.4706E+00	1.2510E+01	1.0134E+01	6.7384E+00	1.0482E+01	9.9097E+00	4.0649E+00
32	0.700	1.7170E+01	2.0790E+01	6.4489E+00	1.0402E+01	1.0088E+01	6.6109E+00	9.2025E+00	1.1006E+01	4.5161E+00
33	0.800	2.1595E+01	1.7321E+01	7.2327E+00	1.0965E+01	8.9565E+00	6.5200E+00	1.2174E+01	8.6001E+00	5.9657E+00
34	0.900	2.4767E+01	2.7710E+01	6.7801E+00	1.1359E+01	8.3556E+00	6.9195E+00	1.2815E+01	9.1958E+00	5.7409E+00
35	1.000	3.8005E+01	2.7480E+01	6.4486E+00	1.3057E+01	7.5973E+00	6.2735E+00	1.6326E+01	9.6809E+00	5.5297E+00
36	1.200	2.8933E+01	2.9107E+01	6.7785E+00	1.7589E+01	1.0269E+01	5.1688E+00	1.2379E+01	8.4199E+00	5.3596E+00
37	1.400	3.4392E+01	3.3722E+01	6.3379E+00	2.4278E+01	1.3665E+01	5.0075E+00	9.1419E+00	5.6263E+00	4.4037E+00
38	1.500	3.6592E+01	4.8018E+01	8.1663E+00	2.6403E+01	1.6101E+01	6.2285E+00	8.7613E+00	5.7642E+00	5.1047E+00
39	1.600	3.7820E+01	6.1993E+01	8.9562E+00	2.9490E+01	2.2306E+01	8.3667E+00	1.0089E+01	7.1898E+00	4.8423E+00
40	1.800	4.9377E+01	5.1914E+01	6.9161E+00	3.7824E+01	2.0166E+01	6.5985E+00	1.2914E+01	7.6381E+00	5.0639E+00
41	2.000	5.1801E+01	3.1266E+01	6.0397E+00	4.0863E+01	1.6484E+01	5.7482E+00	1.9551E+01	8.4260E+00	4.9974E+00
42	2.500	3.0052E+01	2.0139E+01	3.4955E+00	2.7441E+01	7.9152E+00	3.0572E+00	1.5320E+01	5.0831E+00	2.6027E+00
43	3.000	2.5184E+01	1.0506E+01	4.0388E+00	2.1848E+01	6.3293E+00	3.3242E+00	1.4559E+01	6.0947E+00	2.0559E+00
44	4.000	1.2332E+01	1.0508E+01	4.8247E+00	1.2351E+01	5.3172E+00	3.6973E+00	8.4148E+00	4.3265E+00	3.0498E+00
45	5.000	7.3679E+00	4.7353E+00	2.6992E+00	8.9598E+00	2.1268E+00	2.0727E+00	6.2478E+00	2.4786E+00	2.4541E+00
46	6.000	9.8468E+00	6.3729E+00	1.1480E+00	1.2225E+01	2.1453E+00	9.5803E-01	9.3285E+00	1.4279E+00	1.1496E+00
47	7.000	1.0331E+01	5.0576E+00	9.8783E-01	1.2329E+01	1.7516E+00	9.0598E-01	8.7720E+00	9.5255E-01	1.4802E+00
48	8.000	7.5615E+00	3.1021E+00	1.1825E+00	8.8358E+00	2.1146E+00	6.3815E-01	6.3334E+00	9.6579E-01	1.0029E+00
49	9.000	5.8927E+00	2.6456E+00	1.0582E+00	6.9122E+00	2.1100E+00	6.4896E-01	5.1717E+00	1.1544E+00	7.7960E-01
50	10.000	3.7896E+00	2.3622E+00	7.5773E-01	5.2124E+00	1.6660E+00	6.4937E-01	3.9656E+00	8.3090E-01	7.0981E-01

付表 1-2 (4)' 浮島公園の加速度応答スペクトル S_A の値
(1974. 5. 9, $M=6.9$, $\Delta=10 \text{ km}$)

No.	T	-127 m		
		N-S	E-W	U-D
1	0.050	5.9567E+00	3.1485E+00	2.0533E+00
2	0.055	5.8555E+00	3.1423E+00	2.1088E+00
3	0.060	5.9530E+00	3.2370E+00	2.1020E+00
4	0.065	5.0096E+00	3.2567E+00	2.1489E+00
5	0.070	6.0432E+00	3.2109E+00	2.1872E+00
6	0.075	6.0842E+00	3.1475E+00	2.1519E+00
7	0.080	6.0765E+00	3.0420E+00	2.1266E+00
8	0.085	6.0149E+00	3.1200E+00	2.1145E+00
9	0.090	5.9682E+00	3.2018E+00	2.2456E+00
10	0.100	6.0694E+00	3.2762E+00	2.2647E+00
11	0.120	6.6245E+00	3.1702E+00	2.3273E+00
12	0.140	6.7812E+00	3.3741E+00	2.5343E+00
13	0.150	6.8627E+00	3.3683E+00	2.7812E+00
14	0.160	6.8149E+00	3.4143E+00	2.7239E+00
15	0.180	7.1432E+00	3.8757E+00	3.1938E+00
16	0.200	7.2894E+00	4.5306E+00	3.3887E+00
17	0.220	7.4983E+00	4.8218E+00	3.1971E+00
18	0.240	6.6508E+00	5.5256E+00	2.3813E+00
19	0.260	7.4959E+00	5.2977E+00	2.4951E+00
20	0.280	7.2756E+00	4.9930E+00	2.7237E+00
21	0.300	8.7728E+00	4.1739E+00	3.0691E+00
22	0.320	9.0897E+00	5.3220E+00	3.2376E+00
23	0.340	8.9487E+00	5.8888E+00	3.2026E+00
24	0.360	9.8974E+00	6.8145E+00	3.4480E+00
25	0.380	1.0292E+01	8.9948E+00	3.3307E+00
26	0.400	9.4662E+00	8.0263E+00	3.9030E+00
27	0.450	9.3159E+00	9.1487E+00	3.5955E+00
28	0.500	9.6358E+00	9.4118E+00	3.4545E+00
29	0.550	1.0233E+01	1.0486E+01	3.3200E+00
30	0.600	1.0120E+01	8.9264E+00	4.5081E+00
31	0.650	7.5191E+00	7.5069E+00	4.8564E+00
32	0.700	7.5396E+00	5.2185E+00	6.3273E+00
33	0.800	8.3542E+00	4.5686E+00	5.3699E+00
34	0.900	1.0354E+01	6.4425E+00	5.7943E+00
35	1.000	1.6047E+01	7.2525E+00	6.1122E+00
36	1.200	1.5220E+01	6.7873E+00	4.9324E+00
37	1.400	1.2714E+01	5.2827E+00	4.5894E+00
38	1.500	1.1171E+01	6.3252E+00	5.9363E+00
39	1.600	9.9750E+00	6.3468E+00	7.3334E+00
40	1.800	9.0193E+00	6.2434E+00	5.0468E+00
41	2.000	1.3461E+01	6.3249E+00	4.3815E+00
42	2.500	1.2907E+01	4.9885E+00	2.5909E+00
43	3.000	1.5395E+01	6.3957E+00	2.5910E+00
44	4.000	9.3246E+00	3.6931E+00	3.4884E+00
45	5.000	7.7728E+00	2.4294E+00	2.1509E+00
46	6.000	1.1378E+01	1.7362E+00	1.1375E+00
47	7.000	1.1128E+01	1.9175E+00	1.1068E+00
48	8.000	7.8689E+00	2.1068E+00	6.4628E-01
49	9.000	6.0076E+00	2.1136E+00	7.2952E-01
50	10.000	4.6541E+00	1.2105E+00	5.0058E-01

付表 1-2 (5) 浮島公園の加速度応答スペクトル S_A の値 (1974.8.4, $M=5.8$, $\Delta=50 \text{ km}$)

No	T	Gr (0.m)			-70 m			-67 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.7921E+01	1.7481E+01	8.2920E+00	1.2809E+01	1.2614E+01	5.0850E+00	9.3233E+00	6.9115E+00	3.0290E+00
2	0.055	1.7335E+01	1.7662E+01	1.0562E+01	1.3998E+01	1.2930E+01	5.9106E+00	9.4975E+00	8.1023E+00	4.1006E+00
3	0.060	1.7006E+01	1.7597E+01	9.6350E+00	1.4351E+01	1.3312E+01	6.7653E+00	1.0180E+01	8.8129E+00	4.0259E+00
4	0.065	1.6813E+01	2.0489E+01	1.2956E+01	1.5060E+01	1.2988E+01	7.1496E+00	9.0205E+00	8.6868E+00	3.8812E+00
5	0.070	1.8699E+01	2.1473E+01	1.2618E+01	1.6873E+01	1.3227E+01	7.7495E+00	9.0250E+00	9.7754E+00	4.2767E+00
6	0.075	1.9516E+01	2.3311E+01	1.4154E+01	1.7121E+01	1.3526E+01	8.4678E+00	1.0412E+01	8.9988E+00	3.6266E+00
7	0.080	1.9348E+01	2.4170E+01	1.6943E+01	1.7815E+01	1.2152E+01	8.4643E+00	1.1231E+01	9.1273E+00	4.2691E+00
8	0.085	2.0703E+01	2.4231E+01	1.6466E+01	1.9756E+01	1.2616E+01	7.2928E+00	1.2826E+01	9.3838E+00	4.6960E+00
9	0.090	1.9373E+01	2.9033E+01	1.7002E+01	1.2806E+01	1.2926E+01	6.9928E+00	1.3592E+01	1.0974E+01	4.3119E+00
10	0.100	2.5393E+01	3.0678E+01	1.7225E+01	1.9153E+01	1.4948E+01	8.5352E+00	1.3751E+01	1.3798E+01	3.7983E+00
11	0.120	3.0591E+01	2.8673E+01	1.8656E+01	2.6981E+01	1.2441E+01	7.1980E+00	2.0570E+01	1.4888E+01	5.4224E+00
12	0.140	3.2480E+01	2.7316E+01	1.3895E+01	2.9408E+01	1.4309E+01	8.3078E+00	1.8764E+01	1.1031E+01	5.3466E+00
13	0.150	3.6705E+01	3.5336E+01	1.5467E+01	2.9435E+01	1.3839E+01	8.9115E+00	1.9248E+01	1.1496E+01	5.0115E+00
14	0.160	4.0887E+01	4.2431E+01	1.7263E+01	3.3371E+01	1.8342E+01	9.9386E+00	2.0648E+01	1.3281E+01	3.8053E+00
15	0.180	3.7526E+01	3.4251E+01	2.3269E+01	2.5529E+01	1.7471E+01	9.8334E+00	1.5688E+01	1.3198E+01	3.8691E+00
16	0.200	3.9743E+01	4.3227E+01	1.8313E+01	3.2630E+01	1.6259E+01	1.0831E+01	2.1095E+01	1.6022E+01	3.7200E+00
17	0.220	4.0271E+01	4.0130E+01	1.6900E+01	4.1434E+01	1.8513E+01	1.1399E+01	1.9037E+01	1.2365E+01	4.0519E+00
18	0.240	3.9105E+01	4.6584E+01	1.9222E+01	4.0238E+01	2.3410E+01	1.0889E+01	1.9020E+01	1.5654E+01	4.1612E+00
19	0.260	4.2058E+01	3.9258E+01	1.6942E+01	3.4065E+01	2.8254E+01	9.9037E+00	1.8011E+01	2.2864E+01	3.8358E+00
20	0.280	3.9963E+01	4.6270E+01	1.6742E+01	2.2435E+01	2.2525E+01	8.6639E+00	1.3804E+01	2.3698E+01	4.6120E+00
21	0.300	3.8712E+01	4.5773E+01	1.7499E+01	2.4675E+01	1.7771E+01	8.1464E+00	1.2549E+01	1.9350E+01	5.7506E+00
22	0.320	3.3947E+01	5.3094E+01	1.9485E+01	3.2948E+01	2.0609E+01	7.6381E+00	1.4252E+01	1.4821E+01	5.8408E+00
23	0.340	4.0180E+01	5.7029E+01	1.9032E+01	3.0468E+01	2.3637E+01	8.1198E+00	1.3555E+01	1.5023E+01	6.6178E+00
24	0.360	3.8884E+01	6.2014E+01	1.6252E+01	3.8482E+01	2.8916E+01	8.7631E+00	1.6709E+01	1.5120E+01	7.1012E+00
25	0.380	4.1589E+01	4.9324E+01	1.3724E+01	4.6880E+01	2.7769E+01	7.3303E+00	1.6197E+01	1.4631E+01	7.7723E+00
26	0.400	4.0999E+01	3.5656E+01	1.2221E+01	4.8577E+01	2.4016E+01	7.3907E+00	1.5122E+01	1.5437E+01	7.1087E+00
27	0.450	3.1211E+01	3.7450E+01	9.9807E+00	3.6724E+01	1.5623E+01	7.3621E+00	1.0133E+01	9.8152E+00	4.3826E+00
28	0.500	2.2482E+01	3.7144E+01	8.0019E+00	2.6234E+01	1.5589E+01	5.9754E+00	8.7026E+00	8.6707E+00	4.1787E+00
29	0.550	2.2292E+01	3.1472E+01	5.6172E+00	1.5407E+01	1.6616E+01	6.7616E+00	1.0330E+01	1.2547E+01	4.0017E+00
30	0.600	2.5013E+01	2.7544E+01	6.0185E+00	1.4452E+01	1.6816E+01	6.9878E+00	1.2656E+01	1.7184E+01	4.5862E+00
31	0.650	2.1820E+01	2.9626E+01	6.6504E+00	1.5505E+01	1.4111E+01	8.0904E+00	1.4313E+01	1.5729E+01	5.3829E+00
32	0.700	1.6951E+01	2.7746E+01	5.9448E+00	1.2343E+01	1.0781E+01	5.9422E+00	1.3539E+01	1.4825E+01	5.7908E+00
33	0.800	1.2664E+01	1.4356E+01	5.7294E+00	6.8622E+00	6.7737E+00	6.6263E+00	8.0025E+00	1.0980E+01	4.6768E+00
34	0.900	1.4104E+01	1.1746E+01	4.3569E+00	5.9894E+00	4.2790E+00	4.9360E+00	8.8924E+00	7.7073E+00	3.9622E+00
35	1.000	1.2863E+01	1.2475E+01	5.4198E+00	6.2567E+00	2.9762E+00	5.8798E+00	8.6719E+00	6.3697E+00	5.2367E+00
36	1.200	9.1119E+00	1.1760E+01	3.1116E+00	5.2436E+00	3.2023E+00	3.2459E+00	4.4748E+00	4.8359E+00	4.3257E+00
37	1.400	8.5073E+00	1.1458E+01	3.3134E+00	4.0739E+00	3.1714E+00	3.1233E+00	2.5452E+00	2.5452E+00	2.8458E+00
38	1.500	8.6635E+00	9.7606E+00	2.6139E+00	4.4023E+00	2.9000E+00	2.5747E+00	2.2271E+00	2.4852E+00	2.6133E+00
39	1.600	7.3993E+00	1.0171E+01	2.3007E+00	3.7280E+00	3.0035E+00	2.1142E+00	2.1781E+00	2.4089E+00	2.5773E+00
40	1.800	6.3105E+00	9.8855E+00	1.9911E+00	3.3315E+00	3.1372E+00	1.6219E+00	2.0237E+00	3.3336E+00	2.6275E+00
41	2.000	5.1259E+00	9.1734E+00	1.2701E+00	3.7689E+00	2.9667E+00	1.5124E+00	2.1304E+00	3.6492E+00	2.4915E+00
42	2.500	3.6738E+00	6.8706E+00	1.0462E+00	3.0074E+00	2.8214E+00	1.5342E+00	2.0258E+00	3.1408E+00	2.1538E+00
43	3.000	2.7602E+00	3.8290E+00	7.2126E-01	2.8819E+00	2.3455E+00	1.0626E+00	1.6437E+00	1.9991E+00	2.1984E+00
44	4.000	9.7407E-01	1.7995E+00	5.0669E-01	1.4840E+00	1.6180E+00	9.1724E-01	1.1572E+00	1.6213E+00	1.6870E+00
45	5.000	8.6211E-01	1.1215E+00	4.7896E-01	1.3013E+00	1.3456E+00	7.5753E-01	1.0391E+00	1.3381E+00	1.2844E+00
46	6.000	7.4870E-01	8.4552E-01	4.7907E-01	1.1900E+00	1.1955E+00	8.2354E-01	1.0294E+00	1.1279E+00	1.2796E+00
47	7.000	8.6208E-01	7.4861E-01	4.9192E-01	1.0342E+00	1.1077E+00	9.2256E-01	9.6166E-01	1.0902E+00	1.2952E+00
48	8.000	7.2428E-01	6.9015E-01	4.9800E-01	9.8584E-01	1.0486E+00	1.0090E+00	1.0233E+00	1.2173E+00	1.2030E+00
49	9.000	7.9265E-01	7.9928E-01	5.6069E-01	9.2577E-01	1.0070E+00	1.0389E+00	1.0618E+00	1.2944E+00	1.0635E+00
50	10.000	8.4417E-01	8.0514E-01	6.0971E-01	1.0715E+00	9.8976E-01	1.0424E+00	1.0393E+00	1.3251E+00	1.1540E+00

付表 1-2 (5) 浮島公園の加速度応答スペクトル S_A の値
(1974. 8. 4, $M=5.8$, $\Delta=50$ km)

No	T	-127 m)		
		N-S	E-W	U-D
1	0.050	6.1305E+00	7.1765E+00	2.9568E+00
2	0.055	6.4154E+00	6.0788E+00	4.0094E+00
3	0.060	6.7673E+00	6.1654E+00	4.8417E+00
4	0.065	7.8989E+00	6.4799E+00	4.6070E+00
5	0.070	8.0124E+00	6.5421E+00	4.1354E+00
6	0.075	8.5280E+00	6.9123E+00	4.5215E+00
7	0.080	9.2967E+00	7.1710E+00	5.0021E+00
8	0.085	8.1221E+00	6.3525E+00	4.8761E+00
9	0.090	8.5053E+00	7.0945E+00	4.9617E+00
10	0.100	1.0399E+01	8.7192E+00	6.3687E+00
11	0.120	1.2593E+01	9.1092E+00	4.6640E+00
12	0.140	1.3524E+01	9.7718E+00	4.7521E+00
13	0.150	1.0651E+01	9.0027E+00	4.4150E+00
14	0.160	1.3007E+01	1.0812E+01	4.9906E+00
15	0.180	1.3949E+01	1.3192E+01	6.1284E+00
16	0.200	1.4165E+01	1.1674E+01	6.8344E+00
17	0.220	1.8524E+01	1.0844E+01	6.0758E+00
18	0.240	1.7458E+01	1.0711E+01	7.1985E+00
19	0.260	1.5095E+01	1.4380E+01	6.3356E+00
20	0.280	1.6155E+01	1.5402E+01	4.9452E+00
21	0.300	1.7438E+01	1.3171E+01	4.7845E+00
22	0.320	1.6664E+01	1.1853E+01	4.7254E+00
23	0.340	1.3643E+01	1.3114E+01	4.3366E+00
24	0.360	1.2743E+01	1.5109E+01	4.3050E+00
25	0.380	1.3042E+01	1.3820E+01	4.4850E+00
26	0.400	1.5136E+01	1.1565E+01	4.7565E+00
27	0.450	1.4453E+01	1.0517E+01	4.8223E+00
28	0.500	1.2588E+01	1.0688E+01	4.0947E+00
29	0.550	1.0852E+01	1.3487E+01	3.3656E+00
30	0.600	1.2745E+01	1.5500E+01	4.5630E+00
31	0.650	1.0526E+01	1.4533E+01	4.1966E+00
32	0.700	8.0577E+00	9.5817E+00	4.0209E+00
33	0.800	4.7996E+00	4.1146E+00	4.0768E+00
34	0.900	5.2930E+00	3.4723E+00	3.6366E+00
35	1.000	7.3468E+00	3.3472E+00	4.3884E+00
36	1.200	5.1649E+00	2.5991E+00	2.4611E+00
37	1.400	2.5891E+00	2.5074E+00	2.0275E+00
38	1.500	2.1531E+00	1.7444E+00	1.9404E+00
39	1.600	1.8946E+00	1.4653E+00	1.6402E+00
40	1.800	1.6221E+00	1.2738E+00	1.3378E+00
41	2.000	1.6838E+00	1.5605E+00	8.1944E-01
42	2.500	1.8515E+00	1.5661E+00	7.8080E-01
43	3.000	1.9785E+00	1.3833E+00	8.0649E-01
44	4.000	1.2378E+00	8.6214E-01	6.6807E-01
45	5.000	1.0976E+00	6.7303E-01	6.6150E-01
46	6.000	9.2767E-01	7.6731E-01	9.3968E-01
47	7.000	8.1650E-01	8.3365E-01	8.5485E-01
48	8.000	7.6970E-01	8.5276E-01	1.1316E+00
49	9.000	9.2744E-01	8.6772E-01	1.1631E+00
50	10.000	1.0308E+00	8.6946E-01	1.0507E+00

付表 1-3 (1) 観音崎の加速度応答スペクトル S_A の値 (1971. 7. 23, $M=5.3$, $\Delta=10$ km)

No	T	Gr (0 m)			-80 m			-120 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.7282E+01	1.9541E+01	7.6378E+00	6.8246E+00	6.5538E+00	4.4722E+00	5.9208E+00	1.1227E+01	4.0313E+00
2	0.055	1.6455E+01	1.9117E+01	7.5980E+00	6.7071E+00	6.2132E+00	4.5999E+00	5.4548E+00	1.1134E+01	4.3020E+00
3	0.060	1.9421E+01	1.8165E+01	7.0391E+00	6.5735E+00	6.6154E+00	4.5190E+00	6.0430E+00	1.1152E+01	4.1061E+00
4	0.065	1.8950E+01	2.2454E+01	8.0964E+00	6.9033E+00	7.2080E+00	4.7758E+00	6.4851E+00	1.1427E+01	4.2491E+00
5	0.070	2.0684E+01	2.5439E+01	9.9436E+00	7.4923E+00	7.7843E+00	5.0343E+00	6.4186E+00	1.1832E+01	4.3034E+00
6	0.075	2.4197E+01	2.4438E+01	9.5124E+00	8.5176E+00	7.2371E+00	5.0654E+00	6.5445E+00	1.2216E+01	4.4602E+00
7	0.080	2.7609E+01	2.3466E+01	1.1442E+01	9.7271E+00	7.6966E+00	5.2182E+00	7.4407E+00	1.2861E+01	4.4717E+00
8	0.085	2.9657E+01	2.1844E+01	1.3181E+01	1.0832E+01	7.4831E+00	5.5439E+00	7.9339E+00	1.3086E+01	4.3139E+00
9	0.090	3.2625E+01	2.3468E+01	1.3935E+01	1.1699E+01	7.7299E+00	5.6022E+00	9.2925E+00	1.2687E+01	4.6066E+00
10	0.100	3.4351E+01	2.6037E+01	1.5784E+01	1.1061E+01	1.0584E+01	5.8686E+00	1.0707E+01	1.3123E+01	5.2496E+00
11	0.120	2.6001E+01	3.7155E+01	1.6974E+01	1.1911E+01	1.0737E+01	5.6833E+00	1.3944E+01	1.3700E+01	6.1453E+00
12	0.140	1.8829E+01	4.1955E+01	1.2744E+01	1.0762E+01	1.1481E+01	7.0237E+00	8.5066E+00	1.5432E+01	5.3900E+00
13	0.150	1.9277E+01	4.1787E+01	1.2648E+01	1.1801E+01	1.2559E+01	7.5945E+00	1.0156E+01	1.6978E+01	6.2643E+00
14	0.160	2.3223E+01	4.3103E+01	1.3908E+01	1.0575E+01	1.1906E+01	7.2389E+00	9.2690E+00	1.9695E+01	7.0637E+00
15	0.180	2.7507E+01	4.7225E+01	1.4346E+01	1.4726E+01	1.4924E+01	9.9821E+00	1.3437E+01	2.3196E+01	6.3704E+00
16	0.200	3.1762E+01	5.1344E+01	1.9393E+01	2.0410E+01	1.9760E+01	1.3359E+01	1.6183E+01	2.2873E+01	7.3274E+00
17	0.220	3.8174E+01	5.1860E+01	1.6579E+01	2.0228E+01	2.1160E+01	1.6058E+01	1.5949E+01	2.3660E+01	9.2220E+00
18	0.240	3.7028E+01	5.8782E+01	1.1956E+01	1.9398E+01	2.0275E+01	1.6685E+01	1.5356E+01	2.2621E+01	9.6613E+00
19	0.260	2.9269E+01	6.4290E+01	1.2938E+01	1.8821E+01	2.0805E+01	1.3151E+01	1.5958E+01	2.3727E+01	1.2188E+01
20	0.280	2.5076E+01	5.9548E+01	1.1040E+01	1.9571E+01	2.6628E+01	1.4408E+01	1.5856E+01	2.3528E+01	1.5494E+01
21	0.300	2.1015E+01	4.6274E+01	1.2105E+01	2.4808E+01	2.4954E+01	1.6573E+01	1.5589E+01	2.0856E+01	1.3339E+01
22	0.320	1.6625E+01	3.8430E+01	1.2104E+01	2.3698E+01	2.3323E+01	1.9013E+01	1.2428E+01	1.9069E+01	1.3069E+01
23	0.340	1.4513E+01	3.3754E+01	9.6660E+00	1.9407E+01	2.3276E+01	1.4479E+01	1.0968E+01	2.2220E+01	1.2419E+01
24	0.360	1.3100E+01	2.9277E+01	6.6624E+00	1.5868E+01	2.1147E+01	1.3833E+01	1.1677E+01	2.1487E+01	1.3247E+01
25	0.380	1.2057E+01	2.6499E+01	5.1200E+00	1.5017E+01	1.7911E+01	1.4708E+01	9.5813E+00	1.9521E+01	1.2647E+01
26	0.400	1.0571E+01	2.4373E+01	5.1688E+00	1.1986E+01	1.4657E+01	1.3456E+01	8.3898E+00	1.7589E+01	1.3028E+01
27	0.450	9.8444E+00	1.7748E+01	4.4642E+00	7.7377E+00	7.2335E+00	9.3047E+00	9.0017E+00	1.1651E+01	9.4590E+00
28	0.500	9.0434E+00	1.3367E+01	5.0509E+00	7.1908E+00	6.7036E+00	6.5021E+00	7.4260E+00	7.4347E+00	6.1288E+00
29	0.550	6.4259E+00	1.2384E+01	4.0910E+00	6.1277E+00	5.7427E+00	5.2464E+00	5.1267E+00	5.2294E+00	5.2294E+00
30	0.600	5.7525E+00	1.2684E+01	3.5193E+00	4.0693E+00	3.9989E+00	3.3542E+00	3.2758E+00	4.4181E+00	3.1933E+00
31	0.650	5.3461E+00	1.3072E+01	2.7557E+00	5.1001E+00	3.9487E+00	2.7252E+00	3.1130E+00	3.8198E+00	2.7968E+00
32	0.700	6.5374E+00	1.3424E+01	2.6418E+00	6.2606E+00	4.7408E+00	3.4891E+00	3.7184E+00	3.3386E+00	3.2857E+00
33	0.800	6.2941E+00	1.2074E+01	3.5800E+00	7.7799E+00	4.8475E+00	4.7191E+00	5.2013E+00	4.1934E+00	4.0556E+00
34	0.900	5.5354E+00	1.0119E+01	2.1029E+00	7.0523E+00	4.4031E+00	4.1134E+00	4.4158E+00	5.5220E+00	3.7030E+00
35	1.000	4.6212E+00	8.6419E+00	1.5395E+00	5.2103E+00	4.2016E+00	3.8037E+00	3.5599E+00	4.5640E+00	3.1988E+00
36	1.200	4.4272E+00	5.2429E+00	1.7443E+00	3.7514E+00	3.0736E+00	2.6825E+00	2.6991E+00	3.4362E+00	2.3346E+00
37	1.400	3.9304E+00	4.5539E+00	1.3784E+00	3.5016E+00	2.6576E+00	2.0534E+00	2.8692E+00	2.8965E+00	2.0071E+00
38	1.500	3.4692E+00	4.2298E+00	1.7667E+00	3.3276E+00	2.3610E+00	1.6575E+00	2.9514E+00	2.5754E+00	1.4263E+00
39	1.600	3.0728E+00	3.6804E+00	1.8664E+00	3.0818E+00	1.7778E+00	1.3952E+00	2.6583E+00	2.0924E+00	1.2223E+00
40	1.800	2.4751E+00	2.8577E+00	1.8978E+00	2.4412E+00	1.5559E+00	2.1335E+00	1.9047E+00	2.2170E+00	1.4442E+00
41	2.000	2.2567E+00	1.7068E+00	1.6962E+00	2.1840E+00	1.3796E+00	1.5548E+00	1.5506E+00	1.9947E+00	1.2681E+00
42	2.500	1.3486E+00	6.6085E-01	9.7649E-01	1.7579E+00	8.9977E-01	7.0875E-01	1.1500E+00	1.3256E+00	5.8299E-01
43	3.000	1.0633E+00	5.6151E-01	9.8681E-01	1.6820E+00	9.1287E-01	9.1180E-01	7.5275E-01	1.2543E+00	6.6522E-01
44	4.000	8.8914E-01	7.0668E-01	1.0528E+00	1.6690E+00	8.4559E-01	8.0924E-01	3.4340E-01	1.2164E+00	7.1073E-01
45	5.000	7.5011E-01	5.7028E-01	6.1035E-01	1.6250E+00	7.1109E-01	6.8822E-01	4.0604E-01	1.1692E+00	4.5577E-01
46	6.000	7.5000E-01	6.5372E-01	6.5699E-01	1.5699E+00	6.8524E-01	6.4796E-01	3.9330E-01	1.1477E+00	5.0980E-01
47	7.000	1.0785E+00	6.9982E-01	6.1687E-01	1.5141E+00	6.5772E-01	5.9810E-01	3.1948E-01	1.1191E+00	5.7368E-01
48	8.000	1.0991E+00	6.7187E-01	7.0804E-01	1.4414E+00	7.7814E-01	6.8413E-01	3.3791E-01	1.2334E+00	4.5262E-01
49	9.000	9.0025E-01	7.0846E-01	6.2706E-01	1.3916E+00	6.4276E-01	5.9377E-01	3.5779E-01	1.0603E+00	5.5301E-01
50	10.000	7.1132E-01	6.8030E-01	4.9885E-01	1.4756E+00	6.3140E-01	5.6615E-01	3.0230E-01	1.0260E+00	7.1904E-01

付表 1-3 (2) 観音崎の加速度応答スペクトル S_A の値 (1972.2.29, $M=7.1$, $\Delta=70 \text{ km}$)

No	T	Gr (0 m)			-80 m			-120 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.1176E+01	1.1285E+01	7.0712E+00	1.5443E+01	1.7018E+01	1.1098E+01	1.3957E+01	1.4764E+01	1.2554E+01
2	0.055	1.1934E+01	1.1428E+01	8.2743E+00	1.4558E+01	1.7010E+01	1.2740E+01	1.3072E+01	1.4995E+01	1.3983E+01
3	0.060	1.2452E+01	1.2873E+01	8.8487E+00	1.4794E+01	1.7074E+01	1.4347E+01	1.2696E+01	1.5113E+01	1.3961E+01
4	0.065	1.3393E+01	1.6928E+01	9.4858E+00	1.6049E+01	1.8228E+01	1.5091E+01	1.3552E+01	1.6713E+01	1.3656E+01
5	0.070	1.4328E+01	2.0383E+01	1.0906E+01	1.5355E+01	1.9325E+01	1.5947E+01	1.3883E+01	1.6962E+01	1.2726E+01
6	0.075	1.5316E+01	2.3650E+01	1.0642E+01	1.6719E+01	1.9535E+01	1.6210E+01	1.5105E+01	1.7511E+01	1.2248E+01
7	0.080	1.9544E+01	2.4979E+01	9.3793E+00	1.7032E+01	1.9697E+01	1.6822E+01	1.5735E+01	2.0139E+01	1.2794E+01
8	0.085	2.0398E+01	2.4580E+01	9.0338E+00	1.7216E+01	2.0937E+01	1.7892E+01	1.3973E+01	1.8236E+01	1.3903E+01
9	0.090	1.7742E+01	2.2159E+01	8.8288E+00	1.8904E+01	2.2105E+01	1.7500E+01	1.3638E+01	1.8502E+01	1.4186E+01
10	0.100	1.6849E+01	2.2905E+01	8.7260E+00	1.8838E+01	2.1023E+01	1.6042E+01	1.6001E+01	2.1721E+01	1.7125E+01
11	0.120	1.9312E+01	2.2721E+01	1.3325E+01	2.4765E+01	1.9414E+01	2.1838E+01	1.9151E+01	3.2113E+01	1.4832E+01
12	0.140	1.7706E+01	2.3066E+01	1.2810E+01	2.2739E+01	2.2956E+01	2.1665E+01	1.9324E+01	2.2968E+01	1.7961E+01
13	0.150	1.9408E+01	1.7850E+01	1.3199E+01	2.2536E+01	2.4288E+01	2.1106E+01	2.0194E+01	2.3731E+01	2.4739E+01
14	0.160	1.5331E+01	1.9952E+01	1.5588E+01	2.5028E+01	2.3858E+01	1.8816E+01	2.1025E+01	2.9681E+01	2.3221E+01
15	0.180	1.4727E+01	2.1796E+01	1.5138E+01	2.6344E+01	2.9641E+01	2.1247E+01	2.8292E+01	2.9612E+01	2.0160E+01
16	0.200	1.9480E+01	1.9286E+01	1.6724E+01	2.9438E+01	2.7753E+01	2.3583E+01	2.9454E+01	3.5102E+01	1.6624E+01
17	0.220	2.4549E+01	2.4095E+01	1.5348E+01	3.3314E+01	2.8970E+01	2.4570E+01	2.8749E+01	3.8941E+01	1.4110E+01
18	0.240	2.0803E+01	2.0001E+01	1.6176E+01	3.7800E+01	2.4888E+01	2.3735E+01	2.5467E+01	3.4024E+01	1.7303E+01
19	0.260	1.7951E+01	2.3607E+01	1.4349E+01	3.4193E+01	2.9682E+01	2.6022E+01	2.4702E+01	3.5461E+01	2.0701E+01
20	0.280	2.2106E+01	2.2697E+01	1.2185E+01	4.0070E+01	3.5215E+01	2.7304E+01	2.5252E+01	2.8081E+01	2.5821E+01
21	0.300	2.4575E+01	2.3005E+01	1.2781E+01	3.8392E+01	3.8264E+01	2.9751E+01	3.1130E+01	3.6157E+01	2.6147E+01
22	0.320	2.6109E+01	1.9777E+01	1.2892E+01	4.0722E+01	4.3287E+01	3.1474E+01	3.2504E+01	4.2984E+01	2.5411E+01
23	0.340	2.6894E+01	1.8527E+01	1.2750E+01	3.1264E+01	3.9003E+01	3.1330E+01	2.7110E+01	4.2291E+01	2.5165E+01
24	0.360	2.8956E+01	1.7991E+01	1.4104E+01	2.5384E+01	3.5190E+01	3.0946E+01	2.4922E+01	3.5810E+01	2.5956E+01
25	0.380	3.0292E+01	1.8865E+01	1.2026E+01	2.3447E+01	2.6953E+01	3.0447E+01	2.3233E+01	4.0448E+01	2.4276E+01
26	0.400	2.8753E+01	1.7279E+01	1.2462E+01	2.3483E+01	2.9093E+01	2.8635E+01	2.3060E+01	4.4112E+01	2.6190E+01
27	0.450	1.9532E+01	1.5597E+01	1.1255E+01	2.4988E+01	2.8358E+01	3.3150E+01	2.5117E+01	3.6390E+01	2.2832E+01
28	0.500	2.3632E+01	1.8063E+01	1.3631E+01	2.1295E+01	2.1754E+01	3.4456E+01	2.7471E+01	3.1301E+01	2.7220E+01
29	0.550	3.1405E+01	2.3078E+01	1.9460E+01	1.9770E+01	1.8738E+01	3.9900E+01	2.8002E+01	5.1556E+01	3.2756E+01
30	0.600	3.3745E+01	2.8516E+01	1.9483E+01	2.0341E+01	1.6343E+01	3.7142E+01	2.4525E+01	5.6009E+01	2.9377E+01
31	0.650	3.0060E+01	2.7408E+01	1.3827E+01	2.0531E+01	1.9160E+01	3.0974E+01	2.0454E+01	4.6379E+01	2.5752E+01
32	0.700	2.1278E+01	2.4269E+01	1.2032E+01	2.8806E+01	2.3394E+01	3.1408E+01	1.8551E+01	3.0421E+01	2.4567E+01
33	0.800	2.2076E+01	1.5124E+01	9.1613E+00	2.3732E+01	2.7380E+01	2.6095E+01	1.5290E+01	2.7014E+01	2.3825E+01
34	0.900	2.0642E+01	1.2627E+01	8.3629E+00	2.5054E+01	2.5914E+01	2.0185E+01	1.7132E+01	1.7356E+01	1.7721E+01
35	1.000	1.2766E+01	1.0564E+01	6.5896E+00	2.3299E+01	2.5022E+01	1.6961E+01	1.7352E+01	1.6667E+01	1.5644E+01
36	1.200	1.0667E+01	5.1752E+00	3.1795E+00	2.4089E+01	2.0216E+01	1.1423E+01	2.0438E+01	1.2744E+01	1.0649E+01
37	1.400	9.9691E+00	6.7324E+00	4.0170E+00	3.2200E+01	2.9730E+01	9.4842E+00	2.8367E+01	1.6545E+01	1.0093E+01
38	1.500	1.2836E+01	6.1138E+00	3.9406E+00	3.4475E+01	3.3356E+01	1.1381E+01	3.0423E+01	1.3773E+01	9.2424E+00
39	1.600	1.1938E+01	6.8564E+00	3.7655E+00	3.2864E+01	3.0051E+01	1.0873E+01	2.8970E+01	1.4034E+01	8.2555E+00
40	1.800	8.1228E+00	5.1145E+00	2.8352E+00	1.8252E+01	1.8188E+01	7.3464E+00	1.7712E+01	1.2423E+01	5.9957E+00
41	2.000	4.8653E+00	4.6289E+00	1.7289E+00	1.2304E+01	1.3835E+01	5.8513E+00	1.2489E+01	1.0903E+01	5.9783E+00
42	2.500	2.9793E+00	3.1666E+00	1.1683E+00	1.1761E+01	8.9485E+00	4.0464E+00	1.1340E+01	8.9118E+00	3.8603E+00
43	3.000	2.0379E+00	3.6707E+00	1.4601E+00	1.0927E+01	7.3444E+00	5.3820E+00	1.1005E+01	8.8704E+00	4.8372E+00
44	4.000	1.5920E+00	1.6776E+00	9.4149E-01	5.5806E+00	3.9772E+00	3.5436E+00	5.9280E+00	4.4172E+00	3.3161E+00
45	5.000	8.7330E-01	1.5851E+00	6.9109E-01	4.0154E+00	3.6856E+00	2.0557E+00	5.1313E+00	4.1649E+00	2.0151E+00
46	6.000	7.2111E-01	1.0110E+00	7.8063E-01	2.5051E+00	2.3688E+00	1.8445E+00	4.8065E+00	3.1890E+00	2.5730E+00
47	7.000	4.3053E-01	7.2886E-01	9.5462E-01	1.4280E+00	1.6458E+00	1.5417E+00	2.7815E+00	2.1941E+00	2.4419E+00
48	8.000	4.9867E-01	8.9325E-01	7.8226E-01	1.5346E+00	1.5755E+00	1.4122E+00	2.4373E+00	3.4217E+00	2.3575E+00
49	9.000	6.5580E-01	6.2406E-01	5.5160E-01	1.6195E+00	1.6921E+00	1.4945E+00	1.9826E+00	2.9858E+00	2.0204E+00
50	10.000	5.2107E-01	6.2297E-01	6.6853E-01	1.4535E+00	1.3755E+00	1.3395E+00	2.4547E+00	1.9839E+00	2.2629E+00

付表 1-3 (3) 観音崎の加速度応答スペクトル S_A の値 (1972. 12. 4, $M=7.2$, $\Delta=50$ km)

No.	T	Gr (0 m)		-80 m		-120 m	
		N-S	E-W	N-S	E-W	N-S	E-W
1	0.050	7.1071E+00	8.7273E+00	1.2254E+01	1.3650E+01	1.0687E+01	1.1160E+01
2	0.055	7.6875E+00	9.0819E+00	1.1314E+01	1.2692E+01	1.0719E+01	1.1630E+01
3	0.060	8.1932E+00	1.0451E+01	1.2099E+01	1.1309E+01	1.1147E+01	1.2394E+01
4	0.065	7.9248E+00	1.0134E+01	1.2032E+01	1.0912E+01	1.1107E+01	1.2611E+01
5	0.070	8.4948E+00	1.3799E+01	1.2982E+01	1.0947E+01	1.1476E+01	1.2641E+01
6	0.075	8.8687E+00	1.4031E+01	1.2797E+01	1.2126E+01	1.1720E+01	1.4128E+01
7	0.080	9.6743E+00	1.5206E+01	1.3430E+01	1.2985E+01	1.1415E+01	1.5667E+01
8	0.085	9.7951E+00	1.6345E+01	1.6441E+01	1.5389E+01	1.1271E+01	1.4179E+01
9	0.090	9.3800E+00	1.3666E+01	1.6829E+01	1.5151E+01	1.2386E+01	1.4634E+01
10	0.100	1.0818E+01	1.5805E+01	1.4942E+01	1.2395E+01	1.3055E+01	1.4783E+01
11	0.120	1.4826E+01	1.5895E+01	1.5816E+01	1.5542E+01	1.6224E+01	2.2043E+01
12	0.140	1.4605E+01	1.4384E+01	2.2294E+01	1.3966E+01	2.2796E+01	1.8401E+01
13	0.150	1.3638E+01	1.5160E+01	2.1210E+01	1.3648E+01	2.0796E+01	2.0663E+01
14	0.160	1.3519E+01	1.6117E+01	1.6397E+01	1.3510E+01	1.7865E+01	1.8328E+01
15	0.180	1.2238E+01	1.6926E+01	2.5595E+01	1.9030E+01	2.1051E+01	2.2582E+01
16	0.200	1.3253E+01	1.6990E+01	2.4606E+01	1.9139E+01	2.8457E+01	2.1413E+01
17	0.220	1.7119E+01	1.7641E+01	2.2004E+01	1.7473E+01	2.4095E+01	2.1529E+01
18	0.240	1.7442E+01	2.1999E+01	2.5696E+01	1.6280E+01	2.3400E+01	2.0254E+01
19	0.260	1.4459E+01	2.6381E+01	2.8981E+01	1.6431E+01	1.9792E+01	1.8815E+01
20	0.280	1.5814E+01	2.0773E+01	2.6837E+01	2.0210E+01	1.9057E+01	2.4693E+01
21	0.300	1.6963E+01	1.7408E+01	3.0453E+01	2.8535E+01	1.8649E+01	2.4269E+01
22	0.320	1.8287E+01	1.3053E+01	2.6930E+01	3.0002E+01	1.9369E+01	2.0083E+01
23	0.340	1.6484E+01	1.2513E+01	3.0195E+01	3.1558E+01	2.5239E+01	2.3236E+01
24	0.360	1.6359E+01	1.2275E+01	3.1733E+01	2.9565E+01	2.5329E+01	2.7275E+01
25	0.380	1.6668E+01	1.1935E+01	2.4391E+01	2.6665E+01	2.1272E+01	3.2715E+01
26	0.400	1.6379E+01	1.4096E+01	2.4185E+01	2.3730E+01	2.3559E+01	3.5827E+01
27	0.450	1.2637E+01	1.6226E+01	2.2621E+01	2.4281E+01	2.7781E+01	3.6383E+01
28	0.500	1.2938E+01	1.7266E+01	2.5929E+01	2.3491E+01	2.9594E+01	2.4623E+01
29	0.550	1.4465E+01	1.5073E+01	1.6792E+01	1.7124E+01	2.1862E+01	2.2682E+01
30	0.600	1.3623E+01	1.6171E+01	1.2528E+01	1.3372E+01	2.1354E+01	1.4164E+01
31	0.650	1.0059E+01	1.4064E+01	1.4461E+01	1.2527E+01	1.7891E+01	1.4295E+01
32	0.700	9.9445E+00	1.3164E+01	1.5914E+01	1.4425E+01	1.4175E+01	1.8198E+01
33	0.800	1.8441E+01	1.1515E+01	1.7533E+01	2.0630E+01	1.1788E+01	1.7205E+01
34	0.900	1.2537E+01	9.9721E+00	1.7176E+01	1.5630E+01	1.1031E+01	1.8160E+01
35	1.000	1.2233E+01	7.8948E+00	1.8567E+01	2.0820E+01	1.2691E+01	1.5225E+01
36	1.200	1.0277E+01	4.6637E+00	2.1172E+01	2.2274E+01	1.7413E+01	1.4945E+01
37	1.400	7.0385E+00	4.8333E+00	1.6663E+01	1.5307E+01	1.3923E+01	1.0184E+01
38	1.500	5.5950E+00	5.0994E+00	1.4612E+01	1.2038E+01	1.1794E+01	1.0294E+01
39	1.600	5.0705E+00	5.0674E+00	1.8722E+01	1.3131E+01	1.5961E+01	9.4845E+00
40	1.800	4.9299E+00	7.0020E+00	2.0325E+01	1.3257E+01	1.7963E+01	1.4684E+01
41	2.000	3.9033E+00	6.8020E+00	1.8342E+01	1.0961E+01	1.6086E+01	1.1328E+01
42	2.500	2.2417E+00	2.7577E+00	7.0904E+00	6.4644E+00	6.4609E+00	5.1020E+00
43	3.000	1.2812E+00	1.5531E+00	3.7622E+00	2.9244E+00	3.6423E+00	3.8194E+00
44	4.000	1.0285E+00	9.4248E-01	3.9627E+00	3.3327E+00	3.7730E+00	2.8060E+00
45	5.000	7.9385E-01	6.0562E-01	2.8713E+00	2.3622E+00	1.7282E+00	1.1386E+00
46	6.000	1.0584E+00	4.9740E-01	2.0308E+00	1.9544E+00	1.0811E+00	1.0526E+00
47	7.000	6.9990E-01	4.7344E-01	1.6362E+00	1.5702E+00	9.0886E-01	1.0018E+00
48	8.000	5.6322E-01	5.1017E-01	1.3989E+00	1.0647E+00	9.9280E-01	9.4006E-01
49	9.000	4.9956E-01	4.7591E-01	1.0505E+00	7.7016E-01	1.0537E+00	8.0066E-01
50	10.000	4.2784E-01	3.7970E-01	8.4092E-01	6.2400E-01	1.0495E+00	6.4440E-01

付表 1-3 (4) 観音崎の加速度応答スペクトル S_A の値 (1973. 12. 22, $M=0.0$, $\Delta=70 \text{ km}$)

No	T	Gr (0 m)			-80 m			-120 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.3833E+01	2.2779E+01	7.7397E+00	6.9237E+00	9.7014E+00	4.6274E+00	7.2159E+00	8.9163E+00	4.4633E+00
2	0.055	1.4090E+01	2.6829E+01	1.1907E+01	6.5526E+00	1.0278E+01	4.1297E+00	7.2534E+00	9.2399E+00	5.1474E+00
3	0.060	1.5524E+01	2.5756E+01	1.0368E+01	7.6620E+00	9.3049E+00	5.3354E+00	8.5240E+00	9.0694E+00	5.4805E+00
4	0.065	1.6498E+01	2.9944E+01	1.1353E+01	8.8525E+00	9.2384E+00	6.5203E+00	9.0087E+00	9.4673E+00	4.9493E+00
5	0.070	2.0826E+01	3.9416E+01	1.3092E+01	9.5086E+00	9.0153E+00	7.9038E+00	9.3081E+00	1.0603E+01	4.9507E+00
6	0.075	2.7700E+01	4.6772E+01	1.6892E+01	9.8333E+00	9.5161E+00	7.7654E+00	8.5266E+00	1.2545E+01	4.8362E+00
7	0.080	3.8609E+01	5.2124E+01	1.3941E+01	1.0921E+01	9.4554E+00	7.7007E+00	1.0103E+01	1.2638E+01	5.5641E+00
8	0.085	3.2902E+01	5.6501E+01	1.2976E+01	1.1874E+01	1.0481E+01	7.4542E+00	1.1748E+01	1.3057E+01	6.1566E+00
9	0.090	2.6150E+01	6.4021E+01	1.1467E+01	1.2572E+01	1.0946E+01	6.9222E+00	1.2350E+01	1.3600E+01	6.4875E+00
10	0.100	2.0403E+01	5.6169E+01	1.1170E+01	1.3829E+01	1.0852E+01	7.3542E+00	9.2617E+00	1.5066E+01	6.4090E+00
11	0.120	1.7719E+01	4.7085E+01	1.1656E+01	8.7511E+00	1.4005E+01	6.2141E+00	1.2048E+01	1.3831E+01	5.8246E+00
12	0.140	2.2311E+01	4.6334E+01	1.4100E+01	1.2510E+01	1.2919E+01	5.9424E+00	2.0517E+01	1.8987E+01	7.7419E+00
13	0.150	2.6942E+01	4.8926E+01	1.3683E+01	1.4250E+01	1.3813E+01	6.9801E+00	1.8369E+01	2.2093E+01	7.7089E+00
14	0.160	3.0704E+01	4.7254E+01	1.4097E+01	1.3464E+01	1.4707E+01	6.5314E+00	1.4539E+01	2.3684E+01	8.6523E+00
15	0.180	3.3473E+01	4.4796E+01	2.2334E+01	1.8753E+01	2.1805E+01	6.7667E+00	1.7971E+01	2.4842E+01	7.9389E+00
16	0.200	3.2806E+01	3.6983E+01	2.3614E+01	1.7712E+01	2.0380E+01	8.0926E+00	1.7132E+01	2.3238E+01	6.5815E+00
17	0.220	2.6746E+01	4.1652E+01	1.9268E+01	1.3745E+01	1.3427E+01	8.5078E+00	1.2759E+01	1.8960E+01	5.6474E+00
18	0.240	2.8017E+01	4.3620E+01	1.5948E+01	1.6972E+01	1.2542E+01	8.2466E+00	1.2097E+01	1.9224E+01	7.3109E+00
19	0.260	2.8876E+01	3.7376E+01	1.7717E+01	1.9843E+01	1.4994E+01	8.1213E+00	1.2572E+01	1.8233E+01	7.0416E+00
20	0.280	3.5000E+01	4.1836E+01	1.6843E+01	1.7372E+01	1.9702E+01	7.3710E+00	9.7954E+00	1.7875E+01	6.8400E+00
21	0.300	3.1351E+01	5.4751E+01	1.9015E+01	1.7630E+01	2.1446E+01	8.8224E+00	9.1598E+00	1.9317E+01	6.9028E+00
22	0.320	3.0553E+01	4.2964E+01	1.9408E+01	1.8422E+01	2.3756E+01	9.6421E+00	1.0090E+01	2.2807E+01	7.6530E+00
23	0.340	3.6986E+01	3.2433E+01	2.1363E+01	1.6890E+01	2.5546E+01	1.0611E+01	9.8888E+00	2.3169E+01	7.2606E+00
24	0.360	4.1619E+01	3.5084E+01	2.0891E+01	1.6193E+01	2.7761E+01	1.1267E+01	9.8011E+00	2.3468E+01	7.1720E+00
25	0.380	4.1239E+01	3.5163E+01	1.7046E+01	1.9171E+01	2.7083E+01	9.3144E+00	1.3225E+01	2.5439E+01	7.3005E+00
26	0.400	3.6639E+01	2.6822E+01	1.3623E+01	2.3988E+01	3.0726E+01	7.8241E+00	1.7515E+01	2.6944E+01	7.1507E+00
27	0.450	2.0895E+01	1.4797E+01	1.0187E+01	2.0438E+01	2.7083E+01	6.9822E+00	1.9902E+01	1.8866E+01	5.1446E+00
28	0.500	1.6382E+01	1.3293E+01	7.8788E+00	1.0487E+01	1.4678E+01	5.9020E+00	1.2432E+01	1.1986E+01	4.4157E+00
29	0.550	1.1921E+01	1.1483E+01	6.7862E+00	6.8628E+00	9.2330E+00	4.7867E+00	8.5636E+00	6.7076E+00	3.6707E+00
30	0.600	1.0012E+01	1.1492E+01	5.1515E+00	6.1422E+00	7.5477E+00	4.0777E+00	6.4708E+00	4.8733E+00	3.1585E+00
31	0.650	9.2436E+00	1.0884E+01	5.7445E+00	5.5560E+00	6.8495E+00	4.7010E+00	5.3447E+00	4.1428E+00	3.6327E+00
32	0.700	7.8118E+00	8.4482E+00	4.3399E+00	5.1303E+00	6.4360E+00	3.5247E+00	3.9519E+00	3.4295E+00	2.5106E+00
33	0.800	8.1901E+00	5.6258E+00	3.2096E+00	3.5720E+00	3.9703E+00	2.4851E+00	2.6513E+00	2.6799E+00	1.8051E+00
34	0.900	6.2714E+00	4.3499E+00	2.1787E+00	3.7927E+00	4.2107E+00	2.1051E+00	2.6050E+00	2.4700E+00	1.5288E+00
35	1.000	5.1478E+00	3.4994E+00	1.7021E+00	3.0551E+00	3.8815E+00	1.8324E+00	2.1299E+00	2.5998E+00	1.1599E+00
36	1.200	4.2169E+00	2.6790E+00	1.6544E+00	1.7522E+00	2.8933E+00	1.4847E+00	1.6652E+00	2.0370E+00	9.8988E-01
37	1.400	2.8051E+00	2.4216E+00	1.0012E+00	1.8694E+00	2.2879E+00	1.1885E+00	1.3537E+00	1.8732E+00	5.3541E-01
38	1.500	2.2278E+00	1.8415E+00	9.8042E-01	1.5413E+00	2.0895E+00	1.2849E+00	1.1563E+00	1.7892E+00	5.4587E-01
39	1.600	1.7914E+00	1.9870E+00	1.0679E+00	1.4240E+00	1.8598E+00	1.0935E+00	9.6412E-01	1.6709E+00	5.4705E-01
40	1.800	1.2493E+00	1.5172E+00	6.5857E-01	1.0194E+00	1.4522E+00	8.4386E-01	6.6402E-01	1.1008E+00	5.2174E-01
41	2.000	8.8648E-01	1.4088E+00	5.2420E-01	8.8706E-01	1.1329E+00	5.8985E-01	8.3111E-01	9.4658E-01	4.0171E-01
42	2.500	7.0901E-01	1.1615E+00	4.9264E-01	7.7699E-01	6.4939E-01	5.4895E-01	5.2480E-01	9.0517E-01	3.8322E-01
43	3.000	7.1741E-01	8.4417E-01	4.6331E-01	4.5200E-01	6.4600E-01	6.5538E-01	3.4340E-01	7.0958E-01	4.5959E-01
44	4.000	5.8065E-01	6.9686E-01	2.6072E-01	4.9834E-01	5.6343E-01	4.4898E-01	5.1046E-01	4.5117E-01	3.1828E-01
45	5.000	5.6736E-01	5.4506E-01	3.2380E-01	4.0640E-01	3.6724E-01	3.8470E-01	3.0563E-01	4.9435E-01	3.7262E-01
46	6.000	4.3166E-01	6.3088E-01	2.7246E-01	3.9010E-01	3.7070E-01	5.1285E-01	2.3569E-01	4.7103E-01	3.4767E-01
47	7.000	4.2641E-01	7.6762E-01	2.3627E-01	4.5647E-01	6.1097E-01	4.5671E-01	3.0532E-01	3.7617E-01	4.2384E-01
48	8.000	5.0177E-01	7.1339E-01	2.7525E-01	5.3371E-01	3.7518E-01	5.3782E-01	2.3060E-01	4.9770E-01	3.6308E-01
49	9.000	5.3814E-01	6.8239E-01	2.8930E-01	5.9330E-01	3.7520E-01	6.2871E-01	1.8854E-01	5.6533E-01	3.2027E-01
50	10.000	5.7878E-01	5.8820E-01	3.0874E-01	6.1153E-01	2.5269E-01	6.4651E-01	1.7641E-01	5.5458E-01	3.3311E-01

付表 1-3 (5) 観音崎の加速度応答スペクトル S_a の値 (1974.5.9, $M=6.9$, $\Delta=10$ km)

No.	T	Gr (0 m)			-80 m			-120 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	3.0784E+01	4.4880E+01	1.5951E+01	1.5034E+01	2.0490E+01	8.5070E+00	1.4589E+01	2.6305E+01	6.1654E+00
2	0.055	3.0560E+01	4.6646E+01	1.6989E+01	1.5394E+01	1.9683E+01	8.3906E+00	1.3856E+01	2.4592E+01	6.1920E+00
3	0.060	3.1434E+01	5.1592E+01	2.0422E+01	1.6636E+01	2.0414E+01	8.6119E+00	1.3909E+01	2.7244E+01	6.8958E+00
4	0.065	3.3786E+01	6.1511E+01	2.0183E+01	1.7655E+01	2.0780E+01	1.0341E+01	1.3882E+01	3.1718E+01	6.8562E+00
5	0.070	3.8231E+01	5.4367E+01	1.7344E+01	1.7637E+01	2.1346E+01	1.1642E+01	1.5048E+01	3.1222E+01	7.8724E+00
6	0.075	4.1845E+01	6.1489E+01	1.7074E+01	1.7025E+01	2.0780E+01	1.1903E+01	1.6203E+01	3.2146E+01	7.5253E+00
7	0.080	4.2480E+01	7.2816E+01	1.7546E+01	1.5447E+01	2.0500E+01	1.0897E+01	1.7464E+01	3.1607E+01	7.2069E+00
8	0.085	3.5440E+01	7.9645E+01	2.0722E+01	1.6585E+01	2.1929E+01	1.1778E+01	1.7408E+01	3.1917E+01	9.0233E+00
9	0.090	4.3879E+01	7.4142E+01	2.1090E+01	1.8679E+01	2.3900E+01	1.1953E+01	1.7249E+01	2.9854E+01	1.1639E+01
10	0.100	3.8736E+01	6.3752E+01	2.5408E+01	2.0303E+01	2.4545E+01	1.1649E+01	2.1534E+01	2.7340E+01	1.0600E+01
11	0.120	4.5962E+01	9.5476E+01	2.9684E+01	2.3397E+01	2.2720E+01	1.2066E+01	2.3448E+01	3.8851E+01	9.8571E+00
12	0.140	5.2493E+01	9.4347E+01	3.2372E+01	2.6992E+01	2.5394E+01	1.1650E+01	2.5203E+01	4.7790E+01	1.2986E+01
13	0.150	5.4120E+01	8.3022E+01	3.8731E+01	2.5570E+01	2.2286E+01	1.2006E+01	3.0154E+01	4.6129E+01	1.4386E+01
14	0.160	5.8514E+01	9.0180E+01	4.5273E+01	2.6899E+01	2.2812E+01	1.1759E+01	3.8968E+01	5.6583E+01	1.4021E+01
15	0.180	6.1983E+01	1.2360E+02	5.7386E+01	3.3052E+01	2.4688E+01	2.0230E+01	5.8532E+01	7.7646E+01	1.1964E+01
16	0.200	6.5962E+01	1.4470E+02	6.6332E+01	2.9566E+01	2.7911E+01	1.8966E+01	6.3117E+01	9.8673E+01	1.8863E+01
17	0.220	6.4668E+01	1.2784E+02	4.2264E+01	3.6609E+01	3.1697E+01	1.9152E+01	4.1405E+01	8.4681E+01	2.0516E+01
18	0.240	5.4933E+01	1.0110E+02	2.5804E+01	2.6117E+01	3.0885E+01	2.0883E+01	2.8265E+01	5.8222E+01	1.5719E+01
19	0.260	5.6326E+01	9.0554E+01	3.0094E+01	2.0128E+01	3.0791E+01	2.1222E+01	1.8620E+01	4.2973E+01	1.1302E+01
20	0.280	4.5171E+01	7.0806E+01	2.8912E+01	2.5804E+01	2.6720E+01	1.7340E+01	1.7982E+01	3.2776E+01	9.4954E+00
21	0.300	4.2407E+01	4.9080E+01	2.6289E+01	2.9884E+01	3.1080E+01	1.7963E+01	1.8088E+01	3.1498E+01	1.1576E+01
22	0.320	3.9226E+01	3.4677E+01	2.7552E+01	2.6202E+01	3.3044E+01	2.1508E+01	1.5834E+01	3.2325E+01	1.4405E+01
23	0.340	3.3742E+01	3.5499E+01	2.2146E+01	3.0812E+01	3.4339E+01	2.2461E+01	2.0432E+01	3.0693E+01	1.4101E+01
24	0.360	3.4805E+01	3.3386E+01	2.2788E+01	2.5815E+01	3.3435E+01	2.2688E+01	1.9872E+01	2.9640E+01	1.4775E+01
25	0.380	4.1249E+01	4.0331E+01	2.9285E+01	2.5052E+01	2.6932E+01	2.0165E+01	2.1026E+01	3.1696E+01	1.4900E+01
26	0.400	4.4794E+01	3.8569E+01	2.9023E+01	2.3524E+01	2.3524E+01	2.1620E+01	2.1946E+01	3.2578E+01	1.5365E+01
27	0.450	3.9301E+01	4.8354E+01	3.6552E+01	1.8311E+01	2.1764E+01	2.5340E+01	2.5837E+01	3.4039E+01	1.7672E+01
28	0.500	3.5578E+01	4.5502E+01	2.9389E+01	1.8640E+01	2.4058E+01	2.0390E+01	1.8294E+01	4.0295E+01	1.5439E+01
29	0.550	4.0462E+01	4.8662E+01	2.5981E+01	1.8478E+01	1.8897E+01	2.2164E+01	1.9594E+01	3.1720E+01	1.5825E+01
30	0.600	3.2521E+01	5.1547E+01	2.2981E+01	1.9195E+01	1.9751E+01	1.8588E+01	1.7140E+01	2.9729E+01	1.5105E+01
31	0.650	4.2058E+01	4.5192E+01	2.5143E+01	2.0069E+01	2.2281E+01	2.4144E+01	1.7542E+01	2.6662E+01	1.8972E+01
32	0.700	4.5880E+01	4.5926E+01	1.8290E+01	2.2107E+01	2.4747E+01	1.9249E+01	1.7407E+01	2.5930E+01	1.6382E+01
33	0.800	5.5671E+01	4.4262E+01	2.0560E+01	2.4338E+01	3.2491E+01	1.6219E+01	1.9422E+01	2.5161E+01	1.3601E+01
34	0.900	5.0234E+01	4.7903E+01	1.4737E+01	2.8712E+01	3.5985E+01	1.3873E+01	2.0678E+01	3.4484E+01	1.1912E+01
35	1.000	5.1550E+01	4.4025E+01	1.4377E+01	3.1320E+01	3.5830E+01	1.3883E+01	2.3917E+01	3.2586E+01	1.2380E+01
36	1.200	4.4930E+01	4.2120E+01	1.3941E+01	2.4359E+01	3.4742E+01	1.4214E+01	2.0933E+01	3.2965E+01	1.2599E+01
37	1.400	3.1679E+01	4.0344E+01	1.1920E+01	1.6969E+01	2.5995E+01	1.2558E+01	1.5209E+01	3.7322E+01	1.1250E+01
38	1.500	2.9959E+01	4.0607E+01	9.3267E+00	1.5938E+01	2.4693E+01	1.0969E+01	1.5366E+01	4.0026E+01	1.0044E+01
39	1.600	3.1942E+01	3.6057E+01	1.1146E+01	1.4438E+01	2.9115E+01	1.3299E+01	1.3278E+01	3.7186E+01	1.2377E+01
40	1.800	2.7725E+01	2.9090E+01	1.1991E+01	1.9172E+01	2.6427E+01	1.2665E+01	1.8490E+01	3.0281E+01	1.1239E+01
41	2.000	2.4198E+01	2.0985E+01	8.8520E+00	1.5448E+01	2.2838E+01	9.0026E+00	1.5176E+01	2.9651E+01	7.6642E+00
42	2.500	1.4216E+01	1.1516E+01	7.2496E+00	1.2830E+01	1.6053E+01	7.9150E+00	1.2286E+01	1.3297E+01	7.3621E+00
43	3.000	1.1276E+01	9.4529E+00	4.5433E+00	1.1720E+01	1.3045E+01	4.9338E+00	1.1361E+01	1.2090E+01	4.5294E+00
44	4.000	1.2009E+01	9.0476E+00	5.0109E+00	1.1277E+01	1.3819E+01	5.5742E+00	1.1552E+01	1.0692E+01	5.1255E+00
45	5.000	5.5777E+00	6.7201E+00	2.2228E+00	7.4008E+00	6.8261E+00	2.3190E+00	7.4623E+00	6.4681E+00	2.1391E+00
46	6.000	2.9563E+00	3.7320E+00	1.5663E+00	3.6118E+00	3.9308E+00	1.4008E+00	3.6509E+00	3.1564E+00	1.4153E+00
47	7.000	1.9929E+00	3.3081E+00	1.9345E+00	4.9505E+00	5.1222E+00	1.5945E+00	4.9991E+00	3.2602E+00	1.3282E+00
48	8.000	1.5411E+00	2.5667E+00	1.7498E+00	4.0353E+00	5.4236E+00	1.6620E+00	4.0860E+00	3.8989E+00	1.5167E+00
49	9.000	1.4634E+00	1.7446E+00	9.9082E-01	2.9773E+00	4.4819E+00	1.0060E+00	2.3623E+00	4.3674E+00	1.0573E+00
50	10.000	1.4521E+00	1.5210E+00	1.0782E+00	2.4711E+00	3.5494E+00	9.3789E-01	1.9582E+00	3.5207E+00	8.6333E-01

付表 1-3 (6) 観音崎の加速度応答スペクトル S_A の値 (1974.8.4, $M=5.8$, $A=50$ km)

No	T	Gr (0 m)			-80 m			-120 m		
		N-S	E-W	U-D	N-S	E-W	U-D	N-S	E-W	U-D
1	0.050	1.6252E+01	2.5047E+01	9.9828E+00	7.4315E+00	8.2967E+00	5.2008E+00	7.2920E+00	6.9803E+00	4.2320E+00
2	0.055	1.7181E+01	2.6498E+01	1.0273E+01	8.3424E+00	8.3949E+00	5.6756E+00	7.0494E+00	7.0739E+00	4.0464E+00
3	0.060	1.8832E+01	2.8729E+01	1.3408E+01	9.7711E+00	8.4946E+00	6.6514E+00	7.3813E+00	7.3598E+00	4.3517E+00
4	0.065	2.2002E+01	3.5123E+01	1.2724E+01	8.7684E+00	8.6787E+00	6.9825E+00	7.4545E+00	7.9620E+00	4.4016E+00
5	0.070	2.3350E+01	4.9226E+01	1.4958E+01	8.3857E+00	8.4185E+00	7.0717E+00	8.1522E+00	8.5012E+00	4.8111E+00
6	0.075	2.9247E+01	4.8089E+01	1.3323E+01	8.7848E+00	9.1308E+00	6.8454E+00	7.7972E+00	8.4287E+00	4.7781E+00
7	0.080	3.1282E+01	5.1841E+01	1.3445E+01	1.0040E+01	1.0189E+01	7.9650E+00	8.5343E+00	8.1513E+00	4.8133E+00
8	0.085	2.9896E+01	4.0938E+01	1.2443E+01	9.8553E+00	1.0217E+01	7.7636E+00	9.3289E+00	1.0669E+01	4.9970E+00
9	0.090	2.5865E+01	3.9208E+01	1.2320E+01	9.2764E+00	1.0207E+01	7.9898E+00	1.0259E+01	1.0816E+01	5.4810E+00
10	0.100	2.6872E+01	3.1762E+01	1.4035E+01	1.0561E+01	1.0008E+01	6.9879E+00	1.0540E+01	9.9612E+00	7.4245E+00
11	0.120	2.1226E+01	4.0814E+01	1.3547E+01	1.3760E+01	1.3088E+01	9.1910E+00	1.4076E+01	1.2036E+01	6.6708E+00
12	0.140	2.5789E+01	4.0278E+01	1.5835E+01	1.2296E+01	1.2190E+01	7.5713E+00	1.3496E+01	1.2771E+01	1.1749E+01
13	0.150	2.1192E+01	3.6837E+01	1.6082E+01	1.5738E+01	1.4545E+01	8.0292E+00	1.4942E+01	1.3152E+01	1.2270E+01
14	0.160	1.9768E+01	2.7329E+01	1.6212E+01	1.3212E+01	1.7313E+01	7.0371E+00	1.4176E+01	1.4587E+01	9.1666E+00
15	0.180	2.5721E+01	2.8791E+01	2.1127E+01	1.5232E+01	1.5980E+01	9.1278E+00	1.6268E+01	1.7605E+01	8.3441E+00
16	0.200	2.6975E+01	3.0205E+01	2.5267E+01	1.3447E+01	1.7158E+01	1.3719E+01	1.8187E+01	1.6188E+01	7.9978E+00
17	0.220	2.6008E+01	3.6801E+01	2.2727E+01	1.4846E+01	2.0290E+01	1.1249E+01	1.7003E+01	1.7215E+01	8.5284E+00
18	0.240	2.9577E+01	4.0995E+01	1.9426E+01	1.7134E+01	1.4870E+01	1.1592E+01	1.8303E+01	1.7544E+01	8.6590E+00
19	0.260	2.9372E+01	3.9576E+01	1.8624E+01	1.6522E+01	1.7592E+01	1.3508E+01	1.6175E+01	1.3698E+01	8.9670E+00
20	0.280	2.7230E+01	4.0723E+01	2.0996E+01	1.7581E+01	1.9687E+01	1.4431E+01	1.2842E+01	1.4090E+01	9.9122E+00
21	0.300	2.7853E+01	3.2504E+01	1.8179E+01	2.1339E+01	2.3608E+01	1.3621E+01	1.3621E+01	1.5981E+01	1.0282E+01
22	0.320	2.7604E+01	2.4352E+01	1.5477E+01	1.7662E+01	2.3886E+01	1.3391E+01	1.1283E+01	1.8101E+01	9.4666E+00
23	0.340	2.4738E+01	2.4554E+01	1.6856E+01	2.3592E+01	2.8140E+01	1.5230E+01	1.2774E+01	1.8588E+01	9.8314E+00
24	0.360	2.5606E+01	2.4167E+01	1.6448E+01	2.6224E+01	3.0671E+01	1.2195E+01	1.6081E+01	1.8509E+01	9.5187E+00
25	0.380	3.0743E+01	2.3580E+01	1.5306E+01	2.3693E+01	2.8872E+01	1.2303E+01	1.8705E+01	1.7556E+01	8.9206E+00
26	0.400	2.7689E+01	2.5524E+01	1.7951E+01	2.2361E+01	2.8612E+01	1.1575E+01	1.6373E+01	1.7781E+01	8.0546E+00
27	0.450	2.4092E+01	3.2698E+01	1.7959E+01	2.3325E+01	3.0632E+01	1.4880E+01	1.9522E+01	1.9947E+01	9.9123E+00
28	0.500	2.5155E+01	3.5823E+01	1.9868E+01	1.6999E+01	2.2890E+01	1.2308E+01	1.8164E+01	2.9994E+01	9.4104E+00
29	0.550	2.0072E+01	4.3825E+01	1.4145E+01	1.3825E+01	1.6664E+01	1.3545E+01	1.2101E+01	2.3213E+01	1.0046E+01
30	0.600	2.0474E+01	3.5033E+01	1.2132E+01	1.2381E+01	1.4275E+01	1.0050E+01	1.2110E+01	1.6856E+01	7.6095E+00
31	0.650	1.9313E+01	2.6779E+01	1.0315E+01	1.2744E+01	1.3901E+01	8.6041E+00	1.4500E+01	1.3915E+01	6.0115E+00
32	0.700	2.2390E+01	2.6524E+01	1.0275E+01	1.3735E+01	1.1438E+01	8.7417E+00	1.1935E+01	8.7397E+00	7.0130E+00
33	0.800	3.0942E+01	1.3392E+01	8.6783E+00	1.4357E+01	1.5307E+01	7.6957E+00	1.0962E+01	7.6350E+00	5.9605E+00
34	0.900	1.9601E+01	1.1628E+01	7.9597E+00	8.4844E+00	1.1693E+01	7.4159E+00	6.7388E+00	7.6999E+00	6.0293E+00
35	1.000	1.0479E+01	9.1598E+00	6.5741E+00	6.7205E+00	7.0665E+00	6.9568E+00	6.1143E+00	4.9938E+00	6.3500E+00
36	1.200	1.1047E+01	8.8394E+00	4.4130E+00	7.3431E+00	9.6298E+00	4.7967E+00	6.1410E+00	6.4901E+00	4.6743E+00
37	1.400	8.0425E+00	1.0008E+01	3.3373E+00	7.6677E+00	8.1057E+00	3.2640E+00	6.0636E+00	6.5054E+00	2.8959E+00
38	1.500	8.1904E+00	8.9715E+00	3.8259E+00	7.0173E+00	7.4792E+00	3.6669E+00	5.6539E+00	5.0270E+00	3.4553E+00
39	1.600	6.8547E+00	7.0306E+00	3.9597E+00	7.7831E+00	7.2292E+00	4.3326E+00	6.7311E+00	4.0213E+00	3.8476E+00
40	1.800	6.2455E+00	4.2840E+00	3.6033E+00	6.2672E+00	6.5023E+00	3.8068E+00	6.0534E+00	3.6760E+00	3.1949E+00
41	2.000	4.4549E+00	3.2544E+00	2.4287E+00	4.7660E+00	5.7261E+00	2.4119E+00	3.9831E+00	3.0935E+00	2.0582E+00
42	2.500	3.2815E+00	3.0339E+00	1.5729E+00	3.3873E+00	3.9107E+00	1.7961E+00	3.5916E+00	3.0098E+00	1.3089E+00
43	3.000	2.2450E+00	2.5116E+00	8.8014E-01	2.4252E+00	2.5786E+00	9.3037E-01	2.6459E+00	2.9158E+00	7.3373E-01
44	4.000	1.6822E+00	1.2843E+00	1.0151E+00	1.5832E+00	1.5700E+00	7.3809E-01	1.6144E+00	1.4090E+00	8.6074E-01
45	5.000	1.2413E+00	6.2918E-01	8.4797E-01	9.5060E-01	8.4845E-01	6.0508E-01	1.1147E+00	9.4203E-01	6.3346E-01
46	6.000	1.0334E+00	5.0439E-01	6.5850E-01	9.7347E-01	6.0599E-01	7.4478E-01	7.4289E-01	8.7276E-01	4.9607E-01
47	7.000	1.1988E+00	4.0233E-01	5.0774E-01	7.6835E-01	4.9082E-01	6.3078E-01	6.8621E-01	8.2898E-01	3.9298E-01
48	8.000	1.0011E+00	4.1615E-01	4.9369E-01	6.8823E-01	2.9224E-01	7.5190E-01	5.4989E-01	9.3840E-01	4.6090E-01
49	9.000	7.6918E-01	4.3643E-01	4.9703E-01	7.7678E-01	2.5161E-01	7.5126E-01	4.6791E-01	7.9139E-01	4.5053E-01
50	10.000	7.9547E-01	4.1841E-01	5.6758E-01	6.8867E-01	2.7949E-01	6.9618E-01	2.8551E-01	6.0056E-01	4.0737E-01

東京湾沿岸における地中地震動特性の解析

—(その2) 地中地震動の加速度応答スペクトル特性の解析—

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土彦一興之
直一敬和
川島村沢橋
荒川田相高

キーワード：地中地震記録，耐震設計，
地震応答解析

要旨 本資料は，東京湾沿岸における千葉県富津岬，川崎市浮島公園，横須賀市観音崎の3カ所において得られた地中地震観測記録をもとに，地中地震動の強度および周期特性を減衰定数5%の加速度応答スペクトルによって検討した結果をとりまとめたものである。

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茨城県筑波郡豊里町大字旭一番地

建設省土木研究所

振動研究室 御中

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No.169

配布先氏名

配布先住所

土木研究所資料第2119号 部

上記のとおり受領しました。

所 属 (住所)

氏 名

印

土研資料 2119 号

東京湾沿岸における地中地震動特性の解析 (その2)