

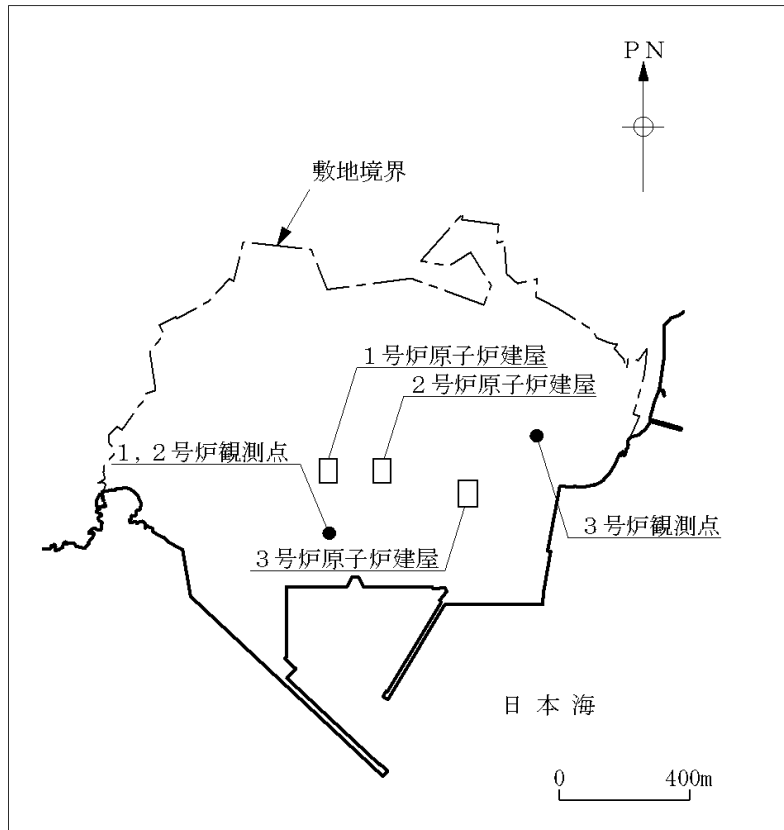
泊 発 電 所

地震観測記録

(資料集)

平成25年10月2日
北海道電力株式会社

地震観測点



配置図

標高(m)	1, 2号炉観測点		3号炉観測点	
	地震計	地層	地震計	地層
+ 64				
+ 56				第四系
+ 10			○	(安山岩)
+ 2.3		埋戻し土	○	
- 90	○	神恵内層	○	神恵内層
-250	○		○	

地震計の設置レベル

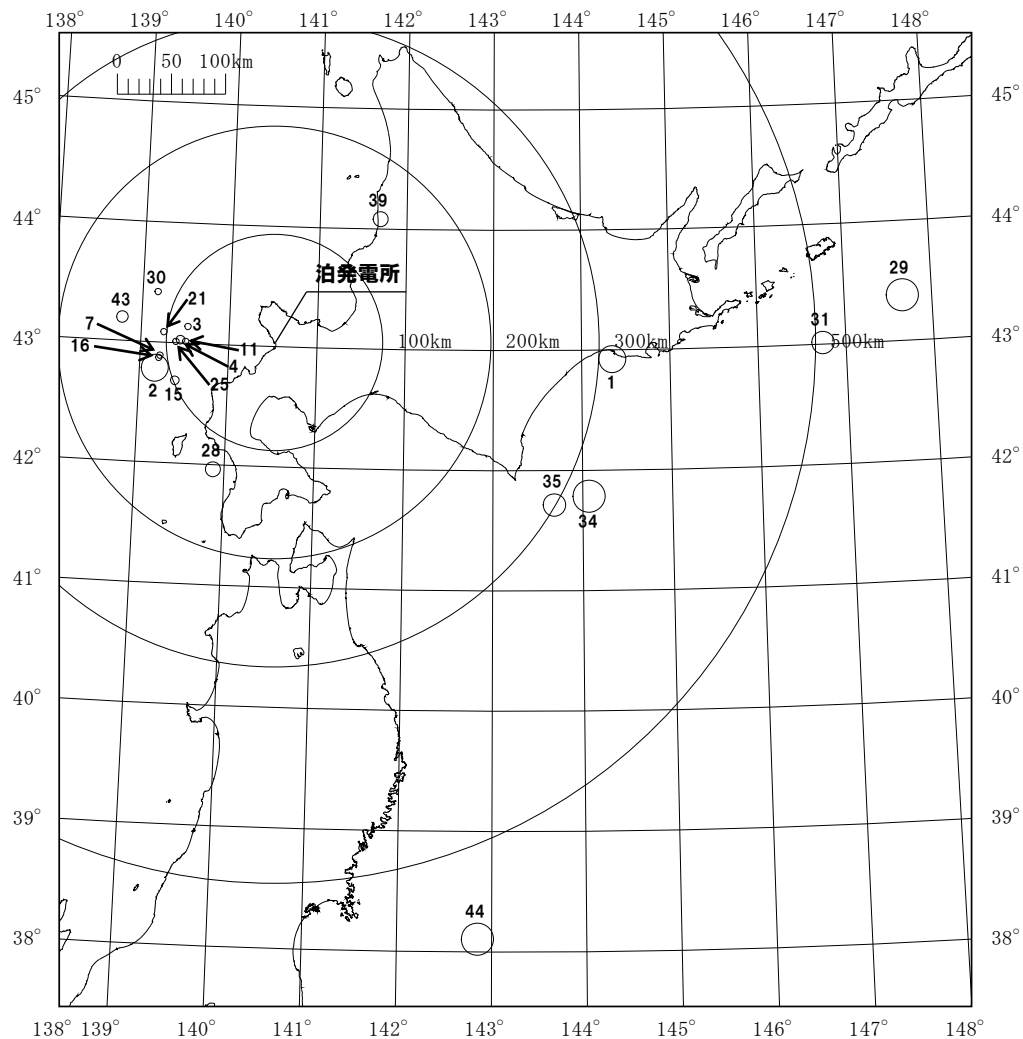
泊発電所 地震観測記録

検討対象地震の諸元

No.	地名または地震名	年月日	発震時刻	震央位置		震源深さ (km)	M	震央距離 (km)	最大加速度(Gal) 1, 2号炉観測点 (標高+2.3m)		最大加速度(Gal) 3号炉観測点 (標高+2.3m)	
				北緯	東経				NS	EW	NS	EW
1	1993年釧路沖地震	1993.1.15	20:06:07	42.920	144.353	101	7.5	313	11	5	-	-
2	1993年北海道南西沖地震	1993.7.12	22:17:11	42.782	139.180	35	7.8	113	49	54	-	-
3	積丹半島北西沖	1993.7.12	23:01:49	43.135	139.533	37	4.7	81	1	2	-	-
4	積丹半島北西沖	1993.7.12	23:04:24	43.022	139.457	35	5.4	86	5	11	-	-
7	北海道南西沖	1993.7.13	03:25:56	42.887	139.232	20	4.8	106	2	2	-	-
11	積丹半島北西沖	1993.7.13	07:34:15	43.012	139.517	28	4.1	81	1	2	-	-
15	北海道南西沖	1993.7.13	21:36:25	42.683	139.412	3	5.2	98	3	5	-	-
16	北海道南西沖	1993.7.14	00:25:18	42.865	139.223	29	4.7	107	1	2	-	-
21	積丹半島北西沖	1993.7.15	11:47:29	43.082	139.263	32	4.3	102	2	4	-	-
25	積丹半島北西沖	1993.7.16	21:55:02	43.008	139.405	38	3.8	90	2	4	-	-
28	1993年北海道南西沖地震最大余震	1993.8.8	04:42:43	41.958	139.882	24	6.3	131	7	5	-	-
29	1994年北海道東方沖地震	1994.10.4	22:22:56	43.375	147.673	28	8.2	583	4	5	-	-
30	1999年積丹半島北西沖	1999.3.15	18:44:54	43.416	139.177	28	4.5	116	2	1	0.5	0.2
31	根室半島沖	2000.1.28	23:21:08	43.008	146.744	59	7.0	506	2	1	1	1
34	2003年十勝沖地震	2003.9.26	04:50:07	41.779	144.078	45	8.0	325	7	8	9	8
35	十勝沖	2003.9.26	06:08:01	41.710	143.691	21	7.1	299	3	3	3	3
39	留萌支庁南部	2004.12.14	14:56:10	44.077	141.700	9	6.1	150	1	2	1	1
43	北海道南西沖	2010.3.30	10:02:51	43.192	138.578	25	5.8	158	2	3	1	1
44	東北地方太平洋沖地震	2011.3.11	14:46:18	38.103	142.860	24	9.0	583	3	2	2	2

※ 地震の諸元は気象庁地震カタログ

検討対象地震の震央分布図



余白

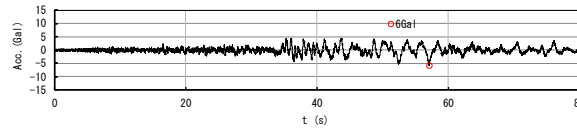
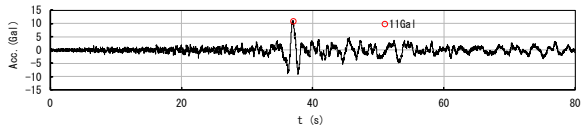
地震観測記録(1, 2号炉観測点)

NS方向

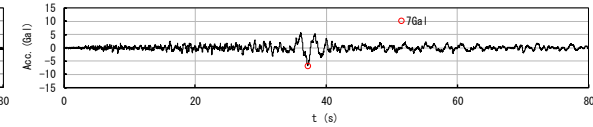
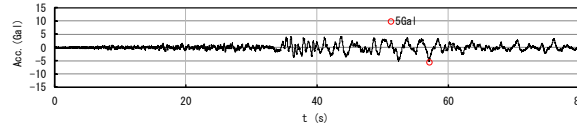
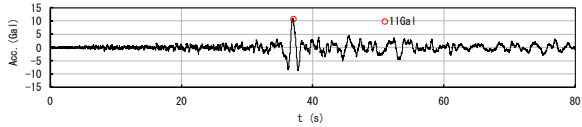
EW方向

UD方向

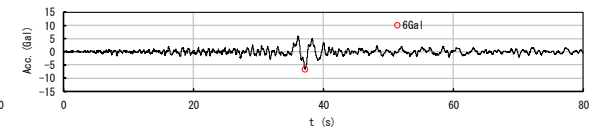
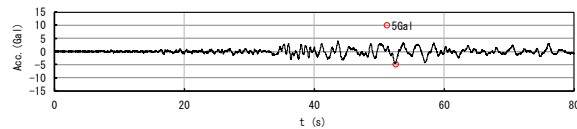
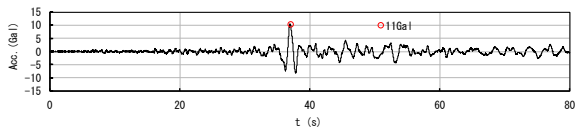
標高
+10m



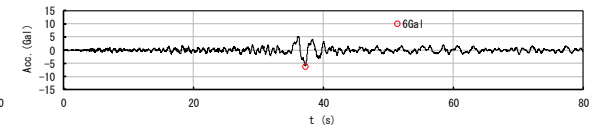
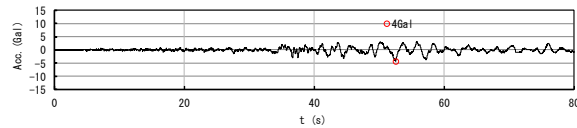
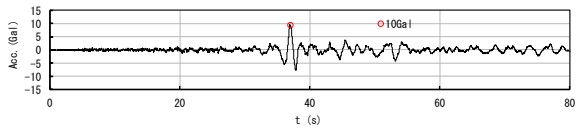
標高
+2.3m



標高
-90m

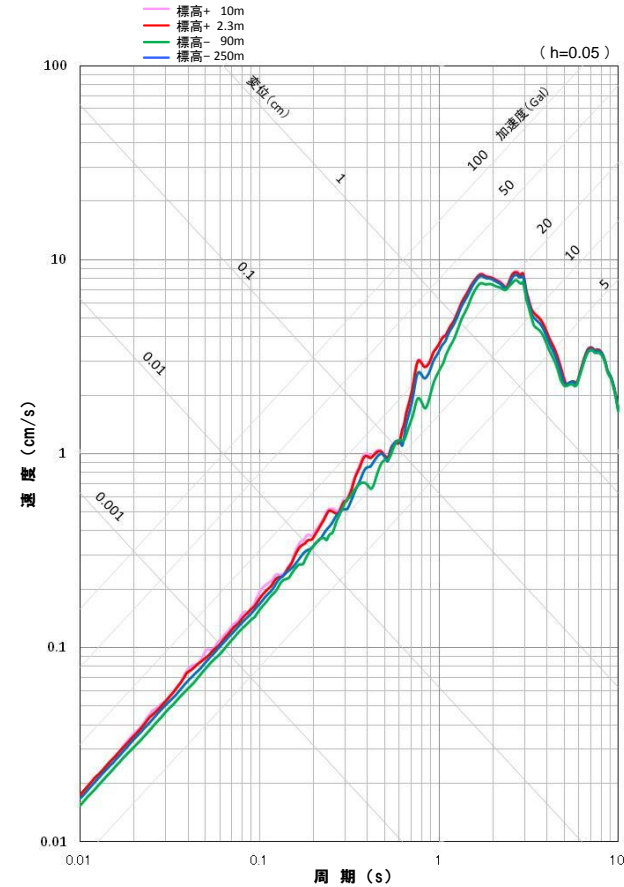


標高
-250m

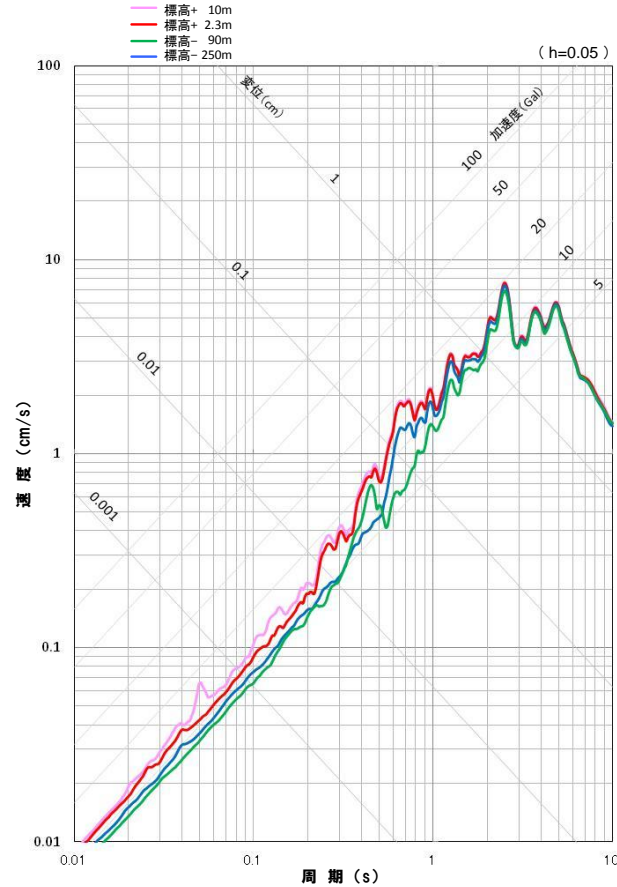


No.1 1993年釧路沖地震 時刻歴波形

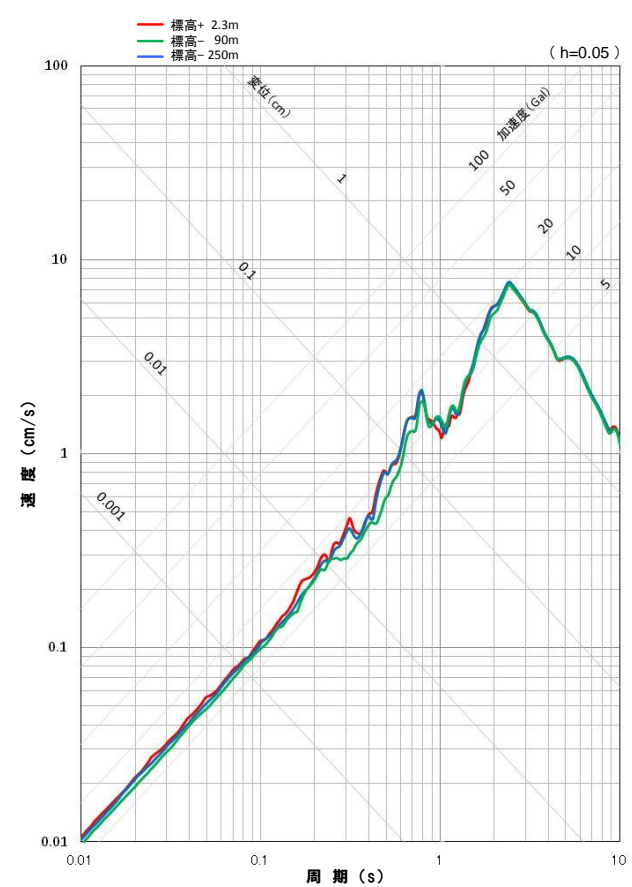
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



UD方向

No.1 1993年釧路沖地震 深度別応答スペクトル

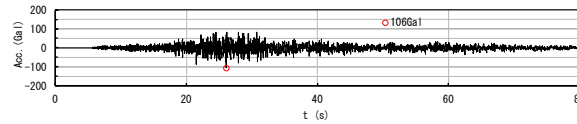
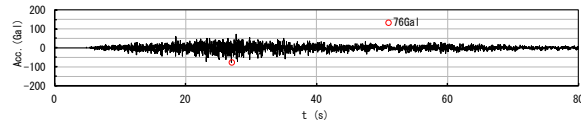
地震観測記録(1, 2号炉観測点)

NS方向

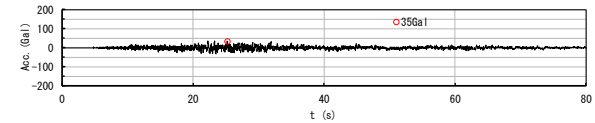
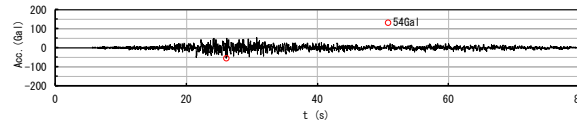
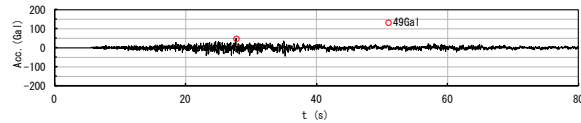
EW方向

UD方向

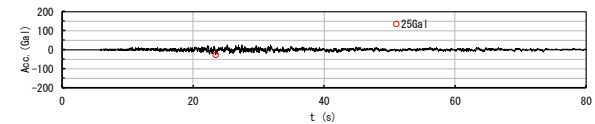
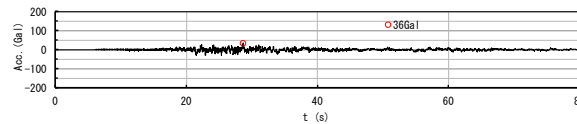
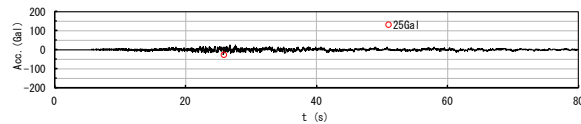
標高
+10m



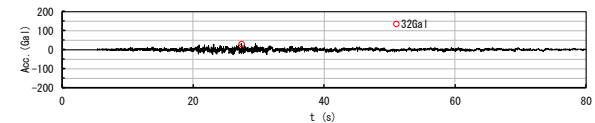
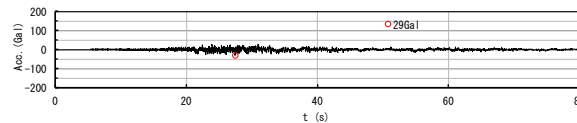
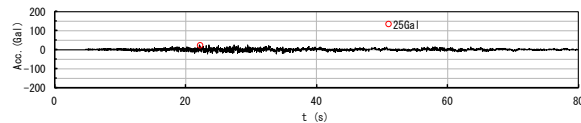
標高
+2.3m



標高
-90m

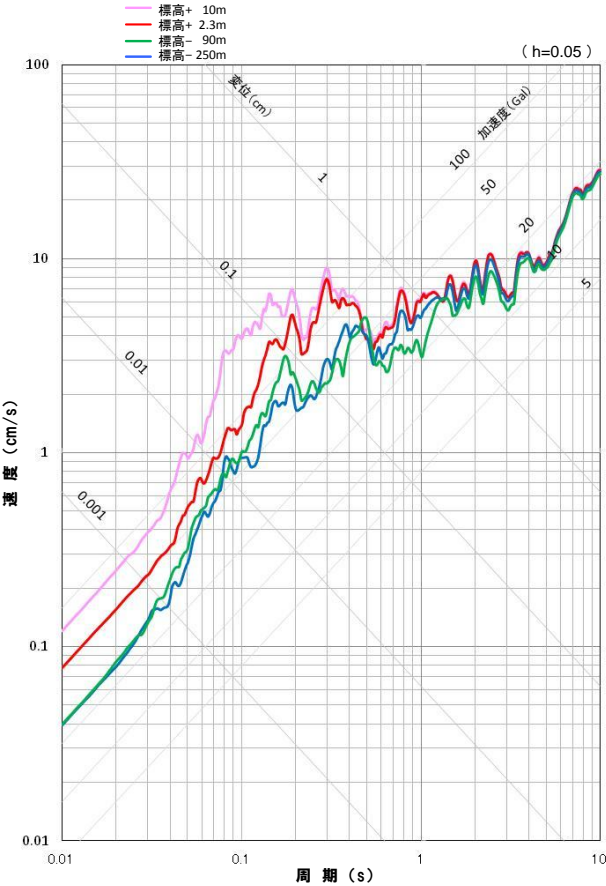


標高
-250m

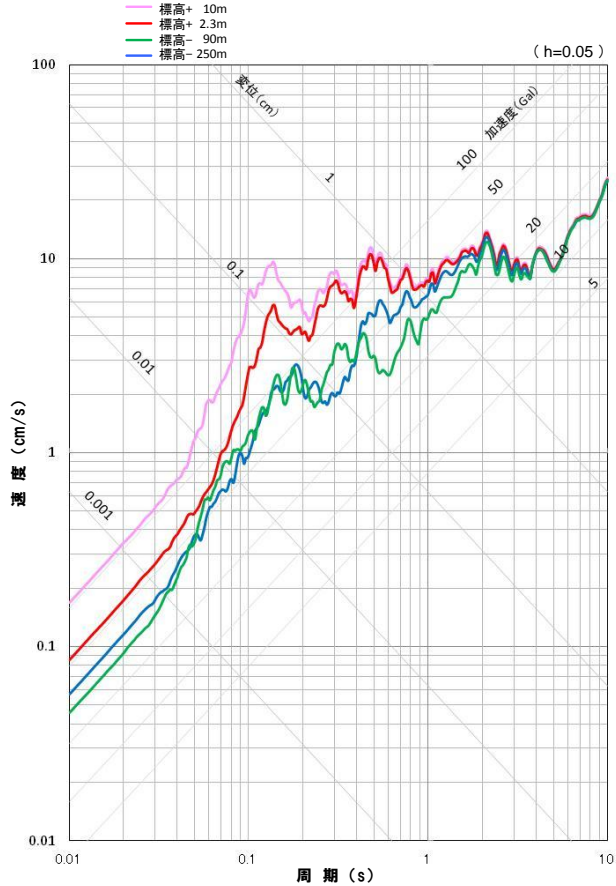


No.2 1993年北海道南西沖地震 時刻歴波形

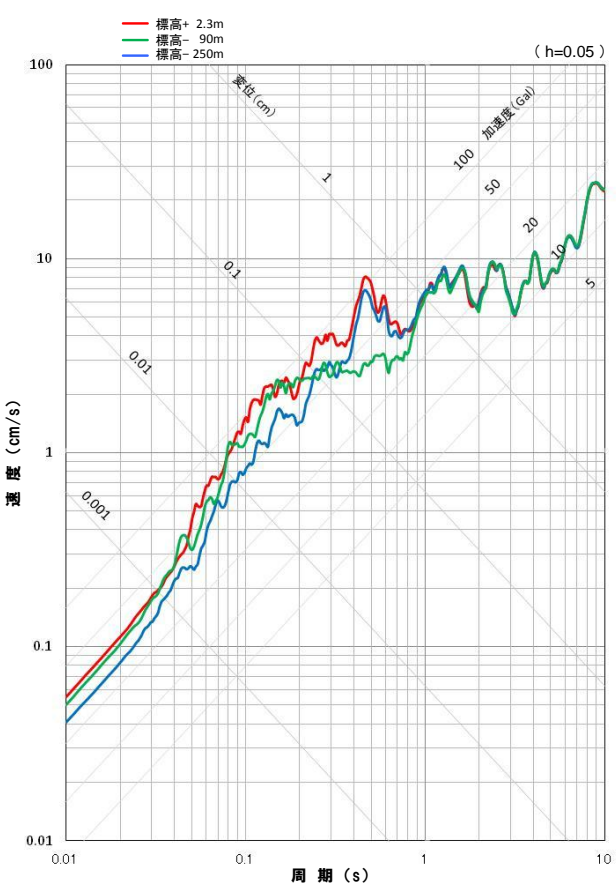
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



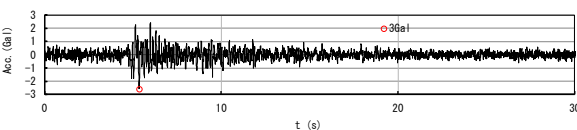
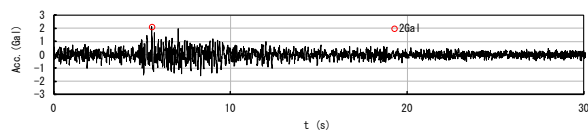
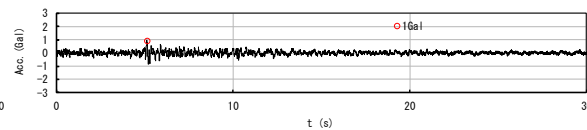
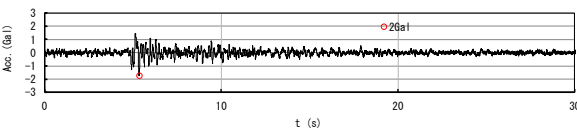
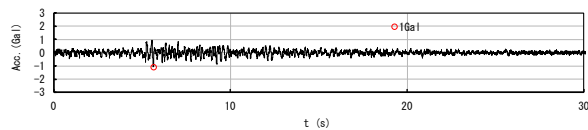
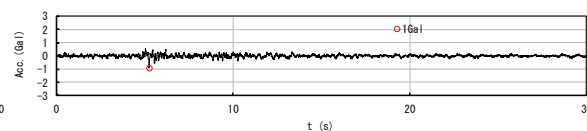
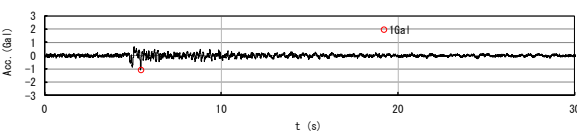
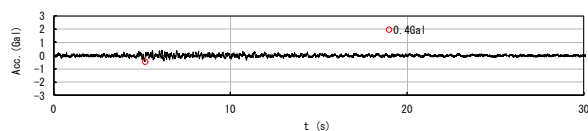
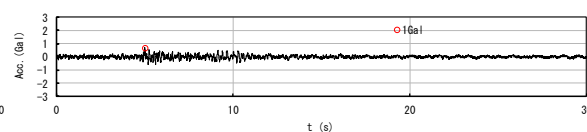
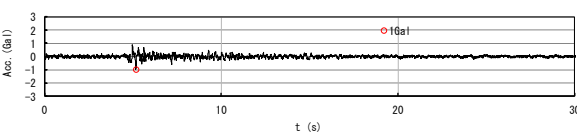
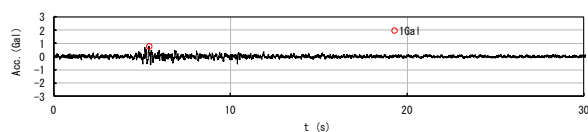
UD方向

No.2 1993年北海道南西沖地震 深度別応答スペクトル

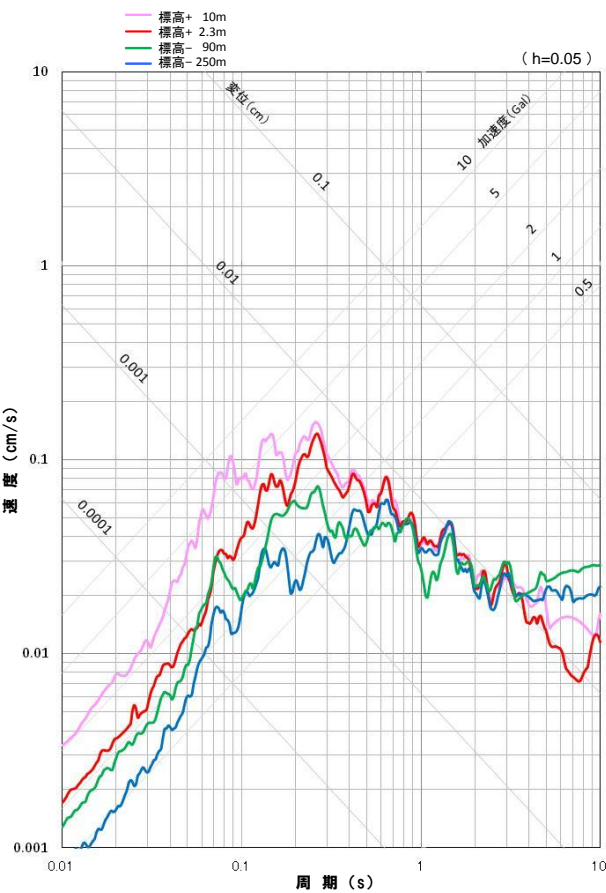
NS方向

EW方向

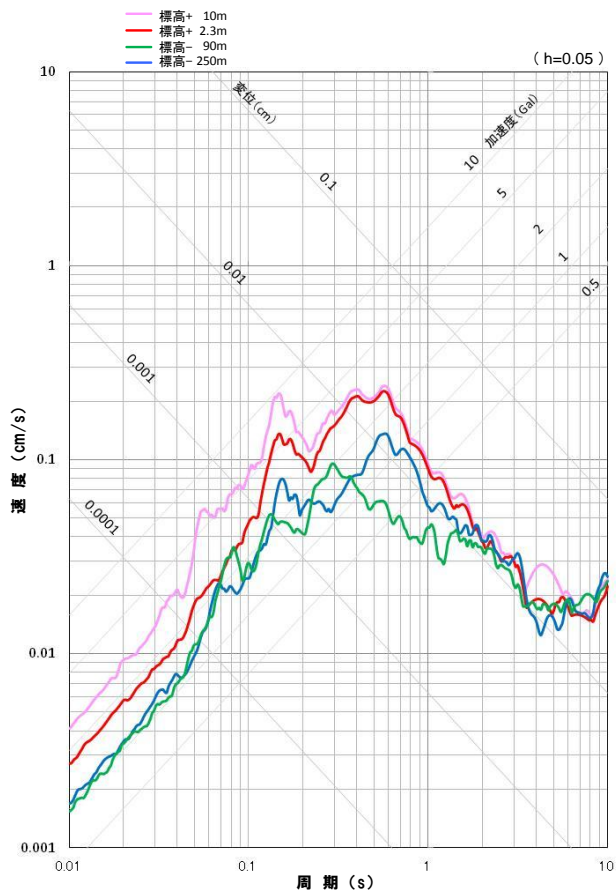
UD方向

標高
+10m標高
+2.3m標高
-90m標高
-250m

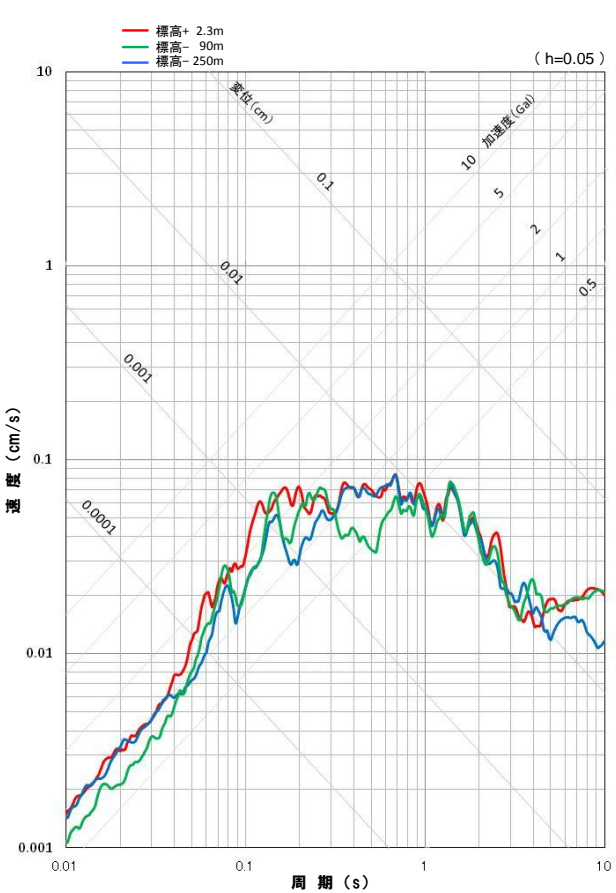
No.3 積丹半島北西沖 時刻歴波形



NS方向



EW方向



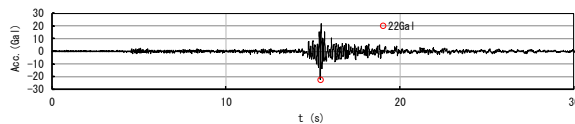
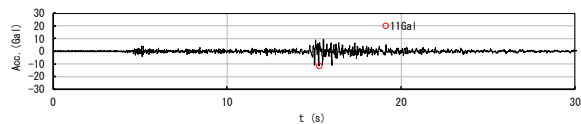
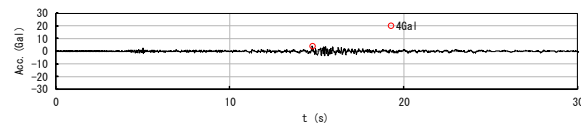
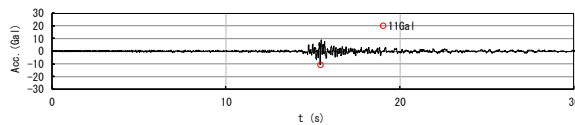
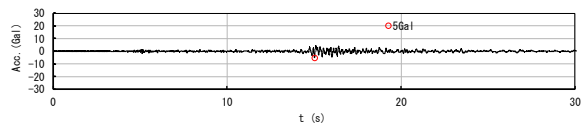
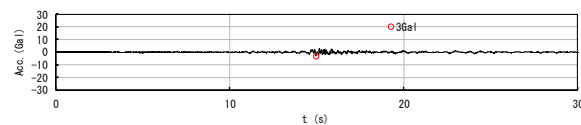
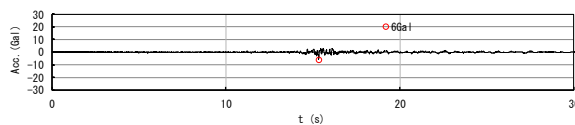
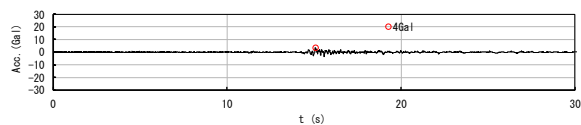
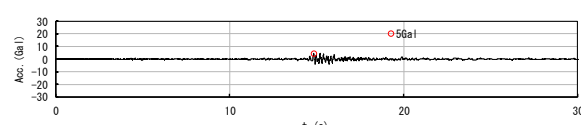
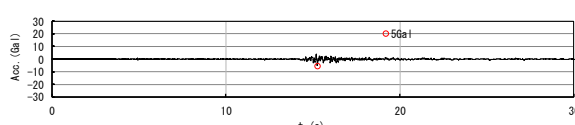
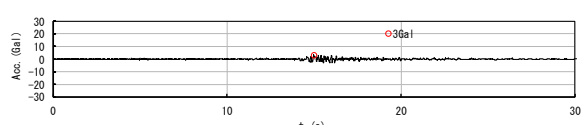
UD方向

No.3 積丹半島北西沖 深度別応答スペクトル

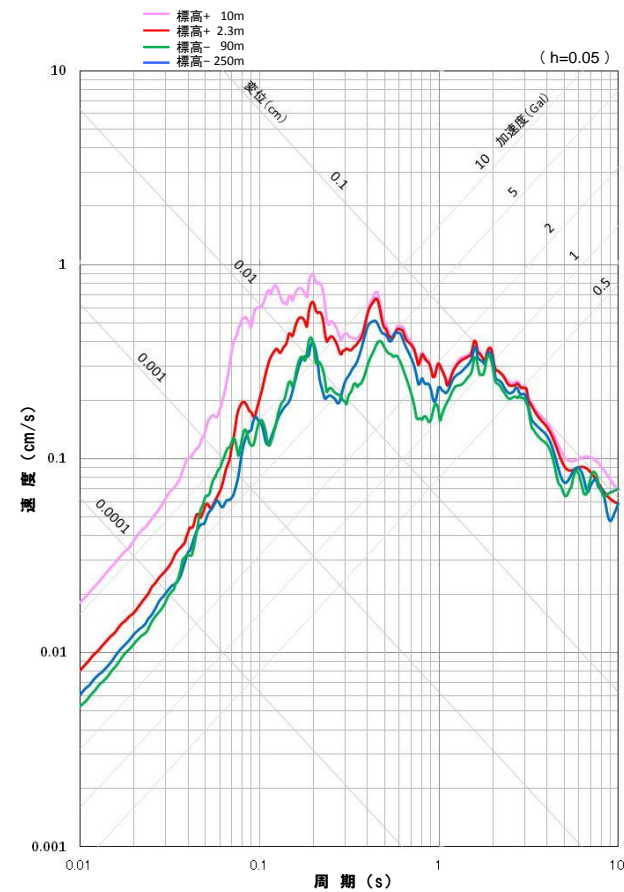
NS方向

EW方向

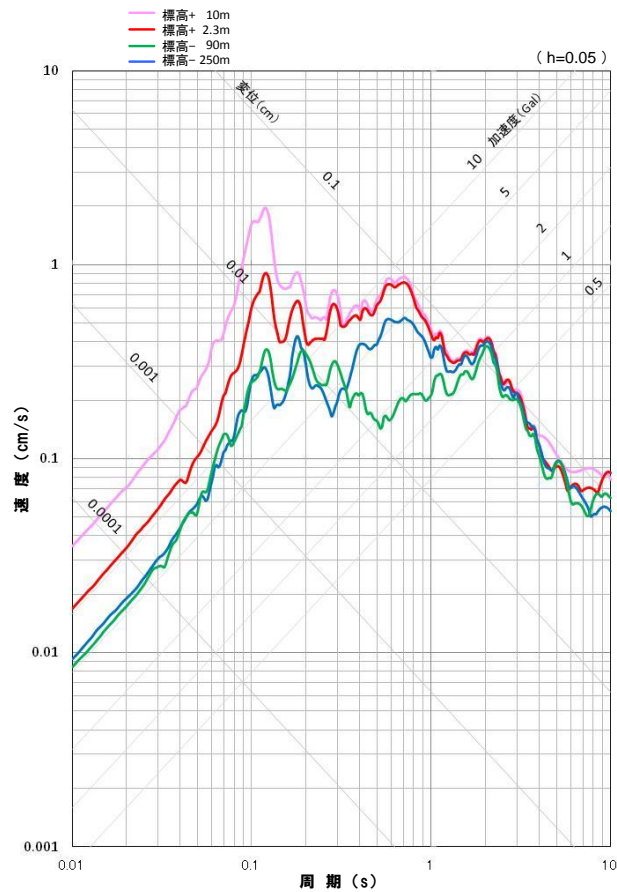
UD方向

標高
+10m標高
+2.3m標高
-90m標高
-250m

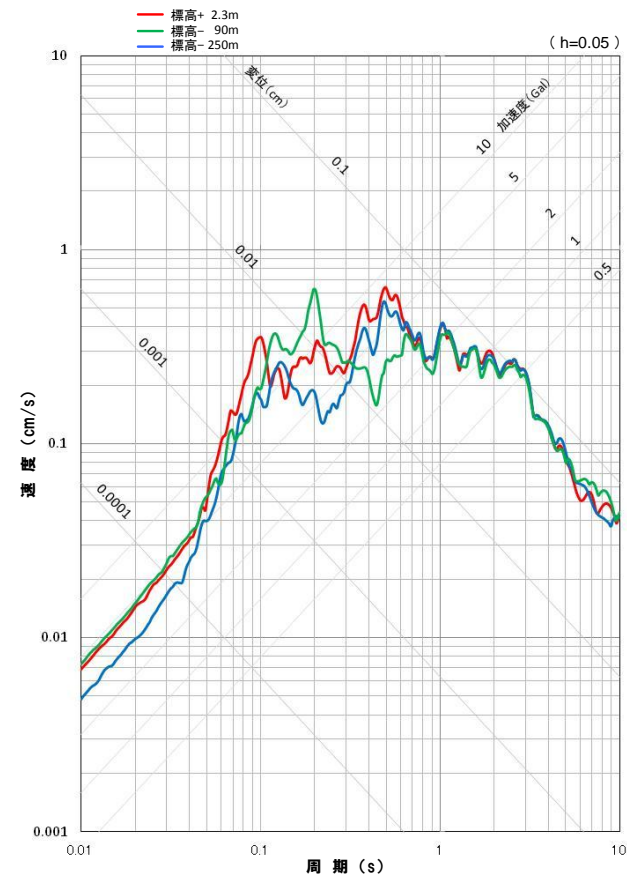
No.4 積丹半島北西沖 時刻歴波形



NS方向



EW方向



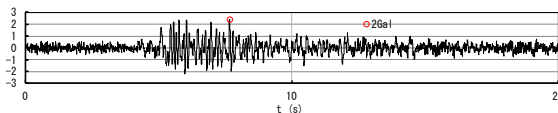
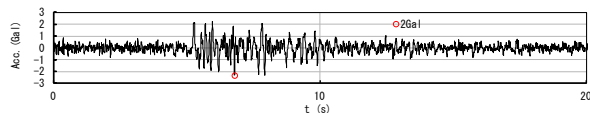
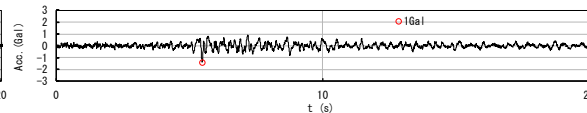
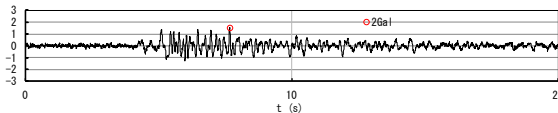
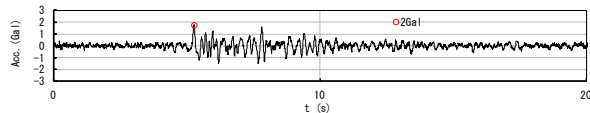
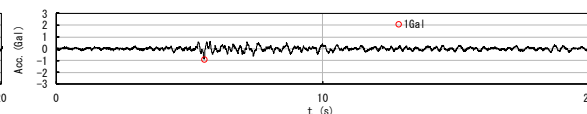
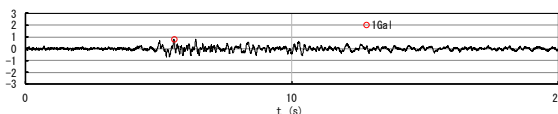
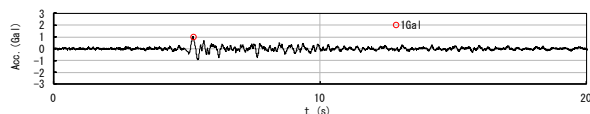
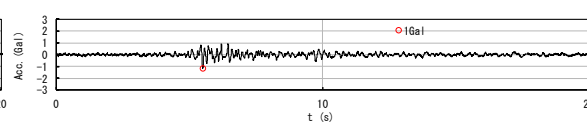
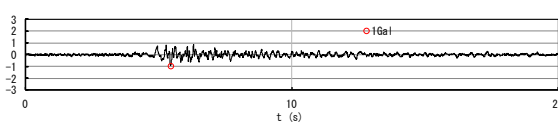
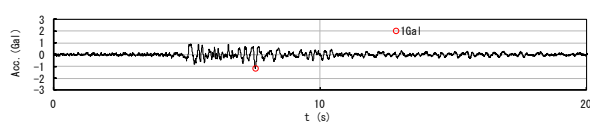
UD方向

No.4 積丹半島北西沖 深度別応答スペクトル

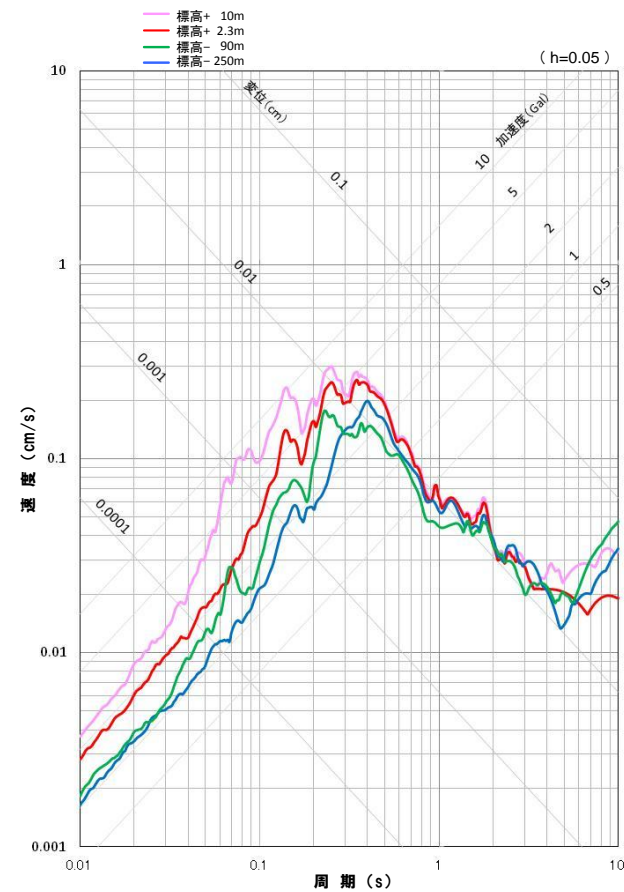
NS方向

EW方向

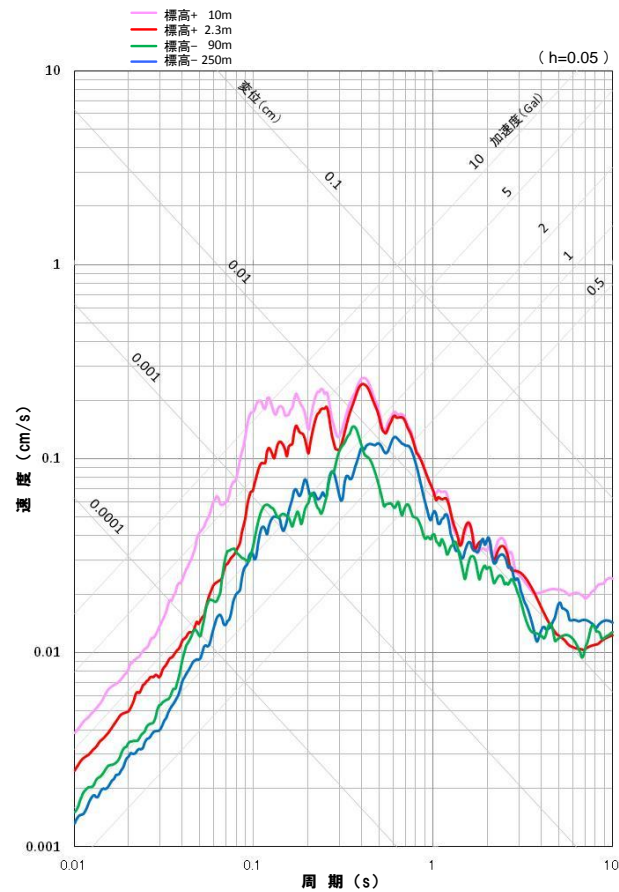
UD方向

標高
+10m標高
+2.3m標高
-90m標高
-250m

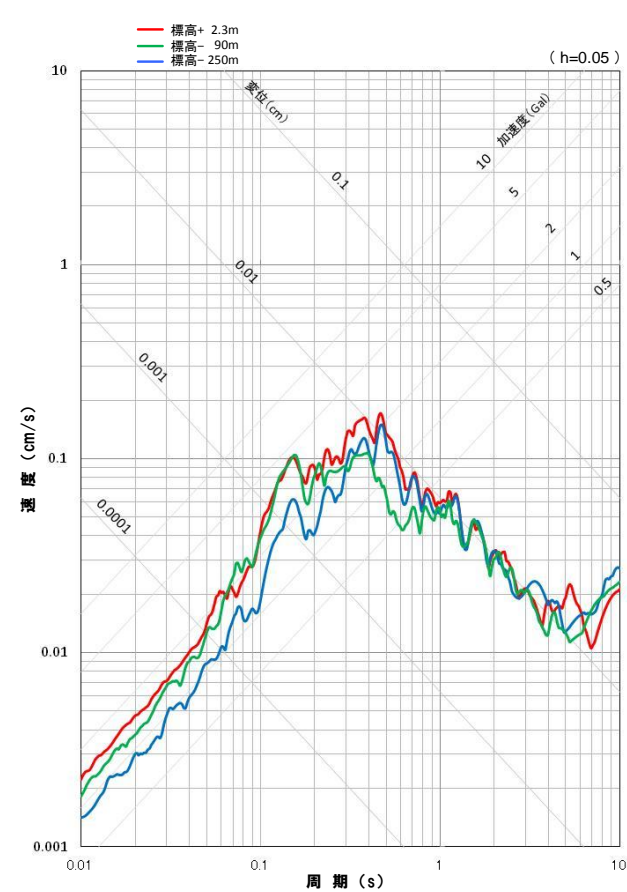
No.7 北海道南西沖 時刻歴波形



NS方向



EW方向



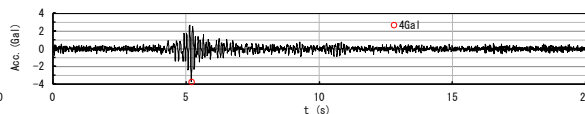
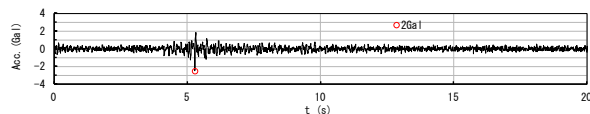
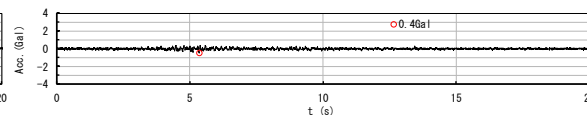
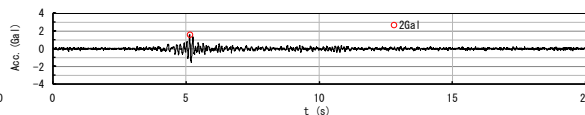
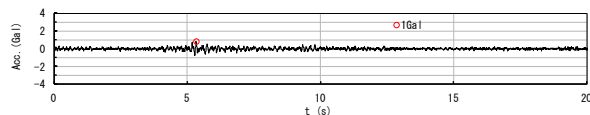
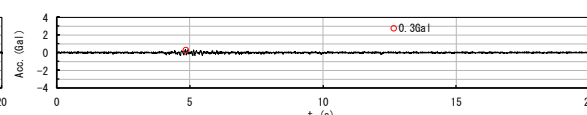
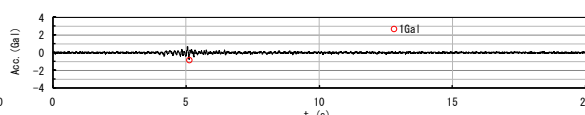
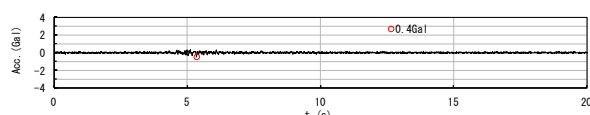
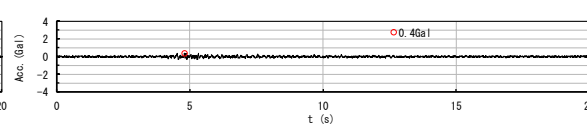
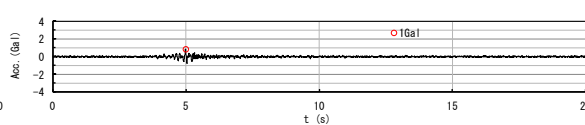
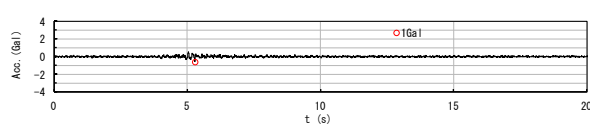
UD方向

No.7 北海道南西沖 深度別応答スペクトル

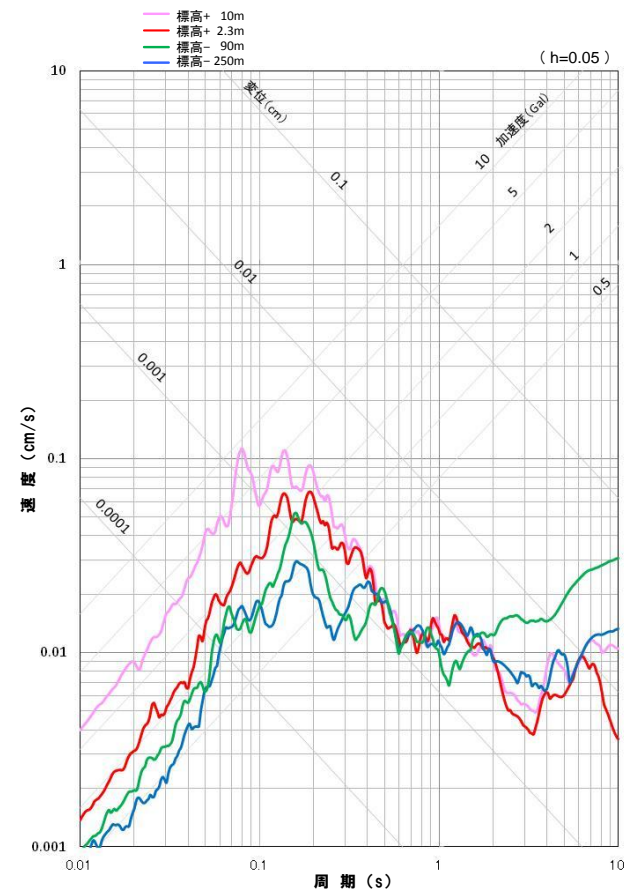
NS方向

EW方向

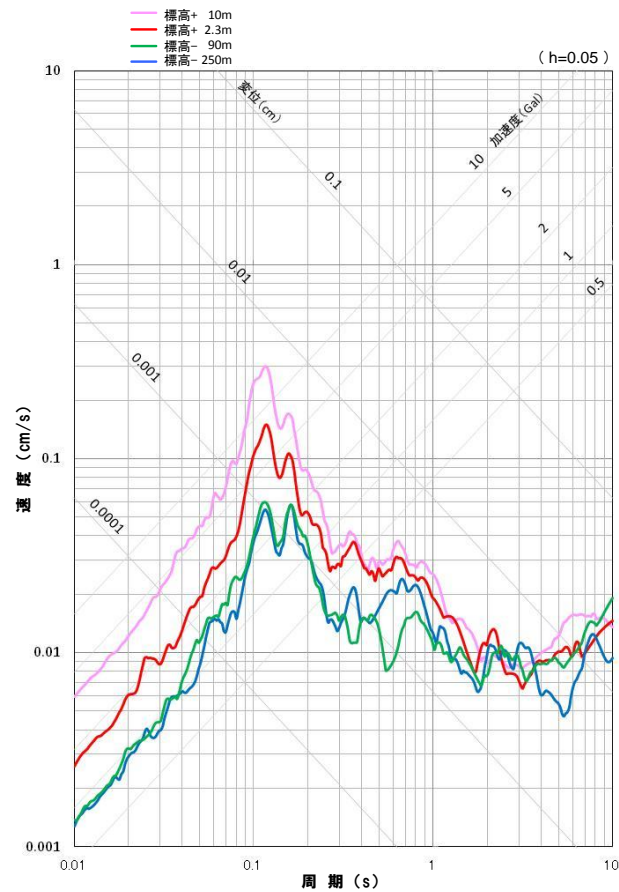
UD方向

標高
+10m標高
+2.3m標高
-90m標高
-250m

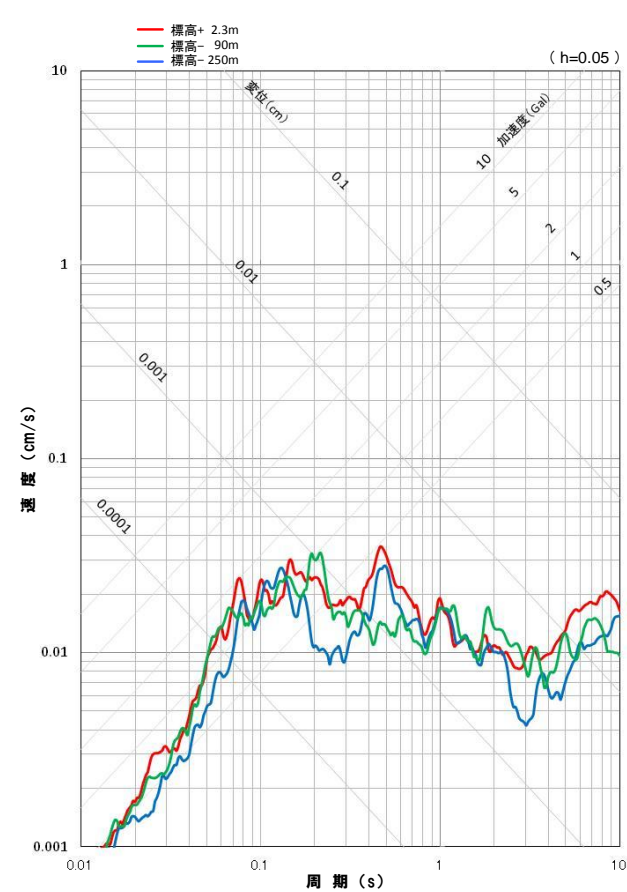
No.11 積丹半島北西沖 時刻歴波形



NS方向



EW方向



UD方向

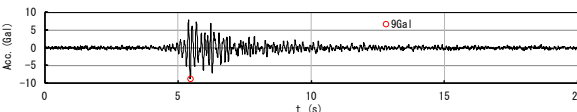
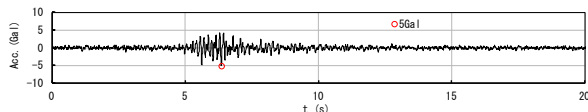
No.11 積丹半島北西沖 深度別応答スペクトル

NS方向

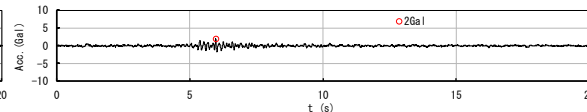
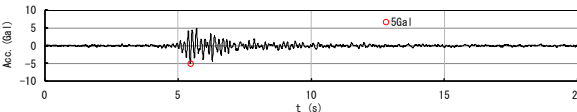
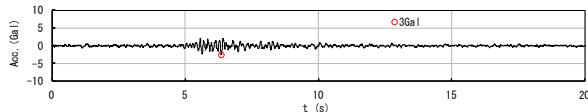
EW方向

UD方向

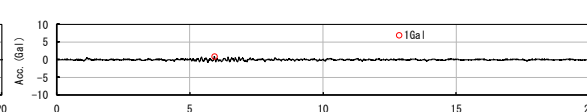
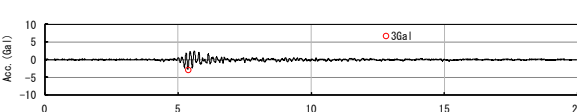
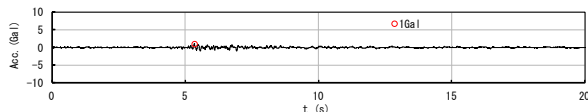
標高 +10m



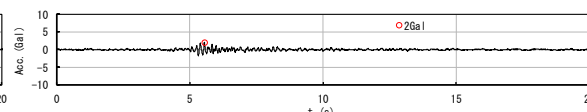
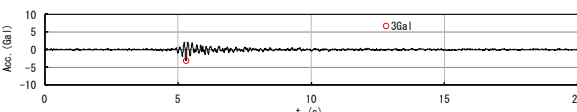
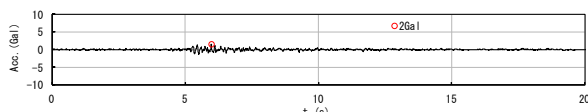
標高 +2.3m



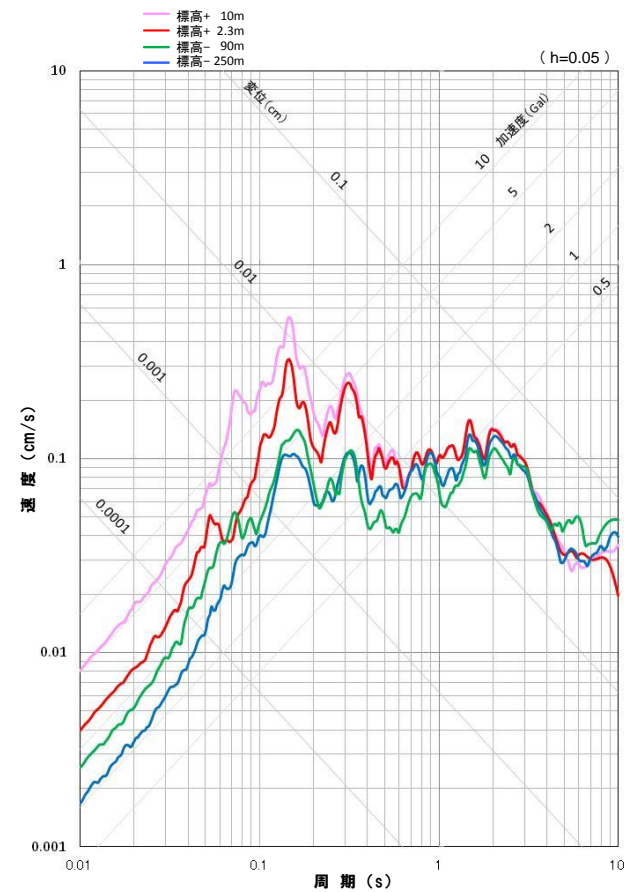
標高 -90m



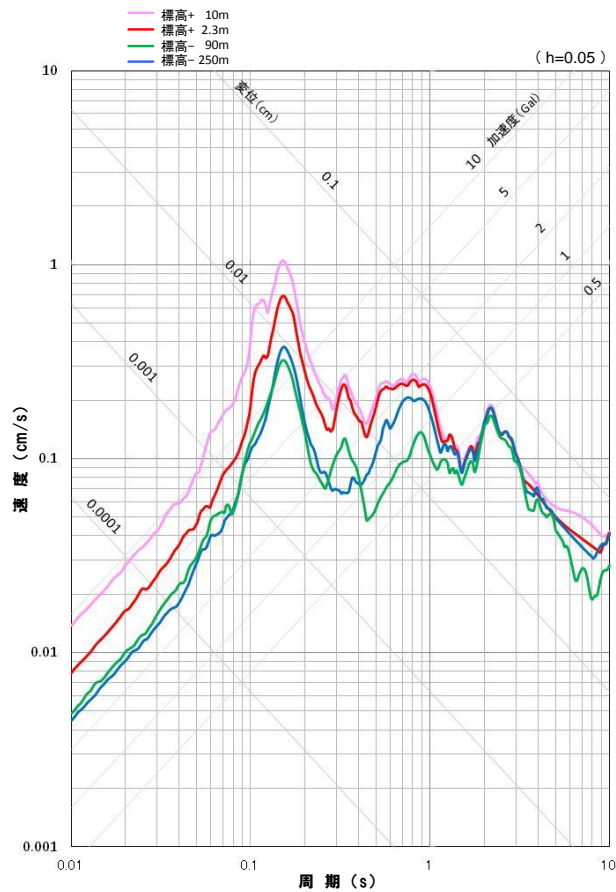
標高 -250m



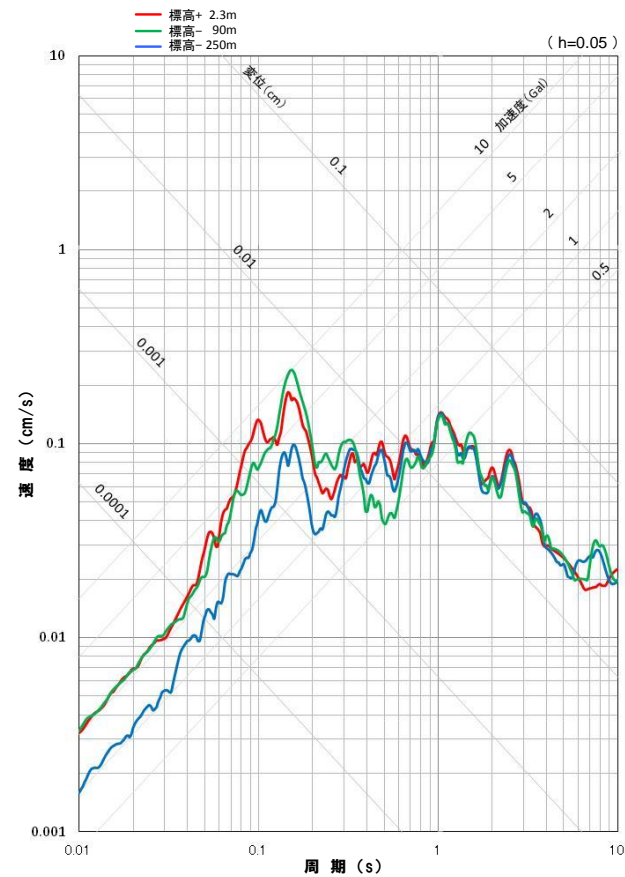
No.15 北海道南西沖 時刻歴波形



NS方向



EW方向



UD方向

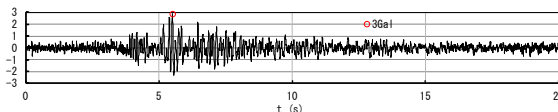
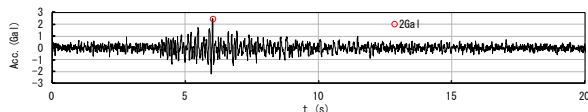
No.15 北海道南西沖 深度別応答スペクトル

NS方向

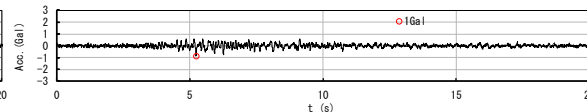
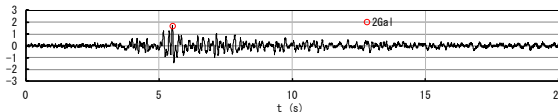
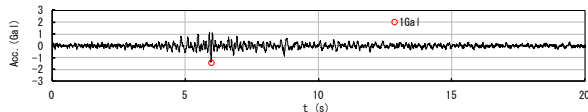
EW方向

UD方向

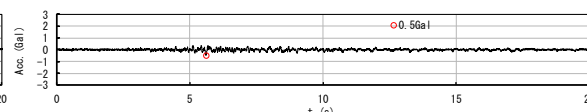
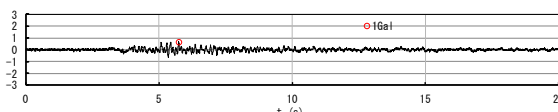
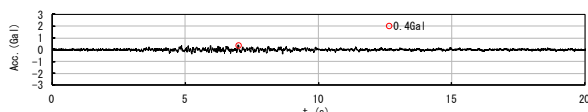
標高
+10m



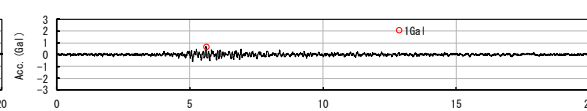
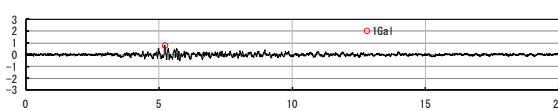
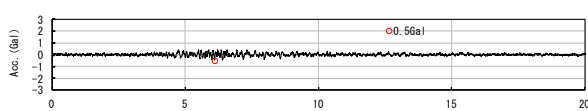
標高
+2.3m



標高
-90m

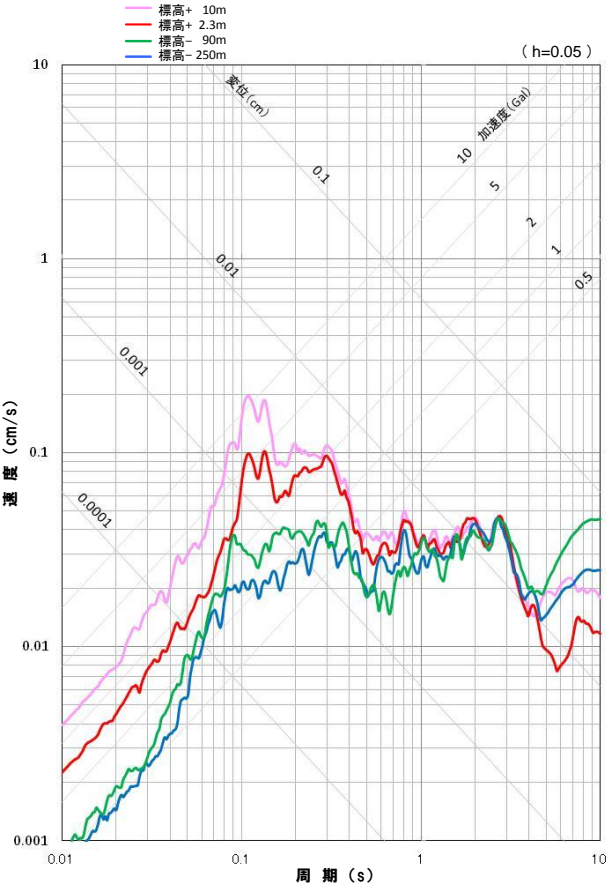


標高
-250m

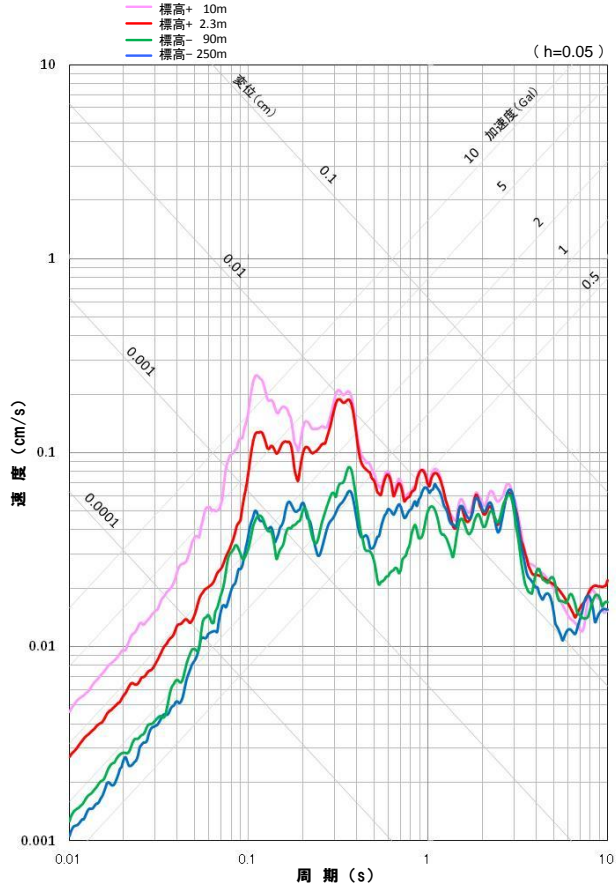


No.16 北海道南西沖 時刻歴波形

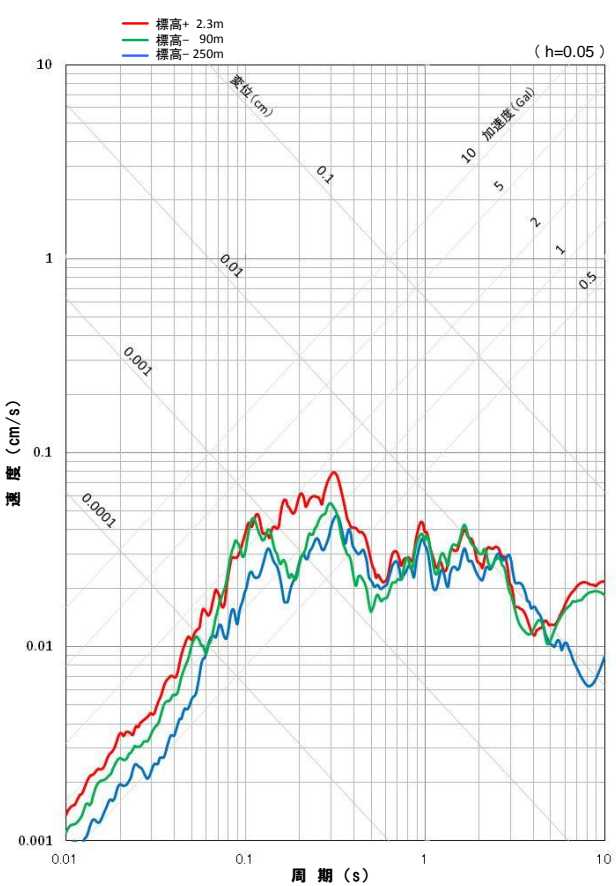
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



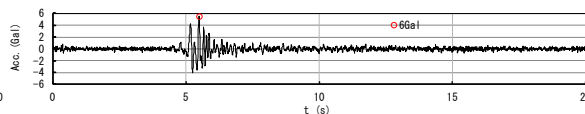
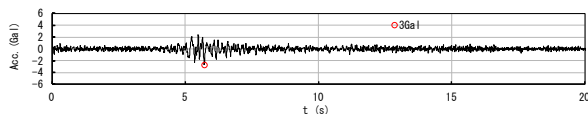
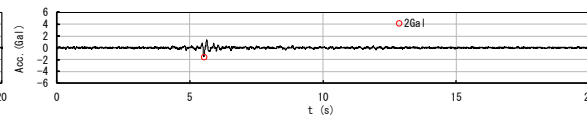
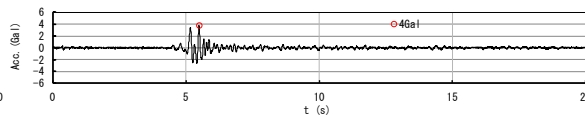
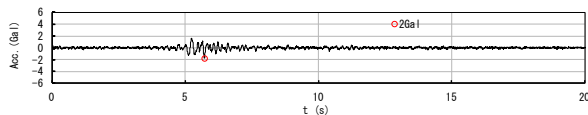
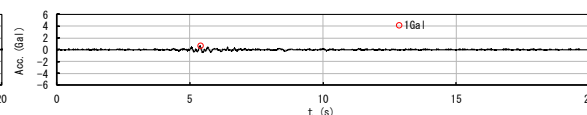
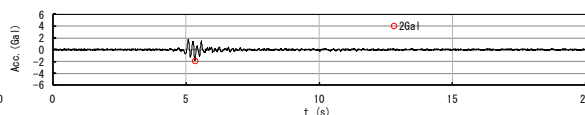
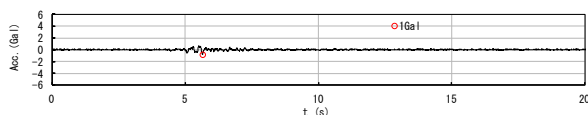
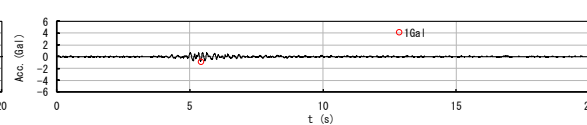
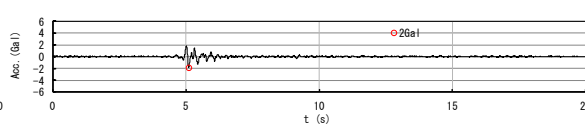
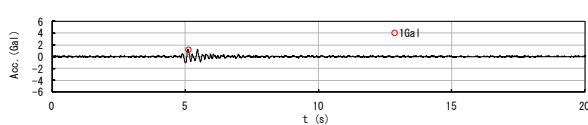
UD方向

No.16 北海道南西沖 深度別応答スペクトル

NS方向

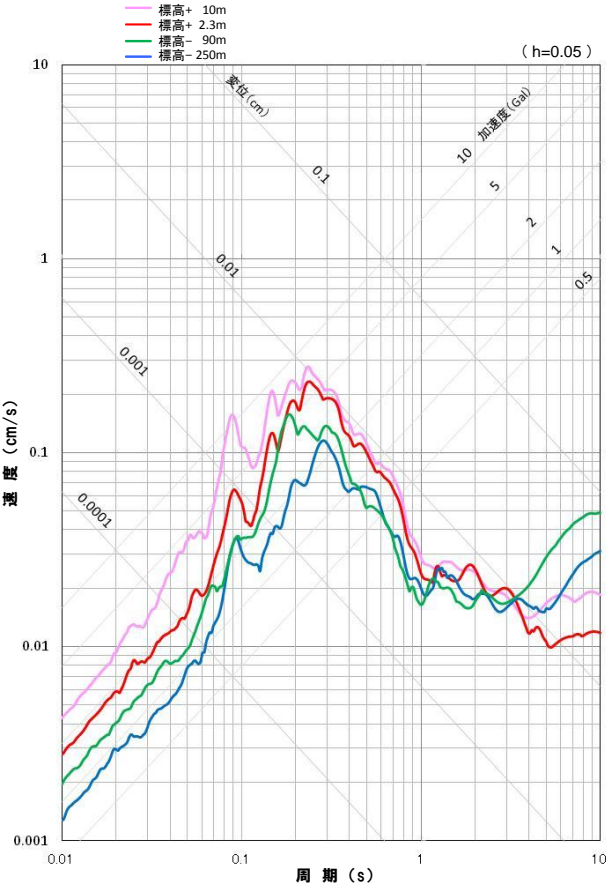
EW方向

UD方向

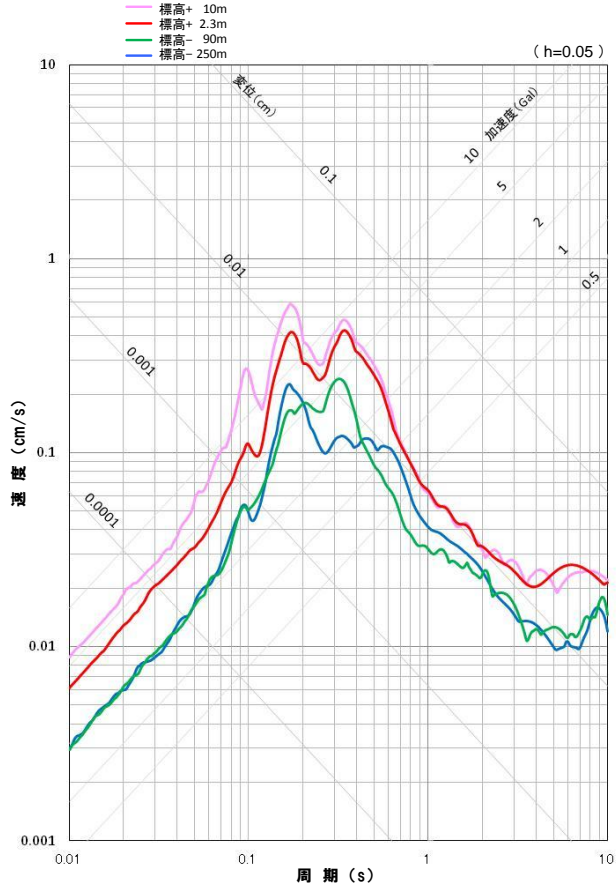
標高
+10m標高
+2.3m標高
-90m標高
-250m

No.21 積丹半島北西沖 時刻歴波形

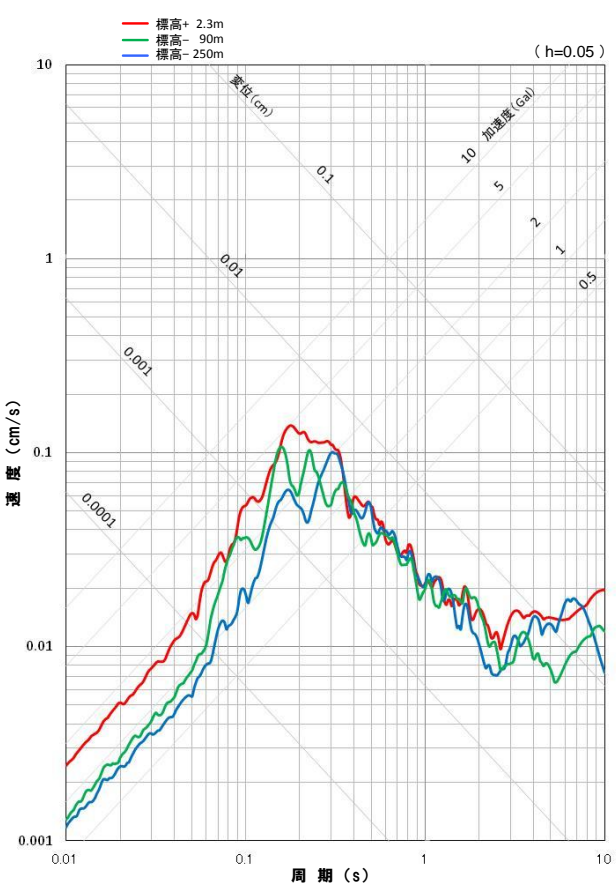
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



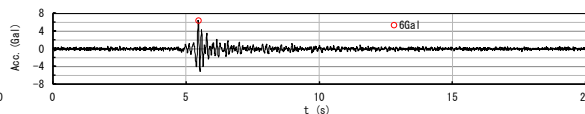
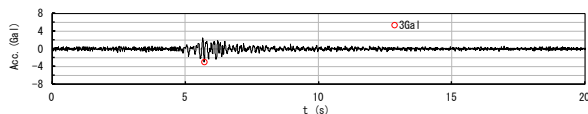
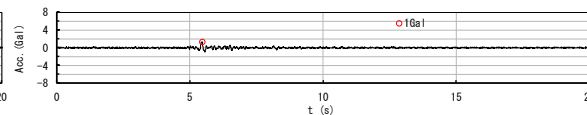
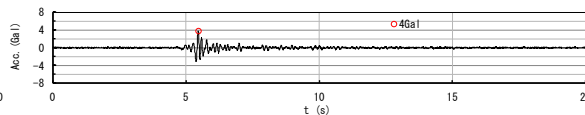
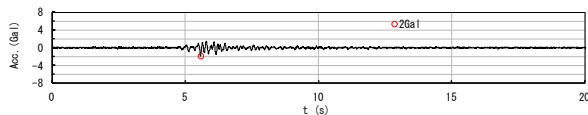
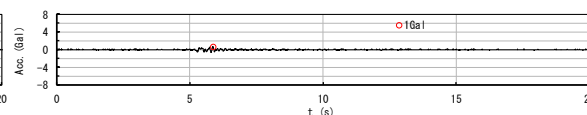
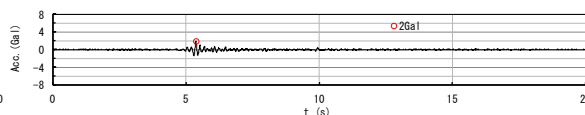
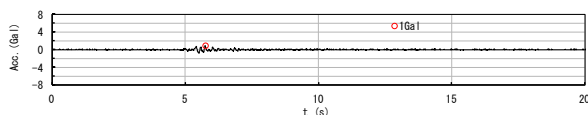
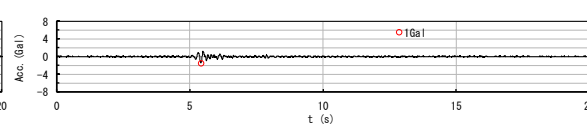
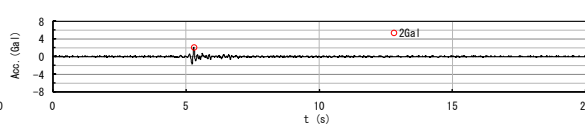
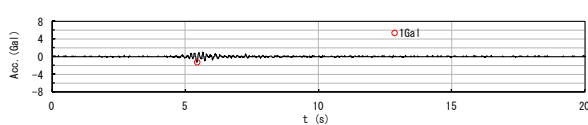
UD方向

No.21 積丹半島北西沖 深度別応答スペクトル

NS方向

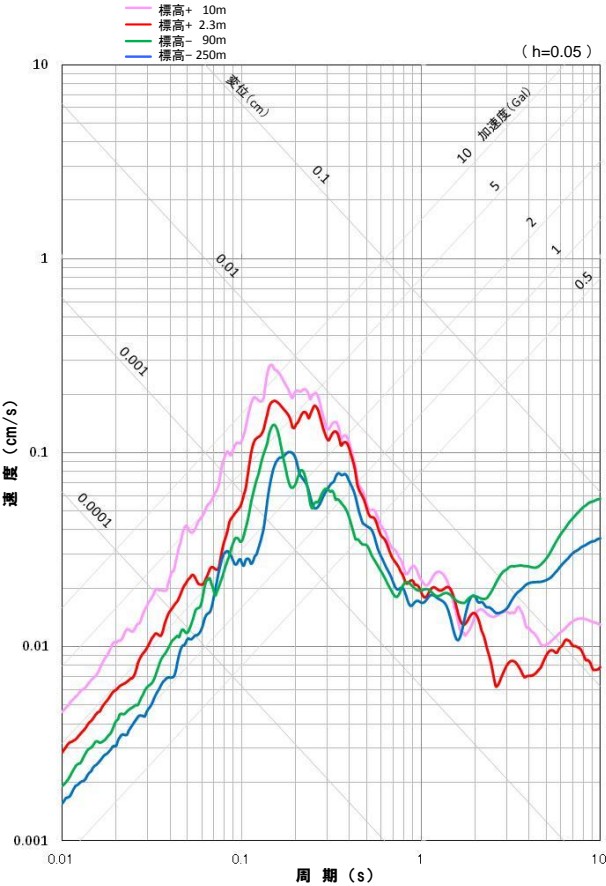
EW方向

UD方向

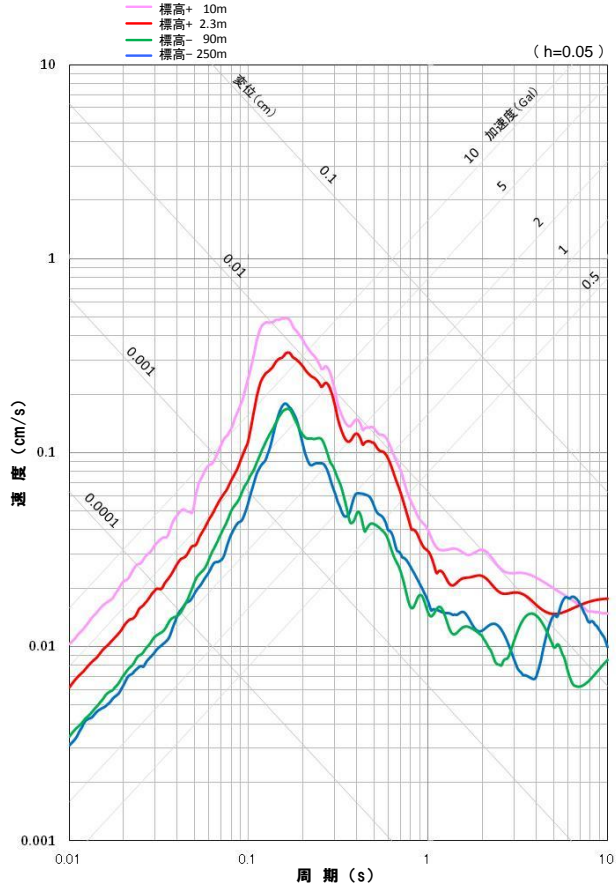
標高
+10m標高
+2.3m標高
-90m標高
-250m

No.25 積丹半島北西沖 時刻歴波形

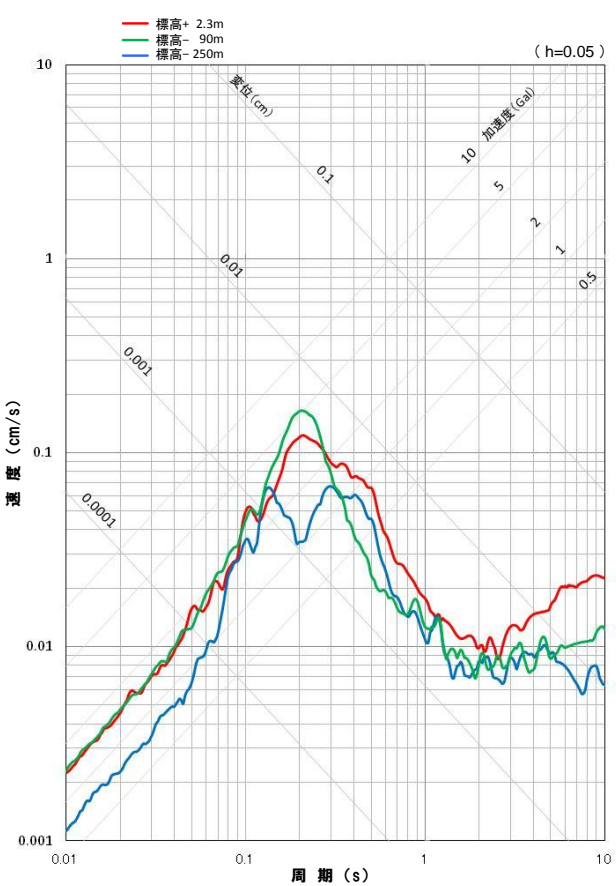
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



UD方向

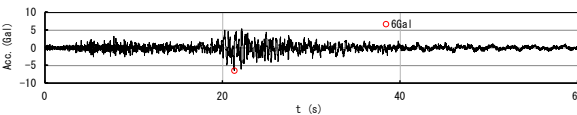
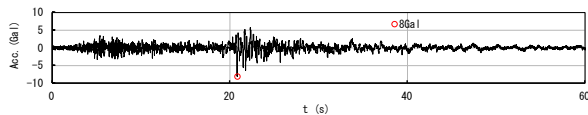
No.25 積丹半島北西沖 深度別応答スペクトル

NS方向

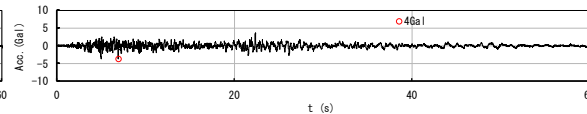
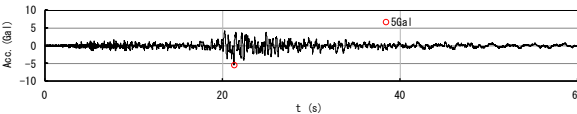
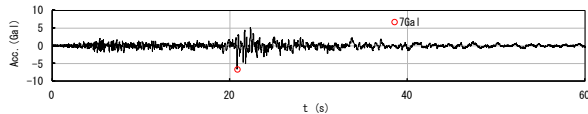
EW方向

UD方向

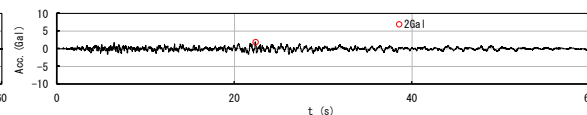
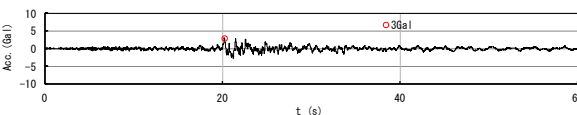
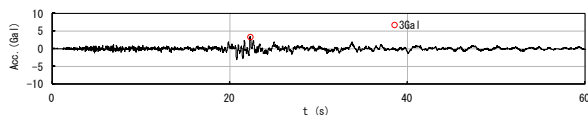
標高 +10m



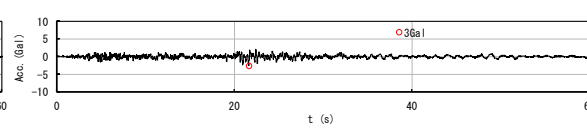
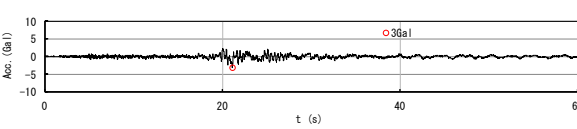
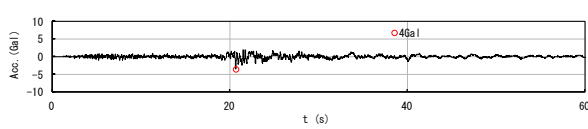
標高 +2.3m



標高 -90m

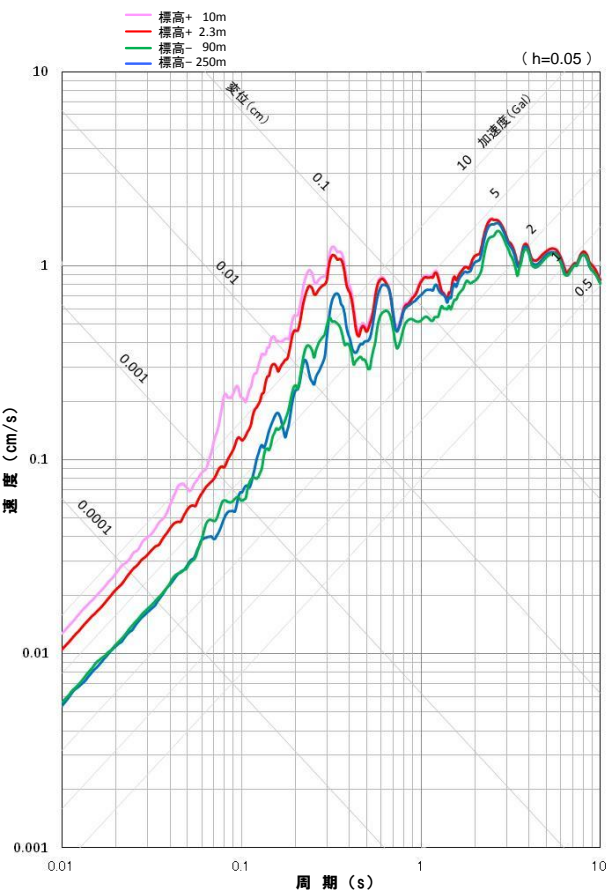


標高 -250m

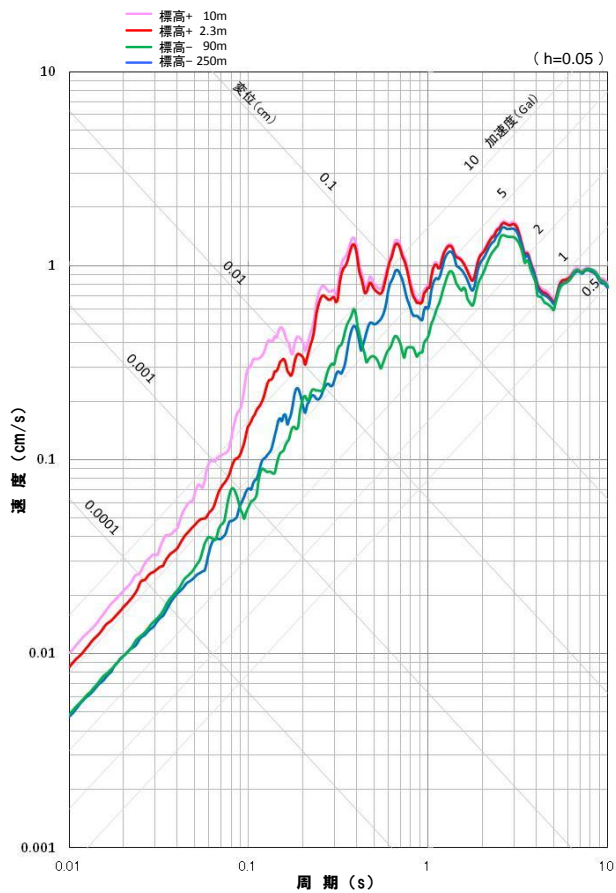


No.28 1993年北海道南西沖地震最大余震 時刻歴波形

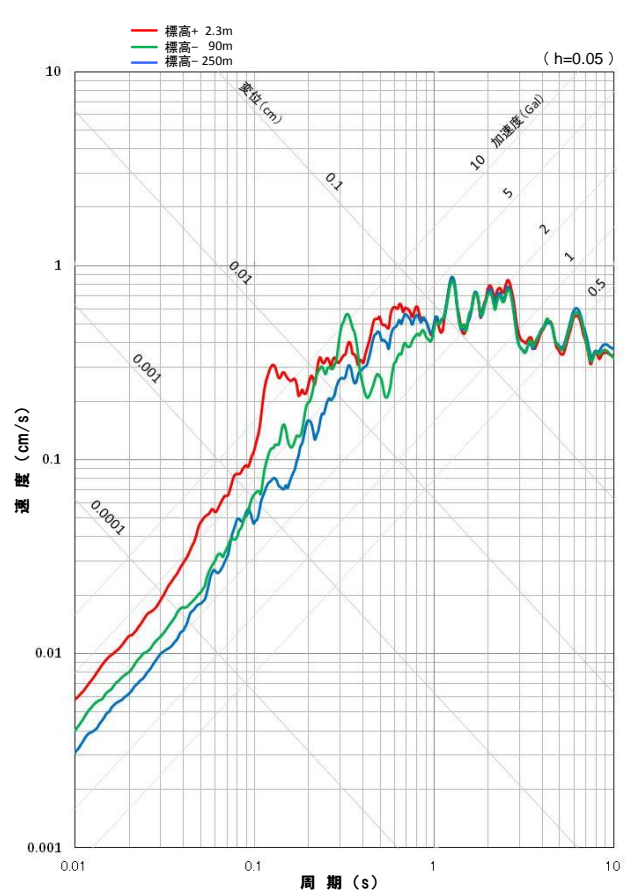
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



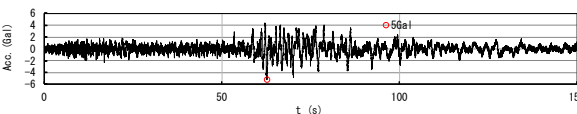
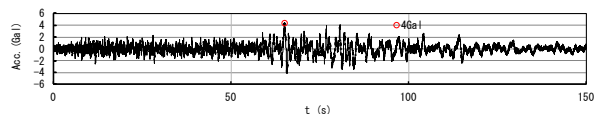
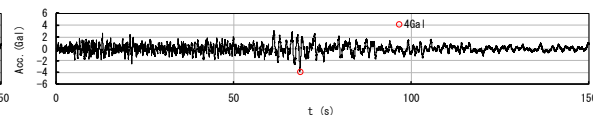
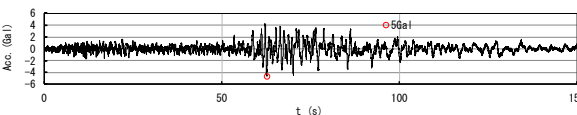
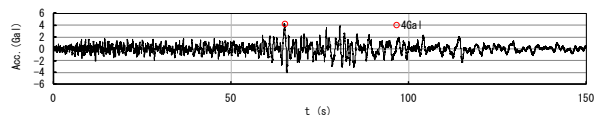
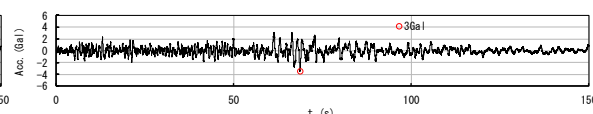
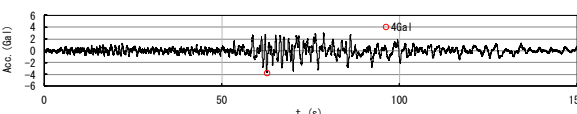
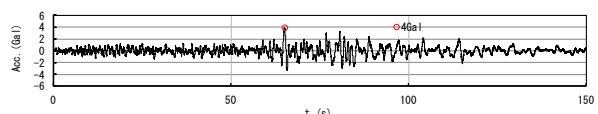
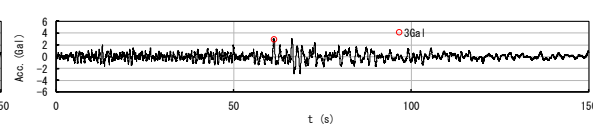
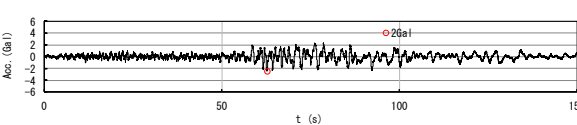
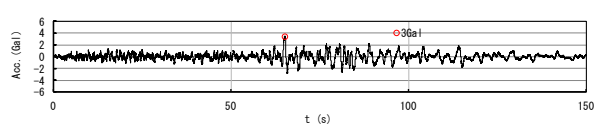
UD方向

No.28 1993年北海道南西沖地震最大余震 深度別応答スペクトル

NS方向

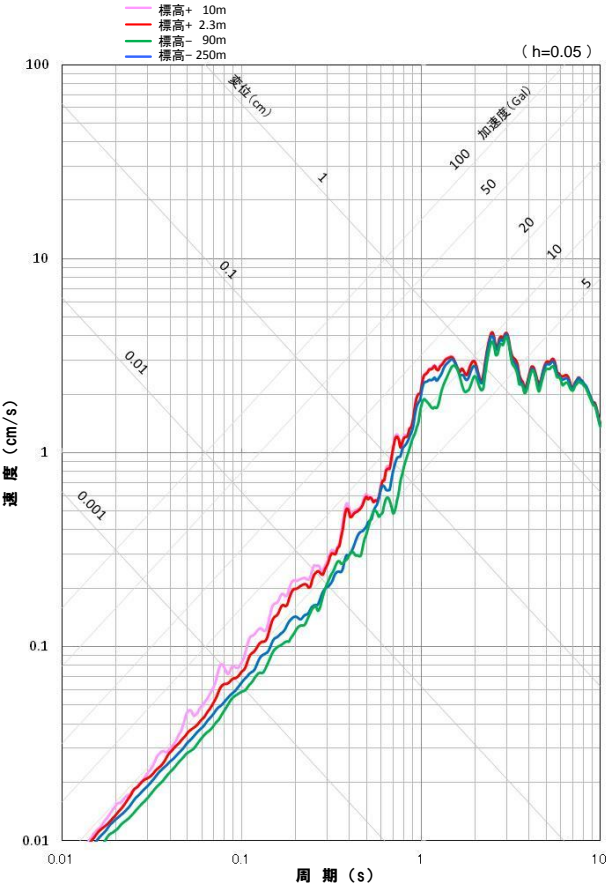
EW方向

UD方向

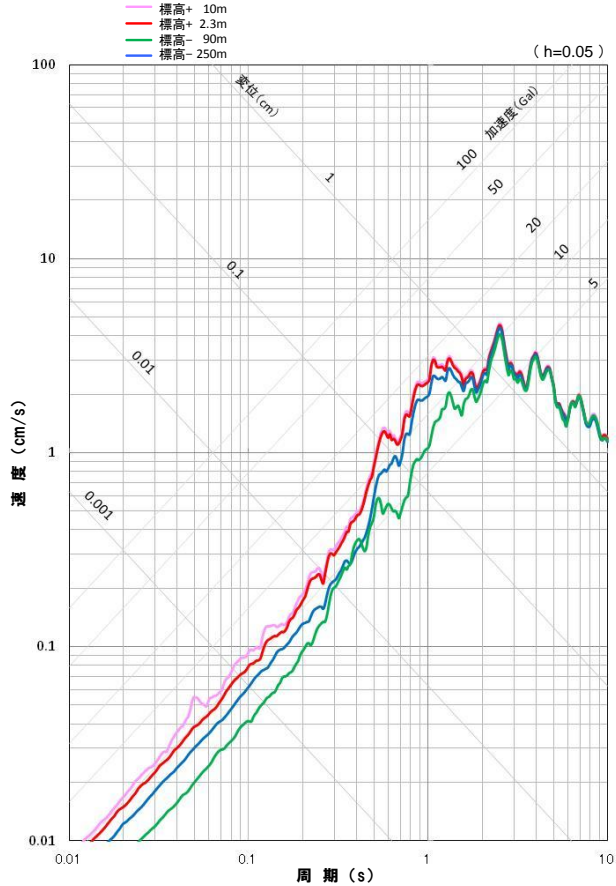
標高
+10m標高
+2.3m標高
-90m標高
-250m

No.29 1994年北海道東方沖地震 時刻歴波形

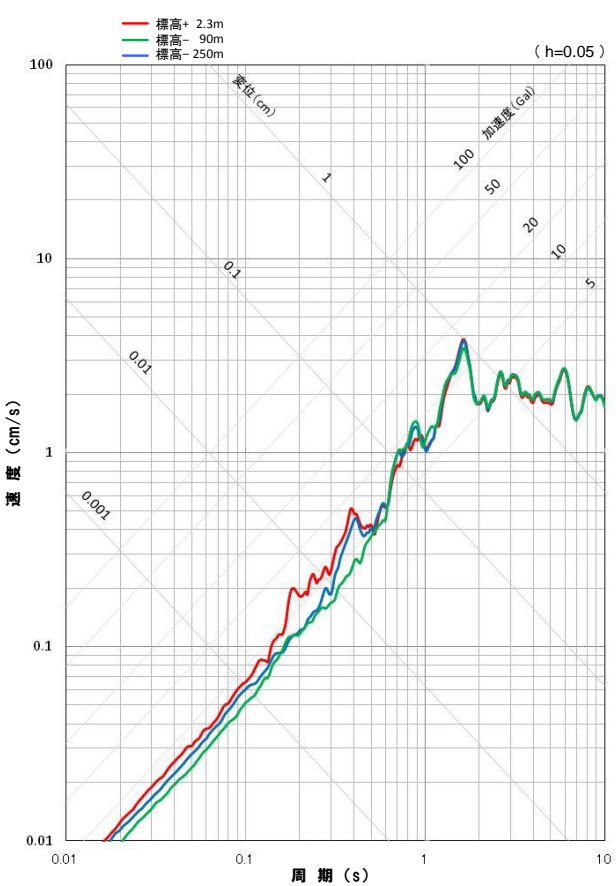
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



UD方向

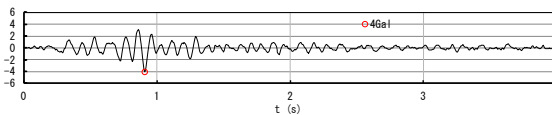
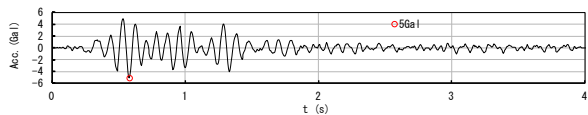
地震観測記録(1, 2号炉観測点)

NS方向

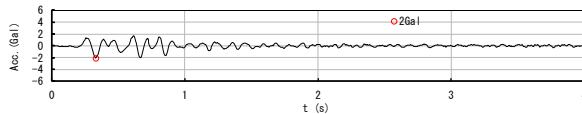
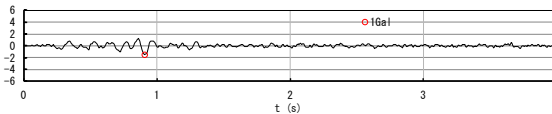
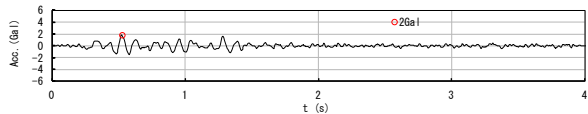
EW方向

UD方向

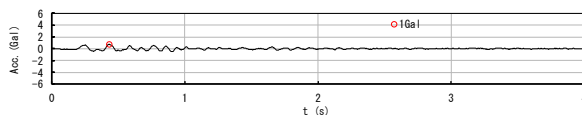
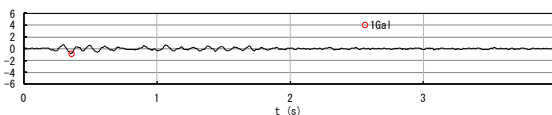
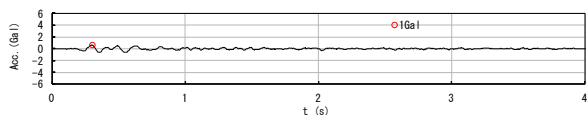
標高 +10m



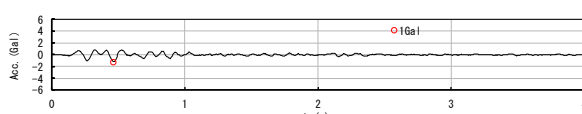
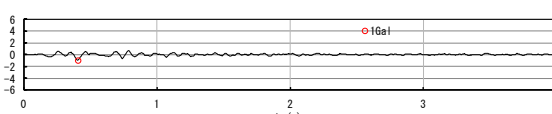
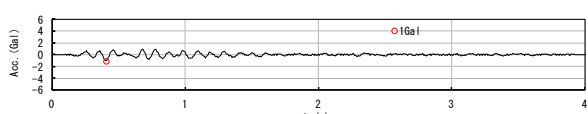
標高 +2.3m



標高 -90m

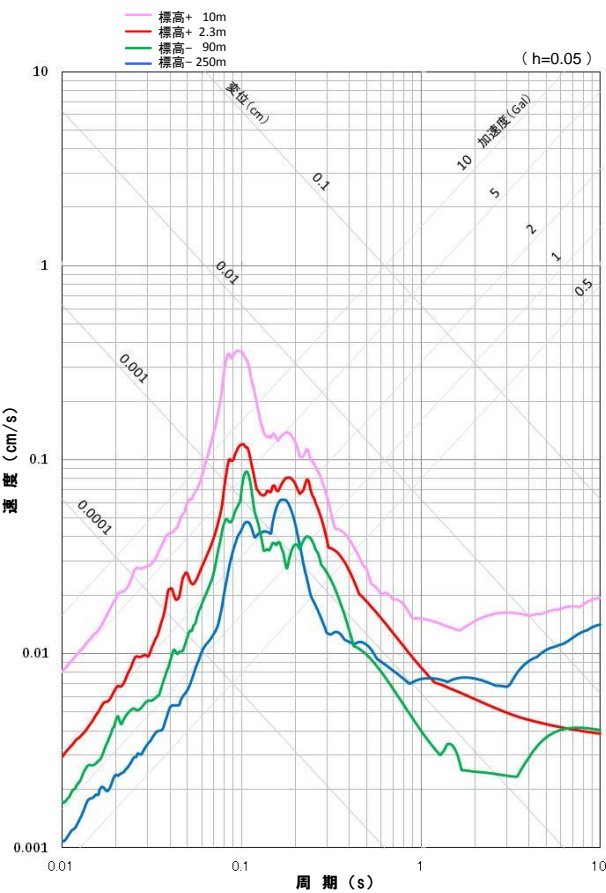


標高 -250m

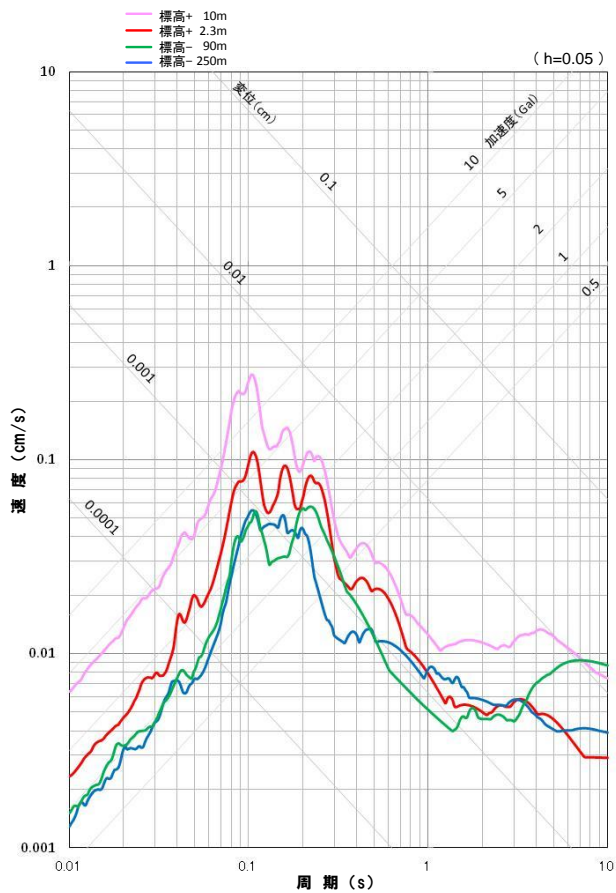


No.30 1999年積丹半島北西沖 時刻歴波形

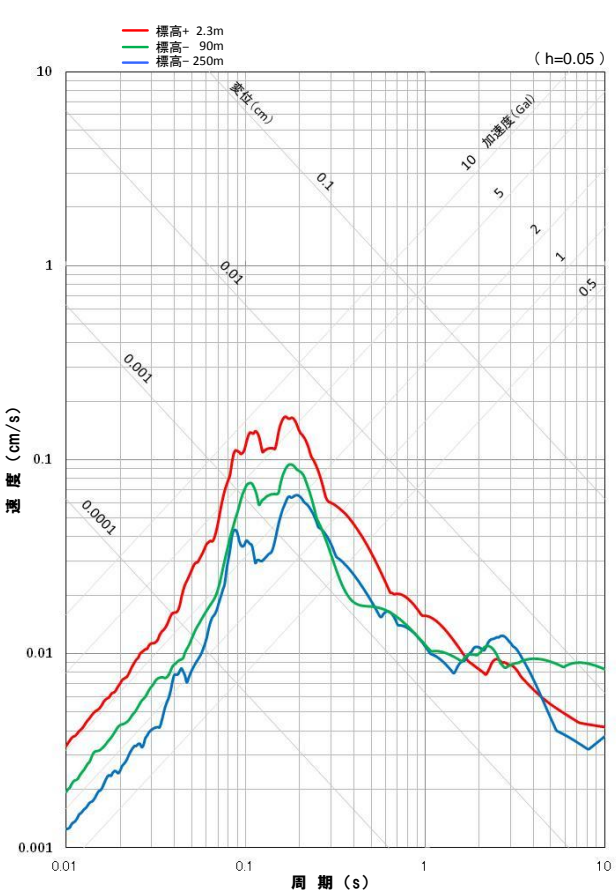
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



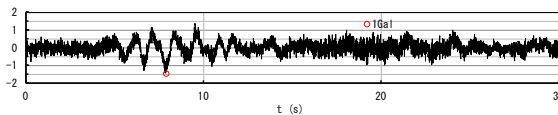
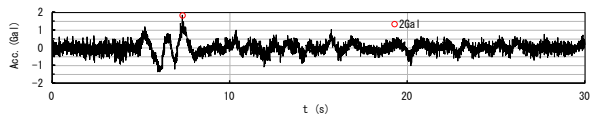
UD方向

NS方向

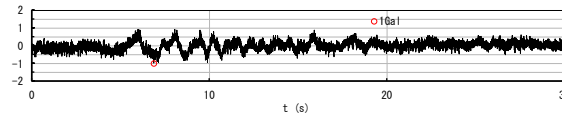
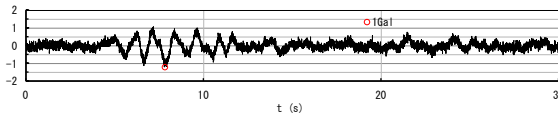
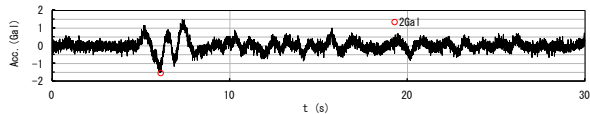
EW方向

UD方向

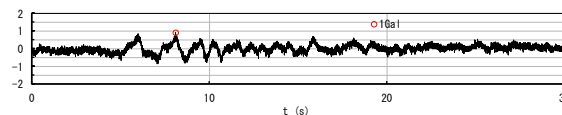
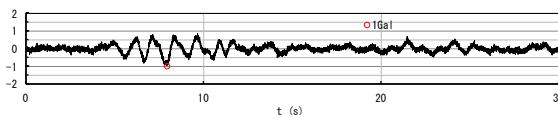
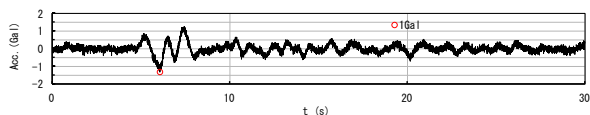
標高 +10m



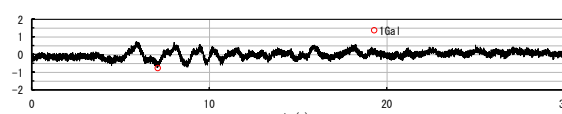
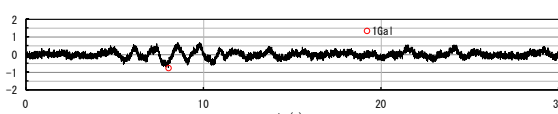
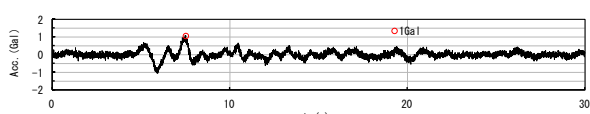
標高 +2.3m



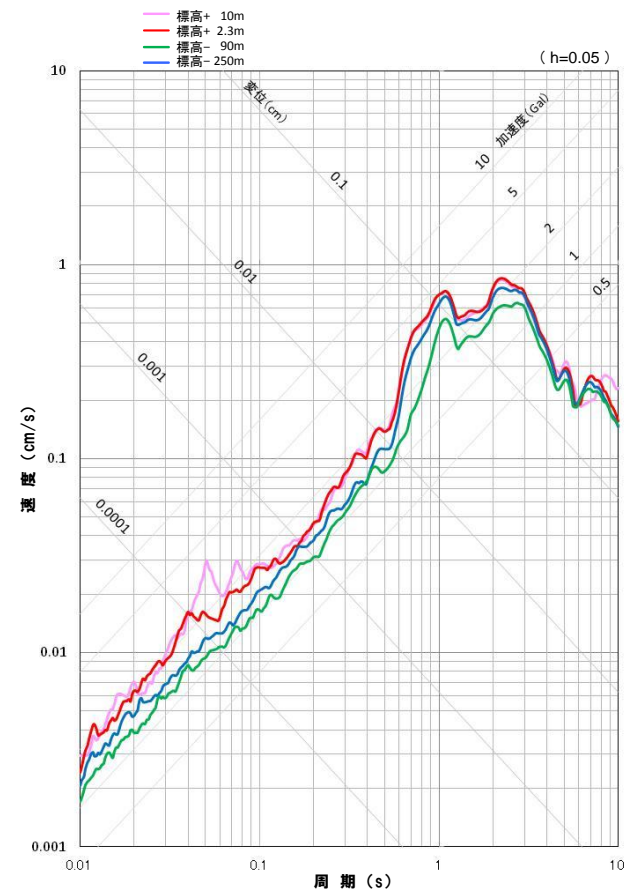
標高 -90m



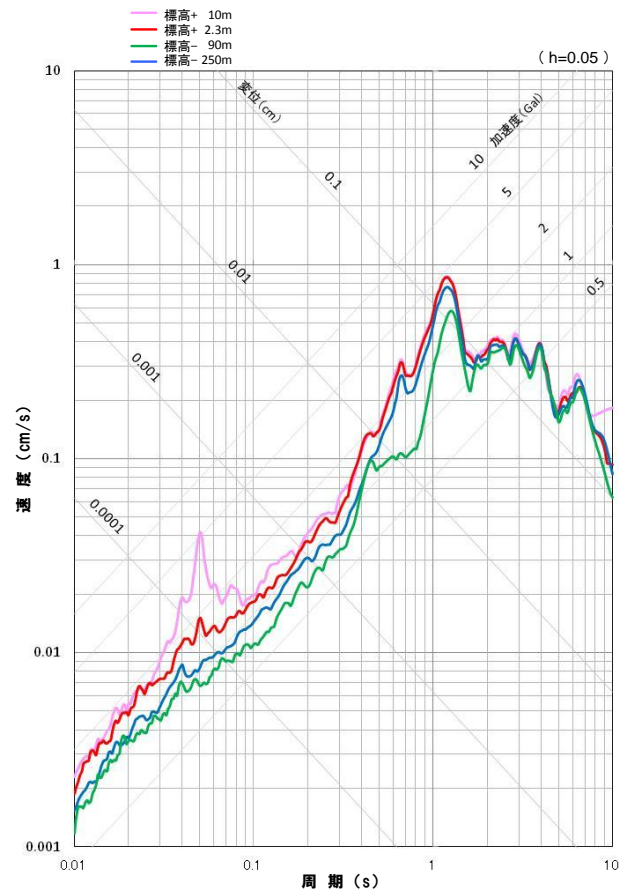
標高 -250m



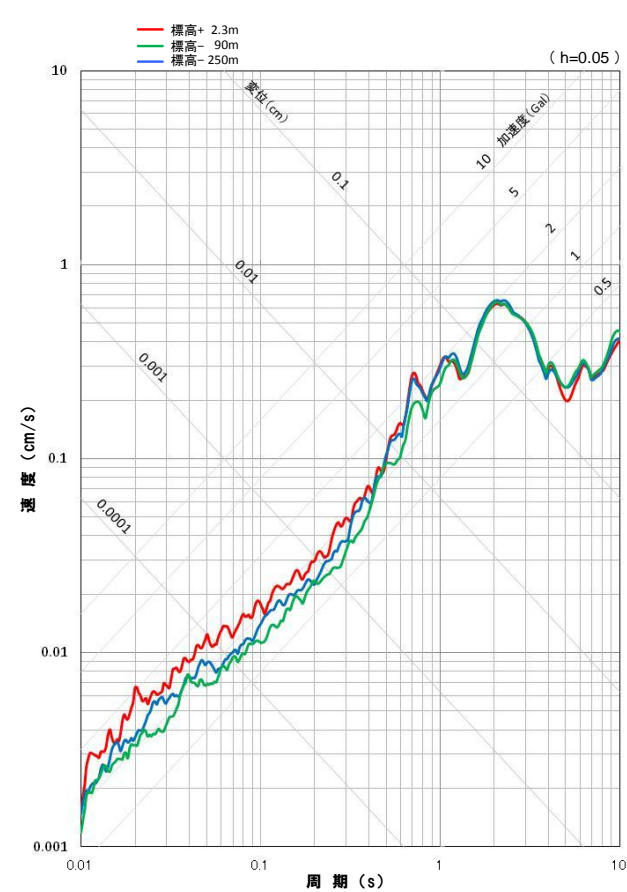
No.31 根室半島沖 時刻歴波形



NS方向



EW方向



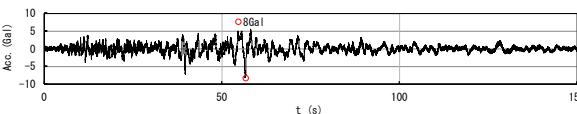
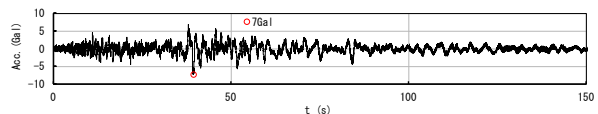
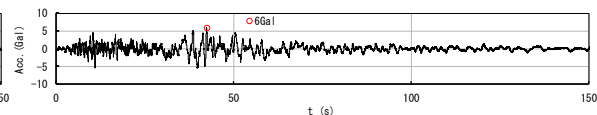
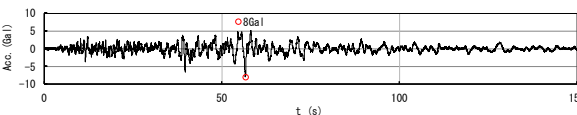
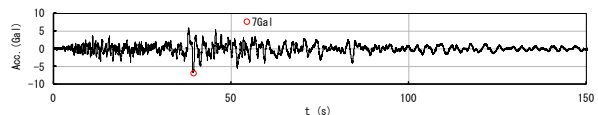
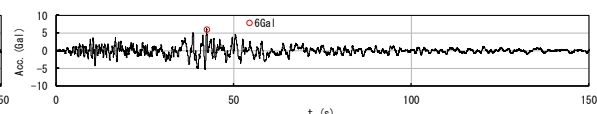
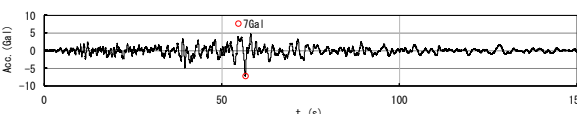
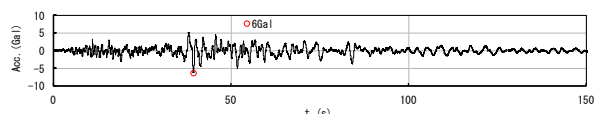
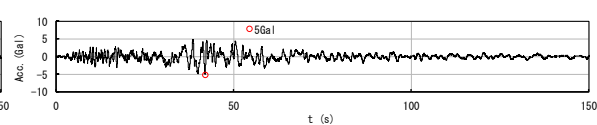
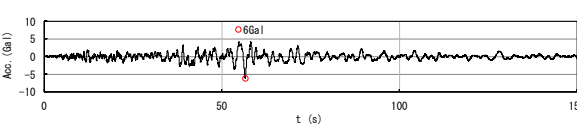
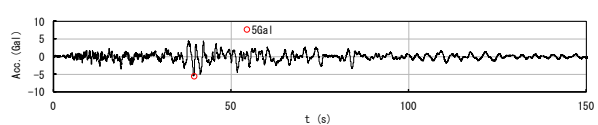
UD方向

No.31 根室半島沖 深度別応答スペクトル

NS方向

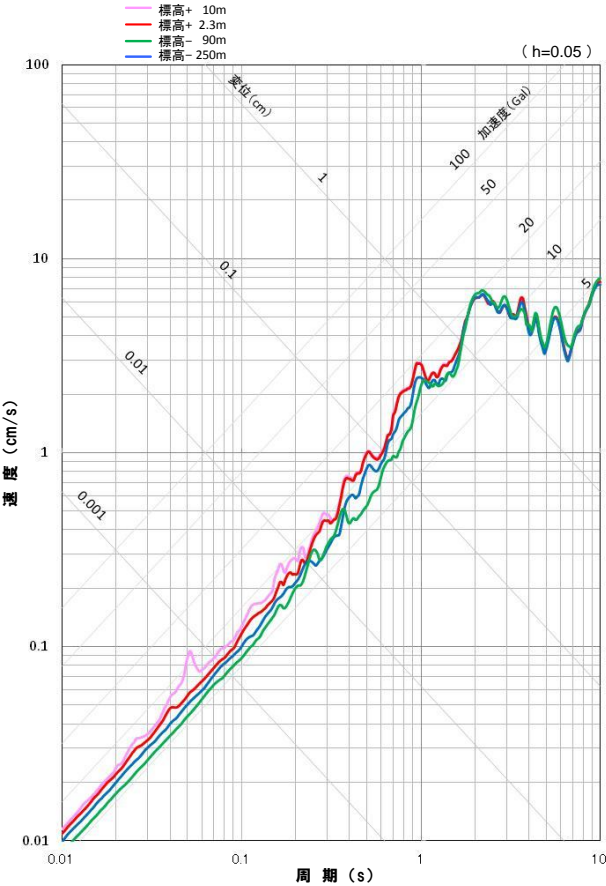
EW方向

UD方向

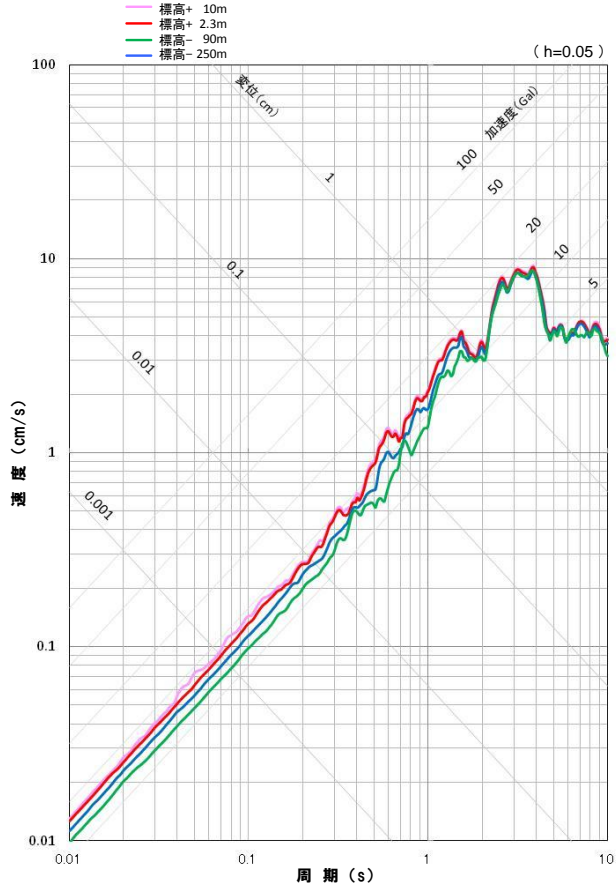
標高
+10m標高
+2.3m標高
-90m標高
-250m

No.34 2003年十勝沖地震 時刻歴波形

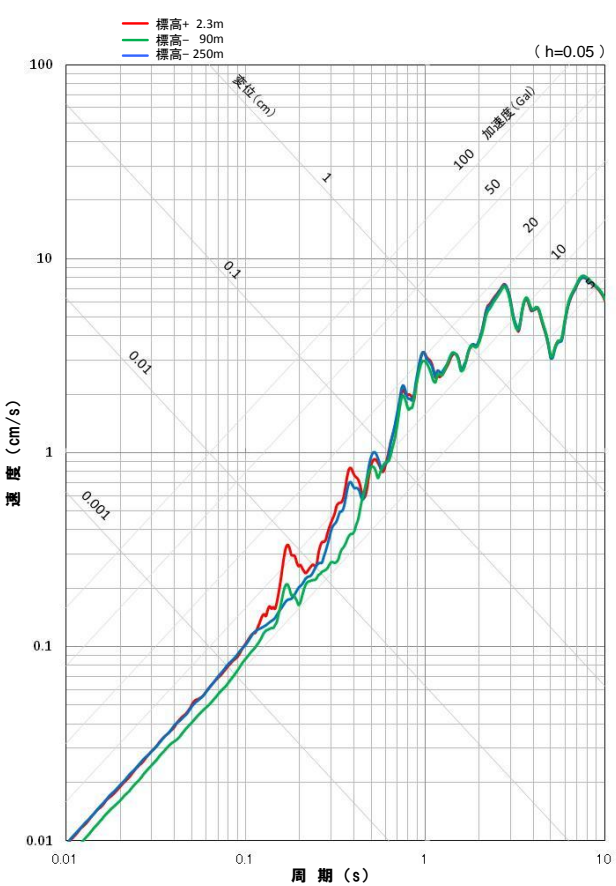
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



UD方向

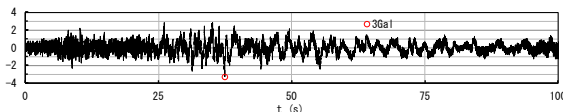
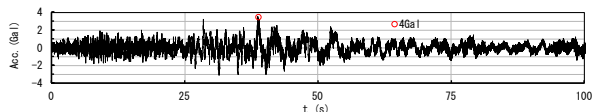
地震観測記録(1, 2号炉観測点)

NS方向

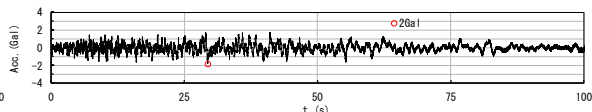
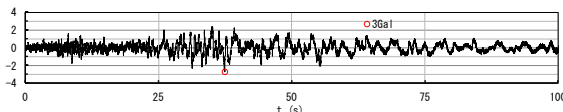
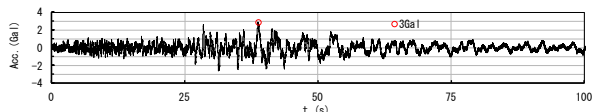
EW方向

UD方向

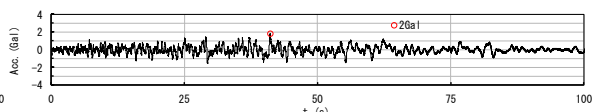
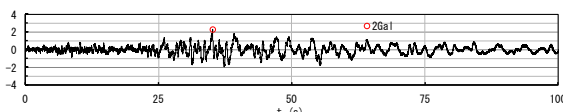
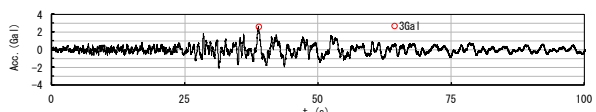
標高 +10m



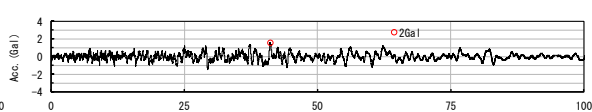
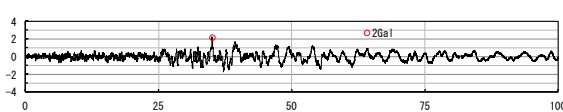
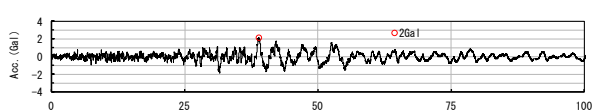
標高 +2.3m



標高 -90m

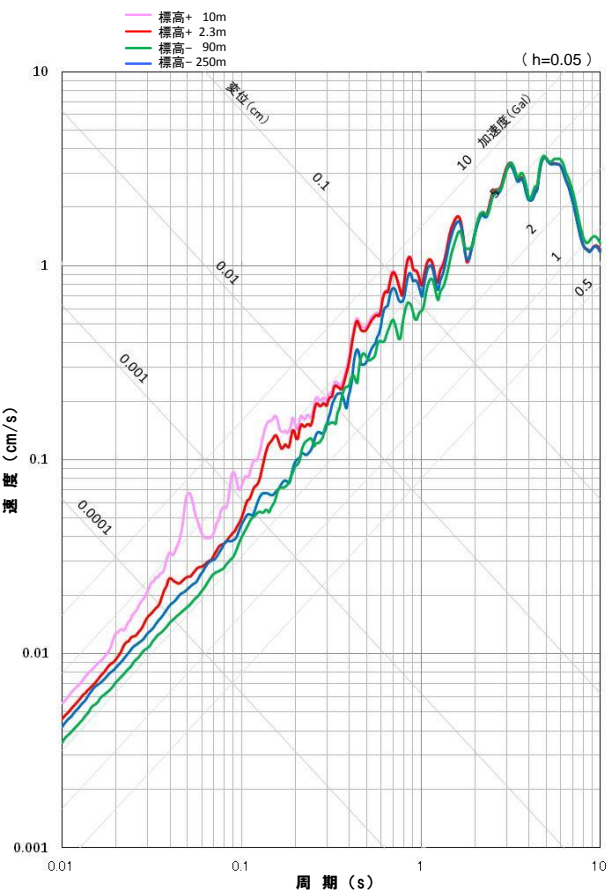


標高 -250m

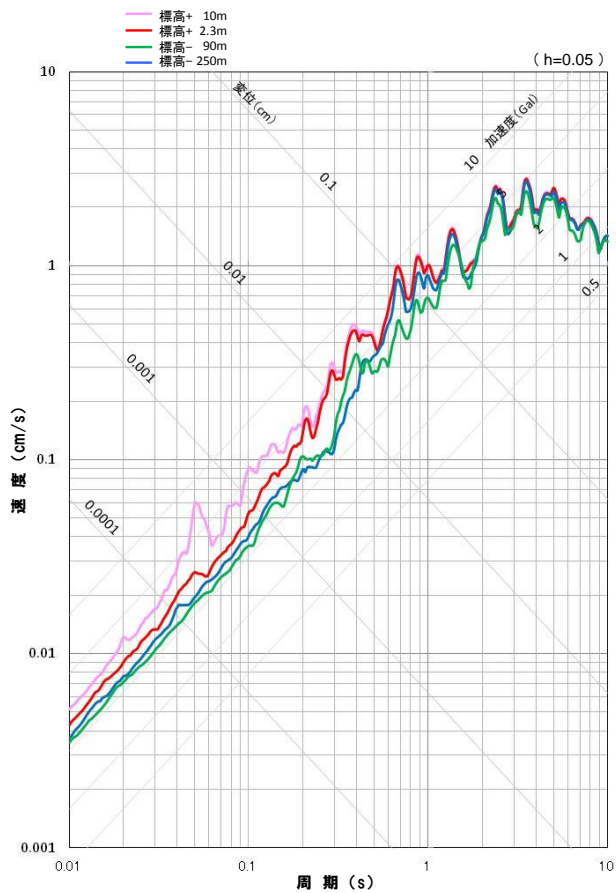


No.35 十勝沖 時刻歴波形

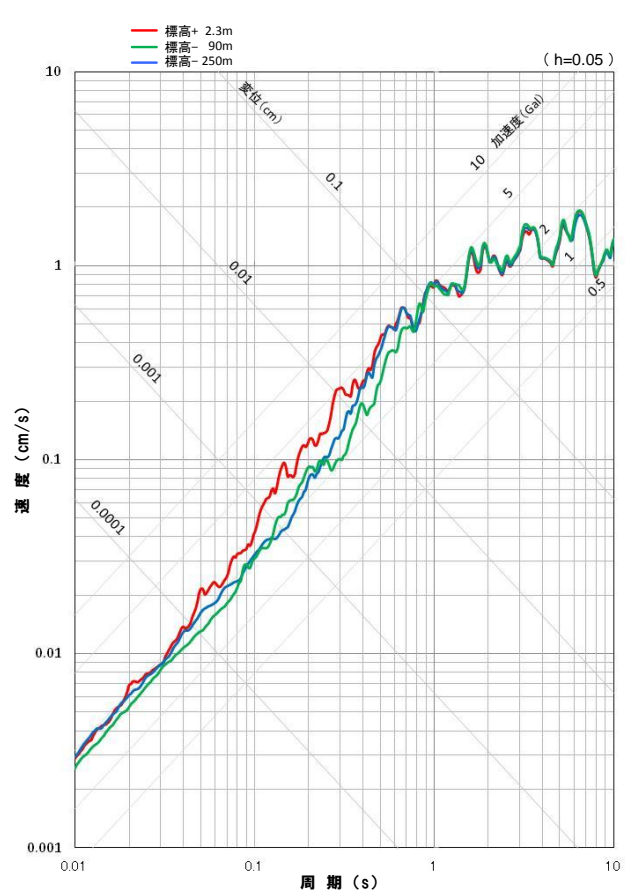
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



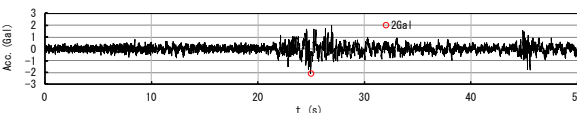
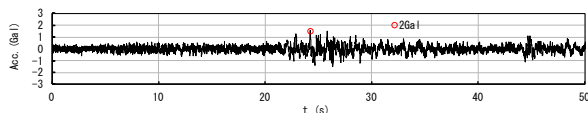
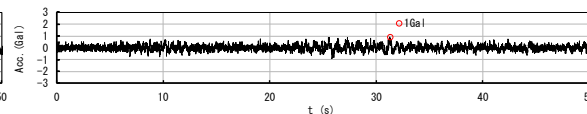
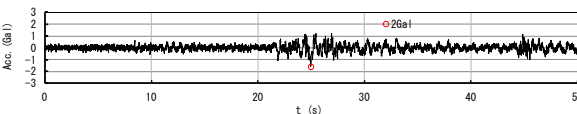
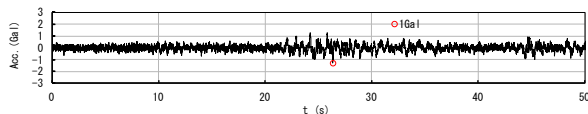
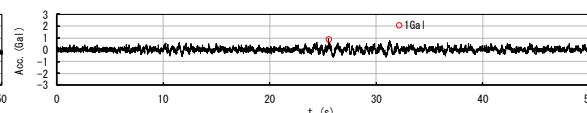
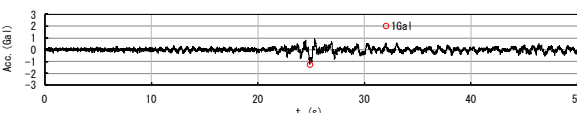
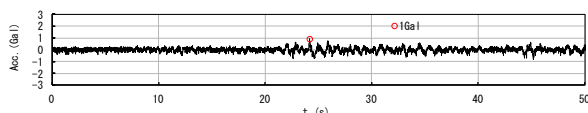
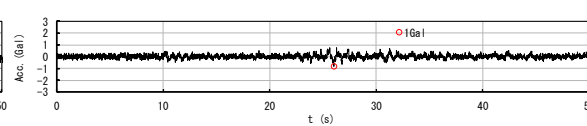
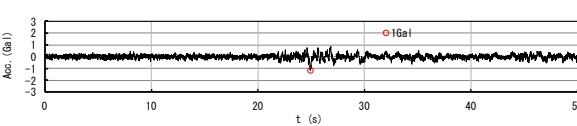
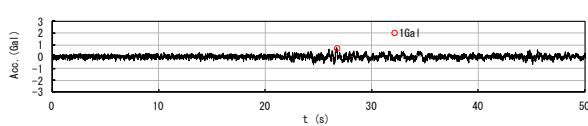
UD方向

No.35 十勝沖 深度別応答スペクトル

NS方向

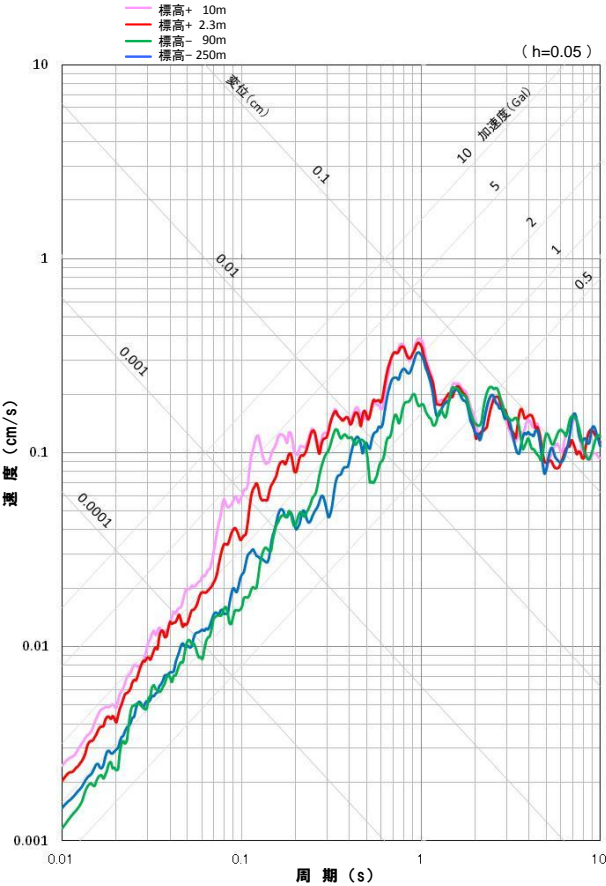
EW方向

UD方向

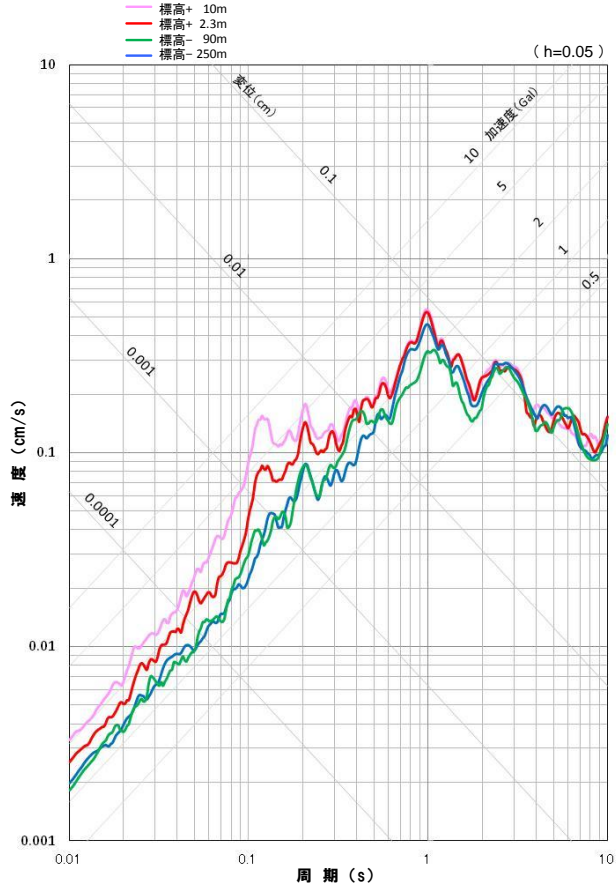
標高
+10m標高
+2.3m標高
-90m標高
-250m

No.39 留萌支庁南部 時刻歴波形

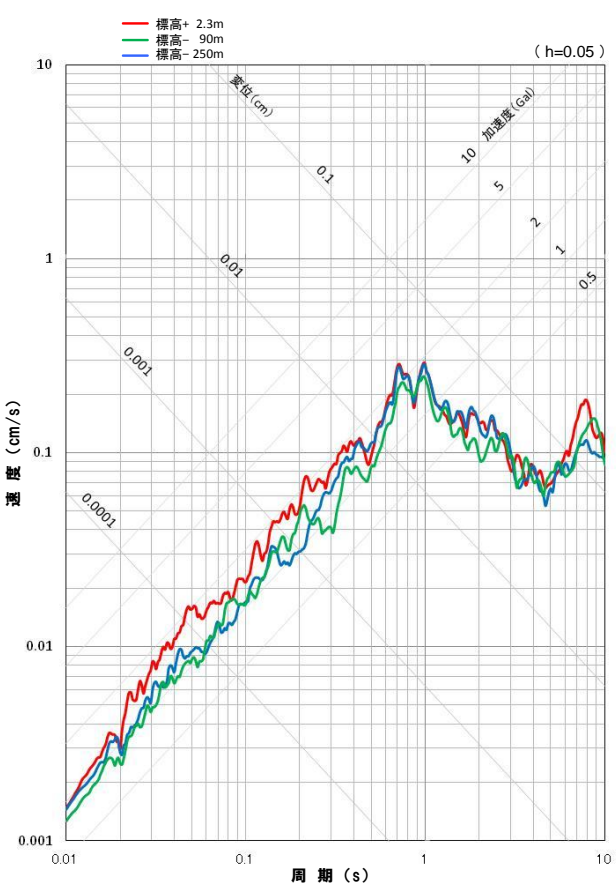
地震観測記録(1, 2号炉観測点)



NS方向



EW方向



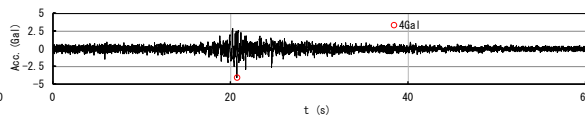
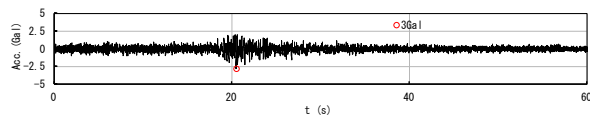
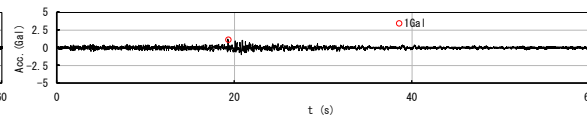
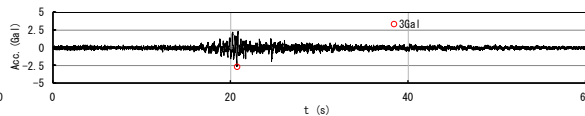
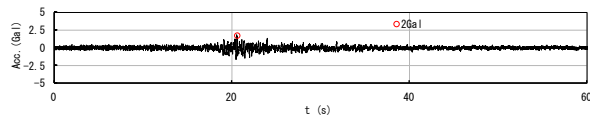
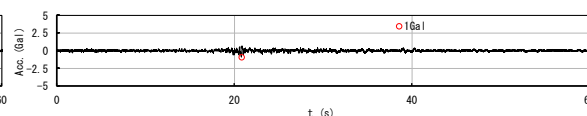
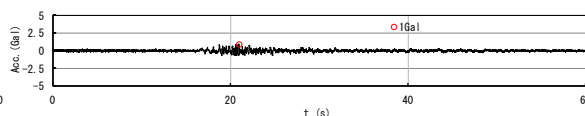
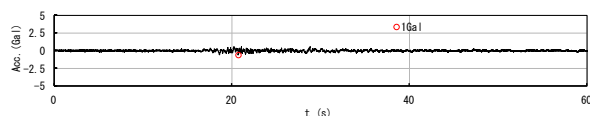
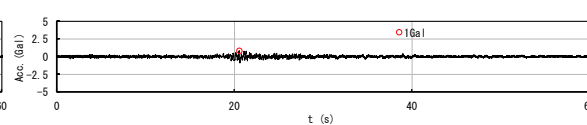
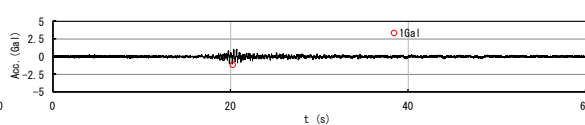
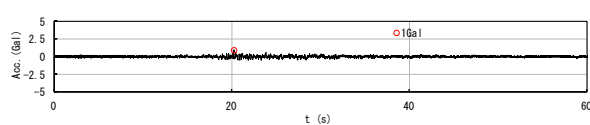
UD方向

No.39 留萌支庁南部 深度別応答スペクトル

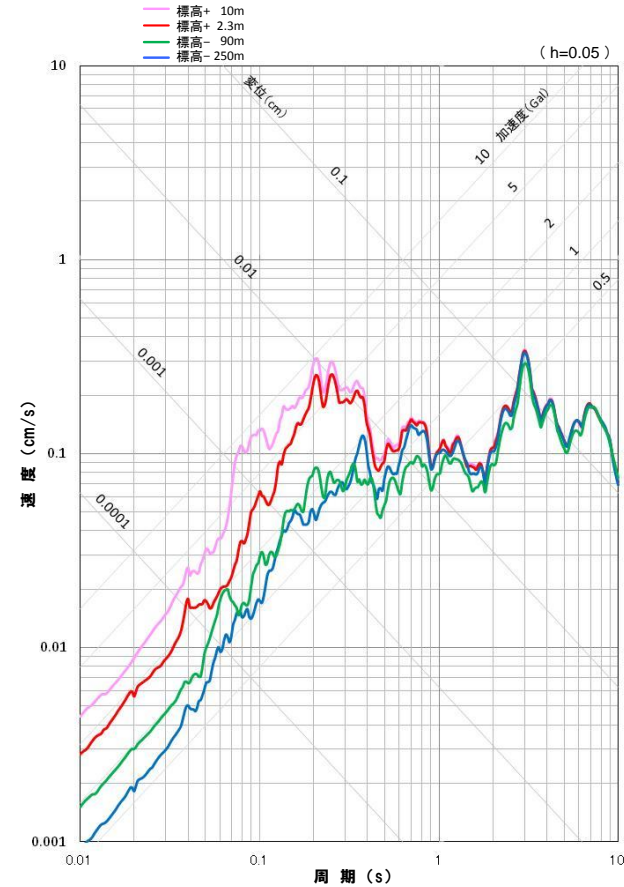
NS方向

EW方向

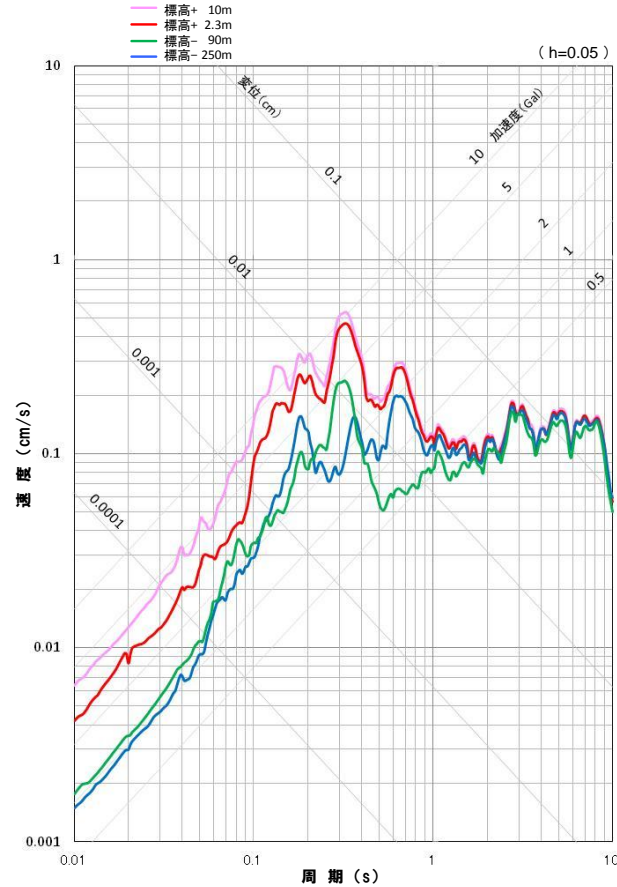
UD方向

標高
+10m標高
+2.3m標高
-90m標高
-250m

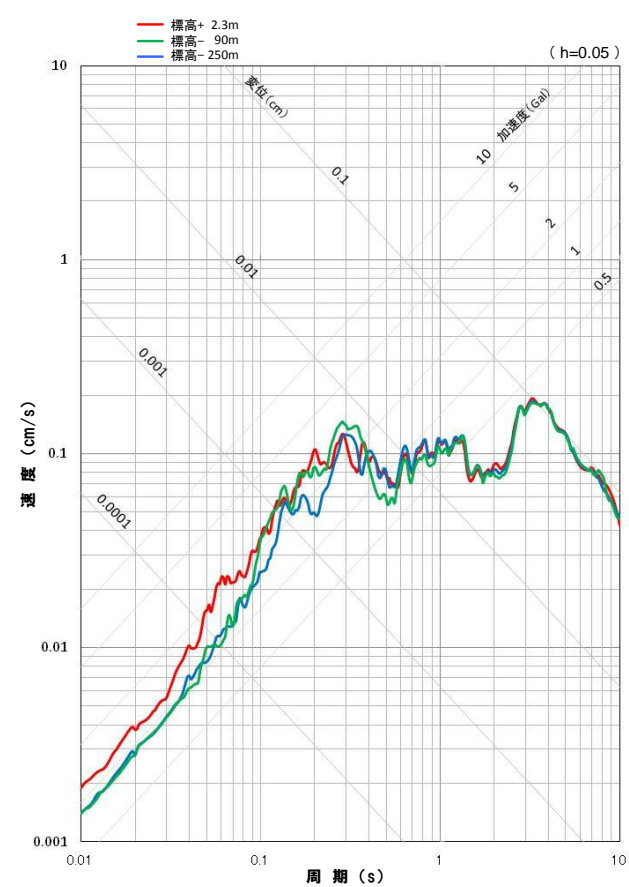
No.43 北海道南西沖 時刻歴波形



NS方向



EW方向



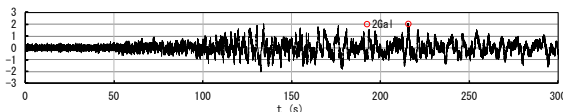
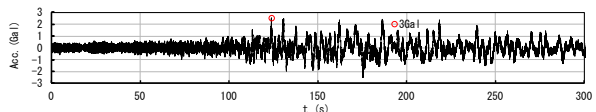
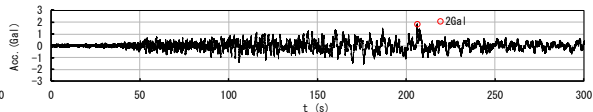
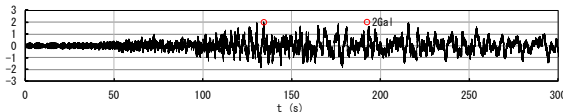
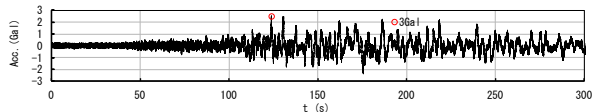
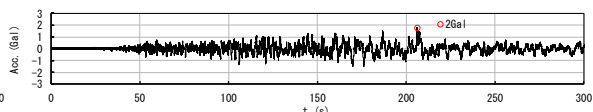
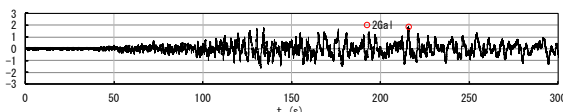
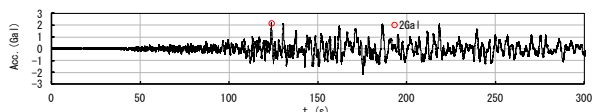
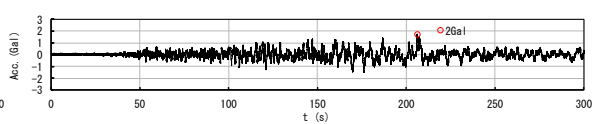
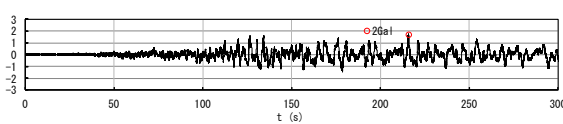
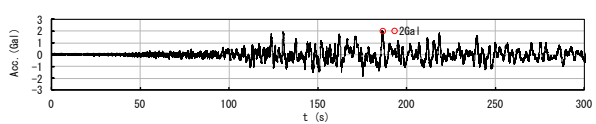
UD方向

No.43 北海道南西沖 深度別応答スペクトル

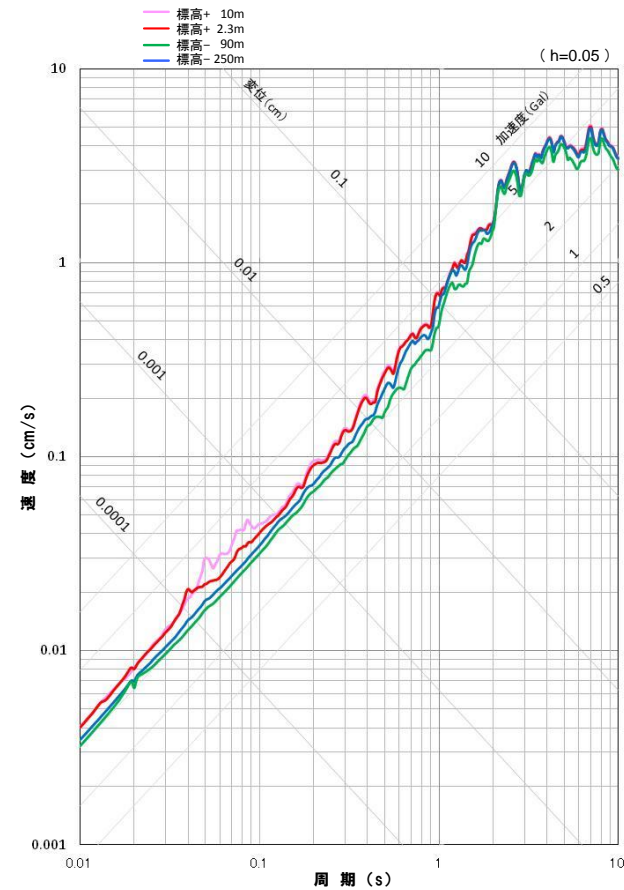
NS方向

EW方向

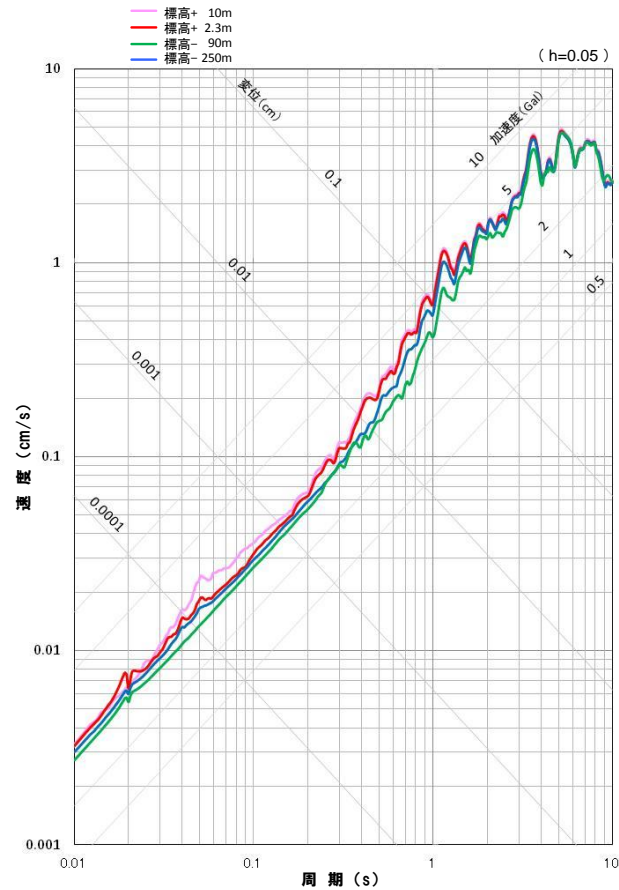
UD方向

標高
+10m標高
+2.3m標高
-90m標高
-250m

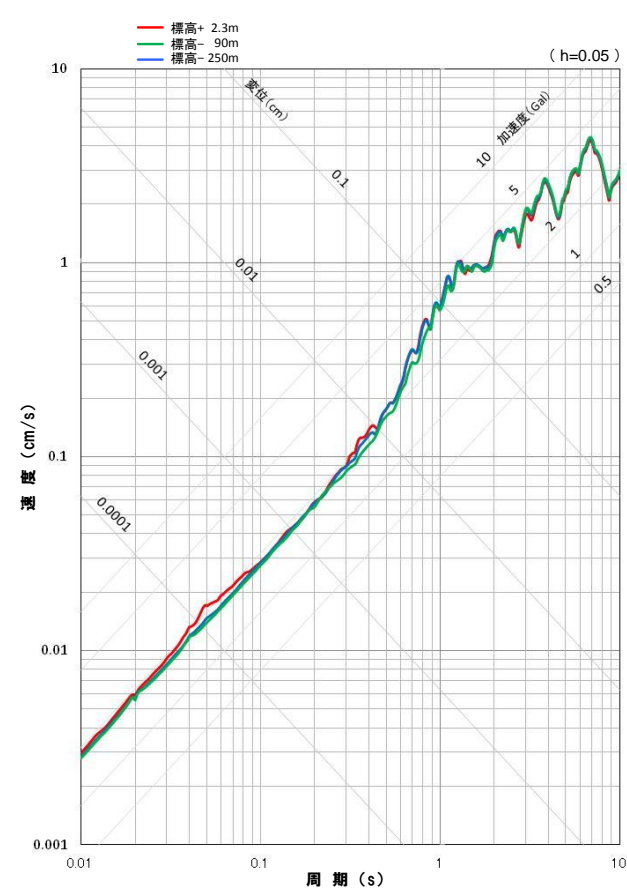
No.44 東北地方太平洋沖地震 時刻歴波形



NS方向



EW方向

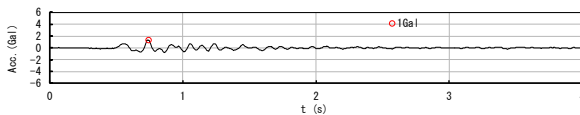
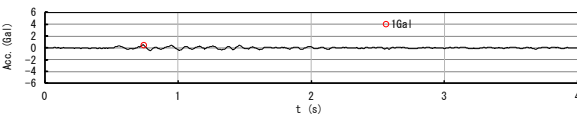
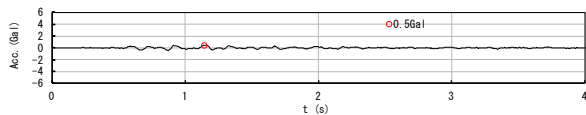
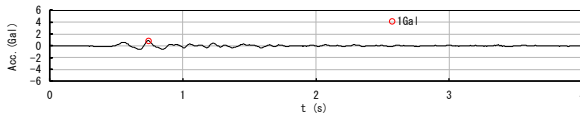
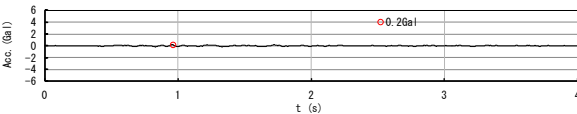
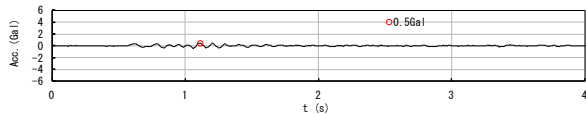
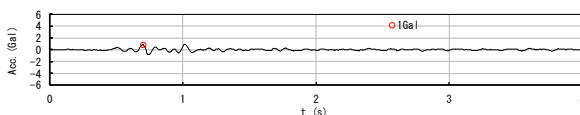
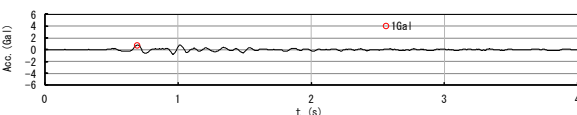
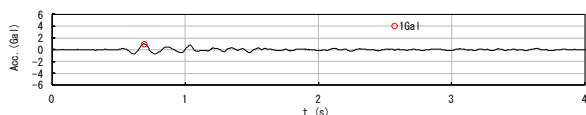
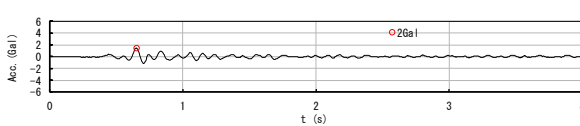
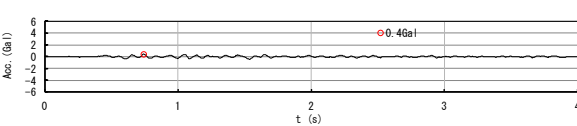
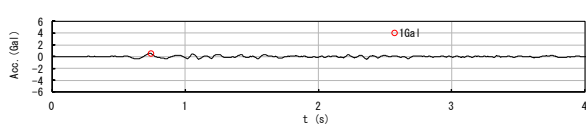


UD方向

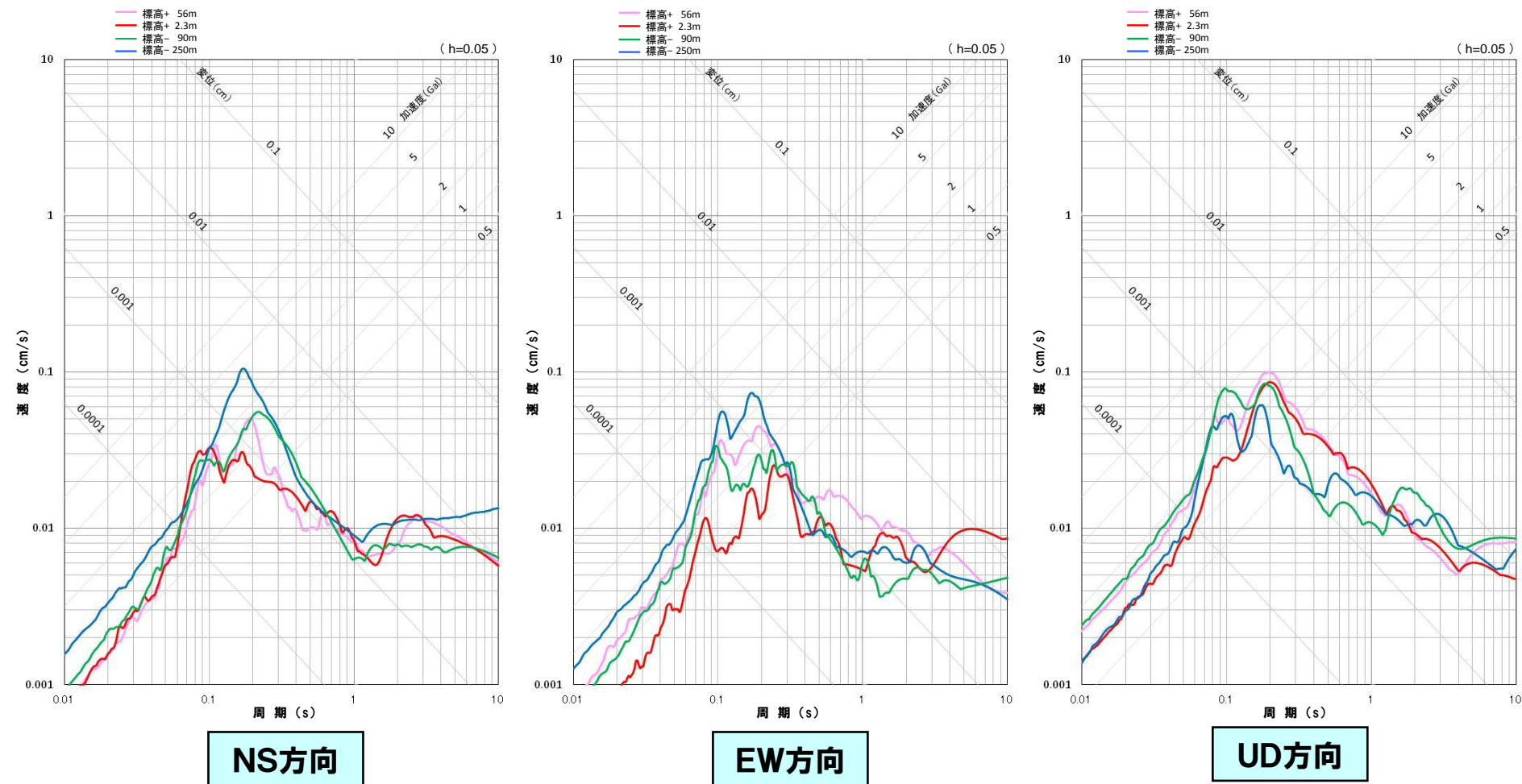
NS方向

EW方向

UD方向

標高
+56m標高
+2.3m標高
-90m標高
-250m

No.30 1999年積丹半島北西沖 時刻歴波形

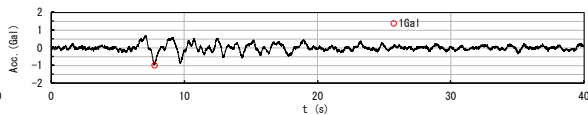
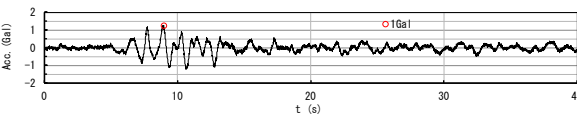
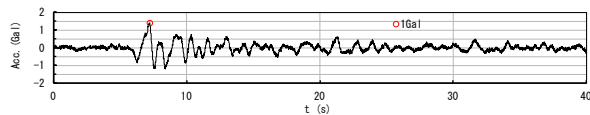
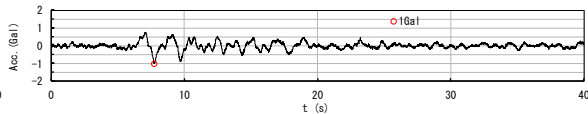
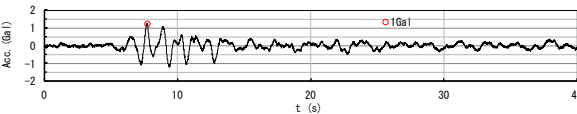
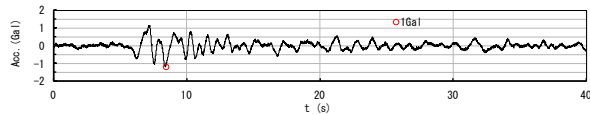
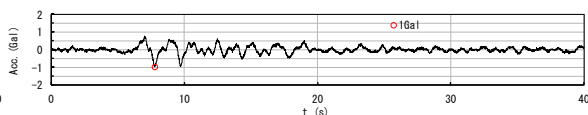
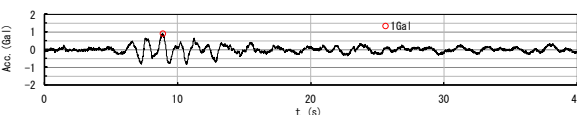
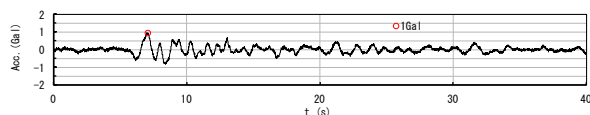
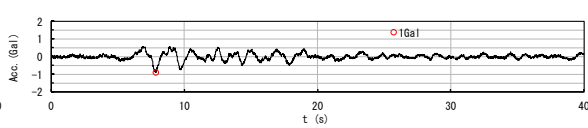
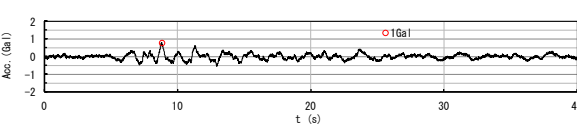
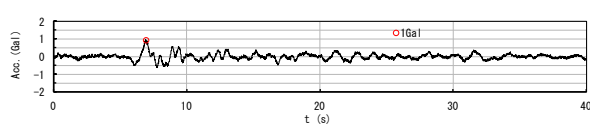


No.30 1999年積丹半島北西沖 深度別応答スペクトル

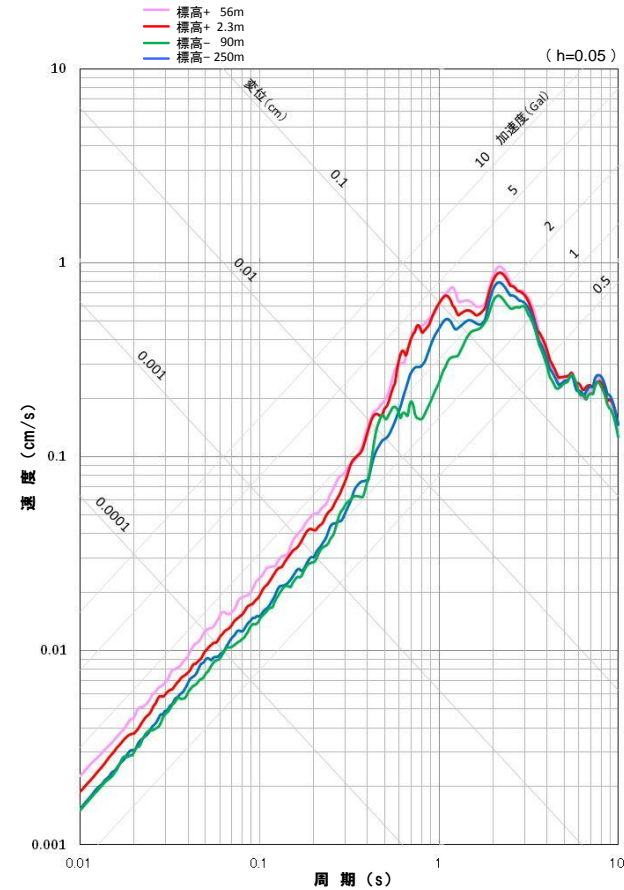
NS方向

EW方向

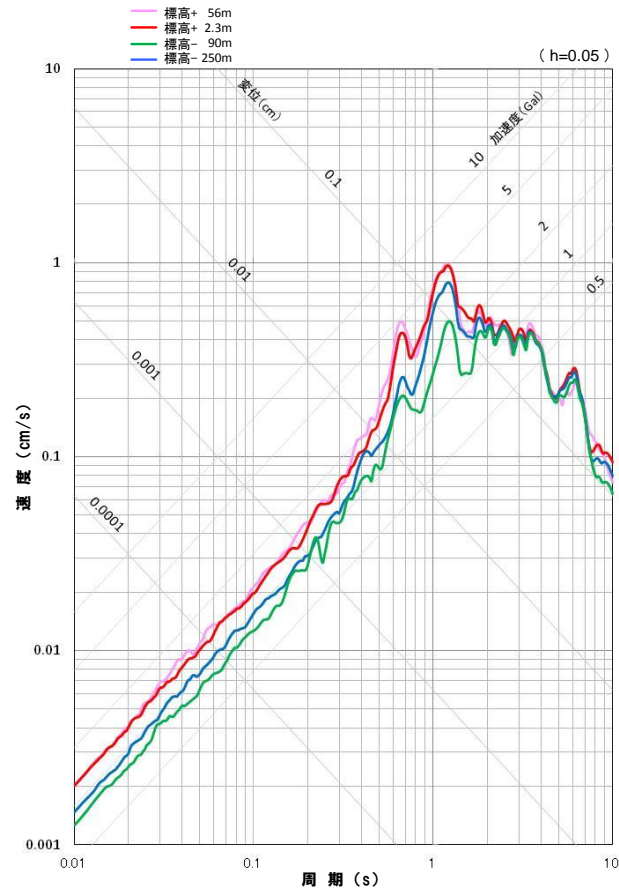
UD方向

標高
+56m標高
+2.3m標高
-90m標高
-250m

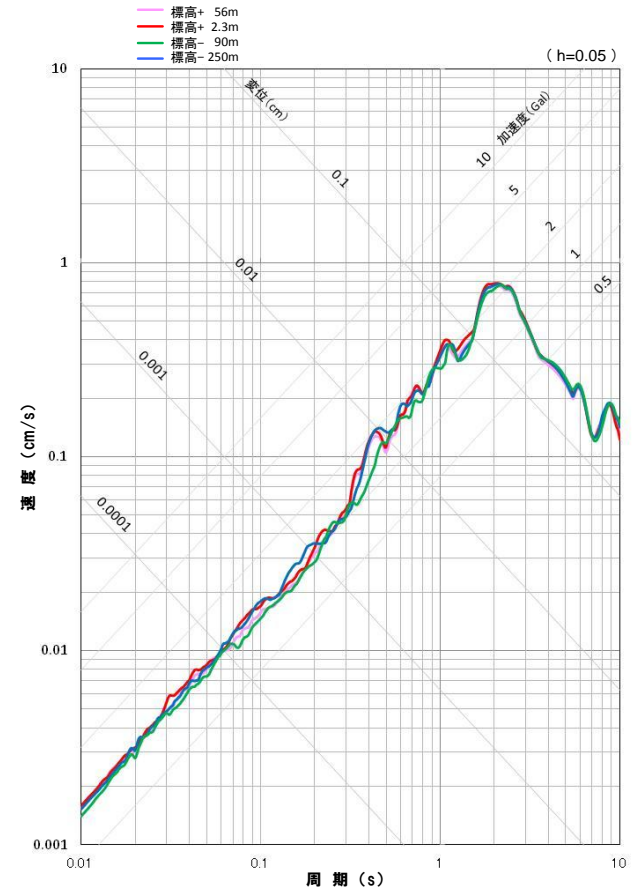
No.31 根室半島沖 時刻歴波形



NS方向



EW方向



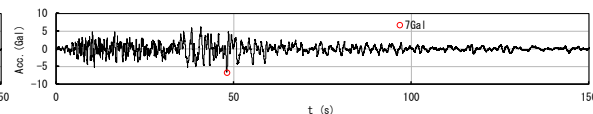
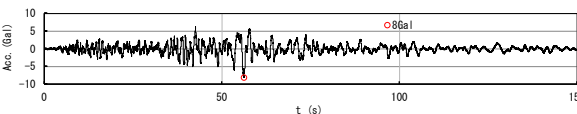
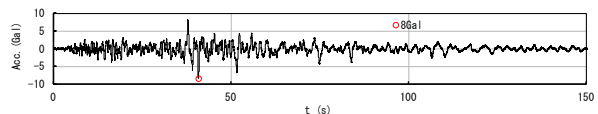
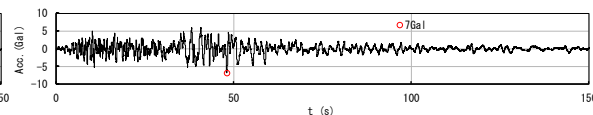
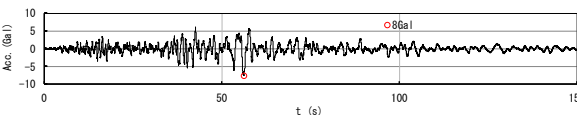
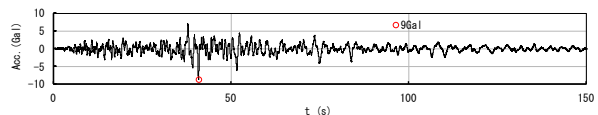
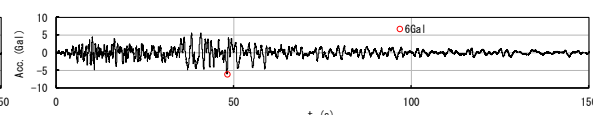
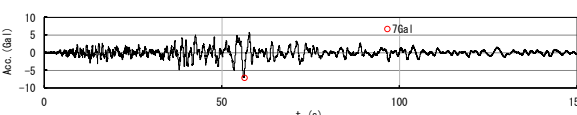
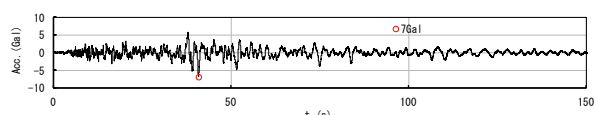
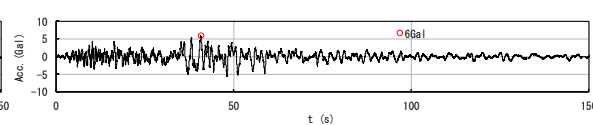
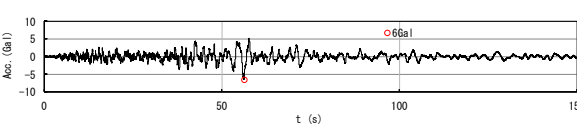
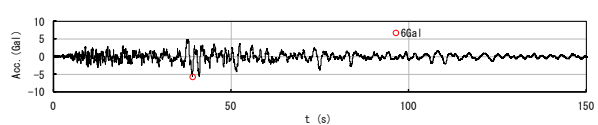
UD方向

No.31 根室半島沖 深度別応答スペクトル

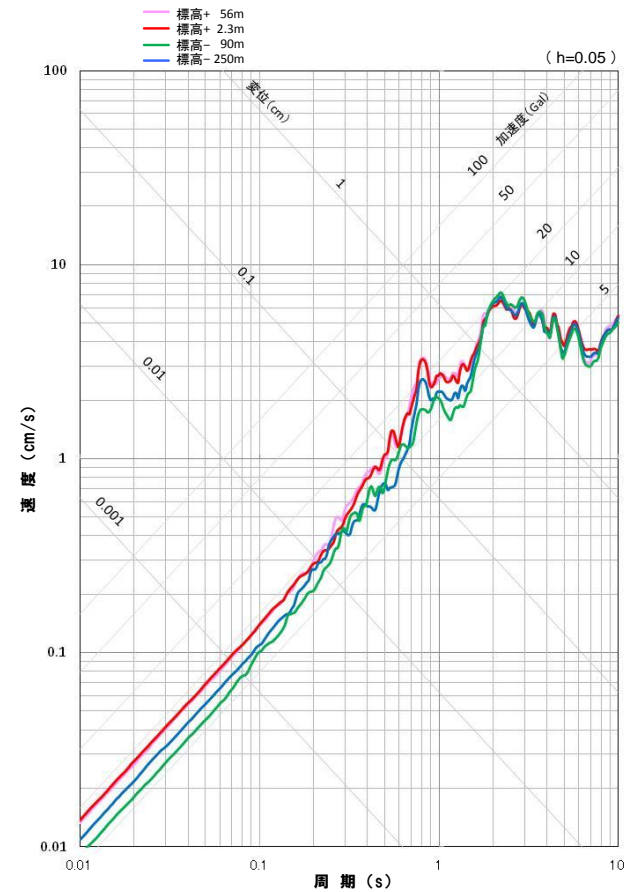
NS方向

EW方向

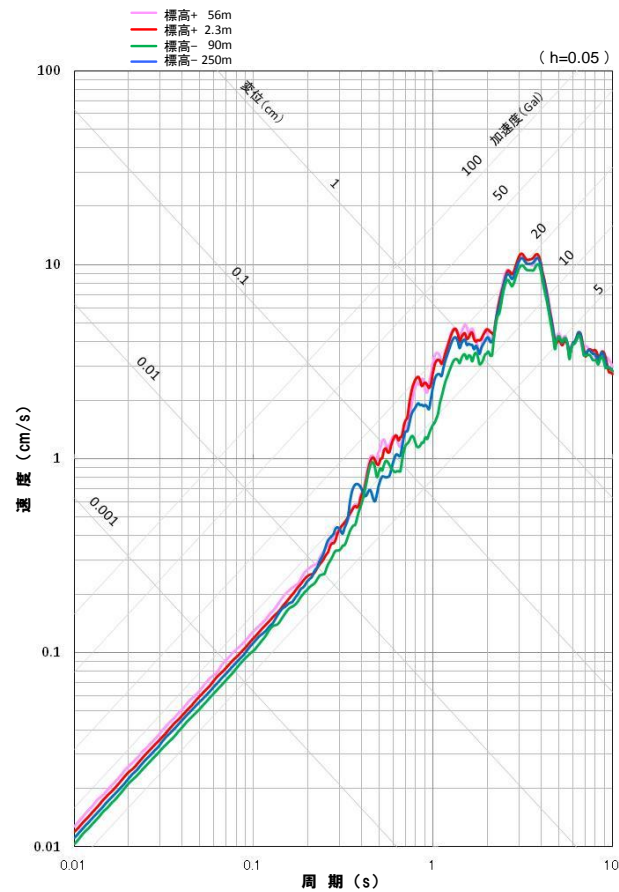
UD方向

標高
+56m標高
+2.3m標高
-90m標高
-250m

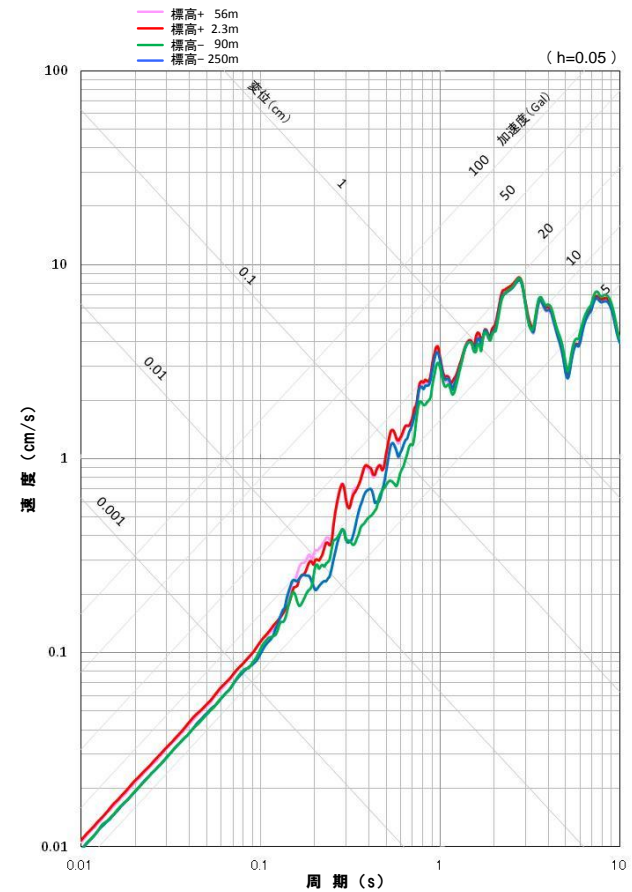
No.34 2003年十勝沖地震 時刻歴波形



NS方向



EW方向



UD方向

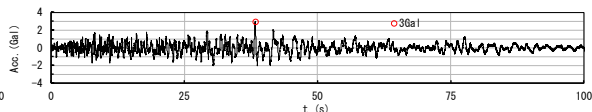
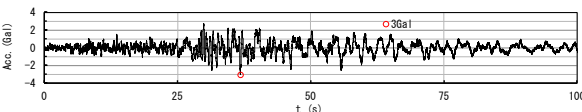
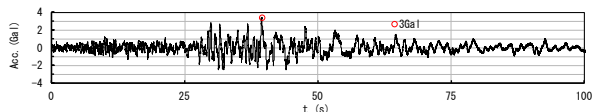
No.34 2003年十勝沖地震 深度別応答スペクトル

NS方向

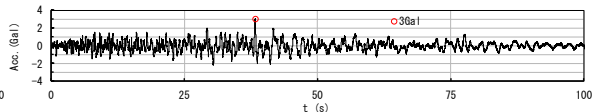
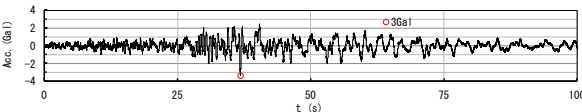
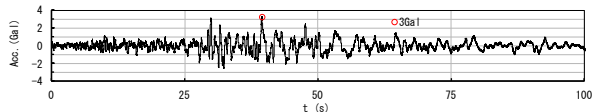
EW方向

UD方向

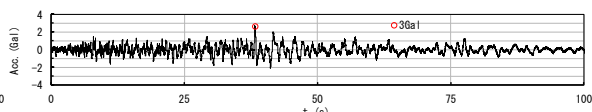
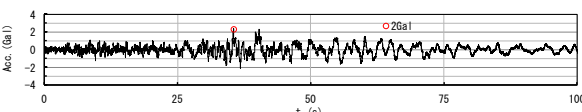
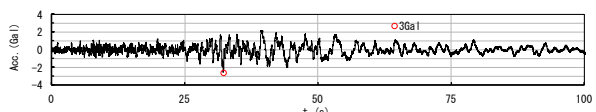
標高 +56m



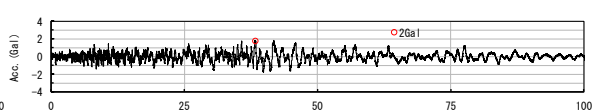
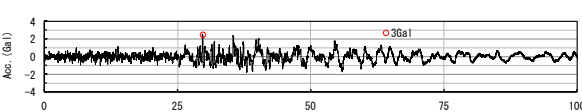
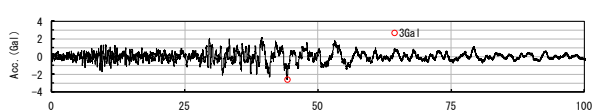
標高 +2.3m



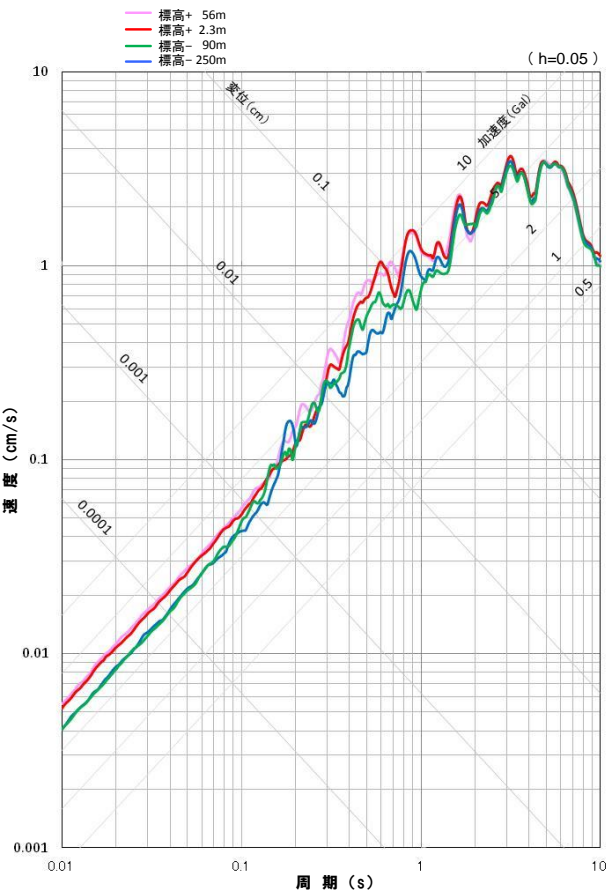
標高 -90m



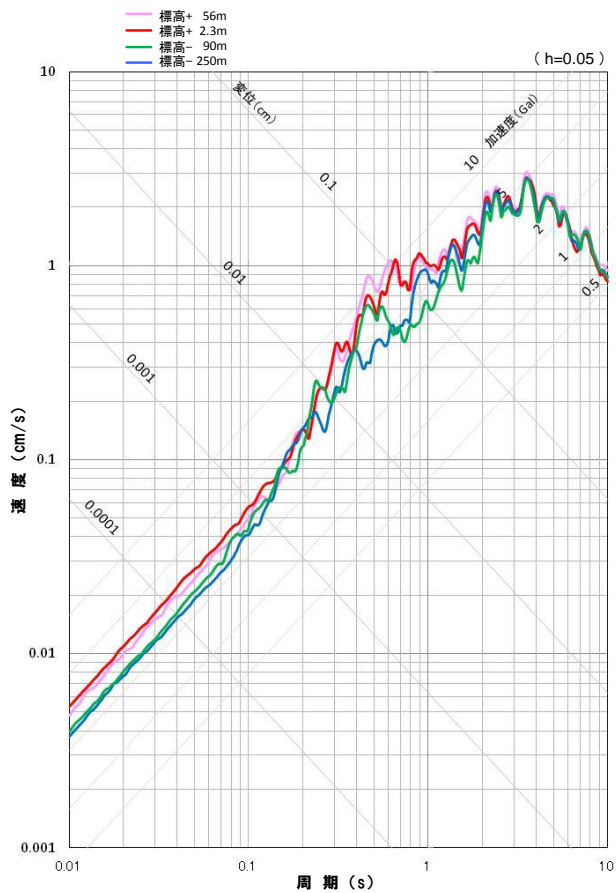
標高 -250m



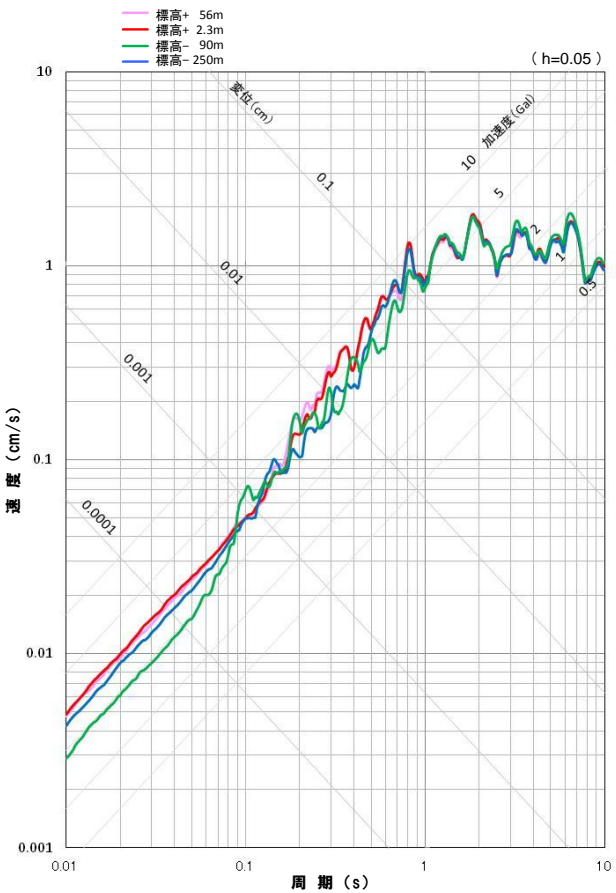
No.35 十勝沖 時刻歴波形



NS方向



EW方向



UD方向

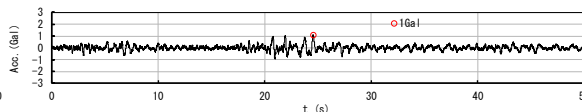
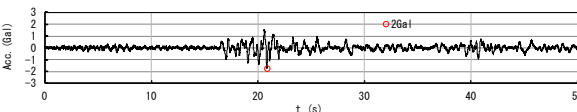
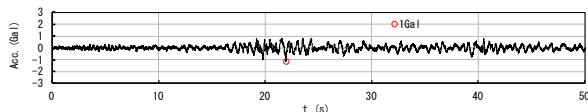
No.35 十勝沖 深度別応答スペクトル

NS方向

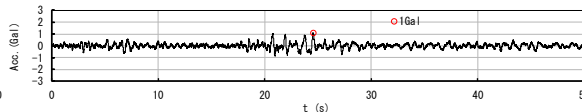
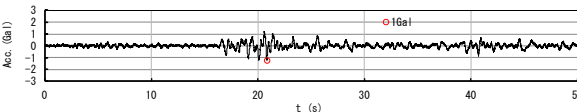
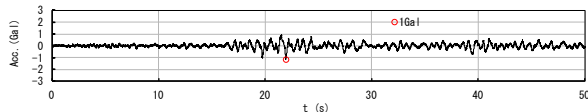
EW方向

UD方向

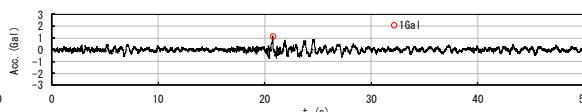
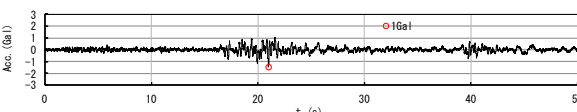
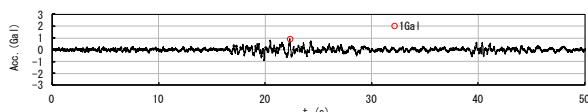
標高
+56m



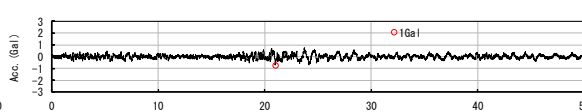
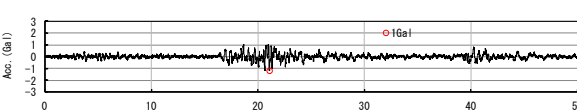
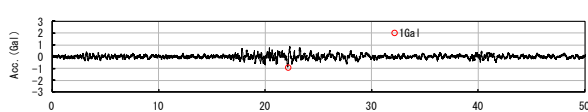
標高
+2.3m



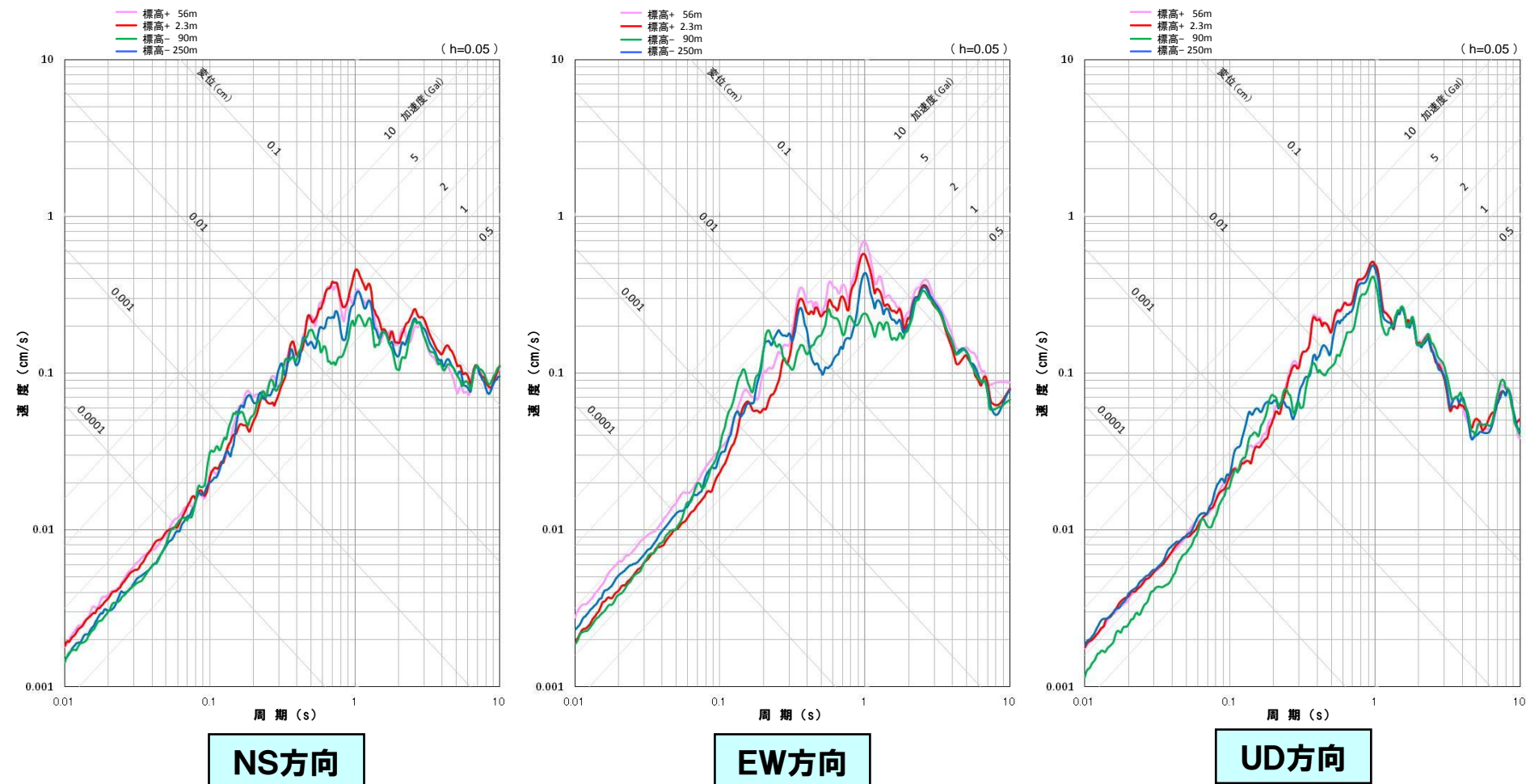
標高
-90m



標高
-250m



No.39 留萌支庁南部 時刻歴波形

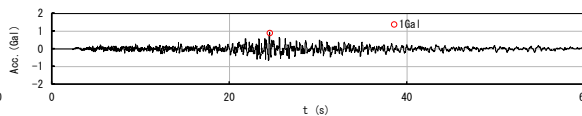
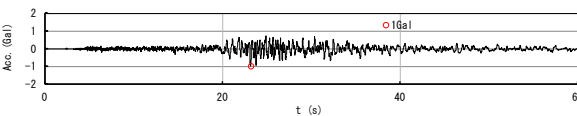
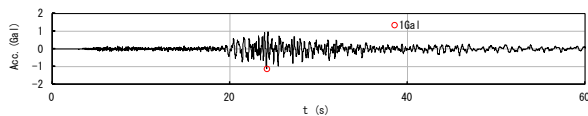
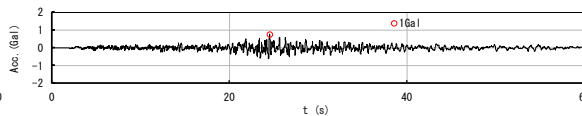
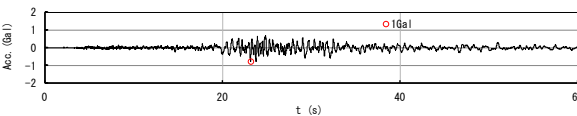
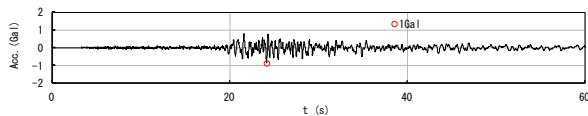
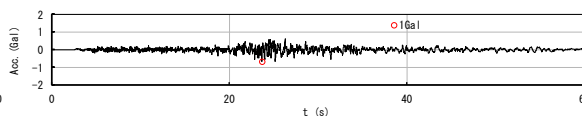
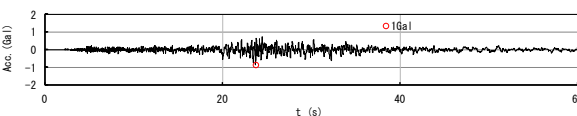
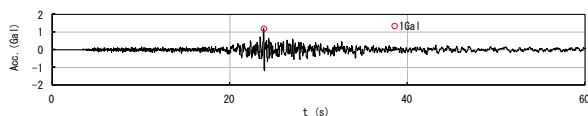
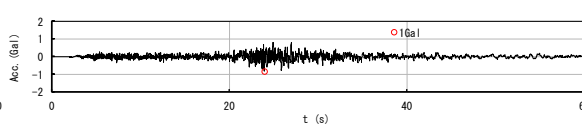
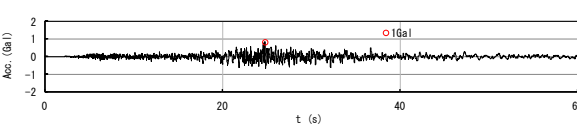
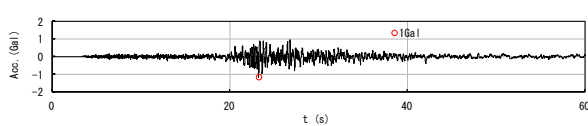


No.39 留萌支庁南部 深度別応答スペクトル

NS方向

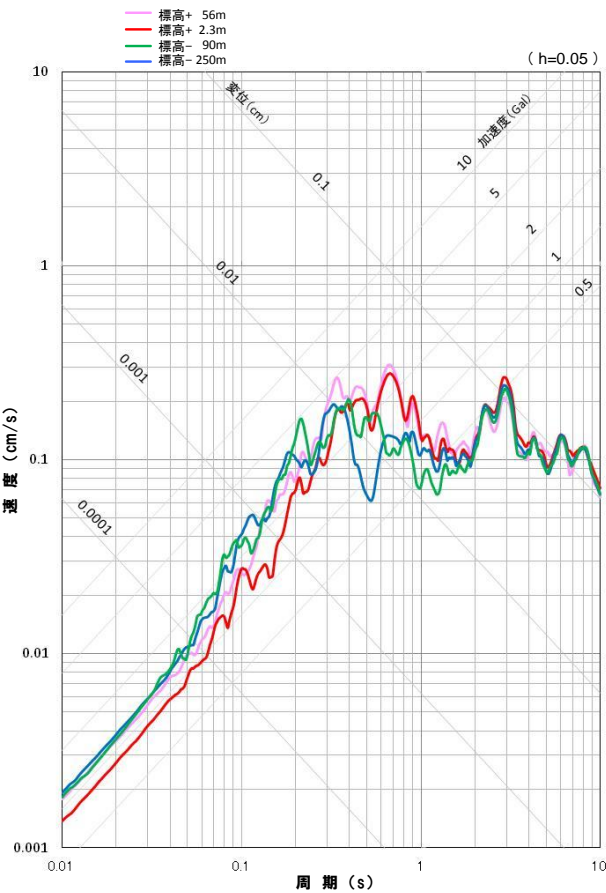
EW方向

UD方向

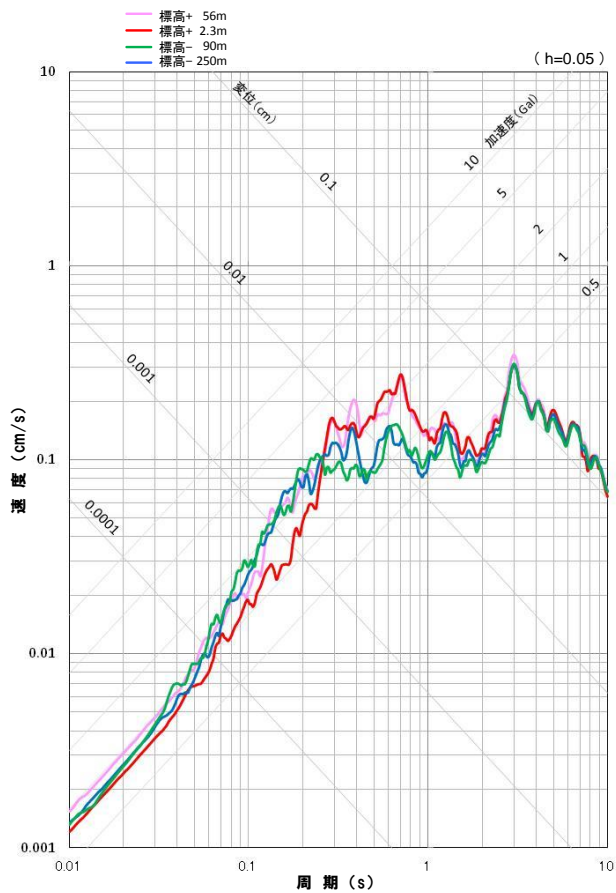
標高
+56m標高
+2.3m標高
-90m標高
-250m

No.43 北海道南西沖 時刻歴波形

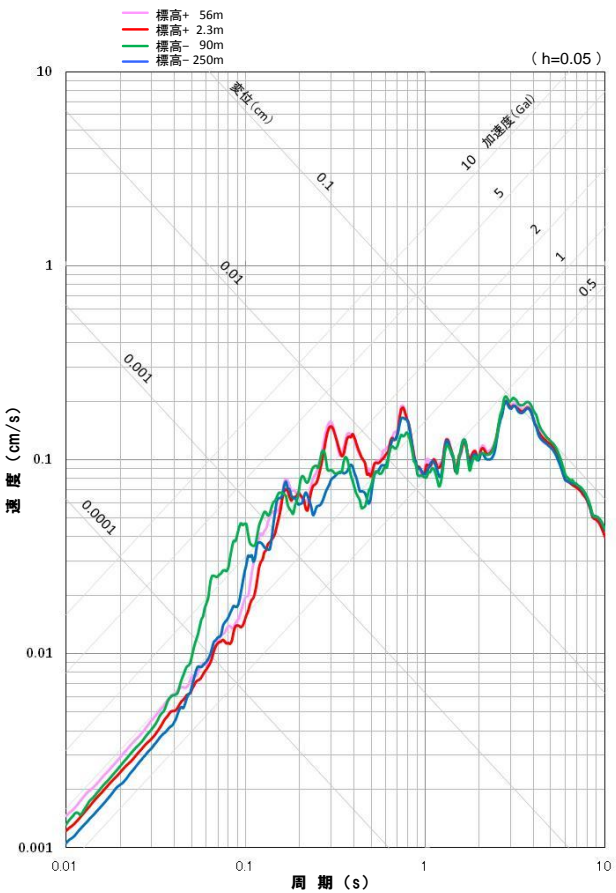
地震観測記録(3号炉観測点)



NS方向



EW方向



UD方向

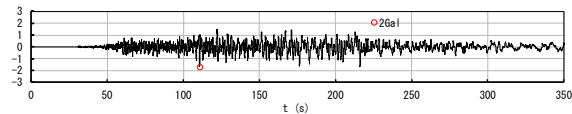
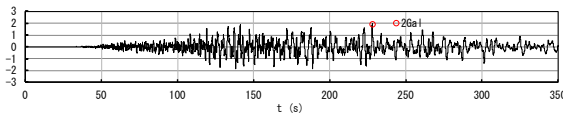
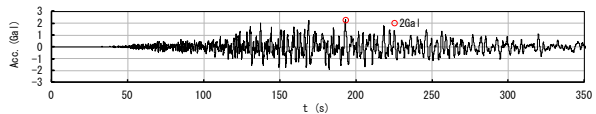
No.43 北海道南西沖 深度別応答スペクトル

NS方向

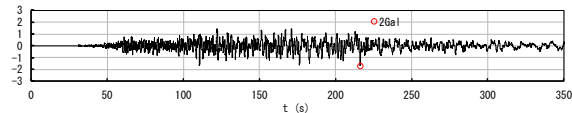
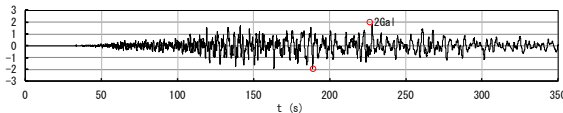
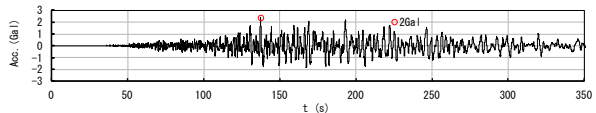
EW方向

UD方向

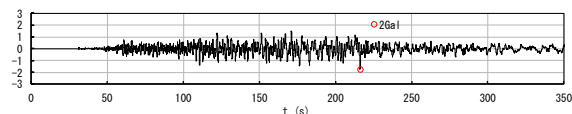
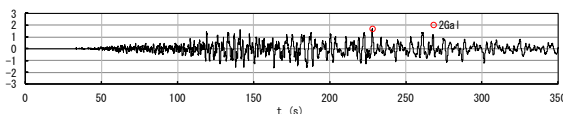
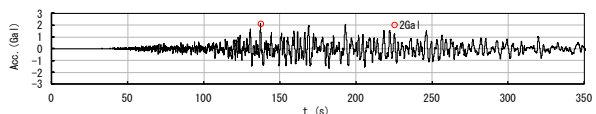
標高
+56m



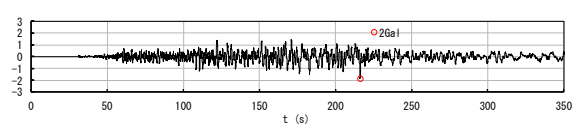
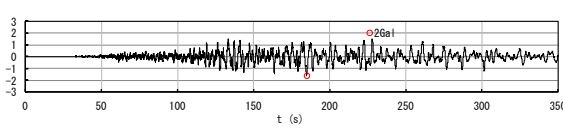
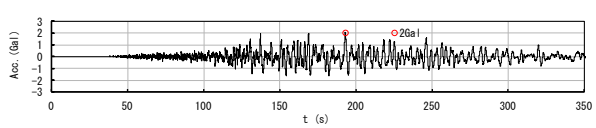
標高
+2.3m



標高
-90m

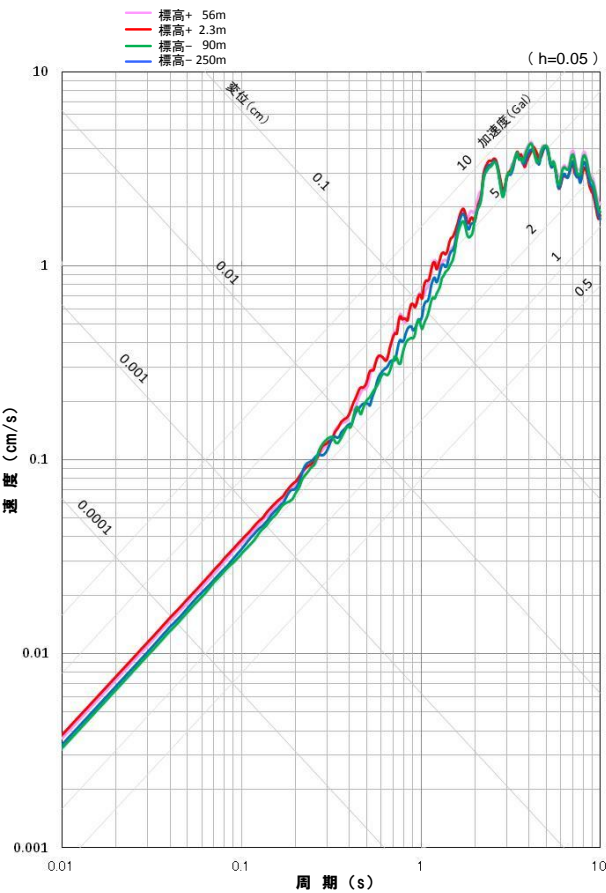


標高
-250m

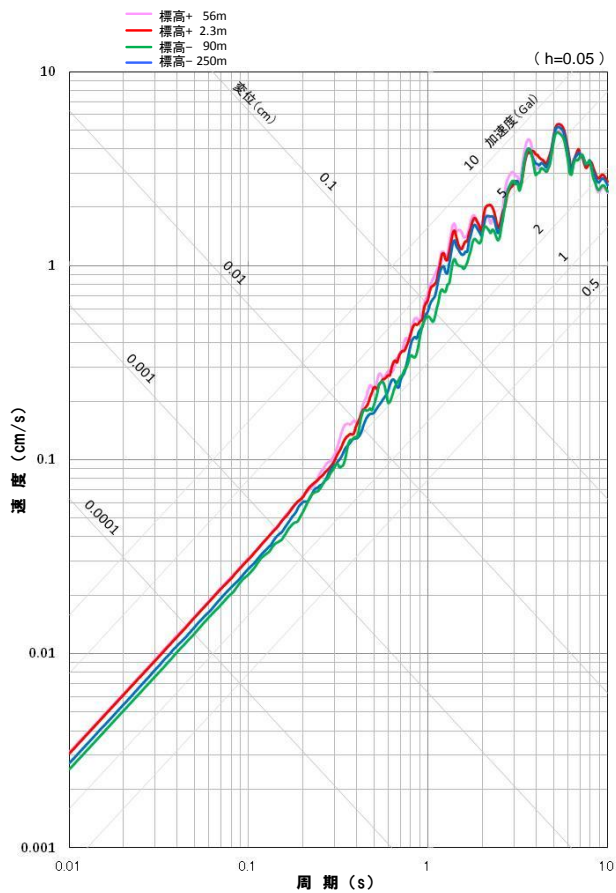


No.44 東北地方太平洋沖地震 時刻歴波形

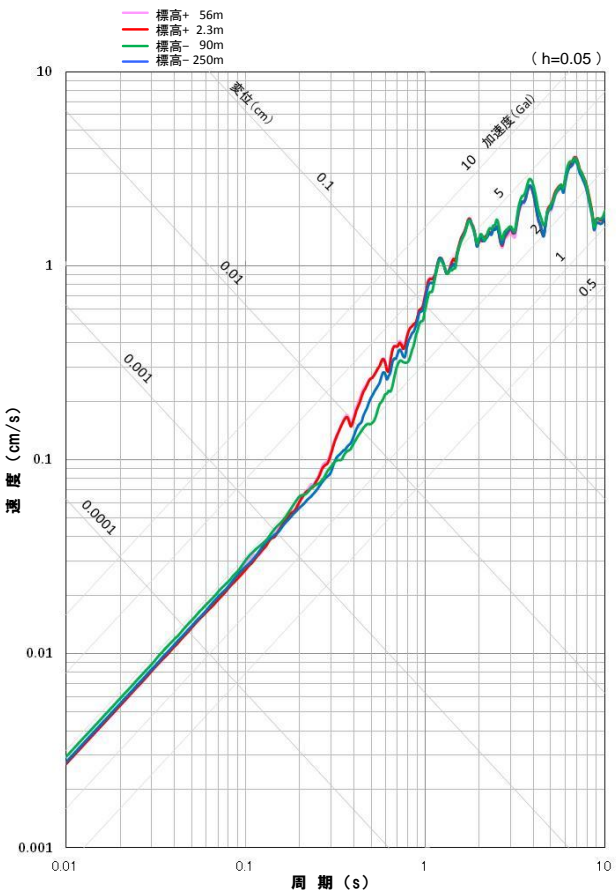
地震観測記録(3号炉観測点)



NS方向



EW方向



UD方向

No.44 東北地方太平洋沖地震 深度別応答スペクトル