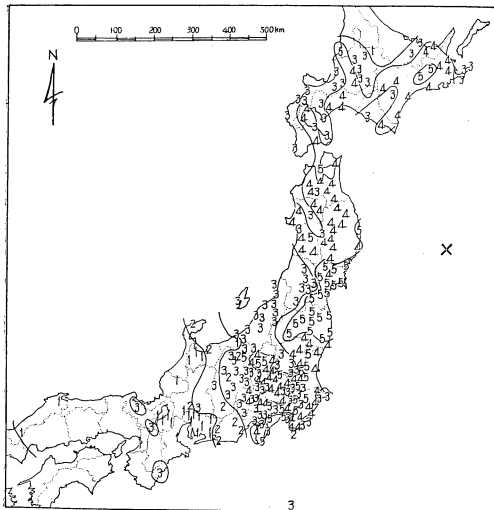


## 10. The Sanriku Earthquake, 1933



(March 3rd, 02:31. 39°06'N, 144°42'E,  
r=800 km, M=8.5)

This was one of the largest shock ever occurred in the world. It was accompanied by a tsunami of colossal scale.

Damage: (person) 3,008 drowned, 1,152 injured; (house) 4,917 washed away, 2,346 fell down, 249 burnt; (ship) 7,303 washed away, 910 damaged.

Slight damage was reported of crops, forests, breaking banks, washed away stock-fish and over flowing of brewing wine (950 gallons).

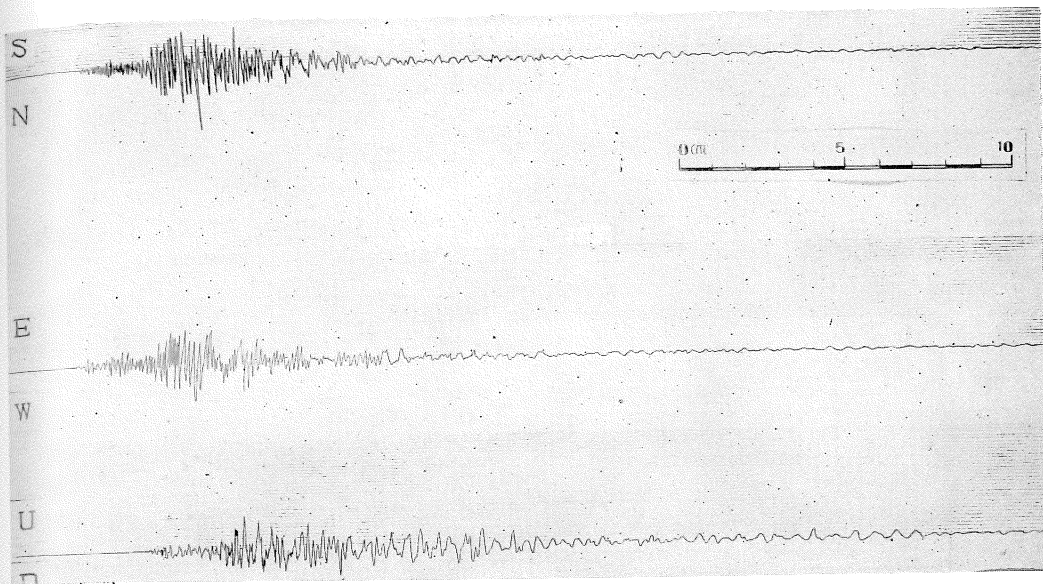
Seismographs

No Fig.	Station	Int.	Inst.	Comp.	V	T	r	v	ps	No m.f.	
1	Kakioka	V	S(O)	H, V	2	—	0.003	—	24.5	278	
2	"		W		N	95	4.6	0.02	4.7	24.0	139
					E	105	4.6	0.02	4.5	17.8	141
					V	80	4.2	0.04	6.0	28.7	213
3	Sendai	V	W		N	81	6.2	0.006	9	23.5	250
					E	90	6.1	0.004	7	27.0	252
					V	41	4.2	0.002	8	26.5	248
4	"		S(O)		H	2	4.0	0.04	2	26.5	24
					V	2	5.0	0.02	—	26.5	24
5,7	"		O		20	20.0	0.03	4	25.0	280	
6*	"		P(O)	H	50	4.0	—	—	25.0	281	
8,9	Morioka	IV		O	N	80	20	0.003	2.6	25.0	282
					E	85	—	0.001	2.8	19.3	244
10	"		S(O),W		1~2	5			25.0	243	
11	Miyako	V	P(C)	H	5	7.0	0.004		19.3	244	
12	"		M		H	5			42cm	243	
					V	10				559	
13,14	Mito	IV	S(I)	H, V	2				—	559	
15	"		M	H, V	5				—	480	
16	Maebashi	IV	S	H, V	2				23.5	554	
17,18	"		W		E	98	4.8		5.3	31.8	457
					N	98	4.8	0.01	5.7	29.6	458
					V	93	3.4		6.0	25.5	555
19	"		P	H	40	—	—		25.5	555	
20,21	Yokohama	IV	W		E	98		0.04	5.0	28.7	394
					N	98	5.2	0.04	6.6	30.3	556
					V	93		0.06	4.8	22.3	258
22	Kumagaya	IV	S						33.5	556	
23	Hakodate	IV	P(O)					—	22.3	258	
24	"		P(C)						19.5	263	
25	Kushiro	IV	P(O)		N	50	3.6	0.184		13.0	295
					E	50	4.0	0.098		295	
					N	50	2.9	0.029		292	
26	Urakawa	IV	P	E	50	3.1	0.043		23.5	292	

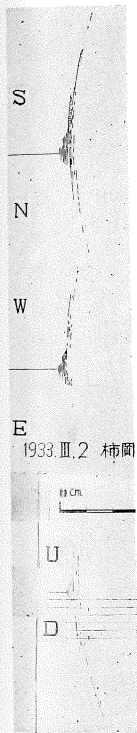
6\*: Aftershock, d: Aomori, Kōfu

14°42'E.  
k ever  
panied  
, 1,152  
, 2,346  
washed  
crops,  
stock-  
e (950

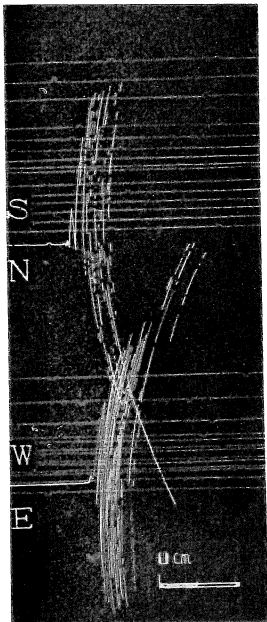
No  
i.f.  
278  
139  
141  
213  
250  
252  
248  
24  
280  
281  
282  
244  
243  
259  
280  
254  
257  
258  
255  
294  
256  
258  
253  
255  
252



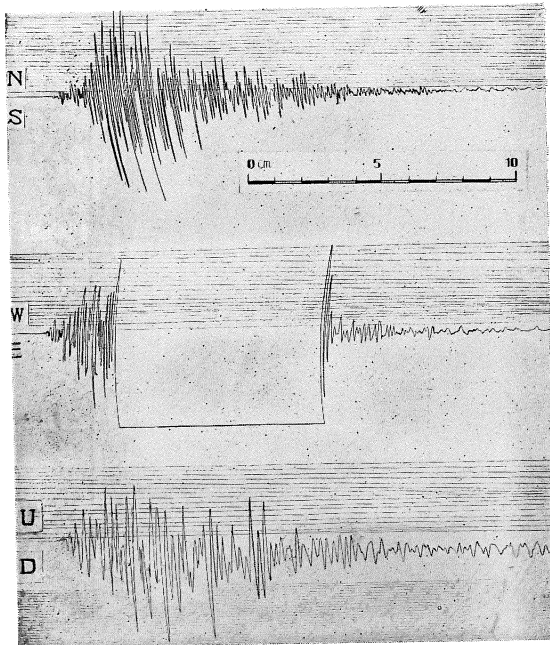
1. Kakioka (S)



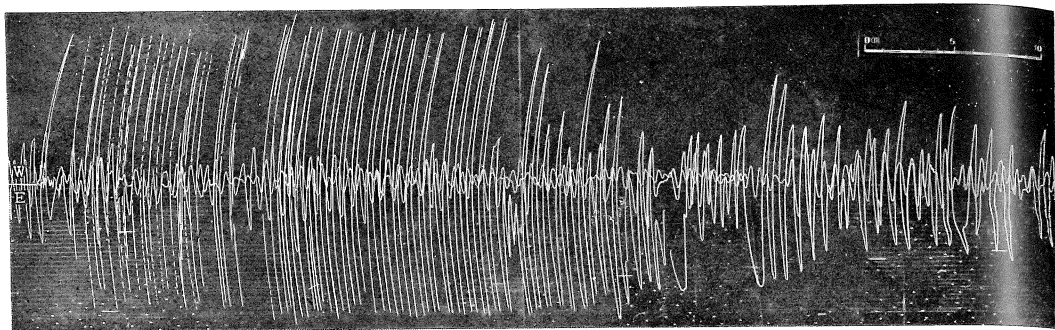
2. Kakioka (W)



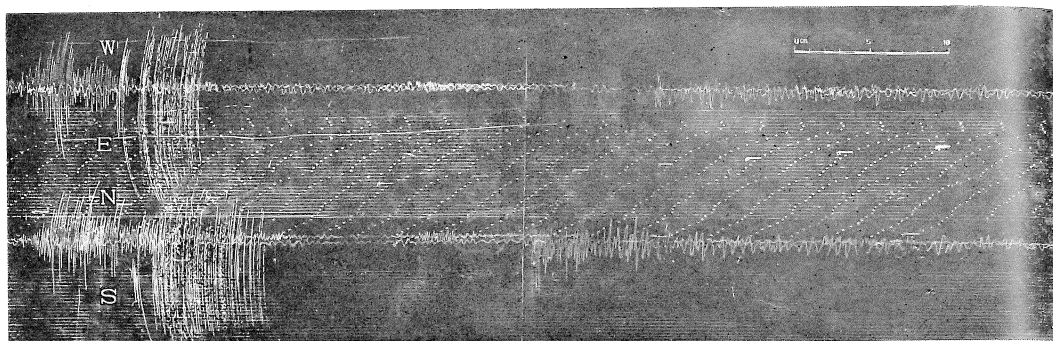
3. Sendai (WH)



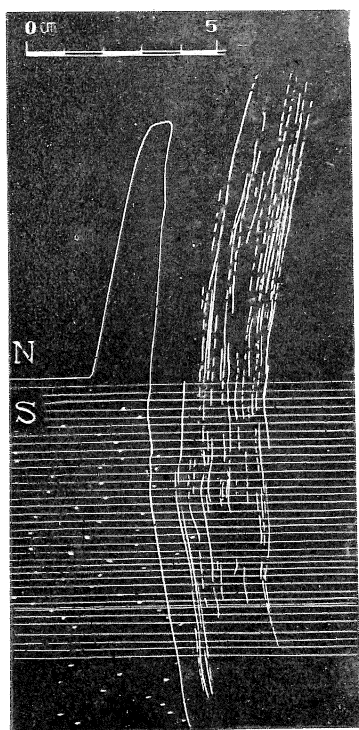
4. Sendai (S)



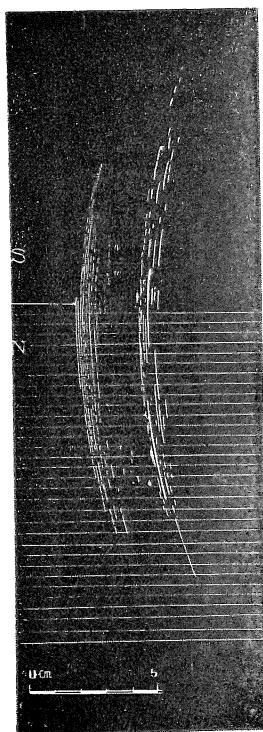
5. Sendai (OE)



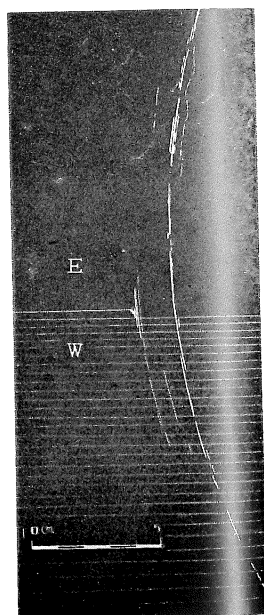
6. Sendai (P)



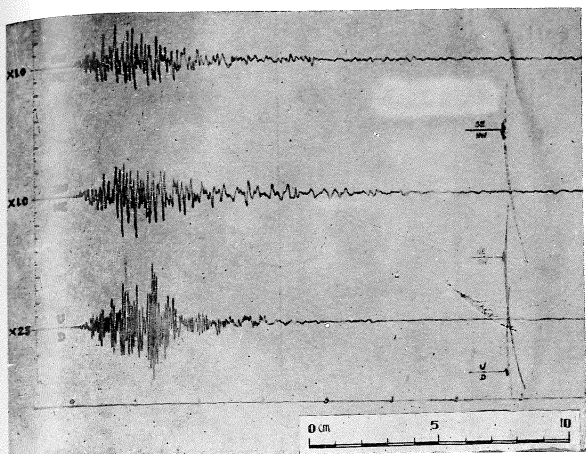
7. Sendai (ON)



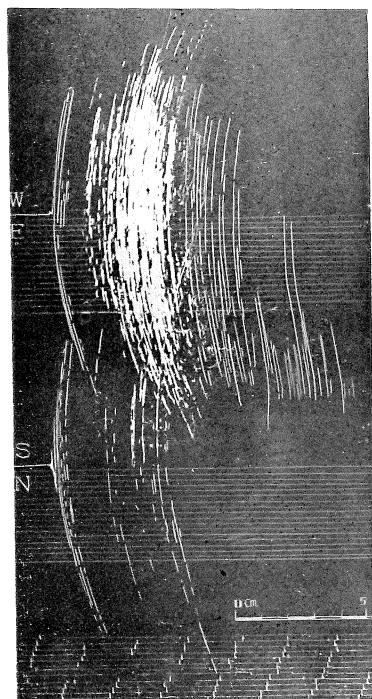
8. Morioka (ON)



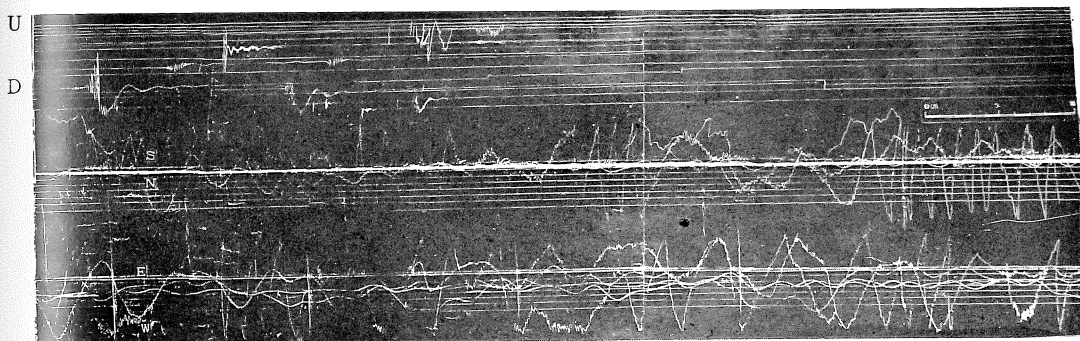
9. Morioka (OE)



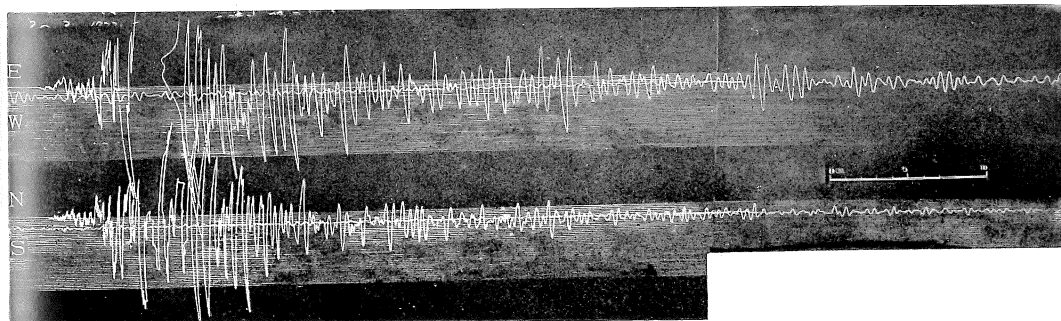
10. Morioka (S, W)



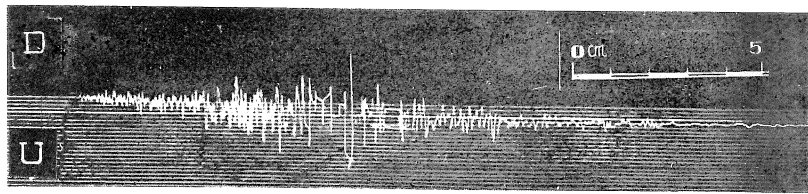
11. Miyako (P)



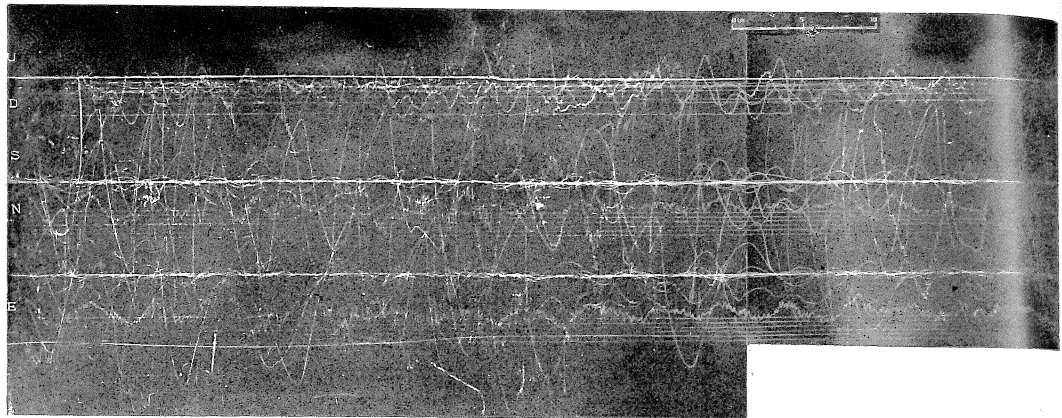
12. Miyako (M)



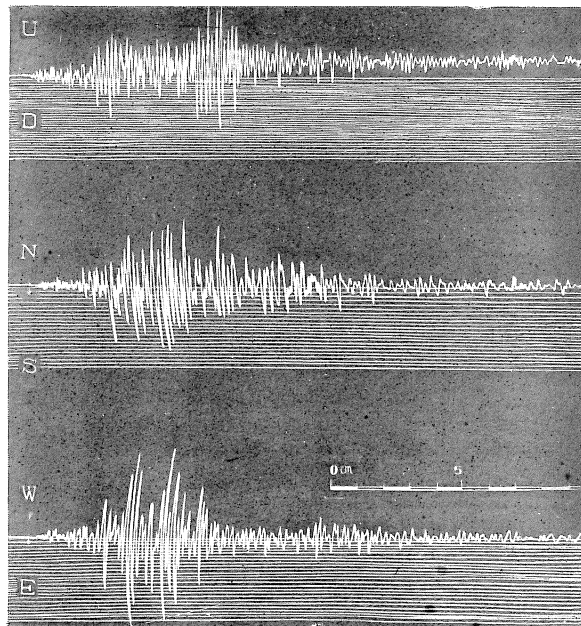
13. Mito (SH)



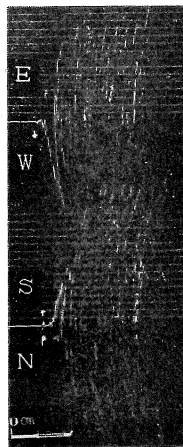
14. Mito (SV)



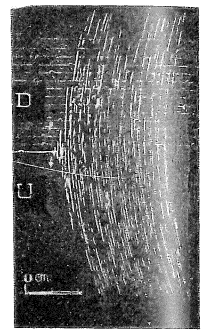
15. Mito (M)



16. Maebashi (S)



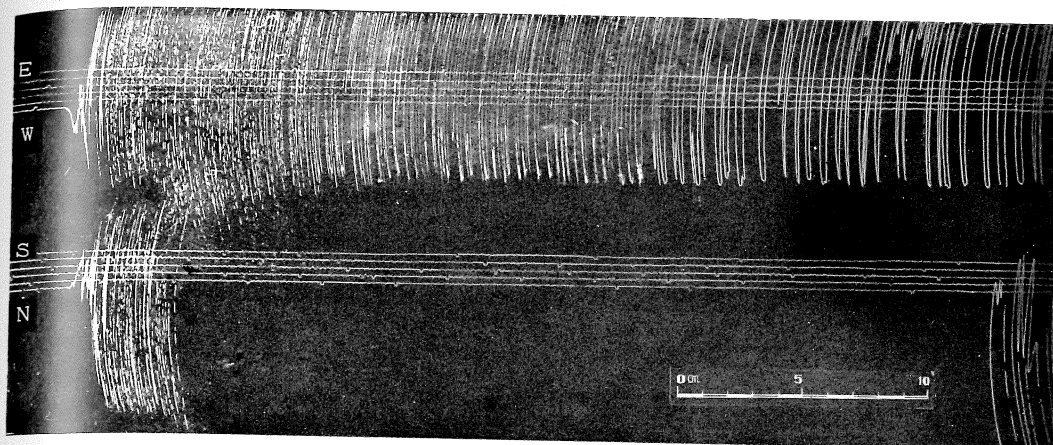
17. Maebashi (WH)



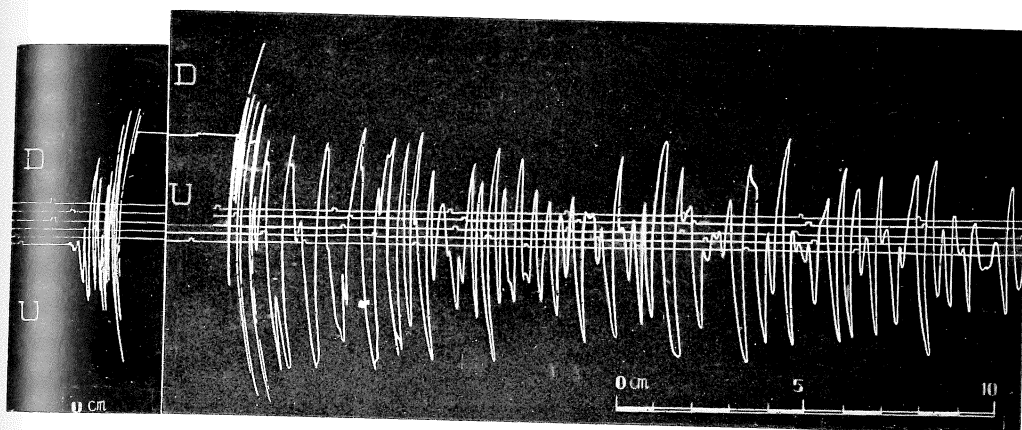
18. Maebashi (WV)



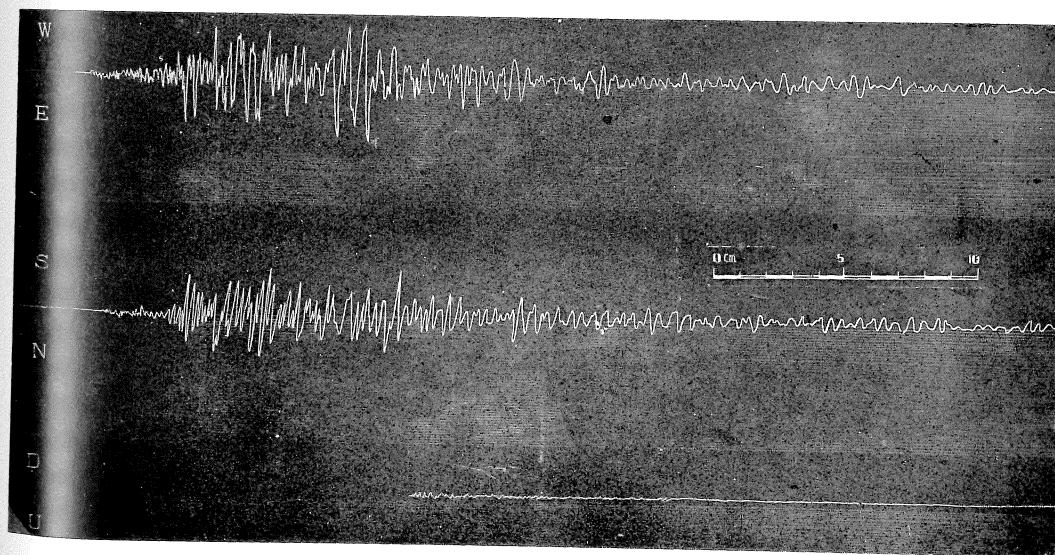
19. Maebashi (P)



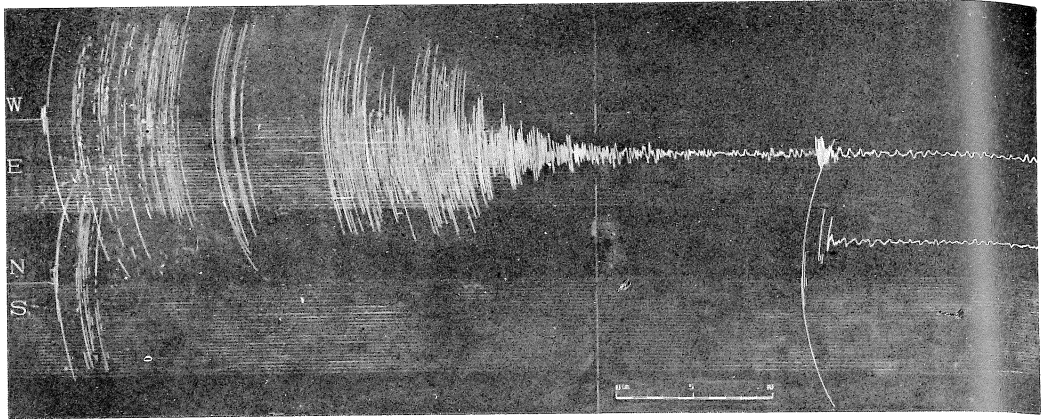
20. Yokohama (WH)



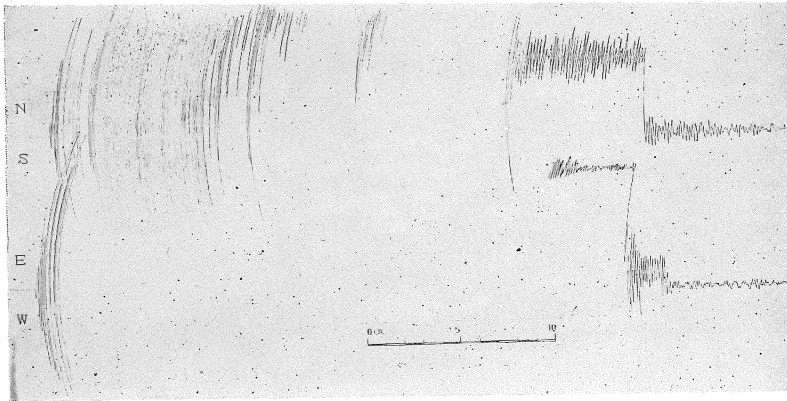
21. Yokohama (WV)



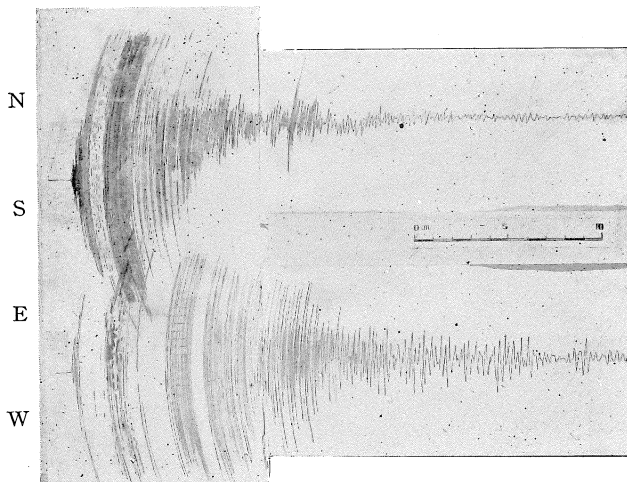
22. Kumagaya (S)



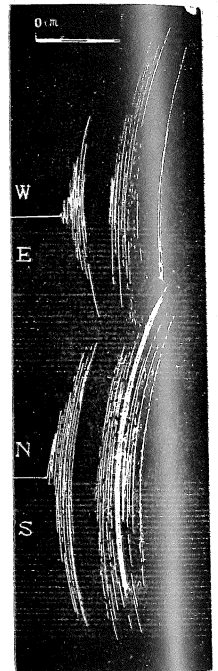
23. Hakodate (P)



24. Hakodate (P)



25. Kushiro (P)



26. Urakawa (P)