

Prompt report on 2022/1/22 1:08 Hyuga-nada Earthquake

Event

Table 1 Event¹

Origin time	Epicenter	Latitude	Longitude	Magnitude	Depth
2022/01/22 01:08	Hyuga-nada	32°42.9'N	132°04.3'E	$M_J6.6$	45 km

Strong motion data

Table 2 List of strong motion records

Code	Station	Δ (km)	I_{JMA}	Azim.	Loc.	Max. acc. (cm/s ²)			Notes
						H1	H2	V	
NBO	Nobeoka Office, Miyazaki Prefecture	41	4.9	358°	01F*	155.1	122.6	66.9	Fig.2.1
					04F	253.7	262.5	71.8	Fig.2.2
OIT	Oita City Hall	73	4.8	174°	01F*	86.2	95.1	43.5	Fig.3.1
					09F	223.4	213.6	83.7	Fig.3.2
KMM	Kumamoto Prefecture Main Building	125	3.3	352°	B2F*	27.1	14.4	8.8	
					13FE	68.8	39.3	20.6	
					13FW	69.5	41.7	40.2	
MYJ	Miyakonojo Office, Miyazaki Prefecture	144	3.3	192°	01F*	15.6	18.7	5.1	
					05F	26.6	28.3	6.3	
KCK	Kochi Work Office, Shikoku Regional Development Bureau	165	2.7	008°	01F*	11.7	11.8	3.7	
					04F	18.4	14.2	3.4	
FKO	Fukuoka Government Office Bldg. #2	181	2.0	233°	GL	-	-	-	
					B1F*	4.5	4.7	4.2	
					10F	32.2	18.9	5.6	
HMD	Hamada Office, Shimane Prefecture	243	1.6	160°	01F*	2.8	4.6	1.3	
TKM	Takamatsu Regional Taxation Bureau	257	2.0	188°	GL*	3.3	4.2	1.8	
					B1F	3.2	3.4	1.6	
					09F	7.1	12.9	2.0	
YNG	Yonago City Hall	323	2.4	040°	B1F*	5.7	6.8	0.9	
SKS	Sakishima Office, Osaka Prefecture	376	1.8	229°	01F*	2.1	2.8	0.9	
					18F	3.1	5.0	1.3	
					38F	3.2	3.9	1.9	
					52FN	3.7	8.8	2.2	
					52FS	3.5	8.9	2.0	

notes) Δ : epicentral distance, I_{JMA} : JMA seismic intensity (using sensor with *), Azim.: azimuth from North clockwise, H1, H2 and V: horizontal#1, horizontal#2 and vertical directions

¹ Japan Meteorological Agency

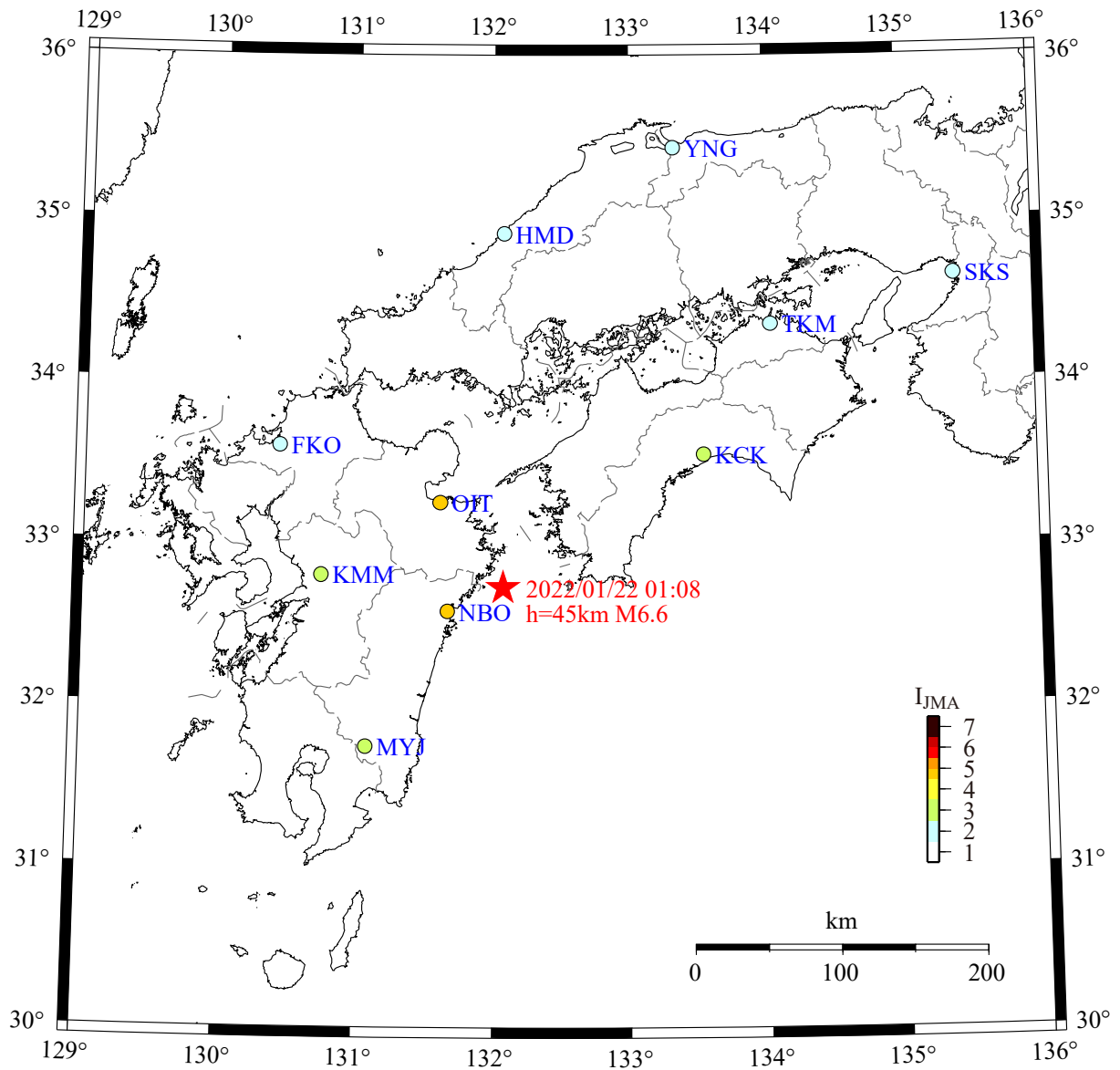


Fig. 1.1 Locations of epicenter (★) and strong motion stations

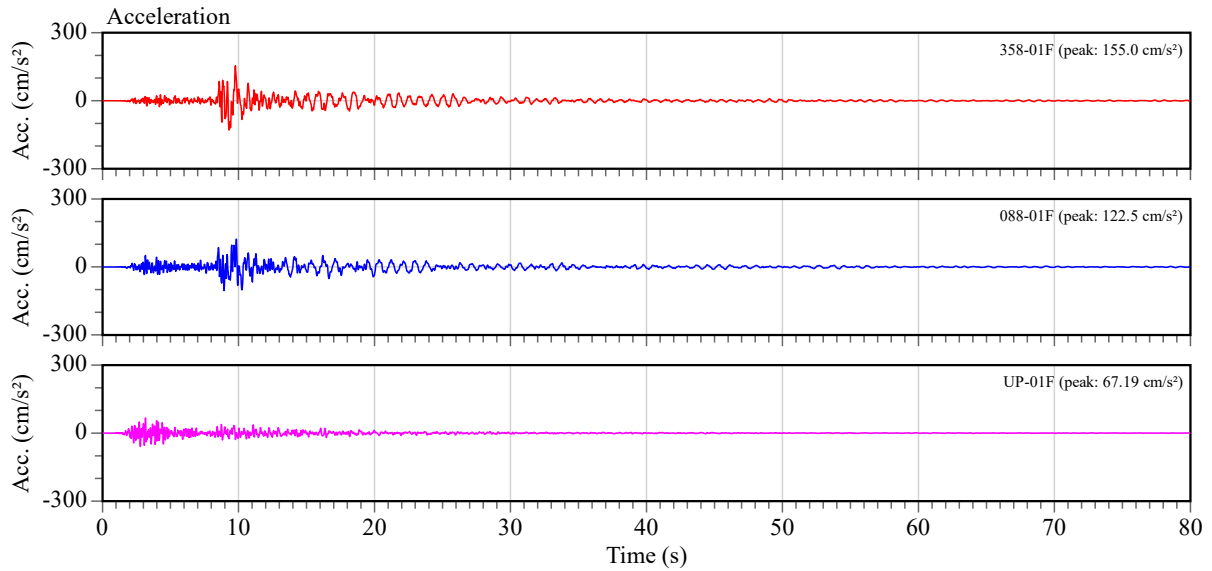


Fig. 2.1 Acceleration waveforms of 01F at the station NBO

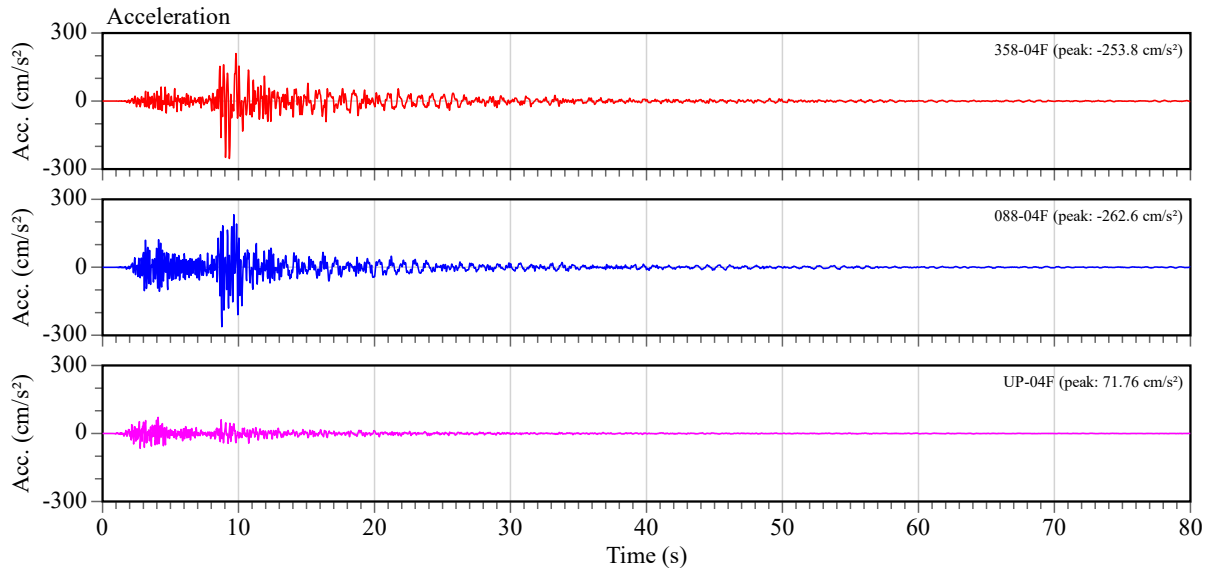


Fig. 2.2 Acceleration waveforms of 04F at the station NBO

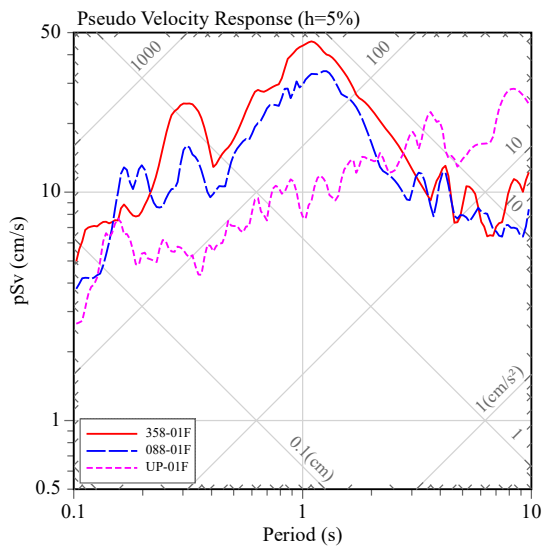


Fig. 2.3 Pseudo response spectra of 01F at the station NBO ($h=5\%$)

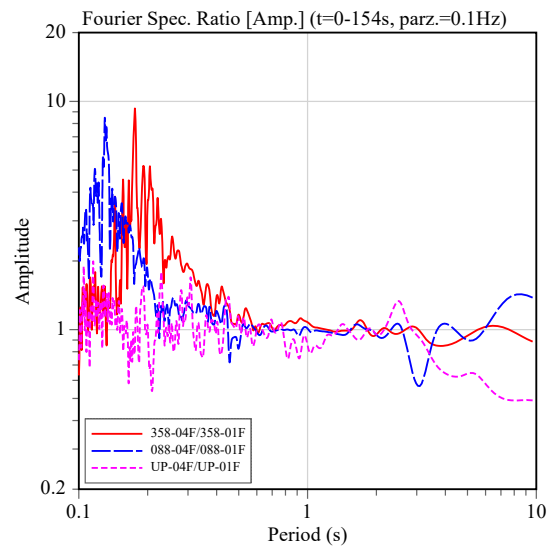


Fig. 2.4 Fourier spectral ratio of 04F/01F at the station NBO

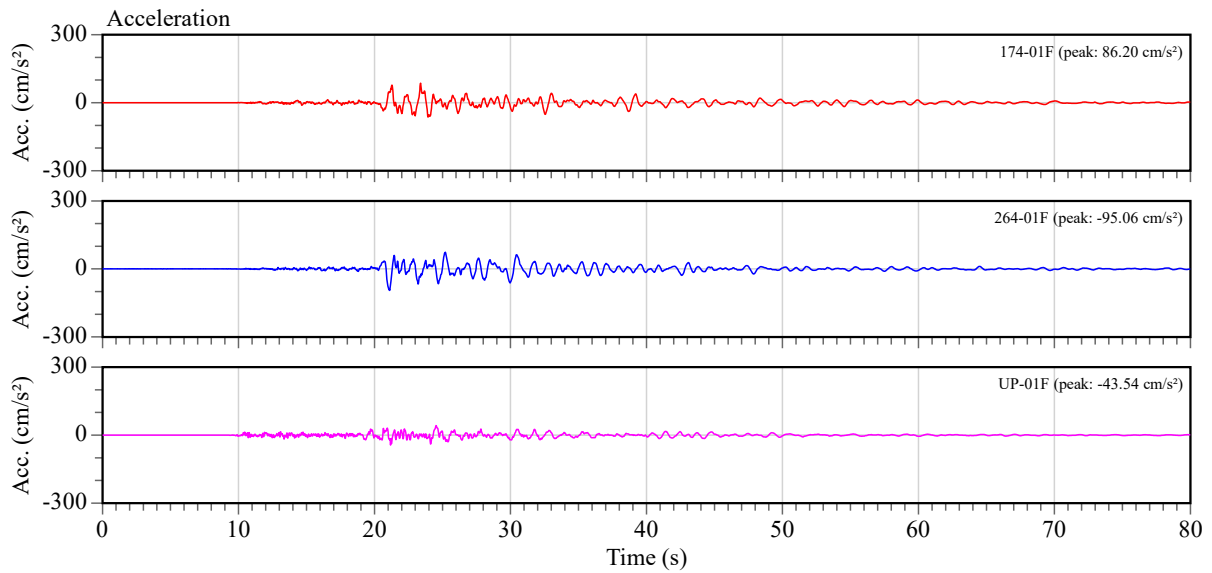


Fig. 3.1 Acceleration waveforms of 01F at the station OIT

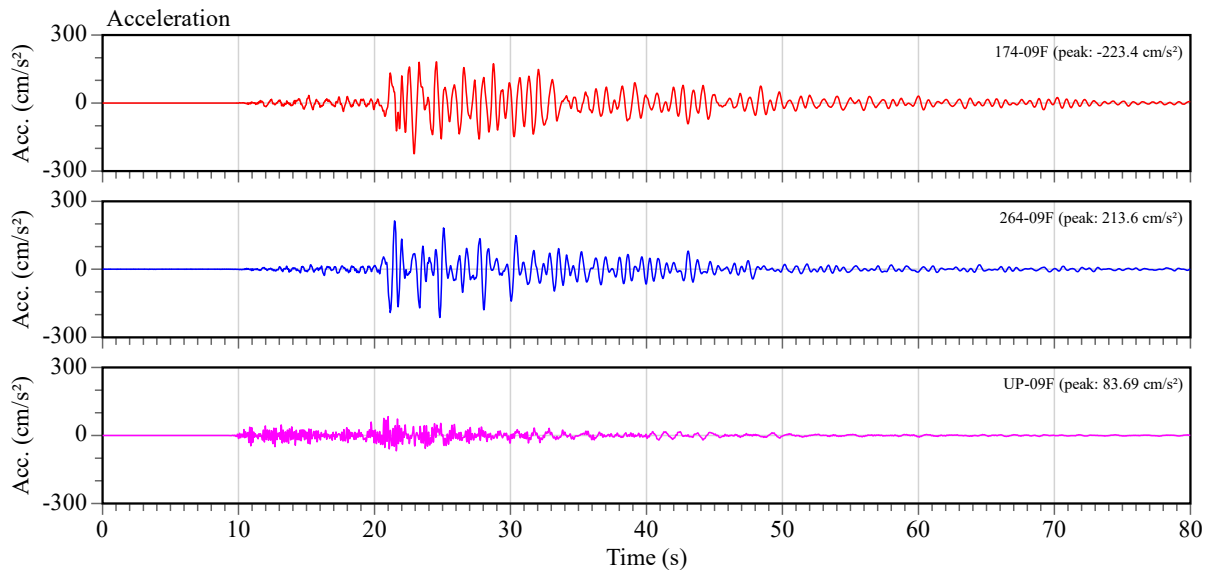


Fig. 3.2 Acceleration waveforms of 09F at the station OIT

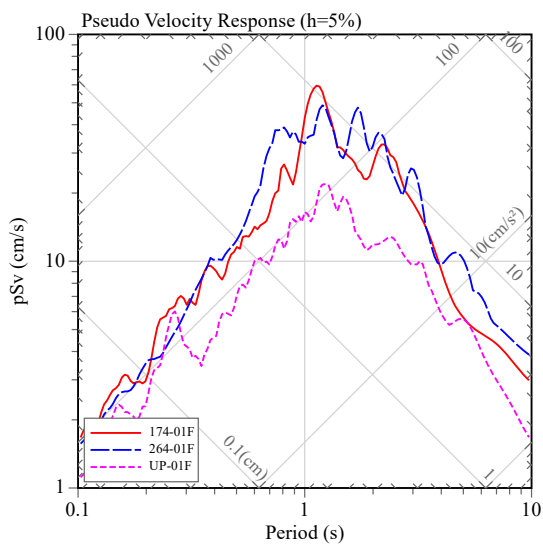


Fig. 3.3 Pseudo response spectra of 01F at the station OIT ($h=5\%$)

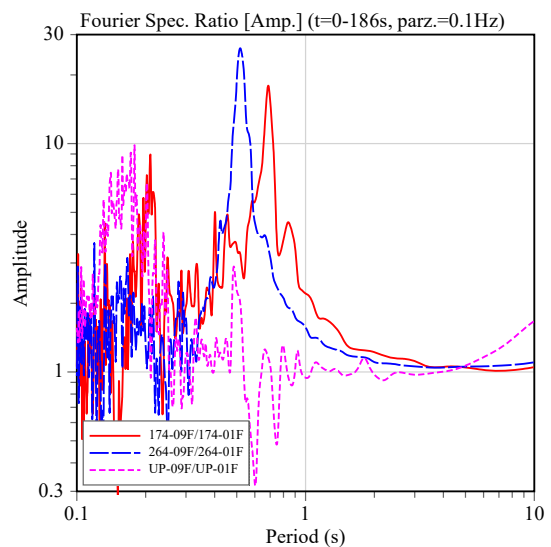


Fig. 3.4 Fourier spectral ratio of 09F/01F at the station OIT