


Raw Data for 2011 March 11 Tohoku M9 EQ

http://www.kyoshin.bosai.go.jp/kyoshin/quake/index_en.html



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NIED
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PAGE ACCESS **0015050958**
DATA DOWNLOAD **0406329888**

**Strong-motion
Seismograph Networks
(K-NET, KIK-net)**

Japanese

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You can download strong-motion data by selecting an earthquake from monthly earthquake list.

[>>Data Download after Search for Earthquakes](#)

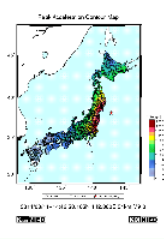
Earthquake List

Refresh List

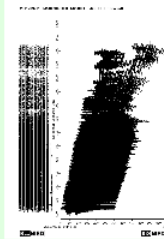
Data Type K-NET & KiK-net Mar 2011

Origin time ▼ Latitude Longitude Depth Magnitude Number of sites

2011/03/11-16:29:00.00	39.03N	142.28E	036km	M6.5	323sites
2011/03/11-15:26:00.00	37.84N	144.89E	034km	M7.5	868sites
2011/03/11-15:15:00.00	36.11N	141.26E	043km	M7.7	754sites
2011/03/11-15:13:00.00	37.20N	141.66E	027km	M6.1	240sites
2011/03/11-15:09:00.00	39.84N	142.78E	032km	M7.4	418sites
2011/03/11-15:08:00.00	35.18N	139.03E	006km	M4.6	096sites
2011/03/11-15:06:00.00	39.04N	142.40E	027km	M6.4	251sites
2011/03/11-14:58:00.00	37.67N	141.91E	023km	M6.4	281sites
2011/03/11-14:54:00.00	37.50N	141.33E	036km	M5.8	184sites
2011/03/11-14:51:00.00	36.73N	142.03E	011km	M6.8	397sites
2011/03/11-14:46:00.00	38.10N	142.86E	024km	M9.0	1226sites
2011/03/11-03:14:00.00	38.80N	140.86E	005km	M3.4	022sites



The Number of Stations



K-NET ASCII Format([Details](#))
 K-NET Binary Format([Details](#))

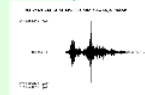
Peak Acceleration ▼
 Record Section ▼

Download All Data
Max Acceleration List
Animation

Data List

Network Site code Recording start time Latitude Longitude Peak acceleration Intensity Epicentral distance Site name

K-NET	MYG004	2011/03/11-14:46:51	38.73N	141.02E	2933.2gal	6.6	0175km	TSUKIDATE
K-NET	MYG012	2011/03/11-14:46:50	38.32N	141.02E	2018.9gal	6.0	0163km	SHIOGAMA
K-NET	IBR003	2011/03/11-14:47:05	36.59N	140.65E	1845.2gal	6.4	0258km	HITACHI
K-NET	MYG013	2011/03/11-14:46:50	38.27N	140.93E	1807.8gal	6.3	0170km	SENDAI
K-NET	IBR013	2011/03/11-14:47:17	36.16N	140.49E	1762.3gal	6.4	0301km	HOKOTA
































Downloaded Data:






























Duration 300 sec at dt=0.01 sec






























Processed by G. Wu:

- Cropped to 210 sec, i.e., keeping 20.0 – 230.0 sec. Time interval, unchanged at 0.01 sec
- Baseline corrected
- Filtered with High Pass 0.1 Hz
- “aaa” data: accelerations in unit of g. (1 g = 9.81 m/s²)

























Borehole Motion Records

























 FKSH09_filtered.EW1.aaa
 FKSH12_filtered.EW1.aaa
 FKSH17_filtered.EW1.aaa
 FKSH18_filtered.EW1.aaa
 FKSH19_filtered.EW1.aaa
 IBRH13_filtered.EW1.aaa
 IBRH14_filtered.EW1.aaa
 IBRH15_filtered.EW1.aaa
 IBRH16_filtered.EW1.aaa
 IWTH02_filtered.EW1.aaa
 IWTH03_filtered.EW1.aaa
 IWTH04_filtered.EW1.aaa
 IWTH05_filtered.EW1.aaa
 IWTH07_filtered.EW1.aaa
 IWTH08_filtered.EW1.aaa
 IWTH09_filtered.EW1.aaa
 IWTH13_filtered.EW1.aaa
 IWTH14_filtered.EW1.aaa
 IWTH17_filtered.EW1.aaa
 IWTH18_filtered.EW1.aaa
 IWTH21_filtered.EW1.aaa
 IWTH22_filtered.EW1.aaa
 IWTH23_filtered.EW1.aaa
 IWTH27_filtered.EW1.aaa
 MYGH02_filtered.EW1.aaa
 MYGH03_filtered.EW1.aaa
 MYGH04_filtered.EW1.aaa
 MYGH12_filtered.EW1.aaa
 TCGH13_filtered.EW1.aaa

























 FKSH09_filtered.NS1.aaa
 FKSH12_filtered.NS1.aaa
 FKSH17_filtered.NS1.aaa
 FKSH18_filtered.NS1.aaa
 FKSH19_filtered.NS1.aaa
 IBRH13_filtered.NS1.aaa
 IBRH14_filtered.NS1.aaa
 IBRH15_filtered.NS1.aaa
 IBRH16_filtered.NS1.aaa
 IWTH02_filtered.NS1.aaa
 IWTH03_filtered.NS1.aaa
 IWTH04_filtered.NS1.aaa
 IWTH05_filtered.NS1.aaa
 IWTH07_filtered.NS1.aaa
 IWTH08_filtered.NS1.aaa
 IWTH09_filtered.NS1.aaa
 IWTH13_filtered.NS1.aaa
 IWTH14_filtered.NS1.aaa
 IWTH17_filtered.NS1.aaa
 IWTH18_filtered.NS1.aaa
 IWTH21_filtered.NS1.aaa
 IWTH22_filtered.NS1.aaa
 IWTH23_filtered.NS1.aaa
 IWTH27_filtered.NS1.aaa
 MYGH02_filtered.NS1.aaa
 MYGH03_filtered.NS1.aaa
 MYGH04_filtered.NS1.aaa
 MYGH12_filtered.NS1.aaa
 TCGH13_filtered.NS1.aaa

 FKSH09_filtered.UD1.aaa
 FKSH12_filtered.UD1.aaa
 FKSH17_filtered.UD1.aaa
 FKSH18_filtered.UD1.aaa
 FKSH19_filtered.UD1.aaa
 IBRH13_filtered.UD1.aaa
 IBRH14_filtered.UD1.aaa
 IBRH15_filtered.UD1.aaa
 IBRH16_filtered.UD1.aaa
 IWTH02_filtered.UD1.aaa
 IWTH03_filtered.UD1.aaa
 IWTH04_filtered.UD1.aaa
 IWTH05_filtered.UD1.aaa
 IWTH07_filtered.UD1.aaa
 IWTH08_filtered.UD1.aaa
 IWTH09_filtered.UD1.aaa
 IWTH13_filtered.UD1.aaa
 IWTH14_filtered.UD1.aaa
 IWTH17_filtered.UD1.aaa
 IWTH18_filtered.UD1.aaa
 IWTH21_filtered.UD1.aaa
 IWTH22_filtered.UD1.aaa
 IWTH23_filtered.UD1.aaa
 IWTH27_filtered.UD1.aaa
 MYGH02_filtered.UD1.aaa
 MYGH03_filtered.UD1.aaa
 MYGH04_filtered.UD1.aaa
 MYGH12_filtered.UD1.aaa
 TCGH13_filtered.UD1.aaa

24 Surface Motion Records

 FKS005_filtered.EW.aaa
 FKS007_filtered.EW.aaa
 FKSH09_filtered.EW2.aaa
 IBRH14_filtered.EW2.aaa
 IBRH16_filtered.EW2.aaa
 IWT008_filtered.EW.aaa
 IWT009_filtered.EW.aaa
 IWTH03_filtered.EW2.aaa
 IWTH09_filtered.EW2.aaa
 IWTH13_filtered.EW2.aaa
 IWTH14_filtered.EW2.aaa
 IWTH17_filtered.EW2.aaa
 IWTH18_filtered.EW2.aaa
 IWTH23_filtered.EW2.aaa
 IWTH27_filtered.EW2.aaa
 MYG002_filtered.EW.aaa
 MYG003_filtered.EW.aaa
 MYG008_filtered.EW.aaa
 MYG009_filtered.EW.aaa
 MYG011_filtered.EW.aaa
 MYGH03_filtered.EW2.aaa
 MYGH04_filtered.EW2.aaa
 MYGH06_filtered.EW2.aaa
 MYGH12_filtered.EW2.aaa

 FKS005_filtered.NS.aaa
 FKS007_filtered.NS.aaa
 FKSH09_filtered.NS2.aaa
 IBRH14_filtered.NS2.aaa
 IBRH16_filtered.NS2.aaa
 IWT008_filtered.NS.aaa
 IWT009_filtered.NS.aaa
 IWTH03_filtered.NS2.aaa
 IWTH09_filtered.NS2.aaa
 IWTH13_filtered.NS2.aaa
 IWTH14_filtered.NS2.aaa
 IWTH17_filtered.NS2.aaa
 IWTH18_filtered.NS2.aaa
 IWTH23_filtered.NS2.aaa
 IWTH27_filtered.NS2.aaa
 MYG002_filtered.NS.aaa
 MYG003_filtered.NS.aaa
 MYG008_filtered.NS.aaa
 MYG009_filtered.NS.aaa
 MYG011_filtered.NS.aaa
 MYGH03_filtered.NS2.aaa
 MYGH04_filtered.NS2.aaa
 MYGH06_filtered.NS2.aaa
 MYGH12_filtered.NS2.aaa

 FKS005_filtered.UD.aaa
 FKS007_filtered.UD.aaa
 FKSH09_filtered.UD2.aaa
 IBRH14_filtered.UD2.aaa
 IBRH16_filtered.UD2.aaa
 IWT008_filtered.UD.aaa
 IWT009_filtered.UD.aaa
 IWTH03_filtered.UD2.aaa
 IWTH09_filtered.UD2.aaa
 IWTH13_filtered.UD2.aaa
 IWTH14_filtered.UD2.aaa
 IWTH17_filtered.UD2.aaa
 IWTH18_filtered.UD2.aaa
 IWTH23_filtered.UD2.aaa
 IWTH27_filtered.UD2.aaa
 MYG002_filtered.UD.aaa
 MYG003_filtered.UD.aaa
 MYG008_filtered.UD.aaa
 MYG009_filtered.UD.aaa
 MYG011_filtered.UD.aaa
 MYGH03_filtered.UD2.aaa
 MYGH04_filtered.UD2.aaa
 MYGH06_filtered.UD2.aaa
 MYGH12_filtered.UD2.aaa

13 Records of 2010 February 27 Maule M8.8 EQ

https://strongmotioncenter.org/cgi-bin/CESMD/iqr_dist_DM2.pl?iqrid=chile_27feb2010_us2010tfan

downloaded, and baseline corrected.

3D: (x, y), (L, T), (NS, EW) are notations for pair of 2 horizontal components;
Z, UP, V are notations for vertical component.

13 Surface Motion Records

 ANTU_X.aaa	 ANTU_Y.aaa	 ANTU_Z.aaa
 CURICO_-EW.aaa	 CURICO_-NS.aaa	 CURICO_-V.aaa
 HUALANE_-L.aaa	 HUALANE_-T.aaa	 HUALANE_-V.aaa
 LACH_X.aaa	 LACH_Y.aaa	 LACH_Z.aaa
 MAIPU_L.aaa	 MAIPU_T.aaa	 MAIPU_UP.aaa
 P-Alto_L.aaa	 P-Alto_T.aaa	 P-Alto_UP.aaa
 PAPU_L.aaa	 PAPU_T.aaa	 PAPU_UP.aaa
 ROC1_X.aaa	 ROC1_Y.aaa	 ROC1_Z.aaa
 SJCH_X.aaa	 SJCH_Y.aaa	 SJCH_Z.aaa
 STGOLAFLOLIDA_X.aaa	 STGOLAFLOLIDA_Y.aaa	 STGOLAFLOLIDA_Z.aaa
 STL_X.aaa	 STL_Y.aaa	 STL_Z.aaa
 TALCA_-L.aaa	 TALCA_-T.aaa	 TALCA_-V.aaa
 UTFSM_L.aaa	 UTFSM_T.aaa	 UTFSM_UP.aaa

13 Maule Records : More meta data

Sequence on CESMD site	Station	Code/ID	Network	Distance (km)		PGA(g)	NA - not available	file type	Ref. 1 (2016)	Vs30 _{GWu}
				Epic.	Fault				Sta.	
29	Recinto d. SHOA, Cerro El Roble	ROC1	UCS	361.6	92.7	0.188		smc	ROC1	1951
20	Valparaiso UTFSM	VAU	UCS	335.4	63.8	0.304		v2		1421
16	Cerro Santa Lucia	STL	UCS	334.2	77	0.339		smc	STL	1411
28	Santiago La Florida	ME	UCS	362.7	96.1	0.236 0.186		v2	STGO04R	685
8	Talca	TAL	UCS	113.1	59.1	0.477		v2		640
24	Cien Agronomicas, UC, La Plantina	ANTU	UCS	323.1	72.6	0.27		smc	ANTU	621
19	Colegio Las Americas	LACH	UCS	339.3	81.9	0.308		smc	LACH	574
7	Municip. San Jose de Maipo	SJCH	UCS	332.8	87.3	0.48		smc	SJCH	556
9	Curico	CUR	UCS	170.5	65.1	0.471		v2		540
11	Hualane	HUA	UCS	136	50	0.461		v2		527
12	Papudo	PAP	UCS	394.1	116.2	0.421		v2		517
25	Santiago Puente Alto	HSOT	UCS	325.2	75	0.265		v2	STGO05R	496

The End

2019 June

by Dr. G. Wu