

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)	Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)	
NOV 1d 06h 40m 29.1 \pm 0.19s, SD1.39 / 86 21.00 S \pm 4.01km, 68.19 W \pm 4.28km, h127 \pm 1.52km Chile-Bolivia border region (124) m_B 5.9 / 15,																
KSH	144.2	51	ePKP	06 59 50.5	-0.7			SSE	166.9	322	PPMZ		m_B = 5.9	6.0	0.77	
			pPKP	07 00 28.0	4.3						SKKS	07 11 47.0	0.8			
			PP	07 03 14.5	4.6						LN			9.0	0.50	
			SKS	07 06 41.5	-3.1						LE			12.0	1.00	
			SKKS	07 09 46.0	1.2						PKP	07 00 21.0	0.5			
WMQ	149.7	36	iPKP	07 00 00.2	-0.1						PKP2	07 01 24.0	-1.3			
			PP	07 03 40.5	-0.3						PP	07 05 08.0	-6.1			
			PPMZ		m_B = 5.9	12.0	1.06				PPMZ		m_B = 5.5	8.0	0.46	
			SKKS	07 10 17.5	1.7						LE			12.0	0.53	
			LZ			28.0	1.69				LZ			21.0	0.95	
MDJ	152.2	332	ePKP	07 00 04.0	0.0			NJ2	167.3	332	-PKP	07 00 19.0	-1.8			
			PKP2	07 00 22.0	-0.2						PP	07 05 19.0	2.7			
CN2	154.6	337	PKP	07 00 07.0	-0.2						LZ			26.0	1.02	
			pPKP	07 00 37.0	-3.3			CD2	167.8	35	PKP	07 00 21.8	0.6			
			PKP2	07 00 30.0	-2.1						pPKP	07 01 01.0	6.7			
			PP	07 04 11.0	2.7						PP	07 05 16.0	-2.5			
			SS	07 23 37.0	-0.1			WHN	170.2	347	SKKS	07 11 51.0	-0.2			
			LZ			19.0	0.90				PKP	07 00 23.0	0.4			
SNY	157.0	337	PKP	07 00 09.0	-1.4						PKP2	07 01 41.0	1.0			
			pPKP	07 00 42.0	-1.5			KMI	170.7	62	SKKS	07 12 05.0	1.5			
			LZ			24.0	1.10				PKP	07 00 23.5	0.4			
GTA	159.0	27	iPKP	07 00 13.6	0.6						PKP2	07 01 41.5	-0.6			
			PKP2	07 00 49.6	-1.3						PP	07 05 32.0	-1.2			
			PP	07 04 28.0	-4.5						PPMZ		m_B = 5.8	8.0	0.90	
			SKKS	07 11 06.0	-0.2			QZH	172.6	303	SKKS	07 12 03.5	-2.4			
			LZ			22.0	1.48				ePKP	07 00 23.0	-0.8			
LSA	159.4	61	iPKP	07 00 15.6	1.7						PP	07 05 41.0	-1.8			
			pPKP	07 00 51.0	4.5			GYA	172.8	40	PKP	07 00 24.4	0.3			
			PP	07 04 32.0	-2.9						pPKP	07 01 03.0	5.9			
HHC	160.2	1	+PKP	07 00 11.4	-3.0						PKP2	07 01 50.0	-1.4			
			pPKP	07 00 54.0	6.7						pPKP2	07 02 27.0				
			PP	07 04 38.5	-0.4						PP	07 05 46.0	2.3			
			PPMZ		m_B = 5.9	10.0	1.30				PPMZ		m_B = 6.1	5.0	1.20	
DL2	160.3	337	ePKP	07 00 15.0	0.7			QZN	177.3	136	PKP	07 00 25.0	-0.3			
			SS	07 24 36.0	-0.5						pPKP	07 01 04.0	5.5			
BTO	160.4	4	PKP	07 00 15.5	-0.9						PKP2	07 02 14.0	2.6			
			pPKP	07 00 53.0	5.5						PP	07 06 05.0	-0.1			
			SKKS	07 11 12.0	-1.8			GZH	177.5	326	SKS	07 07 20.0	7.8			
BJI	160.7	350	-PKP	07 00 15.5	0.8						SKKS	07 12 32.0	-4.7			
			pPKP	07 00 52.0	4.2						PKP	07 00 25.0	-0.3			
			PP	07 04 43.0	1.2						PP	07 06 06.0	0.0			
			PPMZ		m_B = 5.4	10.0	0.38				PPMZ		m_B = 6.0	8.0	1.50	
			eSKKS	07 11 15.0	-0.6						SKS	07 07 08.0	-4.2			
			LZ			27.0	1.22				SS	07 27 28.0	1.3			
TIY	163.3	358	ePKP	07 00 18.2	0.7			NOV 1d 09h 49m 27.0 \pm 0.11s, SD1.28 / 94 2.58 N \pm 1.30km, 128.19 E \pm 1.80km, h41 \pm 0.63km Molucca Passage (266) M_S 5.2 / 43, m_B 6.0 / 32, m_b 5.6 / 17,								
			pPKP	07 00 55.5	5.1			QZH	24.1	338	-iP	09 54 40.0	0.1			
			SKKS	07 11 29.0	-0.1						PMZ		m_B = 5.5	5.0	0.98	
			SS	07 25 04.0	-4.4						S	09 58 53.0	2.0			
			LZ			32.0	2.31				LN		M_S = 4.8	10.0	1.12	
LZH	163.4	23	-PKP	07 00 18.0	0.3						LZ		M_S = 4.8	22.0	3.24	
			pPKP	07 00 55.0	4.5						QZN	24.3	314	-P	09 54 40.0	-1.9
			sPKP	07 01 10.0	5.8						PMZ		m_B = 6.0	6.0	3.80	
			PP	07 04 51.0	-5.2						PP	09 55 15.5	-1.4			
			SKKS	07 11 31.0	1.4						eS	09 58 51.5	-3.7			
			SS	07 25 08.0	-1.5						LE		M_S = 5.1	17.0	3.40	
			LZ			46.0	3.04	GZH	24.9	326	P	09 54 48.0	-0.4			
TIA	164.1	344	PKP	07 00 18.5	0.3						PMZ		m_b = 5.5	2.0	0.41	
XAN	166.8	11	PKP	07 00 20.5	0.0						PMZ		m_B = 5.3	5.0	0.53	
			pPKP	07 01 00.0	6.4						pP	09 54 58.0	-0.6			
			PP	07 05 11.0	-2.5											



		LN	$M_s = 5.1$	14.0	2.10				eScP	10 02 47.0	2.8		
		LE		14.0	2.00				eScS	10 06 57.0	3.2		
		LZ	$M_s = 5.0$	22.0	5.27				LN	$M_s = 5.1$	15.0	1.32	
SSE	29.1 348	+P	09 55 28.0	1.4					LZ	$M_s = 4.7$	22.0	1.23	
		PMZ	$m_b = 4.9$	1.0	0.024	SNY	39.3 355		-iP	09 56 54.0	0.0		
		PMZ	$m_b = 5.9$	4.0	0.96				PMZ	$m_b = 5.3$	0.9	0.041	
		PcP	09 58 35.5	2.2					pP	09 57 06.5	1.8		
		S	10 00 20.0	6.5					sP	09 57 11.8	2.4		
		sS	10 00 30.0	-2.1					S	10 02 51.0	0.0		
		LN	$M_s = 5.2$	10.0	1.07				LZ	$M_s = 5.1$	25.0	3.35	
		LE		10.0	1.56	LZH	40.2 329		-iP	09 57 03.4	1.4		
		LZ	$M_s = 4.7$	20.0	1.86				PMZ	$m_b = 6.2$	2.5	0.92	
NJ2	30.6 344	eP	09 55 45.0	5.2					PMZ	$m_b = 6.3$	5.0	2.33	
		eS	10 00 36.0	-1.7					pP	09 57 12.0	-0.5		
		LN	$M_s = 5.3$	10.0	1.34				sP	09 57 18.0	0.9		
		LE		11.0	1.78				ScP	10 02 54.0	4.5		
		LZ	$M_s = 4.8$	17.0	1.78				eS	10 03 10.5	4.2		
WHN	30.7 336	-P	09 55 42.0	1.0					ScS	10 07 04.0	2.2		
		PMZ	$m_b = 6.0$	6.0	1.74				LN	$M_s = 5.3$	13.0	1.32	
		sP	09 55 56.0	0.0					LE		17.0	1.80	
		S	10 00 40.0	0.9					LZ	$M_s = 5.4$	28.0	7.00	
		LN	$M_s = 5.6$	10.0	2.97	HHC	40.9 341		+P	09 57 07.8	-0.1		
		LE		10.0	2.86				sP	09 57 19.0	-4.1		
		LZ	$M_s = 5.0$	22.0	3.26				PP	09 58 44.0	-1.5		
GYA	31.5 321	-P	09 55 48.0	0.4					PPMZ		6.0	0.80	
		PMZ	$m_b = 6.2$	4.0	1.60				S	10 03 20.0	4.3		
		pP	09 55 58.0	0.2					LN	$M_s = 5.3$	12.0	1.26	
		PcP	09 58 35.0	-4.3					LE		12.0	0.82	
		ScP	10 02 21.6	3.9					LZ	$M_s = 5.2$	18.0	3.15	
		ScS	10 06 19.0	5.0					eP	09 57 10.0	0.8		
		LN	$M_s = 5.2$	16.0	2.30	CN2	41.1 357		epP	09 57 21.0	1.1		
		LE		16.0	1.60				eS	10 03 22.0	2.8		
		LZ	$M_s = 4.8$	20.0	2.10				LN	$M_s = 5.2$	12.0	0.80	
KMI	33.2 315	-P	09 56 02.5	-0.4					LE		12.0	0.90	
		PMZ	$m_b = 5.8$	2.0	0.30				LZ	$M_s = 5.0$	20.0	2.20	
		PMZ	$m_b = 5.9$	6.0	1.30	BTO	41.3 339		+iP	09 57 12.0	1.5		
		pP	09 56 12.5	-0.7					sP	09 57 26.0	0.4		
		sP	09 56 16.0	-1.7					PP	09 58 48.0	-0.8		
		eS	10 01 22.0	2.9					S	10 03 25.5	5.2		
		sS	10 01 37.0	0.4					LN	$M_s = 5.2$	13.0	1.20	
		LN	$M_s = 5.0$	16.0	1.60				LE		13.0	0.80	
		LZ	$M_s = 5.2$	18.0	4.60	MDJ	41.9 2		eP	09 57 15.0	-0.4		
TIA	35.0 344	eP	09 56 18.0	0.0					PMZ	$m_b = 5.2$	1.0	0.036	
		S	10 01 50.0	4.7					S	10 03 32.0	2.5		
		SMN	$m_b = 5.6$	10.0	1.28				LN	$M_s = 5.2$	12.0	1.13	
		LE	$M_s = 5.2$	12.0	1.80	LSA	44.3 311		P	09 57 36.0	0.5		
XAN	36.1 332	-P	09 56 27.0	-0.4					PMZ	$m_b = 6.2$	4.0	1.60	
		S	10 02 04.0	1.7					pP	09 57 45.0	-0.8		
		LN	$M_s = 5.1$	9.0	0.54				PP	09 59 22.0	2.4		
		LE		11.0	0.98				S	10 04 09.0	4.4		
CD2	36.4 323	eP	09 56 29.7	-0.5					GTA	44.8 329	-iP	09 57 40.0	0.5
		LE	$M_s = 5.3$	12.0	1.88				S	10 04 10.0	-2.4		
		LZ	$M_s = 4.5$	24.0	1.00				LN	$M_s = 5.2$	12.0	1.00	
DL2	36.6 351	eP	09 56 34.5	2.6					LZ	$M_s = 5.3$	20.0	3.60	
		eS	10 02 14.0	2.3					WMQ	54.5 325	-iP	09 58 53.4	-0.1
		LN	$M_s = 5.5$	11.0	2.50				PMZ	$m_b = 6.3$	4.0	1.63	
TIY	37.8 339	eP	09 56 40.0	-2.0					PP	10 00 56.3	0.1		
		PMZ	$m_b = 6.1$	1.0	0.31				S	10 06 32.0	5.2		
		PP	09 58 10.0	-1.3					LZ	$M_s = 5.4$	28.0	4.22	
		S	10 02 29.5	0.6					KSH	59.9 315	P	09 59 32.0	-0.1
		sS	10 02 45.0	-2.9					pP	09 59 42.0	-0.9		
		LE	$M_s = 5.2$	12.0	1.45				eS	10 07 40.5	0.7		
		LZ	$M_s = 4.9$	20.0	1.75				LE	$M_s = 5.5$	10.0	1.10	
BJI	38.8 345	eP	09 56 49.5	-0.8					NOV 1d 10h 25m $53.2 \pm 0.06s$, SD1.01 / 12				
		PMZ	$m_b = 6.0$	1.0	0.23				19.06 N $\pm 1.00km$, 68.79 W $\pm 1.03km$, h33 $\pm 0.15km$				
		PMZ	$m_b = 5.3$	10.0	0.51				Dominican Republic region (88)				
		ePcP	09 59 03.0	2.2					XAN	127.2 2 PKP	10 44 56.5	1.0	
		eS	10 02 46.0	0.8									



NOV 1d 11h 30m 01.9 ± 0.14s, SD1.51 / 88				NOV 1d 11h 46m 59.6 ± 0.04s, SD1.13 / 18											
10.91 S ± 2.65km, 162.20 E ± 2.25km, h60 ± 0.55km				10.96 S ± 0.89km, 162.26 E ± 1.48km, h53 ± 0.37km											
Solomon Islands (193)				Solomon Islands (193)											
M _S 5.6 / 22, m _B 5.8 / 10, m _b 5.5 / 12,				M _S 5.3 / 1, m _B 4.9 / 1,											
QZH	55.5	311	eP	11 39 34.0	0.6			LN			M _S = 5.9	16.0	1.53		
			eS	11 47 09.0	-2.9			LE				15.0	2.60		
			LZ			M _S = 5.2	20.0 2.12	LZ				2.0	2.10		
SSE	57.4	318	eP	11 39 43.0	-3.9			CD2	69.8	309	eP	11 41 07.8	-0.7		
			PMZ		m _B = 4.7	1.1	0.011				eS	11 50 18.0	6.4		
			LN		M _S = 5.5	16.0	0.94				LZ		M _S = 5.2	20.0 1.30	
			LE			16.0	1.47	BTO	70.3	320	eP	11 41 12.0	0.1		
			LZ		M _S = 5.2	20.0	1.86				sP	11 41 35.0	1.6		
NJ2	59.5	317	-P	11 40 01.0	-0.9						PP	11 43 50.5	2.0		
			LN		M _S = 5.6	18.0	2.66				eS	11 50 20.0	1.9		
QZN	59.6	300	eP	11 40 05.0	2.8			LZH	72.1	314	eP	11 41 23.5	0.8		
			PP	11 42 19.0	4.2						PMZ		m _B = 5.6	2.5 0.19	
			eS	11 48 09.0	3.3						PMZ		m _B = 5.8	5.0 0.62	
			LN		M _S = 5.4	18.0	1.00				eS	11 50 37.0	-2.0		
			LE			16.0	1.36				LE		M _S = 5.7	20.0 2.61	
WHN	61.7	313	eP	11 40 16.0	-0.9			GTA	76.5	315	+P	11 41 48.2	0.2		
			pP	11 40 30.5	-1.5			LSA	79.3	303	P	11 42 05.0	0.8		
			S	11 48 32.0	-0.2			WMQ	86.5	316	-P	11 42 40.8	0.3		
			LN		M _S = 5.8	20.0	3.77				S	11 53 04.5	-4.4		
			LE			20.0	2.59				LZ		M _S = 5.3	24.0 1.55	
			LZ		M _S = 5.4	20.0	2.51	KSH	94.0	309	eP	11 43 20.0	4.4		
DL2	62.3	325	eP	11 40 22.5	1.6			NOV 1d 12h 24m 01.7 ± 0.09s, SD1.68 / 81							
			LZ		M _S = 5.1	20.0	1.51	39.46 N ± 2.20km, 143.23 E ± 1.93km, h32 ± 0.73km							
MDJ	62.7	334	eP	11 40 23.4	0.3			Near east coast of Honshu (228)							
			PMZ		m _B = 5.3	1.2	0.048	M _S 4.9 / 23, m _B 5.7 / 1, m _b 5.1 / 19,							
			LN		M _S = 5.8	20.0	3.85	MDJ	11.4	301	eP	12 26 46.5	1.3		
			S	11 48 50.0	6.3						sP	12 26 56.7	0.0		
SNY	63.3	329	eP	11 40 26.6	-1.1						S	12 28 56.0	4.1		
			PMZ		m _B = 5.5	12.0	0.78				LE		M _S = 4.7	14.0 4.27	
			eS	11 48 50.0	-3.5						eP	12 27 20.0	-0.1		
			sS	11 49 16.0	-3.7						PMZ		m _B = 5.0	1.2 0.030	
			LZ		M _S = 5.2	22.0	1.68				PMZ		m _B = 5.7	5.0 0.70	
CN2	63.9	331	+P	11 40 30.6	-0.6						pP	12 27 28.0	0.9		
			PMZ		m _B = 5.7	1.4	0.14				eS	12 29 55.0	-0.4		
			PMZ		m _B = 6.1	4.0	0.90				LN		M _S = 4.7	12.0 1.70	
			pP	11 40 46.0	-0.4						LE		M _S = 4.5	17.0 3.00	
			eS	11 49 00.0	-0.3						LZ		M _S = 4.5	17.0 3.00	
			eSS	11 53 10.0	0.4			SNY	15.1	285	+P	12 27 35.7	1.0		
			LN		M _S = 5.5	14.0	0.70				PMZ		m _B = 5.5	1.2 0.26	
			LE			14.0	1.20				sS	12 30 38.0	5.0		
			LZ		M _S = 5.3	18.0	1.80				LZ		M _S = 4.8	18.0 5.50	
GYA	65.5	306	P	11 40 42.0	0.3			DL2	16.8	275	eP	12 27 59.0	3.1		
			S	11 49 19.0	0.3			SSE	19.8	252	eP	12 28 32.0	-0.6		
			LZ		M _S = 5.1	20.0	1.20				PMZ		m _B = 4.8	1.0 0.052	
BJI	66.2	323	eP	11 40 46.5	0.2						pP	12 28 39.5	-1.2		
			PMZ		m _B = 5.1	1.5	0.039				LN		M _S = 4.8	12.0 1.01	
			PMZ		m _B = 5.7	6.0	0.57				LE			11.0 1.19	
			eS	11 49 28.0	-1.0						LZ		M _S = 4.3	20.0 1.40	
			LN		M _S = 5.4	17.0	1.28	BJI	20.8	280	eP	12 28 40.0	-2.9		
			LZ		M _S = 5.1	24.0	1.59				PMZ		m _B = 5.0	1.5 0.10	
TIY	67.1	319	eP	11 40 51.9	-0.2						ePP	12 29 04.0	-0.9		
			S	11 49 44.0	5.4						eS	12 32 25.0	-3.5		
			LE		M _S = 5.5	16.0	1.63				LN		M _S = 4.9	12.0 0.97	
			LZ		M _S = 5.3	18.0	1.82				LE			14.0 1.99	
XAN	67.5	314	P	11 40 53.2	-1.1										
KMI	68.1	303	+P	11 40 58.0	-0.3										
			pP	11 41 16.0	2.7										
			sP	11 41 21.0	1.3										
			ScS	11 50 46.0	-0.7										
			LE		M _S = 6.0	20.0	6.30								
			LZ		M _S = 5.7	20.0	4.30								
HHC	69.5	321	P	11 41 09.5	2.6										
			S	11 50 11.3	4.3										



		S	18 36 35.0	-1.2		
		LN	$M_s = 7.3$	18.0	313	
		LE		18.0	271	
LZH	30.8 276	+iP	18 31 49.5	0.4		
		PMZ	$m_b = 6.6$	4.0	4.34	
		pP	18 31 56.0	-1.3		
		sP	18 32 04.0	3.0		
		iS	18 36 51.0	1.3		
GYA	32.8 257	+iP	18 32 07.0	-0.2		
		PMZ	$m_b = 7.0$	6.0	13.6	
		sP	18 32 22.0	2.9		
		PP	18 33 20.0	3.3		
		S	18 37 18.0	-2.9		
		LN	$M_s = 7.5$	15.0	345	
		LE		15.0	358	
CD2	32.8 267	P	18 32 07.0	-0.2		
		S	18 37 20.0	-0.9		
		LE	$M_s = 7.3$	18.0	365	
GTA	32.9 283	+iP	18 32 07.6	0.1		
		pP	18 32 16.0	0.2		
		sP	18 32 21.0	1.6		
		PP	18 33 16.0	-1.1		
		S	18 37 19.0	-2.4		
		LE	$M_s = 7.6$	15.0	536	
QZN	35.1 243	+iP	18 32 28.0	1.3		
		pP	18 32 38.0	2.8		
		sP	18 32 41.0	2.2		
		PP	18 33 46.0	0.7		
		S	18 37 57.0	0.8		
		LE	$M_s = 7.4$	16.0	369	
KMI	36.5 259	+P	18 32 40.0	1.1		
		PMZ	$m_b = 6.5$	2.0	1.70	
		PMZ	$m_b = 7.0$	8.0	19.1	
		sP	18 32 53.0	2.2		
		iS	18 38 15.0	-4.2		
		LN	$M_s = 7.7$	16.0	600	
WMQ	40.6 294	P	18 33 13.1	0.3		
		S	18 39 20.0	0.4		
LSA	43.1 273	+P	18 33 33.0	-0.6		
		PMZ	$m_b = 7.0$	5.0	12.0	
		pP	18 33 41.5	-0.2		
		S	18 39 59.8	3.5		
		SME	$m_b = 6.9$	10.0	20.3	
		LN	$M_s = 7.5$	16.0	298	
KSH	50.3 292	+iP	18 34 31.0	0.7		
		eS	18 41 41.0	0.5		
		LE	$M_s = 7.1$	8.0	49.7	

NOV 1d 18h 36m $32.4 \pm 0.06s$, SD1.22 / 76
 $39.64 N \pm 1.32km$, $143.10 E \pm 1.34km$, $h29 \pm 0.39km$
 Near east coast of Honshu (228)
 $M_s 7.0 / 10$, $m_b 6.9 / 2$, $m_b 6.1 / 20$,

MDJ	11.2 301	eP	18 39 15.5	1.7		
		PMZ	$m_b = 5.9$	1.2	0.35	
		sS	18 41 25.5	-4.3		
		LE	$M_s = 6.7$	13.0	353	
CN2	13.8 293	-iP	18 39 49.8	0.8		
SNY	15.0 285	+iP	18 40 04.0	0.1		
		PMZ	$m_b = 5.9$	1.2	0.27	
SSE	19.8 251	-P	18 41 00.5	-2.7		
		PMZ	$m_b = 5.8$	1.1	0.57	
		PP	18 41 16.0	-5.5		
BJI	20.7 280	eP	18 41 12.5	-0.2		
TIA	20.8 269	+P	18 41 11.2	-2.5		
TIY	24.0 275	-P	18 41 45.0	-0.7		
WHN	25.1 258	+iP	18 41 58.0	1.2		
		PMZ	$m_b = 6.4$	1.1	1.13	
		sP	18 42 09.0	0.1		

		LN	$M_s = 7.3$			
		LE				
QZH	25.3 242	eP	18 41 58.0	-0.1		
XAN	27.8 269	P	18 42 21.5	-0.2		
LZH	31.0 276	+iP	18 42 50.0	-0.5		
		PMZ	$m_b = 6.3$	2.0	1.08	
		LE	$M_s = 7.2$	15.0	268	
GYA	33.0 258	+iP	18 43 08.0	0.1		
		PMZ	$m_b = 6.6$	1.4	1.34	
		sP	18 43 17.8	-2.1		
		S	18 48 25.0	2.2		
GTA	33.2 284	+iP	18 43 09.8	0.7		
		S	18 48 22.0	-2.8		
		LE	$M_s = 7.1$	12.0	154	
QZN	35.2 244	eP	18 43 26.6	-0.2		
KMI	36.7 259	+iP	18 43 40.5	1.0		
		PMZ	$m_b = 6.5$	2.0	1.60	
		pP	18 43 47.5	-0.3		
		sP	18 43 50.5	-1.1		
		LN	$M_s = 7.1$	16.0	180	
WMQ	40.9 294	iP	18 44 15.5	1.1		
		S	18 50 24.5	1.3		

NOV 1d 18h 49m $03.4 \pm 0.12s$, SD1.98 / 11
 $39.77 N \pm 1.96km$, $143.07 E \pm 2.38km$, $h44 \pm 0.75km$
 Near east coast of Honshu (228)

SSE	19.8 251	eP	18 53 32.2	-0.8		
BJI	20.6 279	eP	18 53 39.5	-2.2		
WMQ	40.8 294	P	18 56 45.5	2.5		

NOV 1d 19h 52m $44.3 \pm 0.08s$, SD1.41 / 81
 $39.70 N \pm 1.95km$, $143.52 E \pm 1.78km$, $h22 \pm 0.69km$
 Off east coast of Honshu (229)
 $M_s 6.2 / 5$, $m_b 5.1 / 17$,

MDJ	11.4 300	eP	19 55 31.0	1.3		
CN2	14.1 293	eP	19 56 05.0	-0.1		
		pP	19 56 11.0	0.0		
SNY	15.3 284	eP	19 56 19.2	-1.1		
DL2	17.0 274	P	19 56 44.5	2.5		
SSE	20.1 252	P	19 57 17.0	-2.4		
		PMZ	$m_b = 4.9$	1.0	0.059	
		sP	19 57 27.0	-3.0		
BJI	21.0 280	eP	19 57 26.0	-2.5		
		PMZ	$m_b = 5.1$	1.5	0.14	
TIA	21.1 269	+P	19 57 27.2	-2.5		
NJ2	21.3 257	+P	19 57 30.0	-2.4		
		PMZ	$m_b = 4.8$	1.0	0.040	
TIY	24.3 275	-P	19 58 00.7	-0.7		
HHC	24.3 283	-P	19 58 02.0	0.0		
WHN	25.5 258	+iP	19 58 13.5	0.9		
		PMZ	$m_b = 5.8$	1.0	0.24	
		pP	19 58 22.0	2.2		
BTO	25.5 283	eP	19 58 13.2	-0.3		
XAN	28.1 269	P	19 58 37.0	-0.3		
LZH	31.3 276	eP	19 59 06.2	0.2		
		PMZ	$m_b = 5.5$	2.0	0.15	
GYA	33.3 258	+iP	19 59 23.0	-0.4		
		PMZ	$m_b = 5.4$	1.2	0.070	
		pP	19 59 32.0	1.3		
		S	20 04 46.0	4.9		
GTA	33.4 284	+iP	19 59 25.2	0.9		
		LE	$M_s = 6.2$	12.5	17.3	
		LZ	$M_s = 6.1$	12.0	20.8	
KMI	37.0 259	+iP	19 59 55.5	0.5		
		PMZ	$m_b = 5.4$	1.5	0.10	
		pP	20 00 03.5	1.3		
WMQ	41.2 295	+iP	20 00 30.5	1.2		
		S	20 06 46.3	5.9		



LSA 43.7 274 P 20 00 52.0 2.0						Near east coast of Honshu (228)					
NOV 1d 19h 57m 12.2 ± 0.11s, SD1.87 / 19 35.29 N ± 1.15km, 133.40 E ± 1.20km, h33 ± 0.06km Southern Honshu (232) m _b 5.1 / 5,						MDJ 11.3 300 eP 21 43 02.0 1.7 CN2 13.9 292 eP 21 43 40.0 4.2 SSE 20.0 251 eP 21 44 56.0 4.7 NJ2 21.3 256 eP 21 45 08.0 3.8 WHN 25.4 258 -P 21 45 44.3 0.0 sP 21 45 58.5 1.4 XAN 28.0 269 P 21 46 07.2 -1.6 GYA 33.3 258 P 21 46 54.0 -1.2 GTA 33.3 284 P 21 46 55.6 0.0 WMQ 41.0 294 P 21 48 00.5 0.1					
MDJ 9.8 344 eP 19 59 33.5 0.0 SNY 10.1 313 eP 19 59 34.6 -3.3 SSE 11.0 251 eP 19 59 53.1 1.9 PMZ m _b = 4.9 1.0 0.024 BJI 14.4 294 eP 20 00 35.0 -1.3 PMZ m _b = 5.4 1.5 0.10 WHN 16.7 259 +P 20 01 03.9 -1.2 pP 20 01 09.0 -3.6 TIY 17.0 284 -P 20 01 13.3 3.6 LZH 24.0 281 eP 20 02 25.0 -0.1 PMZ m _b = 4.8 1.8 0.074						NOV 1d 21h 53m 24.8 ± 0.06s, SD1.61 / 53 39.83 N ± 2.13km, 143.19 E ± 2.11km, h43 ± 1.15km Near east coast of Honshu (228) m _b 4.2 / 3, MDJ 11.2 300 eP 21 56 06.0 1.2 CN2 13.8 292 eP 21 56 39.5 -0.7 SNY 15.0 284 eP 21 56 55.0 -0.5 SSE 19.9 251 P 21 58 00.0 4.4 BJI 20.7 279 eP 21 58 01.0 -3.0 NJ2 21.1 256 eP 21 58 09.0 0.5 TIY 24.0 275 eP 21 58 37.6 0.6 WHN 25.2 257 -P 21 58 48.8 0.1 XAN 27.9 269 P 21 59 11.5 -1.7 LZH 31.1 276 eP 21 59 41.0 -0.7 PMZ m _b = 4.9 1.5 0.029 GYA 33.1 257 P 21 59 58.4 -1.2 GTA 33.2 283 P 22 00 00.0 0.0 KMI 36.8 259 eP 22 00 31.0 -0.2 pP 22 00 40.0 -2.0 WMQ 40.9 294 P 22 01 05.5 0.6					
NOV 1d 20h 20m 01.2 ± 0.08s, SD1.43 / 95 40.01 N ± 1.79km, 142.69 E ± 1.46km, h55 ± 0.92km Near east coast of Honshu (228) M _s 6.1 / 3, m _b 5.4 / 15,						NOV 1d 22h 34m 25.4 ± 0.08s, SD1.73 / 38 39.39 N ± 2.27km, 143.35 E ± 2.07km, h30 ± 0.97km Near east coast of Honshu (228) m _b 4.1 / 2, MDJ 11.5 301 eP 22 37 11.5 0.9 CN2 14.1 294 eP 22 37 47.5 2.1 BJI 20.9 280 eP 22 39 05.5 -2.4 NJ2 21.2 257 eP 22 39 12.5 1.9 WHN 25.3 258 P 22 39 52.0 1.1 sP 22 40 08.0 4.8 GYA 33.2 258 P 22 41 01.6 -0.3 GTA 33.4 284 eP 22 41 04.2 0.2 WMQ 41.2 295 -iP 22 42 10.6 1.1					
MDJ 10.7 300 eP 20 22 36.5 1.4 sP 20 22 46.5 -4.9 CN2 13.4 292 eP 20 23 12.0 1.4 pP 20 23 16.0 -3.9 SNY 14.6 283 eP 20 23 26.5 0.6 PMZ m _b = 5.3 1.1 0.053 DL2 16.3 273 eP 20 23 51.0 2.8 SSE 19.6 250 +P 20 24 26.0 -1.8 BJI 20.3 279 eP 20 24 32.5 -2.7 PMZ m _b = 4.9 1.5 0.10 TIA 20.4 267 -P 20 24 35.3 -1.6 NJ2 20.8 255 +P 20 24 40.0 -0.6 TIY 23.6 274 eP 20 25 08.5 0.0 HHC 23.7 282 -P 20 25 08.4 -0.4 BTO 24.9 282 eP 20 25 19.8 -0.6 WHN 24.9 257 +P 20 25 21.5 0.7 PMZ m _b = 5.6 1.0 0.26 pP 20 25 32.5 -1.1 ScP 20 32 28.0 -0.1 QZH 25.2 241 P 20 25 24.5 1.2 XAN 27.5 268 P 20 25 43.5 -1.5 GZH 30.0 245 eP 20 26 07.4 0.3 LZH 30.7 275 +P 20 26 12.5 -1.0 PMZ m _b = 5.4 1.5 0.10 GTA 32.8 283 +P 20 26 31.8 0.1 LE M _s = 5.8 12.0 6.64 LZ M _s = 5.4 18.0 7.36 CD2 32.8 266 eP 20 26 30.0 -1.7 GYA 32.8 257 +iP 20 26 32.0 0.0 PMZ m _b = 6.1 1.2 0.38 sP 20 26 56.0 5.2 S 20 31 46.2 3.6 QZN 35.1 243 eP 20 26 52.0 0.2 KMI 36.5 258 +iP 20 27 04.5 1.0 PMZ m _b = 5.9 2.5 0.50 pP 20 27 17.0 0.4 WMQ 40.5 294 +iP 20 27 37.8 1.2 S 20 33 46.5 6.7 LSA 43.0 273 eP 20 28 02.0 4.1 KSH 50.2 292 eP 20 28 55.0 0.8 pP 20 29 10.0 2.4 eS 20 36 03.7 3.0 LN M _s = 6.3 12.0 10.4						NOV 1d 23h 04m 48.5 ± 0.09s, SD1.76 / 48 39.42 N ± 2.31km, 142.96 E ± 2.62km, h25 ± 1.23km Near east coast of Honshu (228) M _s 4.9 / 1, m _b 4.6 / 7, MDJ 11.2 302 eP 23 07 33.2 2.6 CN2 13.8 294 eP 23 08 09.3 4.0 SSE 19.6 252 +P 23 09 18.2 0.3 PMZ m _b = 4.2 1.0 0.012 BJI 20.6 280 eP 23 09 26.0 -2.6 TIA 20.6 269 -P 23 09 27.1 -2.0 NJ2 20.9 257 -P 23 09 34.0 2.5 WHN 25.0 258 P 23 10 12.0 0.0 PMZ m _b = 5.2 1.4 0.13 pP 23 10 21.0 1.4 XAN 27.7 270 P 23 10 37.0 -0.3 LZH 30.9 276 -P 23 11 05.8 -0.6 PMZ m _b = 5.0 2.0 0.052 GYA 32.9 258 P 23 11 22.0 -1.2 GTA 33.1 284 +P 23 11 25.4 0.2 WMQ 40.9 295 +P 23 12 31.3 0.4					
NOV 1d 21h 40m 18.0 ± 0.09s, SD1.92 / 46 39.83 N ± 2.61km, 143.38 E ± 2.42km, h32 ± 1.08km											



NOV 1d 23h 05m 44.9 ± 0.06s, SD1.29 / 87				LN				M _s = 5.2				
39.18 N ± 1.67km, 142.98 E ± 1.30km, h37 ± 0.85km				LE				15.0 1.50				
Near east coast of Honshu (228)				CD2 33.0 268 P				23 12 18.6 -0.1				
M _s 5.2 / 23, m _b 5.5 / 13,				GTA 33.2 284 +P				23 12 21.2 0.5				
MDJ	11.4	303	eP	23 08 28.5	0.6			S	23 17 40.0	4.2		
			sP	23 08 41.0	0.5			LE	M _s = 5.4	15.0	3.78	
			S	23 10 40.0	6.0			LZ	M _s = 5.4	16.0	5.54	
			LE	M _s = 5.0	15.0	8.60		QZN	35.0 245 eP	23 12 32.2	-3.7	
CN2	13.9	295	eP	23 09 02.0	-0.1			eS	23 18 03.0	-1.3		
			pP	23 09 09.0	-0.7			LN	M _s = 5.2	14.0	1.10	
			eS	23 11 37.0	0.7			LE		14.0	1.49	
			LN	M _s = 5.0	13.0	3.80		KMI	36.5 260 +iP	23 12 50.5	0.9	
			LE		13.0	3.00		PMZ	m _b = 6.2	1.5	0.60	
SNY	15.0	286	-P	23 09 16.6	0.5			pP	23 12 59.5	0.2		
			PMZ	m _b = 5.3	0.8	0.042		WMQ	41.0 295 +iP	23 13 28.2	1.5	
			S	23 12 05.0	3.9			eS	23 19 41.0	4.5		
			LN	M _s = 4.9	13.0	2.72		LSA	43.3 274 P	23 13 48.5	2.8	
			LE		14.0	2.82		KSH	50.7 293 eP	23 14 44.0	0.2	
			LZ	M _s = 4.9	20.0	7.01		NOV 1d 23h 20m 15.3 ± 0.09s, SD1.65 / 48				
DL2	16.6	276	eP	23 09 37.4	0.8			39.49 N ± 2.21km, 143.51 E ± 2.45km, h24 ± 1.15km				
SSE	19.5	252	-P	23 10 09.6	-2.7			Off east coast of Honshu (229)				
			PMZ	m _b = 5.5	1.0	0.25		m _b 5.2 / 3,				
			sP	23 10 24.0	-1.8			MDJ	11.5 301 eP	23 23 03.5	1.7	
			eS	23 13 43.0	-2.4			CN2	14.2 294 eP	23 23 38.5	1.6	
			LN	M _s = 5.0	14.0	2.02		SNY	15.3 285 eP	23 23 53.2	1.5	
			LE		14.0	2.10		SSE	20.0 252 +P	23 24 49.0	-0.4	
			LZ	M _s = 4.5	20.0	1.86			pP	23 24 57.0	0.4	
BJI	20.6	281	+P	23 10 22.0	-2.2			BJI	21.0 280 eP	23 24 56.5	-3.1	
			PMZ	m _b = 5.3	1.5	0.24		NJ2	21.3 257 -P	23 25 05.0	2.3	
			eS	23 14 07.0	-1.0				pP	23 25 13.0	3.0	
			esS	23 14 21.0	-1.4			WHN	25.4 258 P	23 25 43.0	0.1	
			LE	M _s = 5.0	14.0	2.98			PMZ	m _b = 5.2	1.0	0.060
			LZ	M _s = 4.9	16.0	3.84			pP	23 25 52.0	1.6	
TIA	20.7	270	eP	23 10 22.4	-1.9			BTO	25.6 283 eP	23 25 46.0	1.3	
NJ2	20.8	257	-P	23 10 24.5	-1.5			XAN	28.1 270 P	23 26 08.0	0.0	
			pP	23 10 33.0	-2.3			GYA	33.3 258 P	23 26 52.6	-1.2	
			LN	M _s = 5.1	14.0	2.06		GTA	33.5 284 +P	23 26 56.4	0.9	
			LE		14.5	3.25		WMQ	41.3 295 eP	23 28 01.5	0.8	
			LZ	M _s = 4.9	14.0	3.56		NOV 1d 23h 35m 13.8 ± 0.16s, SD2.29 / 25				
TIY	23.9	276	-P	23 10 55.3	-1.4			32.96 N ± 1.44km, 94.33 E ± 1.58km, h26 ± 0.06km				
HHC	24.1	284	+P	23 10 57.5	-0.6			Tibet (306)				
			PP	23 11 32.7	0.5			M _s 4.4 / 3,				
			S	23 15 10.8	1.6			LSA	4.2 221 P	23 36 21.8	2.8	
			LN	M _s = 5.3	16.0	1.37		GTA	7.8 33 eP	23 37 08.8	-0.2	
			LE		17.0	4.80			LE	M _s = 3.7	10.0	0.51
WHN	24.9	259	+iP	23 11 07.5	0.9			WMQ	12.0 336 eP	23 38 05.0	-1.7	
			PMZ	m _b = 5.9	1.0	0.44		GYA	12.5 118 P	23 38 11.2	-2.4	
			pP	23 11 15.0	-1.2			TIY	15.5 67 eP	23 38 53.8	0.9	
			eS	23 15 28.0	2.9			CN2	26.5 57 eP	23 40 50.0	-1.8	
			LN	M _s = 5.3	14.0	2.46		NOV 1d 23h 37m 12.7 ± 0.08s, SD1.69 / 24				
			LE		14.0	3.92		39.46 N ± 2.01km, 143.52 E ± 2.67km, h1 ± 1.99km				
			LZ	M _s = 5.0	16.0	3.57		Off east coast of Honshu (229)				
BTO	25.3	284	eP	23 11 09.5	-0.2			MDJ	11.6 301 eP	23 40 04.0	1.8	
			pP	23 11 17.0	-2.2			BJI	21.0 280 eP	23 41 57.0	-3.4	
			eS	23 15 31.0	0.5			NJ2	21.3 257 eP	23 42 04.0	0.7	
			LN	M _s = 5.5	14.0	1.40		WHN	25.4 259 -P	23 42 44.5	1.0	
			LE		16.0	7.10			sP	23 42 49.0	-1.3	
XAN	27.7	270	P	23 11 32.0	-0.3			GYA	33.3 258 P	23 43 54.0	-0.5	
GZH	29.8	246	eP	23 11 52.0	0.8			GTA	33.5 284 eP	23 43 56.8	0.4	
LZH	31.0	277	+P	23 12 01.5	-0.1			WMQ	41.3 295 -P	23 45 03.4	1.7	
			PMZ	m _b = 5.6	1.0	0.11		NOV 2d 01h 09m 41.2 ± 0.06s, SD1.40 / 76				
			LN	M _s = 5.4	13.0	1.83		39.44 N ± 1.90km, 143.46 E ± 1.97km, h24 ± 1.01km				
			LE		13.0	2.86		Near east coast of Honshu (228)				
			LZ	M _s = 5.2	15.0	3.63		M _s 4.8 / 24, m _b 4.8 / 14,				
GYA	32.8	258	+P	23 12 18.0	0.2							
			pP	23 12 27.8	0.3							
			PP	23 13 28.0	0.6							
			S	23 17 30.0	-0.5							

KMI	37.0	259	eP	01 49 47.0	0.5		
WMQ	41.1	295	+iP	01 50 20.4	-0.7		
NOV 2d 02h 22m 02.4 ± 0.15s, SD1.08 / 46 13.93 S ± 2.06km, 170.55 E ± 1.86km, h37 ± 0.33km Vanuatu (New Hebrides) region (185) m _b 4.9 / 2,							
NJ2	67.4	314	+P	02 32 56.0	-0.6		
			LZ		M _S = 4.8	24.0	0.65
MDJ	69.1	330	eP	02 33 05.5	-2.1		
WHN	69.8	310	eP	02 33 12.5	0.7		
CN2	70.7	327	eP	02 33 18.5	1.5		
BJI	73.7	319	eP	02 33 34.5	-0.5		
TIY	74.9	316	+P	02 33 42.5	0.6		
XAN	75.5	311	P	02 33 45.7	0.0		
HHC	77.1	318	P	02 33 55.5	0.9		
			S	02 43 40.9	2.8		
BTO	78.0	317	eP	02 34 00.0	0.6		
LZH	80.2	311	eP	02 34 11.7	0.1		
			PMZ		m _b = 5.2	2.5	0.080
			LZ		M _S = 5.0	25.0	0.80
GTA	84.4	313	P	02 34 33.4	-0.2		
WMQ	94.4	314	P	02 35 20.5	-0.4		

NOV 2d 02h 22m 50.0 ± 0.09s, SD1.64 / 31 39.46 N ± 2.04km, 143.52 E ± 1.88km, h34 ± 0.64km Off east coast of Honshu (229) m _b 4.2 / 3,							
MDJ	11.6	301	eP	02 25 37.0	1.1		
BJI	21.0	280	eP	02 27 30.5	-2.8		
			LZ		M _S = 4.1	16.0	0.58
TIY	24.3	276	eP	02 28 08.0	2.1		
			S	02 32 18.0	-1.3		
			LZ		M _S = 4.3	20.0	1.00
WHN	25.4	259	P	02 28 17.5	1.1		
			PMZ		m _b = 5.0	1.0	0.040
			pP	02 28 26.5	1.1		
GYA	33.3	258	P	02 29 27.0	-0.2		
GTA	33.5	284	P	02 29 29.6	0.5		
WMQ	41.3	295	eP	02 30 35.6	1.3		

NOV 2d 07h 22m 41.1 ± 0.07s, SD1.72 / 86 36.01 N ± 0.89km, 106.26 E ± 0.80km, h27 ± 0.06km Gansu Province (322) M _S 4.5 / 23, M _L 4.8 / 14, m _b 4.5 / 2,							
LZH	2.0	273	+iPg	07 23 16.5	0.2		
			Sg	07 23 41.0	-2.0		
XAN	2.9	131	Pn	07 23 28.0	1.4		
			Pg	07 23 35.2	2.0		
			Sg	07 24 09.5	-4.0		
			LN			7.0	5.35
			LE			8.0	5.60
TIY	5.2	69	Pn	07 23 57.8	-0.4		
			Pg	07 24 15.8	2.2		
			Sn	07 25 00.4	1.0		
			Sg	07 25 20.7	-4.5		
			SMN		M _L = 5.2	0.6	2.00
			SME			0.8	2.57
BTO	5.5	32	Pn	07 24 03.9	2.7		
			Pg	07 24 18.0	0.6		
			Sg	07 25 29.6	-2.4		
			SMN		M _L = 4.7	0.3	0.61
			SME			0.3	0.71
CD2	5.5	203	Pn	07 24 03.2	1.4		
			Pg	07 24 22.8	4.5		
			Sn	07 25 05.0	-1.0		
			Sg	07 25 31.1	-2.5		
			SME		M _L = 4.6	1.0	0.60

GTA	6.1	306	iPn	07 24 12.6	2.0		
			Sn	07 25 19.4	-2.3		
			Sg	07 25 51.0	-2.5		
			LE		M _S = 4.4	10.0	3.82
			LZ		M _S = 4.5	11.0	4.01
HHC	6.4	39	Pn	07 24 15.4	1.5		
			Pg	07 24 38.8	5.0		
			Sn	07 25 25.9	-1.8		
			Sg	07 25 55.0	-6.0		
			LN		M _S = 4.7	10.0	6.51
			LE			8.0	3.12
			LZ		M _S = 4.6	10.0	4.44
WHN	8.7	127	eP	07 24 47.0	-1.2		
			LN		M _S = 4.6	10.0	3.30
			LE			10.0	2.05
			LZ		M _S = 4.4	12.0	2.41
TIA	8.8	86	P	07 24 50.6	1.0		
			SMN		M _L = 5.1	1.4	0.48
			SME			1.2	0.26
BJI	8.8	60	eP	07 24 48.0	-1.6		
			SMN		M _L = 4.9	1.5	0.20
			SME			1.5	0.23
			LN		M _S = 4.7	10.0	2.01
			LE			9.0	3.38
			LZ		M _S = 4.8	10.0	6.08
GYA	9.5	178	-P	07 24 58.4	-1.5		
			pP	07 25 05.4	-0.9		
			S	07 26 47.0	0.2		
			SMN			1.0	0.39
			SME			1.0	0.27
			LN		M _S = 4.8	6.0	1.30
			LE			6.0	2.20
NJ2	11.2	107	+P	07 25 22.0	-0.3		
			S	07 27 28.0	1.1		
			LN		M _S = 4.5	12.0	1.23
			LE			12.0	1.88
			LZ		M _S = 4.4	14.0	2.37
KMI	11.3	197	eP	07 25 21.5	-2.4		
			pP	07 25 25.0	-5.2		
			eS	07 27 25.0	-5.1		
			sS	07 27 34.0	-6.3		
			LN		M _S = 4.6	8.0	1.10
			LE			10.0	1.80
			LZ		M _S = 4.6	10.0	2.70
LSA	14.2	248	eP	07 26 02.8	0.0		
SNY	14.7	61	eP	07 26 07.4	-1.5		
			pP	07 26 16.9	1.4		
			LN		M _S = 4.5	16.0	1.44
			LE			15.0	1.36
WMQ	16.2	304	-iP	07 26 28.5	-0.4		
			S	07 29 26.0	-1.0		
			LZ		M _S = 4.3	16.0	1.46
CN2	16.6	56	eP	07 26 34.0	-0.1		
			PMZ		m _b = 4.7	0.6	0.020
			pP	07 26 38.6	-2.3		
			eS	07 29 38.0	0.7		
			LN		M _S = 4.8	10.0	0.60
			LE			10.0	1.70
			LZ		M _S = 4.6	10.0	1.60
QZN	17.2	168	eP	07 26 41.4	0.0		
			eS	07 29 51.0	0.4		
			LE		M _S = 4.6	12.5	1.26
MDJ	19.7	57	eP	07 27 12.5	1.0		
KSH	24.2	287	P	07 27 59.7	3.0		
			pP	07 28 04.0	-0.6		
			eS	07 32 16.7	6.0		
			LE		M _S = 4.8	8.0	0.90



NOV 2d 09h 34m 39.7 ± 0.07s, SD1.23 / 48
39.88 N ± 1.49km, 143.17 E ± 1.67km, h32 ± 0.64km
Near east coast of Honshu (228)
m_b4.5 / 4,

MDJ	11.1	300	eP	09 37 20.0	0.3		
SSE	19.9	251	eP	09 39 11.0	-0.5		
			sP	09 39 23.0	-1.0		
BJI	20.7	279	eP	09 39 17.0	-2.7		
			LZ	M _S = 3.9	20.0	0.48	
TIA	20.8	268	P	09 39 19.9	-1.3		
NJ2	21.1	256	+P	09 39 25.0	0.6		
WHN	25.2	257	-P	09 40 06.0	1.4		
			PMZ	m _b = 5.0	1.0	0.040	
			pP	09 40 12.5	-0.9		
BTO	25.2	282	eP	09 40 04.6	-0.2		
XAN	27.9	269	P	09 40 28.5	-0.5		
LZH	31.1	276	eP	09 40 58.0	0.4		
			LZ	M _S = 4.4	12.0	0.52	
GYA	33.1	257	P	09 41 15.6	0.0		
GTA	33.1	283	-P	09 41 16.8	1.0		
			LZ	M _S = 4.4	16.0	0.58	
KMI	36.8	259	+P	09 41 47.5	0.3		
WMQ	40.9	294	-iP	09 42 22.2	1.4		

NOV 2d 10h 03m 11.7 ± 0.08s, SD1.73 / 51
39.60 N ± 1.82km, 143.22 E ± 1.49km, h48 ± 0.93km
Near east coast of Honshu (228)
M_S4.1 / 4, m_b4.3 / 4,

MDJ	11.3	301	eP	10 05 55.0	1.6		
CN2	13.9	293	eP	10 06 31.0	2.6		
			pP	10 06 39.5	2.4		
			LN	M _S = 3.9	12.0	0.40	
			LZ	M _S = 3.8	14.0	0.40	
SSE	19.8	251	P	10 07 46.5	5.0		
			sP	10 07 57.5	-0.4		
NJ2	21.1	257	eP	10 07 53.0	-1.7		
WHN	25.2	258	-P	10 08 35.0	0.1		
			PMZ	m _b = 5.0	0.8	0.030	
			pP	10 08 46.5	0.1		
GYA	33.1	258	+P	10 09 44.8	-1.0		
GTA	33.3	284	P	10 09 47.6	0.5		
			LE	M _S = 4.6	16.0	0.58	
KMI	36.8	259	-P	10 10 17.5	0.1		
WMQ	41.0	295	eP	10 10 53.0	0.7		

NOV 2d 10h 12m 19.9 ± 0.36s, SD2.50 / 30
22.08 S ± 2.83km, 68.51 W ± 1.01km, h88 ± 2.93km
Northern Chile (123)

WMQ	150.7	37	+iPKP	10 32 02.0	4.5		
GTA	160.1	27	ePKP	10 32 09.0	-0.8		

NOV 2d 10h 16m 06.2 ± 0.13s, SD2.02 / 30
10.77 N ± 1.73km, 122.36 E ± 2.33km, h71 ± 0.39km
Panay (254)
M_S4.2 / 1, m_b4.3 / 1,

QZN	14.6	306	eP	10 19 28.2	-2.4		
			eS	10 22 16.0	4.6		
			LE	M _S = 4.2	12.0	0.75	
WHN	21.0	340	eP	10 20 47.5	1.0		
GYA	21.5	319	P	10 20 52.4	1.0		
KMI	23.4	310	eP	10 21 08.5	-1.9		
TIA	25.8	350	eP	10 21 34.0	1.6		
BJI	29.7	350	eP	10 22 06.5	-1.2		
MDJ	34.3	9	eP	10 22 45.7	-2.4		

NOV 2d 10h 27m 46.1 ± 0.07s, SD1.57 / 67
27.38 N ± 1.42km, 128.66 E ± 1.23km, h80 ± 0.87km
Ryukyu Islands (238)

M_S4.2 / 9, m_b4.9 / 10,

SSE	7.5	301	eP	10 29 32.5	-2.5		
			PMZ	m _b = 5.0	1.5	0.068	
			LN	M _S = 3.9	12.0	0.76	
			LE		12.0	0.79	
			LZ	M _S = 4.0	20.0	1.86	
QZH	9.4	257	P	10 29 59.0	-1.4		
NJ2	9.7	301	eP	10 30 05.4	0.3		
			LE	M _S = 4.0	12.0	0.97	
			LZ	M _S = 4.0	20.0	1.53	
WHN	12.9	287	eP	10 30 48.5	0.3		
TIA	13.2	315	eP	10 30 51.6	0.1		
SNY	15.0	345	eP	10 31 16.0	0.8		
			PMZ	m _b = 4.8	0.6	0.026	
			LZ	M _S = 4.1	20.0	1.09	
BJI	16.3	324	eP	10 31 34.0	2.1		
			PMZ	m _b = 4.9	1.0	0.054	
			sS	10 34 47.0	-5.2		
			LZ	M _S = 3.9	20.0	0.60	
CN2	16.6	352	eP	10 31 35.0	-0.2		
			LE	M _S = 4.2	13.0	0.60	
			LZ	M _S = 3.9	14.0	0.40	
TIY	17.1	311	eP	10 31 43.4	1.7		
			sS	10 35 06.0	-4.6		
			LE	M _S = 4.4	13.0	0.91	
			LZ	M _S = 4.4	19.0	1.97	
MDJ	17.2	2	eP	10 31 42.5	-0.5		
XAN	18.2	296	+iP	10 31 54.5	-0.7		
HHC	19.5	318	eP	10 32 09.0	-0.4		
GYA	19.6	272	-P	10 32 12.0	0.8		
BTO	20.3	315	eP	10 32 16.5	-1.3		
			LN	M _S = 4.4	13.0	0.50	
			LE		13.0	0.40	
CD2	22.0	285	eP	10 32 35.4	0.0		
LZH	22.8	299	eP	10 32 45.5	2.6		
			PMZ	m _b = 4.7	1.5	0.050	
			LN	M _S = 4.6	11.0	0.35	
			LE		18.0	1.07	
KMI	23.3	270	-P	10 32 50.5	2.0		
GTA	26.8	304	P	10 33 21.0	0.0		

NOV 2d 11h 38m 34.0 ± 0.06s, SD1.45 / 20
27.81 N ± 1.83km, 127.13 E ± 0.64km, h225 ± 1.55km
East China Sea (234)
m_b5.0 / 1,

SSE	6.1	304	eP	11 40 02.0	-2.1		
QZH	8.2	251	P	11 40 31.0	0.6		
NJ2	8.3	302	-P	11 40 35.0	2.5		
WHN	11.5	287	P	11 41 13.0	0.0		
BJI	15.2	326	eP	11 42 01.0	2.1		
XAN	16.8	296	+P	11 42 16.1	-1.9		
GYA	18.3	271	P	11 42 33.6	0.0		
KMI	22.0	269	+P	11 43 12.5	1.6		

NOV 2d 11h 51m 45.4 ± 0.08s, SD1.33 / 101
39.52 N ± 1.67km, 143.11 E ± 1.58km, h26 ± 0.55km
Near east coast of Honshu (228)
M_S5.4 / 50, m_b5.6 / 10, m_b5.5 / 17,

MDJ	11.3	301	+P	11 54 30.0	2.0		
			S	11 56 36.0	2.3		
			LE	M _S = 5.2	14.0	12.5	
CN2	13.9	294	+P	11 55 03.0	0.0		
			PMZ	m _b = 5.5	1.5	0.15	
			PMZ	m _b = 5.8	5.0	1.00	
			pP	11 55 09.5	0.2		
			S	11 57 36.0	-0.7		
			LN	M _S = 5.1	12.0	2.40	
			LE		12.0	5.00	

SNY	15.0 285	LZ	$M_s = 5.0$	15.0	7.90	pP	11 57 18.0	-1.3			
		+P	11 55 16.0	-1.7		PP	11 57 48.0	-1.6			
		PMZ	$m_b = 5.2$	1.4	0.068	S	12 01 32.0	-0.7			
		pP	11 55 26.0	1.9		LN	$M_s = 5.8$		13.0	2.70	
		eS	11 58 02.0	-1.8		LE			16.0	14.7	
		sS	11 58 14.0	-0.1		XAN	27.8 269	+P	11 57 34.3	-0.8	
		LN	$M_s = 5.2$	13.0	2.37	LE	$M_s = 5.4$		13.0	3.80	
		LE		14.0	6.92	GZH	30.1 246	eP	11 57 57.7	2.5	
DL2	16.7 275	LZ	$M_s = 5.3$	16.0	13.9	eS	12 02 56.0	5.0			
		P	11 55 40.0	1.0		LN	$M_s = 5.2$		13.0	1.80	
		PMZ	$m_b = 5.6$	8.0	2.50	LE			13.0	1.70	
		S	11 58 45.0	3.0		LZ	$M_s = 5.2$		16.0	4.00	
		LN	$M_s = 5.2$	14.0	5.46	LZH	31.0 276	+P	11 58 04.0	-0.1	
		LE		17.0	6.01	PMZ	$m_b = 5.5$		2.0	0.16	
		LZ	$M_s = 5.0$	14.0	5.41	PMZ	$m_b = 5.6$		5.0	0.54	
		+P	11 56 16.5	0.3		pP	11 58 10.0	-1.7			
SSE	19.7 252	PMZ	$m_b = 5.4$	1.5	0.31	sP	11 58 12.5	-2.8			
		PMZ	$m_b = 5.3$	4.0	0.58	eS	12 03 07.0	0.2			
		sP	11 56 28.0	0.6		sS	12 03 16.0	-3.7			
		S	11 59 58.0	6.4		SS	12 04 50.0	-0.5			
		sS	12 00 08.0	5.4		LN	$M_s = 5.7$		12.0	1.87	
		LN	$M_s = 5.3$	14.0	4.84	LE			13.0	7.14	
		LE		14.0	3.36	LZ	$M_s = 5.6$		14.0	9.38	
		LZ	$M_s = 4.6$	20.0	2.33	GYA	33.0 258	+iP	11 58 20.4	-0.7	
BJI	20.7 280	+P	11 56 24.0	-2.3		PMZ	$m_b = 5.8$		1.4	0.24	
		PMZ	$m_b = 5.4$	1.7	0.30	pP	11 58 27.6	-1.3			
		epP	11 56 31.0	-2.8		S	12 03 36.0	-0.2			
		eS	12 00 11.0	-0.4		LN	$M_s = 5.5$		14.0	1.90	
		esS	12 00 22.0	-1.0		LE			14.0	3.80	
		eSS	12 00 44.0	2.3		LZ	$M_s = 4.9$		18.0	2.00	
		LN	$M_s = 5.4$	12.0	2.26	CD2	33.1 267	P	11 58 21.0	-0.6	
		LE		14.0	6.16	eS	12 03 38.5	0.4			
TIA	20.8 269	LZ	$M_s = 5.3$	16.0	10.5	LN	$M_s = 5.6$		14.0	4.94	
		eP	11 56 24.5	-2.6		LZ	$M_s = 5.3$		14.0	4.13	
		PMZ	$m_b = 5.5$	4.0	0.90	GTA	33.2 284	+iP	11 58 23.0	0.3	
		eS	12 00 09.0	-3.8		PP	11 59 34.0	0.6			
		LN	$M_s = 5.4$	13.0	2.10	S	12 03 36.0	-3.0			
		LE		13.0	6.60	sS	12 03 52.0	-1.1			
		LZ	$M_s = 5.3$	15.0	9.60	LE	$M_s = 5.8$		16.0	8.96	
		+P	11 56 28.0	-1.6		LZ	$M_s = 5.7$		16.0	11.4	
NJ2	21.0 257	sP	11 56 38.0	-3.0		QZN	35.2 244	P	11 58 40.0	0.2	
		eS	12 00 18.0	0.5		eS	12 04 12.0	1.0			
		LN	$M_s = 5.2$	13.0	3.22	LN	$M_s = 5.4$		18.0	2.51	
		LE		13.0	2.21	LE			15.0	2.32	
		LZ	$M_s = 4.9$	18.0	4.18	KMI	36.7 259	+P	11 58 53.0	0.2	
		eP	11 56 59.0	-0.2		PMZ	$m_b = 5.9$		1.5	0.30	
		PP	11 57 39.0	6.3		pP	11 59 00.0	-0.6			
		sS	12 01 24.5	0.2		sP	11 59 05.0	0.9			
TIY	24.0 275	LN	$M_s = 5.5$	15.0	4.23	S	12 04 36.0	2.7			
		LE		18.0	6.45	LN	$M_s = 5.5$		15.0	2.70	
		LZ	$M_s = 5.3$	17.0	8.64	LE			15.0	2.80	
		P	11 56 59.0	-1.1		LZ	$M_s = 5.3$		20.0	4.60	
		sP	11 57 13.0	1.7		WMQ	41.0 295	+iP	11 59 29.6	1.4	
		PP	11 57 37.0	3.1		sS	12 05 50.0	-1.9			
		S	12 01 11.5	-0.9		LZ	$M_s = 5.2$		14.0	2.43	
		LN	$M_s = 5.5$	14.0	2.55	LSA	43.4 273	P	11 59 50.5	2.3	
HHC	24.1 283	LE		15.0	7.12	pP	11 59 57.8	1.9			
		LZ	$M_s = 5.6$	18.0	15.4	S	12 06 15.0	2.2			
		+iP	11 57 10.7	0.7		LE	$M_s = 5.3$		17.0	2.10	
		pP	11 57 18.0	0.2		KSH	50.7 293	P	12 00 46.0	0.5	
		S	12 01 30.0	0.0		pP	12 00 49.0	-4.3			
		LN	$M_s = 5.5$	13.0	3.31	eS	12 07 58.0	0.0			
		LE		13.0	4.75	LN	$M_s = 5.8$		15.0	4.80	
		LZ	$M_s = 5.1$	16.0	4.16						
QZH	25.2 242	eP	11 57 11.0	-0.1		NOV 2d 11h 59m $47.6 \pm 0.08s$, $SD1.56 / 65$					
		LE	$M_s = 5.2$	13.0	2.86	$39.74 N \pm 2.05km$, $143.62 E \pm 1.52km$, $h25 \pm 0.52km$					
		LZ	$M_s = 5.1$	15.0	4.02	Off east coast of Honshu (229)					
BTO	25.3 283	+iP	11 57 11.0	-0.7		$M_s 4.9 / 6$, $m_b 5.0 / 8$,					

CD2	33.1	266	PcS	13 55	18.4	1.9		
			LE		$M_s=5.8$	16.0	9.64	
			LZ		$M_s=5.7$	17.0	13.2	
			P	13 48	49.8	-0.4		
			eS	13 54	10.0	2.6		
GYA	33.2	257	sS	13 54	20.0	-0.2		
			LN		$M_s=5.8$	13.0	7.18	
			LZ		$M_s=5.4$	14.0	5.74	
			+iP	13 48	51.0	0.5		
			PMZ		$m_b=6.3$	1.4	0.63	
QZN	35.5	244	pP	13 48	59.0	0.9		
			S	13 54	06.0	-0.8		
			LN		$M_s=5.8$	15.0	4.50	
			LE			15.0	6.70	
			LZ		$M_s=5.2$	18.0	4.00	
KMI	36.9	259	+P	13 49	11.5	1.3		
			eS	13 54	45.0	1.5		
			LN		$M_s=5.6$	15.0	3.08	
			LE			15.5	3.88	
			+iP	13 49	23.0	0.9		
WMQ	40.8	294	PMZ		$m_b=6.4$	1.5	0.90	
			pP	13 49	31.5	1.9		
			S	13 55	08.0	4.3		
			sS	13 55	20.0	2.4		
			LN		$M_s=5.8$	14.0	4.90	
LSA	43.4	273	LE			16.0	6.10	
			LZ		$M_s=5.9$	18.0	17.1	
			+iP	13 49	56.5	1.9		
			PMZ		$m_b=5.7$	1.2	0.17	
			S	13 56	04.0	1.1		
KSH	50.5	292	LN		$M_s=5.4$	13.0	1.56	
			LE			13.0	1.85	
			LZ		$M_s=5.4$	20.0	4.83	
			-P	13 50	17.8	1.5		
			S	13 56	42.9	1.8		

GTA	7.8	33	LE		$M_s=4.2$	4.0	1.80			
			ePn	17 18	25.6	2.6				
			LN		$M_s=4.5$	9.0	2.94			
			LZ		$M_s=4.5$	10.0	3.19			
			eP	17 18	35.4	2.7				
CD2	8.3	102	eS	17 20	09.0	1.2				
			LN		$M_s=4.8$	9.0	5.03			
			LZ		$M_s=4.4$	10.0	2.09			
			eP	17 18	36.5	1.5				
			LN		$M_s=4.5$	12.0	3.14			
KMI	10.8	135	LZ		$M_s=4.3$	12.0	2.08			
			eP	17 19	05.0	-1.9				
			WMQ	12.0	336	eP	17 19	21.3	-1.5	
			LN		$M_s=4.5$	10.0	0.82			
			LE			9.0	1.34			
XAN	12.3	81	LZ		$M_s=4.4$	13.0	1.75			
			P	17 19	24.5	-2.4				
			GYA	12.6	118	P	17 19	31.4	0.3	
			S	17 21	51.4	-0.5				
			LN		$M_s=4.5$	10.0	1.10			
BTO	14.7	54	LE			10.0	0.80			
			eP	17 20	03.5	4.3				
			sP	17 20	08.0	1.0				
			LN		$M_s=4.5$	10.0	0.80			
			LE			11.0	0.80			
TIY	15.5	67	LZ		$M_s=4.1$	10.0	0.60			
			eP	17 20	12.5	2.4				
			LN		$M_s=4.6$	9.5	1.34			
			LZ		$M_s=4.3$	15.0	1.42			
			HHC	15.9	56	P	17 20	17.0	2.5	
KSH	16.2	299	S	17 23	13.3	3.0				
			LN		$M_s=4.7$	12.0	1.70			
			LE			12.0	1.00			
			LZ		$M_s=4.2$	16.0	1.20			
			eP	17 20	21.8	3.7				
WHN	17.2	93	eS	17 23	24.0	6.3				
			LE		$M_s=4.9$	8.0	1.90			
			eP	17 20	32.0	0.3				
			S	17 23	41.0	-0.9				
			LN		$M_s=4.8$	12.0	1.73			
BJI	18.9	62	LE			12.0	1.25			
			eP	17 20	55.0	2.4				
			LN		$M_s=4.7$	10.0	1.09			
			LZ		$M_s=4.3$	12.0	0.84			
			QZN	19.7	131	eP	17 21	03.2	1.8	
NJ2	20.7	86	eS	17 24	42.0	4.0				
			LE		$M_s=4.7$	15.0	1.64			
			eP	17 21	11.0	-1.5				
			LN		$M_s=4.6$	11.0	0.93			
			LZ		$M_s=4.3$	12.0	0.73			
SNY	24.8	61	eP	17 21	50.3	-2.3				
			CN2	26.6	57	+P	17 22	07.0	-2.2	
			PMZ		$m_b=4.5$	1.0	0.010			
			eS	17 26	40.0	-2.1				
			LN		$M_s=4.6$	12.0	0.70			
MDJ	11.8	301	LZ		$M_s=4.2$	14.0	0.50			

NOV 2d 15h 55m $18.3 \pm 0.08s$, SD1.86 / 30
 40.17 N $\pm 1.97km$, 143.51 E $\pm 2.51km$, h31 $\pm 1.21km$
 Off east coast of Honshu (229)

CN2	13.9	291	eP	15 58	39.0	3.2	
BJI	20.9	279	P	15 59	57.0	-3.6	
NJ2	21.5	256	eP	16 00	04.5	-1.9	
WHN	25.6	257	eP	16 00	46.0	-0.3	
GYA	33.4	257	P	16 01	56.8	-0.3	
WMQ	41.0	294	eP	16 03	01.6	1.1	

NOV 2d 16h 17m $56.9 \pm 0.06s$, SD1.55 / 23
 39.53 N $\pm 1.72km$, 143.01 E $\pm 2.15km$, h19 $\pm 1.47km$
 Near east coast of Honshu (228)

MDJ	11.2	301	eP	16 20	40.0	0.8	
CN2	13.8	294	eP	16 21	14.0	-0.2	
BJI	20.6	280	eP	16 22	35.0	-2.9	
GYA	32.9	258	P	16 24	32.4	-0.5	
WMQ	40.9	295	P	16 25	41.0	1.0	

NOV 2d 17h 16m $28.7 \pm 0.12s$, SD2.74 / 60
 33.00 N $\pm 1.74km$, 94.27 E $\pm 1.44km$, h9 $\pm 0.13km$
 Tibet (306)

$M_s 4.6 / 24, m_b 5.7 / 1, m_b 4.5 / 1,$							
LSA	4.2	220	ePn	17 17	40.0	5.7	
			Pg	17 17	49.5	6.1	

NOV 2d 19h 42m $36.9 \pm 0.09s$, SD2.16 / 39
 39.26 N $\pm 2.58km$, 143.77 E $\pm 2.66km$, h41 $\pm 1.37km$
 Off east coast of Honshu (229)

MDJ	11.8	301	eP	19 45	27.0	0.8	
CN2	14.5	294	eP	19 46	05.0	4.2	
			epP	19 46	12.5	3.6	
			LZ			1.4	0.40
BJI	21.2	281	eP	19 47	20.0	-1.9	
			LZ		$M_s=3.8$	16.0	0.29
TIA	21.3	270	eP	19 47	21.0	-1.2	
WHN	25.6	259	-P	19 48	04.0	-0.1	



GYA	33.5	259	sP	19 48	19.8	0.7			HHC	24.1	283	-P	05 55	00.6	-0.8				
GTA	33.7	285	P	19 49	14.4	-0.4						S	05 59	15.0	0.8				
			eP	19 49	17.0	-0.3			WHN	25.1	258	+P	05 55	12.0	0.7				
			pP	19 49	25.0	-2.8						pP	05 55	17.5	-1.0				
KMI	37.2	260	eP	19 49	47.0	0.6						eS	05 59	34.0	1.5				
WMQ	41.5	295	P	19 50	23.0	0.4						LN		$M_S=4.8$	12.0	0.87			
<p>NOV 2d 20h 49m $10.8 \pm 0.16s$, SD1.36 / 32 20.52 S $\pm 2.19km$, 178.74 W $\pm 2.27km$, h607 $\pm 0.92km$ Fiji region (181) $m_b 5.0 / 3$,</p>																			
NJ2	79.4	310	+P	21 00	17.5	0.7						LE			12.0	0.75			
MDJ	80.1	325	eP	21 00	21.0	0.1						LN		$M_S=4.5$	16.0	0.69			
SNY	81.8	320	+P	21 00	29.4	0.1						LZ		$M_S=4.3$	16.0	0.71			
BJI	85.4	316	eP	21 00	47.0	-0.2													
KMI	88.7	297	+P	21 01	03.0	-0.1													
			PMZ		$m_b=5.5$	1.5	0.10												
<p>NOV 2d 22h 35m $39.5 \pm 0.07s$, SD1.69 / 35 39.63 N $\pm 2.14km$, 143.30 E $\pm 2.73km$, h9 $\pm 1.79km$ Near east coast of Honshu (228)</p>																			
BJI	20.8	280	eP	22 40	22.0	-2.1													
			LZ		$M_S=3.8$	16.0	0.29												
NJ2	21.2	257	eP	22 40	30.0	2.2													
WHN	25.3	258	P	22 41	08.0	0.0													
			pP	22 41	17.2	4.0													
GYA	33.2	258	eP	22 42	17.6	-1.5													
GTA	33.3	284	P	22 42	21.0	0.7													
WMQ	41.0	295	P	22 43	26.6	1.1													
<p>NOV 3d 05h 49m $45.8 \pm 0.07s$, SD1.48 / 88 39.52 N $\pm 1.89km$, 143.16 E $\pm 1.40km$, h22 $\pm 0.52km$ Near east coast of Honshu (228) $M_S 4.6 / 20$, $m_b 4.9 / 9$,</p>																			
MDJ	11.3	301	eP	05 52	31.0	1.8													
			S	05 54	35.0	-0.4													
			LE		$M_S=4.5$	14.0	2.42												
CN2	13.9	294	eP	05 53	05.5	1.3													
			pP	05 53	11.0	0.9													
			eS	05 55	41.0	1.9													
			LN			1.4	0.80												
			LE			1.4	0.80												
			LZ			1.4	0.90												
SNY	15.0	285	+P	05 53	21.0	2.0													
			sS	05 56	16.0	0.6													
			LE		$M_S=4.3$	14.0	1.09												
			LZ		$M_S=4.5$	14.0	2.00												
DL2	16.7	275	eP	05 53	42.0	1.7													
SSE	19.8	252	P	05 54	13.1	-4.4													
			sS	05 58	00.0	-3.8													
			LN		$M_S=4.4$	10.0	0.43												
			LE			10.0	0.45												
			LZ		$M_S=4.1$	12.0	0.45												
BJI	20.7	280	eP	05 54	25.5	-2.1													
			PMZ		$m_b=4.4$	1.0	0.020												
			eS	05 58	15.0	1.8													
			LN		$M_S=4.6$	13.0	0.59												
			LE			14.0	0.99												
			LZ		$M_S=4.4$	16.0	1.17												
TIA	20.8	269	-P	05 54	26.3	-2.1													
NJ2	21.0	257	+P	05 54	30.0	-0.9													
			LN		$M_S=4.5$	13.0	0.88												
			LZ		$M_S=4.3$	14.0	0.89												
TIY	24.0	276	eP	05 55	01.0	0.5													
			S	05 59	17.5	4.8													
			sS	05 59	22.0	-3.3													
			LN		$M_S=4.5$	14.0	0.78												
			LZ		$M_S=4.5$	16.0	1.19												
<p>NOV 3d 08h 15m $12.9 \pm 0.10s$, SD1.48 / 41 39.63 N $\pm 1.75km$, 143.08 E $\pm 2.14km$, h28 $\pm 0.71km$ Near east coast of Honshu (228) $m_b 4.2 / 3$,</p>																			
MDJ	11.2	301	eP	08 17	56.0	1.8													
SSE	19.7	251	eP	08 19	43.5	-0.1													
BJI	20.6	280	eP	08 19	51.0	-2.1													
			PMZ		$m_b=4.3$	1.5	0.021												
			LZ		$M_S=3.8$	14.0	0.29												
TIA	20.7	269	-P	08 19	54.5	0.4													
NJ2	21.0	256	eP	08 19	57.0	0.1													
WHN	25.1	258	-iP	08 20	38.0	0.8													
GYA	33.0	258	P	08 21	47.6	-0.7													
GTA	33.1	284	eP	08 21	50.6	1.1													
KMI	36.7	259	eP	08 22	20.5	0.5													
WMQ	40.9	294	P	08 22	56.5	1.7													
<p>NOV 3d 08h 33m $40.0 \pm 0.20s$, SD1.95 / 30 6.46 S $\pm 1.88km$, 104.96 E $\pm 2.47km$, h110 $\pm 2.65km$ Sunda Strait (276)</p>																			
GYA	32.8	3	P	08 40	06.0	0.9													
LSA	38.3	340	P	08 40	53.0	0.5													
TIY	44.5	8	eP	08 41	42.8	0.2													
GTA	45.9	354	eP	08 41	53.2	-0.6													
BJI	47.4	12	eP	08 42	05.0	-0.6													
WMQ	52.4	344	eP	08 42	43.0	-0.9													
CN2	53.3	18	eP	08 42	48.7	-2.0													
<p>NOV 3d 14h 08m $44.3 \pm 0.08s$, SD1.21 / 96 5.67 N $\pm 1.33km$, 126.58 E $\pm 1.81km$, h33 $\pm 0.10km$ Mindanao (259) $M_S 4.8 / 20$, $m_b 5.4 / 2$, $m_b 5.3 / 12$,</p>																			
QZH	20.6	339	P	14 13	24.0	0.2													
			PMZ		$m_b=5.4$	4.0	0.67												
			eS	14 17	08.0	0.1													
			LN		$M_S=4.6$	16.0	1.47												

SNY	48.5	335	LZ	$M_s = 5.2$	19.0	2.80	PP	17 50 49.0	+6.9					
			+P	17 47 54.2	-1.1		S	17 56 38.0	4.9					
			PMZ	$m_b = 5.9$	0.8	0.14	sS	17 56 54.8	4.3					
			PMZ	$m_B = 6.0$	4.0	0.92	SS	18 00 20.0	1.2					
			S	17 54 50.0	-2.6		LN	$M_s = 5.6$	15.0	1.91				
			sS	17 55 06.0	-3.8		LE		16.0	1.82				
			LN	$M_s = 5.4$	15.5	1.50	LZ	$M_s = 5.4$	22.0	3.49				
MDJ	48.7	342	LE		14.0	1.28	GTA	60.3	318	+iP	17 49 21.0	-0.7		
			LZ	$M_s = 5.5$	23.0	5.70	pP	17 49 27.0	-4.3					
			iP	17 47 56.5	-0.3		S	17 57 35.0	4.0					
			PMZ	$m_b = 5.9$	1.0	0.15	sS	17 57 44.0	-4.6					
			pP	17 48 05.0	-1.4		LN	$M_s = 5.4$	11.5	0.98				
			S	17 54 59.0	3.9		LZ	$M_s = 5.2$	18.0	1.47				
			LE	$M_s = 5.5$	14.0	2.40	LSA	62.9	304	eP	17 49 40.0	0.5		
GYA	49.1	307	+P	17 48 00.6	1.1		SMN	$m_B = 5.7$	10.0	0.90				
			S	17 55 06.0	6.1		WMQ	70.4	318	-iP	17 50 26.6	0.1		
			LN	$M_s = 6.0$	18.0	7.50	PMZ	$m_B = 6.2$	4.0	1.12				
			LE		18.0	4.60	S	17 59 41.0	6.7					
			LZ	$M_s = 5.2$	24.0	2.80	LN	$M_s = 5.5$	15.0	1.05				
			-P	17 48 01.4	-0.9		LE		14.0	0.87				
			PMZ	$m_b = 5.5$	0.8	0.050	LZ	$M_s = 5.4$	20.0	2.16				
CN2	49.4	338	PMZ	$m_B = 5.9$	5.0	0.90	KSH	77.6	311	P	17 51 09.5	0.9		
			pP	17 48 11.0	-1.0		pP	17 51 16.0	-2.3					
			eS	17 55 05.0	-1.2		eS	18 00 59.5	2.4					
			LN	$M_s = 5.5$	14.0	1.80	LN	$M_s = 5.7$	16.0	1.80				
			LE		14.0	1.10	<hr/> NOV 3d 22h 45m $01.3 \pm 0.05s$, $SD1.25 / 44$ $39.53 N \pm 1.81km$, $143.42 E \pm 2.98km$, $h27 \pm 1.94km$ Near east coast of Honshu (228) $M_s 4.1 / 5$, $m_b 4.2 / 6$,							
			LZ	$M_s = 5.4$	20.0	3.70	MDJ	11.5	301	eP	22 47 47.5	0.9		
			eP	17 48 11.0	-1.1		CN2	14.1	293	eP	22 48 22.0	0.3		
BJI	50.7	328	PMZ	$m_b = 5.6$	0.8	0.060	pP	22 48 30.0	1.9					
			PMZ	$m_B = 6.0$	4.0	0.81	eS	22 50 57.0	-1.3					
			esP	17 48 25.0	-0.8		LN	$M_s = 4.0$	10.0	0.30				
			eS	17 55 22.0	-2.0		LE		10.0	0.20				
			LN	$M_s = 5.6$	16.0	3.01	LZ	$M_s = 3.8$	14.0	0.40				
			LZ	$M_s = 5.5$	16.0	4.08	SNY	15.2	285	eP	22 48 36.5	0.0		
			eP	17 48 15.5	-0.8		SSE	20.0	252	eP	22 49 35.0	0.4		
TIY	51.3	323	S	17 55 37.0	6.6		BJI	20.9	280	eP	22 49 43.0	-1.6		
			LE	$M_s = 5.7$	15.0	3.21	PMZ	$m_b = 4.1$	1.0	0.010				
			LZ	$M_s = 5.5$	17.0	3.84	LZ	$M_s = 3.9$	13.0	0.30				
			+P	17 48 15.3	-1.1		TIA	21.0	269	P	22 49 44.9	-0.5		
			S	17 55 36.0	5.3		NJ2	21.2	257	eP	22 49 46.5	-1.3		
			LN	$M_s = 5.7$	13.0	2.70	TIY	24.2	276	eP	22 50 18.5	1.1		
			LE		14.0	1.70	S	22 54 33.0	2.3					
XAN	51.3	317	LE	$M_s = 5.7$	15.0	3.21	LN	$M_s = 4.2$	9.0	0.24				
			-P	17 48 20.5	0.9		LZ	$M_s = 4.4$	16.0	0.95				
			PMZ	$m_b = 6.0$	1.5	0.30	WHN	25.3	258	-P	22 50 28.5	0.4		
			pP	17 48 30.5	1.4		PMZ	$m_b = 4.7$	1.0	0.020				
			LE	$M_s = 5.5$	17.0	2.60	pP	22 50 37.8	1.8					
			LZ	$M_s = 5.6$	18.0	5.40	eS	22 54 49.0	-1.4					
			P	17 48 31.4	-0.8		LE	$M_s = 4.4$	12.0	0.44				
KMI	51.7	304	S	17 56 06.5	7.1		BTO	25.5	283	eP	22 50 29.1	-0.6		
			LN	$M_s = 5.6$	14.0	2.47	GYA	33.2	258	P	22 51 39.0	0.0		
			LZ	$M_s = 5.2$	14.0	1.62	GTA	33.4	284	eP	22 51 41.0	0.4		
			eP	17 48 35.0	-0.5		KMI	36.9	260	eP	22 52 11.0	0.4		
			pP	17 48 42.6	-2.6		pP	22 52 19.5	1.0					
			S	17 56 06.6	1.2		WMQ	41.2	295	eP	22 52 45.6	-0.2		
			LN	$M_s = 5.6$	15.0	2.57	<hr/> NOV 4d 02h 49m $15.5 \pm 0.09s$, $SD1.62 / 58$ $39.78 N \pm 2.04km$, $143.15 E \pm 2.16km$, $h30 \pm 0.88km$ Near east coast of Honshu (228) $M_s 4.1 / 2$, $m_b 4.6 / 5$,							
CD2	53.4	311	LZ	$M_s = 5.2$	14.0	1.62	MDJ	11.2	300	eP	02 51 58.0	1.8		
			P	17 48 31.4	-0.8		CN2	13.8	293	eP	02 52 32.0	0.4		
			S	17 56 06.5	7.1		pP	02 52 40.0	1.6					
			LN	$M_s = 5.6$	14.0	2.47	eS	02 55 05.0	0.0					
			LZ	$M_s = 5.2$	14.0	1.62	<hr/> MDJ 11.2 300 eP 02 51 58.0 1.8 CN2 13.8 293 eP 02 52 32.0 0.4 pP 02 52 40.0 1.6 eS 02 55 05.0 0.0							
			eP	17 48 35.0	-0.5									
			pP	17 48 42.6	-2.6									
HHC	53.8	325	S	17 56 06.6	1.2									
			LN	$M_s = 5.6$	15.0	2.57								
			LE		14.0	0.75								
			LZ	$M_s = 5.6$	20.0	5.67								
			P	17 48 40.5	-0.3									
			pP	17 48 50.0	-0.6									
			PP	17 50 44.5	0.8									
BTO	54.6	324	S	17 56 17.0	1.8									
			SS	18 00 02.0	4.7									
			LN	$M_s = 5.7$	16.0	3.00								
			LE		20.0	1.80								
			LZ	$M_s = 5.6$	20.0	5.67								
			P	17 48 40.5	-0.3									
			pP	17 48 50.0	-0.6									
LZH	55.9	316	PP	17 50 44.5	0.8									
			S	17 56 17.0	1.8									
			SS	18 00 02.0	4.7									
			LN	$M_s = 5.7$	16.0	3.00								
			LE		20.0	1.80								
			LZ	$M_s = 5.6$	20.0	5.67								
			P	17 48 40.5	-0.3									
BTO	54.6	324	pP	17 48 50.0	-0.6									
			PP	17 50 44.5	0.8									
			S	17 56 17.0	1.8									
			SS	18 00 02.0	4.7									
			LN	$M_s = 5.7$	16.0	3.00								
			LE		20.0	1.80								
			LZ	$M_s = 5.6$	20.0	5.67								
BTO	54.6	324	P	17 48 40.5	-0.3									
			pP	17 48 50.0	-0.6									
			PP	17 50 44.5	0.8									
			S	17 56 17.0	1.8									
			SS	18 00 02.0	4.7									
			LN	$M_s = 5.7$	16.0	3.00								
			LE		20.0	1.80								
LZH	55.9	316	LZ	$M_s = 5.6$	20.0	5.67								
			P	17 48 40.5	-0.3									
			pP	17 48 50.0	-0.6									
			PP	17 50 44.5	0.8									
			S	17 56 17.0	1.8									
			SS	18 00 02.0	4.7									
			LN	$M_s = 5.7$	16.0	3.00								
LZH	55.9	316	LE		20.0	1.80								
			eP	17 48 50.6	0.0									
			PMZ	$m_b = 5.7$	1.5	0.17								
			pP	17 48 56.0	-4.2									
			PcP	17 49 45.7	-2.3									

			LN	$M_s = 4.0$	11.0	0.30
			LE		11.0	0.30
			LZ	$M_s = 3.9$	15.0	0.60
SSE	19.8	251	eP	02 53 48.0	1.0	
			pP	02 53 59.0	4.2	
BJI	20.7	279	eP	02 53 54.0	-1.7	
			LZ	$M_s = 3.7$	20.0	0.30
TIA	20.8	268	+P	02 53 55.8	-1.2	
NJ2	21.1	256	eP	02 53 57.5	-2.5	
			LZ	$M_s = 3.7$	20.0	0.31
WHN	25.2	258	+iP	02 54 41.5	1.2	
			PMZ	$m_b = 5.2$	1.0	0.060
BTO	25.2	283	eP	02 54 40.5	-0.4	
LZH	31.0	276	eP	02 55 32.0	-1.6	
			LZ	$M_s = 4.0$	20.0	0.29
GYA	33.1	258	+P	02 55 51.2	-0.1	
GTA	33.2	284	-iP	02 55 52.8	0.8	
KMI	36.8	259	-P	02 56 24.2	1.2	
WMQ	40.9	294	+P	02 56 58.0	1.0	

						Sg	10 21 19.3	0.0
NOV 4d 14h 58m $32.4 \pm 0.04s$, SD1.50 / 7								
39.86 N $\pm 0.38km$, 113.89 E $\pm 0.35km$, $h_6 \pm 0.21km$								
North-Eastern China (658)								
						$M_L 3.0 / 7,$		
BJI	1.8	83	Pn	14 59 03.0	-0.7			
			Pg	14 59 04.0	0.4			
			Sn	14 59 26.0	-2.4			
			Sg	14 59 28.0	0.3			
			SMN	$M_L = 2.9$	0.5	0.12		
			SME		0.5	0.12		
HHC	2.0	300	Pg	14 59 08.2	-0.2			
			Sg	14 59 32.5	-3.6			
			SMN	$M_L = 3.2$	0.6	0.14		
			SME		0.6	0.23		

NOV 4d 03h 57m $53.2 \pm 0.12s$, SD1.34 / 48						
9.56 N $\pm 1.23km$, 126.50 E $\pm 1.63km$, $h_{62} \pm 1.00km$						
Mindanao (259)						
$M_s 4.4 / 2, m_b 4.8 / 8,$						
QZN	18.7	302	P	04 02 09.3	0.4	
			eS	04 05 34.0	3.1	
SSE	22.0	348	+P	04 02 45.0	1.2	
			PMZ	$m_b = 4.8$	1.0	0.047
			LZ	$M_s = 3.9$	20.0	0.47
NJ2	23.5	344	+P	04 03 00.0	1.7	
			PMZ	$m_b = 4.6$	1.0	0.026
			LZ	$M_s = 3.9$	20.0	0.43
WHN	23.8	333	+iP	04 03 04.0	3.0	
			PMZ	$m_b = 4.8$	1.0	0.040
			pP	04 03 11.0	-3.9	
TIA	27.9	344	-P	04 03 39.2	-0.4	
XAN	29.2	329	P	04 03 48.0	-3.8	
TIY	30.8	338	eP	04 04 05.8	0.3	
			LE	$M_s = 4.5$	15.0	0.46
			LZ	$M_s = 4.4$	20.0	0.75
BJI	31.7	345	eP	04 04 13.5	-0.2	
			PMZ	$m_b = 5.1$	1.5	0.050
			LZ	$M_s = 4.0$	20.0	0.30
HHC	33.9	339	eP	04 04 33.3	0.9	
CN2	34.1	359	eP	04 04 35.0	0.4	
MDJ	35.0	4	eP	04 04 42.5	0.1	
GTA	38.1	326	P	04 05 07.4	-0.9	

NOV 4d 15h 39m $16.2 \pm 0.44s$, SD2.55 / 29						
3.42 S $\pm 2.63km$, 80.29 W $\pm 1.97km$, $h_{26} \pm 3.74km$						
Peru-Ecuador border region (110)						
BJI	140.6	340	PKP	15 58 41.5	-3.2	
TIY	143.9	343	ePKP	15 58 47.2	-3.3	
GTA	144.2	360	ePKP	15 58 47.2	-3.8	
SSE	145.8	326	ePKP	15 58 52.5	-1.2	
NJ2	146.3	330	ePKP	15 58 55.0	0.5	
LZH	147.3	354	PKP	15 58 57.5	1.2	
			sPKP	15 59 12.8	6.3	
XAN	148.4	345	PKP	15 58 59.5	1.6	
WHN	149.7	334	ePKP	15 59 01.0	1.0	
CD2	152.4	352	ePKP	15 59 09.8	5.7	

NOV 4d 06h 35m $09.5 \pm 0.07s$, SD1.06 / 34						
16.23 S $\pm 1.73km$, 173.16 W $\pm 1.72km$, $h_{33} \pm 0.12km$						
Tonga (173)						
$m_b 4.9 / 4,$						
MDJ	79.8	322	eP	06 47 16.0	-1.0	
CN2	81.9	320	P	06 47 28.0	0.1	
BJI	86.2	313	eP	06 47 50.0	0.4	
			PMZ	$m_b = 4.9$	1.0	0.012
TIY	88.0	310	eP	06 47 59.3	1.0	
			S	06 58 34.0	-2.2	
			sS	06 58 55.0	0.9	
			LZ	$M_s = 5.0$	28.0	0.90
GYA	88.6	298	P	06 48 03.0	1.5	
XAN	89.3	306	P	06 48 05.5	0.9	

NOV 4d 18h 04m $00.7 \pm 0.11s$, SD1.02 / 80						
72.27 N $\pm 1.23km$, 0.60 E $\pm 1.53km$, $h_{10} \pm 0.20km$						
Norwegian Sea (642)						
$M_s 5.4 / 13, m_b 5.7 / 6, m_b 5.1 / 12,$						
WMQ	48.1	76	+iP	18 12 44.4	1.1	
			PP	18 14 36.0	2.0	
			LZ	$M_s = 5.0$	20.0	1.80
KSH	48.4	89	eP	18 12 47.0	1.0	
GTA	55.7	68	eP	18 13 40.2	-0.1	
			LZ	$M_s = 5.0$	20.0	1.32
BTO	57.4	59	eP	18 13 51.5	-0.8	
			eS	18 21 49.0	1.5	
			LN	$M_s = 5.5$	15.0	1.60
			LE		15.0	0.80
HHC	57.5	57	P	18 13 53.8	0.3	
CN2	58.0	44	-P	18 13 55.0	-1.8	
			PMZ	$m_b = 5.9$	4.0	0.60
			S	18 21 55.0	0.2	
			LE	$M_s = 5.4$	14.0	1.20
			LZ	$M_s = 4.8$	20.0	0.70
MDJ	58.1	41	eP	18 13 57.0	-0.3	
			LE	$M_s = 5.3$	12.0	0.90
BJI	59.4	54	eP	18 14 07.0	0.3	
			PMZ	$m_b = 4.9$	1.5	0.026
SNY	59.5	47	eP	18 14 05.4	-1.6	
LZH	59.9	66	eP	18 14 10.0	-0.2	
			PMZ	$m_b = 5.3$	2.5	0.10
			PMZ	$m_b = 5.7$	5.0	0.47
			ePP	18 16 20.0	-3.3	
			eS	18 22 24.0	3.0	
			LN	$M_s = 5.6$	13.0	0.93
			LE		18.0	1.87
			LZ	$M_s = 5.3$	20.0	2.26
TIY	60.7	58	+P	18 14 15.9	0.5	
			LE	$M_s = 5.7$	21.0	3.61
			LZ	$M_s = 5.3$	20.0	2.13
LSA	62.2	80	P	18 14 27.4	1.5	

NOV 4d 10h 21m $03.4 \pm 0.08s$, SD1.89 / 9						
44.23 N $\pm 0.79km$, 88.04 E $\pm 0.75km$, $h_{18} \pm 0.36km$						
Northern Xinjiang Province (332)						
$M_L 3.7 / 8,$						
WMQ	0.5	210	Pg	10 21 13.5	1.0	

			PMZ	$m_b = 5.7$	4.0	0.40	WHN	67.9	59	-P	18 28 13.5	-0.6				
			eS	18 22 50.0	-0.5		GYA	69.7	67	-P	18 28 25.4	0.1				
XAN	63.2	62	eP	18 14 31.5	-0.9					S	18 37 34.0	2.5				
TIA	63.3	54	+P	18 14 32.9	0.0		KMI	69.8	71	-P	18 28 26.0	-0.2				
			S	18 23 07.5	5.0					PMZ	$m_b = 5.4$	2.0	0.10			
			LN	$M_s = 5.4$	14.0	0.94	QZN	77.6	66	eP	18 29 12.5	1.0				
			LE		14.0	0.53				eS	18 39 04.0	1.5				
			LZ	$M_s = 5.4$	16.0	1.90				LE	$M_s = 5.6$	19.0	1.87			
CD2	64.8	68	eP	18 14 42.4	0.1		NOV 4d 20h 12m $03.7 \pm 0.10s$, $SD1.49 / 102$									
NJ2	67.7	54	+P	18 15 01.0	-0.1		$39.22 N \pm 1.79km$, $143.22 E \pm 2.02km$, $h25 \pm 0.57km$									
			PMZ	$m_b = 5.0$	1.0	0.020	Near east coast of Honshu (228)									
			eS	18 23 58.0	0.5		$M_s 6.2 / 52$, $m_b 6.1 / 26$, $m_b 5.6 / 16$,									
WHN	68.0	58	+P	18 15 02.5	-0.4		MDJ	11.5	302	+iP	20 14 52.0	2.5				
SSE	69.2	52	-P	18 15 10.0	-0.3					S	20 17 00.0	2.3				
			PMZ	$m_b = 5.1$	1.0	0.024				LE	$M_s = 5.9$	14.0	59.6			
			SS	18 28 44.0	2.1		CN2	14.1	295	+iP	20 15 23.0	-1.0				
			LN	$M_s = 5.3$	13.0	0.58				PMZ	$m_b = 5.7$	1.4	0.20			
			LE		13.0	0.30				PMZ	$m_b = 6.3$	8.0	5.00			
			LZ	$M_s = 5.0$	20.0	0.94				pP	20 15 28.0	-2.3				
GYA	69.8	67	P	18 15 14.0	-0.1					S	20 17 58.0	-1.9				
			S	18 24 23.0	2.2					LN	$M_s = 5.8$	13.0	13.8			
KMI	69.9	71	+P	18 15 15.0	-0.1					LE		13.0	28.9			
			PMZ	$m_b = 5.4$	2.0	0.10				LZ	$M_s = 5.6$	15.0	28.2			
			S	18 24 24.0	1.5		SNY	15.2	286	+iP	20 15 39.0	0.8				
			iS	18 24 26.0	1.7					PMZ	$m_b = 5.3$	1.2	0.16			
			LZ	$M_s = 5.1$	25.0	1.30				pP	20 15 48.0	3.4				
QZN	77.7	66	eP	18 16 00.5	0.2					S	20 18 30.0	4.4				
			eS	18 25 52.0	0.3					LN	$M_s = 5.7$	11.0	10.2			
			LE	$M_s = 5.7$	21.0	2.53				LE		12.0	17.8			
NOV 4d 18h 17m $12.4 \pm 0.09s$, $SD1.11 / 77$										LZ	$M_s = 5.8$	14.0	40.0			
$72.26 N \pm 1.12km$, $0.98 E \pm 1.80km$, $h9 \pm 0.20km$										DL2	16.8	276	+iP	20 15 58.0	-0.8	
Norwegian Sea (642)													S	20 19 02.0	-1.0	
$M_s 5.4 / 11$, $m_b 5.3 / 14$,													LN	$M_s = 5.6$	12.0	12.9
WMQ	48.0	77	-iP	18 25 55.5	1.3					LZ	$M_s = 5.7$	12.0	22.5			
			eS	18 32 58.5	6.9		SSE	19.7	252	+P	20 16 30.0	-4.5				
			LZ	$M_s = 4.9$	16.0	1.13				PMZ	$m_b = 5.2$	1.0	0.11			
KSH	48.3	90	eP	18 25 59.0	2.0					PMZ	$m_b = 5.8$	8.0	4.02			
			PP	18 27 52.0	3.9					sP	20 16 45.0	-0.6				
			LE	$M_s = 5.5$	10.0	1.70				eS	20 20 04.0	-6.4				
GTA	55.6	68	-P	18 26 51.6	0.3					sS	20 20 20.0	-0.7				
			LZ	$M_s = 5.7$	18.0	5.83				SS	20 20 30.0	-7.0				
BTO	57.3	59	eP	18 27 02.0	-1.4					LN	$M_s = 5.9$	14.0	23.5			
HHC	57.4	57	P	18 27 05.2	0.6					LE		14.0	14.0			
CN2	57.9	45	eP	18 27 06.0	-2.0					LZ	$M_s = 5.2$	20.0	10.2			
MDJ	58.0	41	eP	18 27 08.5	-0.1											
BJI	59.4	54	eP	18 27 18.0	0.1		BJI	20.8	281	eP	20 16 44.0	-2.2				
			PMZ	$m_b = 5.4$	2.0	0.10				PMZ	$m_b = 5.5$	1.5	0.38			
			LN	$M_s = 5.4$	14.0	1.29				PMZ	$m_b = 5.6$	6.0	1.62			
			LZ	$M_s = 5.4$	17.0	2.63				ePP	20 17 06.0	-2.0				
SNY	59.4	47	+P	18 27 17.0	-1.3					esS	20 20 40.0	-4.3				
			LZ	$M_s = 4.8$	28.0	1.12				LN	$M_s = 5.9$	14.0	7.74			
LZH	59.8	66	-P	18 27 21.2	-0.1					LE		14.0	23.8			
			PMZ	$m_b = 5.5$	2.5	0.18	TIA	20.8	270	-P	20 16 44.4	-2.0				
			PMZ		3.0	0.49				PMZ	$m_b = 5.8$	9.0	3.70			
			PcP	18 28 08.5	1.8					pP	20 16 50.0	-3.8				
			ePP	18 29 35.5	1.4					S	20 20 30.0	-2.1				
			LN	$M_s = 5.3$	17.0	0.83				LN	$M_s = 6.1$	12.5	16.6			
			LE		18.0	0.81				LE		12.5	27.9			
			LZ	$M_s = 5.3$	18.0	2.20	NJ2	21.0	258	+P	20 16 48.0	-0.2				
TIY	60.6	58	-P	18 27 27.0	0.4					LZ	$M_s = 6.0$	13.0	37.2			
			S	18 35 46.0	5.7											
LSA	62.1	80	+P	18 27 38.6	1.7					PMZ		13.0	3.11			
XAN	63.1	62	-P	18 27 43.0	-0.6					eS	20 20 36.0	-0.3				
TIA	63.2	54	-P	18 27 44.0	-0.1					sS	20 20 52.0	3.7				
CD2	64.6	68	P	18 27 53.5	0.0					LN	$M_s = 6.2$	13.0	17.0			
NJ2	67.6	54	-P	18 28 11.0	-1.3					LE		13.0	33.1			
			LZ	$M_s = 5.3$	17.0	1.78	TIY	24.1	276	+P	20 17 18.3	-0.4				
										PMZ		13.0	4.31			

	pP	20 17 23.0	-3.3		KMI	36.7 260	+P	20 19 11.5	0.0		
	sP	20 17 34.0	4.1				PMZ	$m_b = 6.0$		1.5	0.40
	S	20 21 32.0	0.7				PMZ	$m_b = 6.1$		6.0	2.00
	sS	20 21 42.5	-2.1				pP	20 19 18.0	-1.2		
	LN	$M_s = 6.2$		12.0	17.8		sP	20 19 22.0	-0.7		
	LE			14.0	31.1		PP	20 20 39.0	2.8		
	LZ	$M_s = 6.0$		17.0	39.6		iS	20 24 57.0	3.5		
HHC	24.2 284	P	20 17 19.8	-0.2			SMN			1.0	1.50
	PP	20 17 54.7	0.3				SME			1.0	1.60
	sS	20 21 46.5	-0.3				SS	20 27 24.0	4.0		
	LN	$M_s = 6.1$		13.0	13.5		LN	$M_s = 6.2$		13.0	11.6
	LE			15.0	25.7		LE			13.0	11.5
	LZ	$M_s = 6.1$		18.0	56.9		LZ	$M_s = 6.2$		15.0	29.9
WHN	25.1 259	+iP	20 17 29.5	0.9		WMQ	41.2 295	P	20 19 49.4	1.1	
	PMZ	$m_b = 5.9$		10.0	3.18		PMZ	$m_b = 6.3$		7.0	3.75
	sP	20 17 37.0	-2.9				S	20 26 04.5	5.4		
	S	20 21 51.0	2.2				LN	$M_s = 6.1$		12.0	8.19
	sS	20 22 00.0	-2.3				LE			12.0	6.72
	LN	$M_s = 6.3$		14.0	11.6		LZ	$M_s = 5.9$		16.0	12.7
	LE			14.0	36.4		LSA	43.5 274	eP	20 20 10.0	2.5
	LZ	$M_s = 5.9$		16.0	26.2		sP	20 20 20.0	1.5		
QZH	25.2 243	+iP	20 17 28.0	-0.9			S	20 26 35.5	2.7		
	PMZ	$m_b = 6.2$		8.0	4.87		ScS	20 30 07.0	5.1		
	S	20 21 46.0	-3.2				LN	$M_s = 6.0$		15.0	5.40
BTO	25.4 284	+iP	20 17 30.0	-1.5			LE			16.0	7.40
	pP	20 17 36.0	-3.1			KSH	50.9 293	iP	20 21 08.0	2.7	
	PP	20 18 10.0	0.0				sP	20 21 16.0	-0.6		
	S	20 21 52.0	-1.7				PP	20 23 06.0	4.5		
	LN	$M_s = 6.4$		14.0	10.9		S	20 28 24.0	6.2		
	LE			16.0	56.2		LE	$M_s = 6.4$		12.0	13.6
XAN	27.9 270	P	20 17 53.5	-0.8			NOV 4d 20h 47m $20.8 \pm 0.10s$, SD1.34 / 46				
	PMZ	$m_b = 6.1$		8.0	3.40		30.62 N $\pm 2.05km$, 57.60 E $\pm 1.31km$, h32 $\pm 0.11km$				
	LN	$M_s = 6.2$		13.0	7.30		Iran (348)				
	LE			12.0	24.9		$M_s 5.7 / 4$, $m_b 5.5 / 4$,				
GZH	30.0 246	P	20 18 14.6	1.4		KSH	17.4 54	eP	20 51 23.0	-0.1	
	PMZ	$m_b = 5.9$		9.0	2.00	WMQ	27.2 53	P	20 53 04.0	0.1	
	S	20 23 12.0	4.0			GTA	35.4 64	-iP	20 54 16.8	0.6	
	LN	$M_s = 6.3$		14.0	13.2		LZ	$M_s = 5.5$		16.0	6.10
	LE			14.0	29.8		LZH	38.7 69	eP	20 54 43.5	-0.7
	LZ	$M_s = 6.0$		16.0	26.8		PMZ	$m_b = 5.1$		2.0	0.070
LZH	31.2 277	+iP	20 18 24.0	0.5			sP	20 54 55.0	-2.1		
	PMZ			3.0	0.56	KMI	40.1 86	+P	20 54 56.5	1.1	
	PMZ	$m_b = 6.1$		8.0	2.46	GYA	43.0 83	P	20 55 20.0	0.3	
	sP	20 18 33.0	-1.7			XAN	43.1 71	P	20 55 20.0	-0.4	
	PP	20 19 22.0	-3.6			BTO	43.2 62	eP	20 55 20.8	-0.3	
	eS	20 23 25.0	-2.1			HHC	44.4 61	P	20 55 31.6	1.2	
	sS	20 23 38.0	-2.0			TIY	45.4 66	eP	20 55 39.0	0.5	
	ScP	20 24 55.0	-2.3				S	21 02 17.0	1.1		
	LN	$M_s = 6.4$		13.0	23.6		LN	$M_s = 5.7$		13.0	3.75
	LE			13.0	26.1		LZ	$M_s = 5.7$		14.0	6.31
	LZ	$M_s = 6.2$		14.0	38.2		BJI	47.9 62	eP	20 55 56.0	-2.7
GYA	33.0 258	+P	20 18 39.4	-0.3			PMZ	$m_b = 5.8$		1.5	0.18
	pP	20 18 50.0	2.5				NOV 4d 20h 51m $12.2 \pm 0.07s$, SD1.39 / 91				
	S	20 23 56.0	1.1				39.22 N $\pm 1.72km$, 143.47 E $\pm 1.50km$, h21 $\pm 0.51km$				
	LN	$M_s = 6.1$		13.0	8.40		Near east coast of Honshu (228)				
	LE			13.0	15.1		$M_s 5.3 / 17$, $m_b 5.2 / 16$,				
CD2	33.1 268	+P	20 18 42.0	1.4		MDJ	11.7 302	eP	20 54 02.5	1.8	
	PP	20 19 57.0	5.8				S	20 56 12.0	1.2		
	S	20 24 03.0	6.3				LE	$M_s = 5.1$		14.0	10.1
	LN	$M_s = 6.3$		13.0	22.8		CN2	14.3 295	eP	20 54 36.0	0.7
	LZ	$M_s = 6.0$		14.0	18.6		DL2	17.0 276	eP	20 55 10.0	-0.2
GTA	33.3 284	+iP	20 18 43.0	0.5		SSE	19.9 253	+P	20 55 46.5	0.9	
	S	20 23 56.0	-3.8				PMZ	$m_b = 5.0$		1.0	0.071
	LZ	$M_s = 6.2$		16.0	33.5		pP	20 55 53.0	0.8		
QZN	35.1 245	+P	20 19 00.0	2.2			LN	$M_s = 5.2$		12.0	4.04
	S	20 24 31.0	3.3				LZ	$M_s = 4.9$		16.0	3.56
	LN	$M_s = 6.2$		14.5	14.0						
	LE			15.5	14.5						

CD2	33.2 268	S	22 08 35.0	-0.4		
		LN		$M_s = 5.5$	13.0	1.60
		LE			13.0	3.40
		LZ		$M_s = 4.9$	14.0	1.70
GTA	33.4 284	P	22 03 19.6	-0.2		
		LN		$M_s = 5.5$	14.0	4.49
		LZ		$M_s = 5.2$	14.0	3.14
QZN	35.2 245	+iP	22 03 22.6	1.2		
		S	22 08 35.0	-4.5		
		LZ		$M_s = 5.5$	16.0	7.87
KMI	36.8 260	eP	22 03 39.5	2.2		
		eS	22 09 10.0	0.6		
		LN		$M_s = 5.3$	13.0	1.55
		LE			13.0	1.63
WMQ	41.2 295	+iP	22 03 51.5	0.7		
		PMZ		$m_b = 5.9$	1.5	0.30
		pP	22 03 56.0	-1.3		
		sP	22 04 02.0	1.5		
		eS	22 09 34.0	0.1		
		LN		$M_s = 5.4$	13.0	1.40
		LE			13.0	1.90
LSA	43.5 274	LZ		$M_s = 5.4$	14.0	4.50
		iP	22 04 28.3	1.3		
		S	22 10 40.0	1.6		
KSH	50.9 293	LZ		$M_s = 4.9$	16.0	1.46
		P	22 04 48.6	2.1		
		S	22 11 18.0	5.2		
KSH	50.9 293	LN		$M_s = 5.3$	15.0	1.90
		P	22 05 45.0	0.9		

NOV 5d 01h 25m $29.7 \pm 0.08s$, SD1.81 / 46
 39.21 N $\pm 1.93km$, 143.33 E $\pm 2.02km$, h28 $\pm 1.49km$
 Near east coast of Honshu (228)
 $m_b 4.2 / 3$,

BJI	20.9 281	eP	01 30 10.0	-2.6		
NJ2	21.1 258	eP	01 30 13.0	-1.6		
WHN	25.2 259	+P	01 30 55.0	0.0		
		pP	01 31 05.0	1.9		
XAN	28.0 270	P	01 31 21.0	0.4		
LZH	31.3 277	eP	01 31 52.3	2.5		
		LZ		$M_s = 4.2$	14.0	0.35
GYA	33.1 259	P	01 32 05.4	-0.6		
GTA	33.4 284	eP	01 32 09.0	0.2		
KMI	36.8 260	-P	01 32 36.5	-1.2		
		pP	01 32 46.5	0.7		
WMQ	41.2 295	P	01 33 16.0	1.5		

NOV 5d 02h 28m $50.2 \pm 0.07s$, SD1.60 / 8
 40.24 N $\pm 0.61km$, 118.42 E $\pm 0.62km$, h8 $\pm 0.23km$
 North-Eastern China (658)
 $M_L 3.1 / 8$,

QZH	5.6 269	+P	04 23 40.8	-0.6		
		eS	04 24 40.3	-4.4		
		SMN			1.5	0.28
		SME			1.0	0.080
SSE	6.7 333	P	04 23 57.5	0.3		
		S	04 25 11.0	-1.8		
		SMN			1.0	0.14
		SME			1.0	0.12
NJ2	8.6 324	LE			6.0	0.86
		-P	04 24 23.0	-0.2		
		S	04 25 55.0	-4.3		
		LN			3.0	0.65

WHN	10.7 303	LE	04 24 51.0	0.3		
		+P				
		PMZ		$m_b = 5.2$	1.0	0.040
		PcP	04 30 45.0	-1.1		
QZN	15.1 249	S	04 26 45.0	-3.5		
		LN			5.0	1.13
		eP	04 25 49.6	0.9		
		eS	04 28 34.0	0.2		
GYA	16.3 279	+P	04 26 07.2	2.5		
		S	04 29 04.2	2.3		
		-P	04 26 06.6	1.9		
TIY	16.3 323	eS	04 29 05.0	2.2		
		LZ			18.0	0.61
XAN	16.4 307	P	04 26 04.8	-0.1		
BJI	16.5 336	eP	04 26 07.0	0.2		
		PMZ		$m_b = 4.4$	1.2	0.020
SNY	16.7 357	eP	04 26 10.0	1.1		
CN2	18.6 2	PMZ		$m_b = 4.8$	1.6	0.072
		-P	04 26 32.0	-0.4		
HHC	19.1 328	eP	04 26 41.5	3.3		
CD2	19.4 292	eP	04 26 38.8	-1.9		
		eS	04 30 15.0	5.0		
KMI	19.9 275	eP	04 26 44.5	-2.1		
		PMZ		$m_b = 4.8$	2.0	0.10
LZH	21.0 306	eP	04 26 56.5	-1.1		
		i	04 27 02.0			
GTA	25.3 310	PMZ		$m_b = 5.0$	1.8	0.14
		pP	04 27 16.2	-0.1		
		LZ			15.0	0.34
		eP	04 27 37.8	-1.8		
WMQ	35.4 311	pP	04 28 02.5	3.2		
		P	04 29 07.0	-1.6		

NOV 5d 13h 42m $03.5 \pm 0.09s$, SD1.43 / 99
 39.27 N $\pm 1.79km$, 143.35 E $\pm 1.76km$, h25 $\pm 0.58km$
 Near east coast of Honshu (228)
 $M_s 5.2 / 42$, $m_b 5.7 / 4$, $m_b 5.2 / 18$,

MDJ	11.6 302	-P	13 44 51.8	1.6		
		S	13 47 04.0	4.9		
		LE		$M_s = 4.9$	12.0	5.43
		LZ		$M_s = 5.1$	14.0	11.6
CN2	14.2 294	+iP	13 45 24.0	-0.8		
		PMZ		$m_b = 5.8$	4.0	0.80
		pP	13 45 33.0	2.0		
		eS	13 48 09.0	6.9		
SNY	15.3 286	LN		$M_s = 4.9$	13.0	1.50
		LE			13.0	3.90
		LZ		$M_s = 4.7$	14.0	3.50
		+P	13 45 40.4	1.3		
DL2	16.9 276	PMZ		$m_b = 4.9$	1.2	0.059
		PMZ		$m_b = 5.5$	5.0	0.98
		pP	13 45 46.0	0.6		
		S	13 48 32.0	4.5		
SSE	19.8 253	LN		$M_s = 4.9$	13.0	2.60
		LE			13.0	2.53
		LZ		$M_s = 4.9$	14.0	4.82
		P	13 46 00.0	0.1		
SSE	19.8 253	S	13 49 06.1	1.0		
		sS	13 49 18.0	1.9		
		LN		$M_s = 4.9$	12.0	1.36
		LE			12.0	2.70
		LZ		$M_s = 4.6$	12.0	1.88
		-P	13 46 36.5	0.9		
		pP	13 46 44.8	2.1		
		sP	13 46 49.6	3.0		
SSE	19.8 253	eS	13 50 12.0	-0.7		
		LN		$M_s = 5.0$	12.0	2.38
SSE	19.8 253	LZ		$M_s = 4.8$	15.0	3.11



BJI	20.9	281	+P	13 46 44.5	-2.5					LN	$M_s = 5.3$			
			PMZ	$m_b = 5.3$		1.5	0.21			LE				
			eS	13 50 35.0	0.9					LZ	$M_s = 4.7$		1.20	
			esS	13 50 46.0	0.1				CD2	33.2	268	eP	13 48 41.0	-0.4
			LN	$M_s = 4.9$		12.0	0.97			eS		13 53 55.8	-3.4	
			LE			14.0	1.99			LN	$M_s = 5.4$		13.0	3.20
			LZ	$M_s = 5.1$		11.0	3.70			LZ	$M_s = 4.9$		14.0	1.70
TIA	20.9	270	eP	13 46 46.2	-1.1				GTA	33.4	284	+iP	13 48 44.0	0.9
			S	13 50 38.0	4.0					PP		13 49 54.0	-0.6	
			SME			13.0	1.60			S		13 54 04.0	2.9	
			LN	$M_s = 5.2$		13.0	1.97			LZ	$M_s = 5.2$		16.0	4.08
			LE			12.0	3.00		QZN	35.3	245	eP	13 49 00.0	1.4
			LZ	$M_s = 5.1$		15.0	4.96			eS		13 54 33.0	2.7	
NJ2	21.1	258	-P	13 46 48.5	-0.7					LN	$M_s = 5.2$		15.0	1.10
			sS	13 50 52.0	1.8					LE			13.0	1.55
			LN	$M_s = 5.0$		13.0	0.94		KMI	36.8	260	+P	13 49 12.5	0.3
			LE			13.0	2.49			PMZ	$m_b = 5.7$		1.5	0.20
			LZ	$M_s = 4.9$		14.0	3.44			pP		13 49 19.0	-0.8	
TIY	24.2	276	eP	13 47 19.0	-0.5					sP		13 49 22.5	-0.8	
			P2	13 47 23.0	4.0					S		13 54 58.0	4.2	
			pP	13 47 32.0	5.0					LN	$M_s = 5.4$		15.0	1.80
			sS	13 51 48.0	2.0					LE			15.0	2.50
			LN	$M_s = 5.1$		14.0	1.65			LZ	$M_s = 5.3$		14.0	3.50
			LE			16.0	2.17		WMQ	41.2	295	+P	13 49 50.0	1.3
			LZ	$M_s = 4.9$		18.0	3.65			eS		13 56 05.8	4.6	
HHC	24.3	284	eP	13 47 20.0	-0.7					LZ	$M_s = 4.9$		16.0	1.39
			S	13 51 35.4	0.5				LSA	43.6	274	eP	13 50 09.8	1.7
			LN	$M_s = 5.1$		12.0	0.82			P		13 50 11.5	4.5	
			LE			15.0	2.85			eS		13 56 40.0	4.0	
			LZ	$M_s = 5.2$		15.0	5.56			LE	$M_s = 5.1$		17.0	1.20
WHN	25.2	259	+iP	13 47 30.0	0.5				KSH	51.0	293	-iP	13 51 08.0	2.2
			pP	13 47 36.0	-1.1					sP		13 51 19.0	2.1	
			eS	13 51 52.0	0.7					eS		13 58 24.7	4.6	
			LE	$M_s = 5.2$		14.0	3.59			sS		13 58 36.0	2.8	
			LZ	$M_s = 5.0$		14.0	2.96			LN	$M_s = 5.4$		12.0	1.30
QZH	25.3	243	+P	13 47 29.0	-0.8				NOV 5d 15h 08m $24.5 \pm 0.07s$, $SD1.53 / 88$ 40.03 N $\pm 1.77km$, 142.71 E $\pm 1.61km$, $h43 \pm 1.10km$ Near east coast of Honshu (228) $M_s 4.6 / 11$, $m_b 5.2 / 22$,					
			S	13 51 56.0	5.0				MDJ	10.7	300	eP	15 11 01.0	2.3
			LN	$M_s = 5.2$		15.0	2.89			sS		15 13 08.0	-1.7	
			LE			15.0	2.23			LZ	$M_s = 4.6$		16.0	3.90
			LZ	$M_s = 4.9$		14.0	2.37		CN2	13.4	292	eP	15 11 35.0	0.6
BTO	25.5	284	P	13 47 31.0	-1.2					PMZ	$m_b = 5.2$		0.8	0.030
			sP	13 47 40.0	-3.3					pP		15 11 43.5	1.0	
			PP	13 48 07.0	-3.8					eS		15 14 03.0	0.7	
			eS	13 51 53.5	-2.5					LN	$M_s = 4.3$		10.0	0.70
			LN	$M_s = 5.4$		14.0	1.40			LE			10.0	0.50
			LE			15.0	5.40			LZ	$M_s = 5.1$		20.0	14.1
XAN	28.0	270	P	13 47 55.0	-0.1				DL2	16.3	273	eP	15 12 15.5	3.2
			sS	13 52 51.0	1.6					eS		15 15 16.0	4.9	
			LE	$M_s = 5.1$		12.0	2.00		SSE	19.6	250	P	15 12 50.5	-1.7
GZH	30.1	247	eP	13 48 15.0	1.0					PMZ	$m_b = 4.9$		1.0	0.069
			LN	$M_s = 5.3$		14.0	1.60		BJI	20.3	279	eP	15 12 57.0	-2.5
			LE			14.0	2.50			PMZ	$m_b = 4.6$		1.4	0.044
			LZ	$M_s = 4.9$		14.0	2.10			LZ	$M_s = 4.3$		20.0	1.20
LZH	31.3	277	+P	13 48 24.5	0.3				TIA	20.5	267	P	15 13 00.0	-1.3
			PMZ	$m_b = 5.3$		2.0	0.11		NJ2	20.8	255	+P	15 13 04.0	-1.0
			PMZ	$m_b = 5.2$		10.0	0.43			PMZ	$m_b = 5.0$		1.0	0.080
			pP	13 48 30.0	-1.7					LN	$M_s = 4.3$		11.0	0.46
			pP	13 48 34.0	2.3					LZ	$M_s = 4.3$		16.0	0.88
			ePP	13 49 27.0	0.3				HHC	23.7	282	P	15 13 32.4	-0.9
			S	13 53 26.0	-1.3				BTO	24.9	282	eP	15 13 42.0	-2.9
			LN	$M_s = 5.4$		13.0	2.21			pP		15 13 53.0	-2.4	
			LE			13.0	3.10			PP		15 14 20.0	-1.6	
			LZ	$M_s = 5.3$		14.0	4.44			eS		15 17 57.5	-4.8	
GYA	33.1	258	+iP	13 48 40.2	-0.3					LN	$M_s = 4.8$		16.0	0.50
			PMZ	$m_b = 5.4$		1.2	0.070							
			sP	13 48 50.2	-1.4									
			S	13 53 58.6	2.1									
			ScP	13 55 02.0	-2.0									

WHN	24.9	257	LE	15 13 46.0	0.6	16.0	1.50	LN	$M_s = 5.2$	13.0	2.70
			+P					LE		13.0	3.77
			PMZ	$m_b = 5.5$		1.0	0.17	NJ2	21.1 258	+P	16 01 03.0 -2.4
			pP	15 13 57.0	1.0			eS		16 04 55.0	0.2
QZH	25.2	241	-P	15 13 49.0	1.1			isS		16 05 12.0	5.9
GZH	30.0	245	eP	15 14 33.4	1.7			LN	$M_s = 5.0$	12.5	1.37
LZH	30.7	275	eP	15 14 36.5	-1.5			LE		14.0	2.39
			PMZ	$m_b = 5.2$		1.5	0.058	LZ	$M_s = 5.0$	14.0	3.61
GTA	32.8	283	P	15 14 56.6	0.4			TIY	24.2 276	eP	16 01 34.5 -1.1
			PcP	15 17 41.6	1.7			PP		16 02 11.5	1.7
			LZ	$M_s = 4.7$		18.0	1.47	eS		16 05 45.0	-5.1
CD2	32.8	266	P	15 14 54.8	-1.4			LN	$M_s = 5.1$	12.0	2.19
GYA	32.8	257	+iP	15 14 56.2	-0.3			LZ	$M_s = 5.0$	17.0	4.32
			PMZ	$m_b = 5.7$		1.0	0.13	HHC	24.3 284	eP	16 01 36.0 -0.8
			pP	15 15 08.0	0.7			S		16 05 51.0	-0.2
			S	15 20 12.0	3.5			sS		16 06 04.0	0.4
QZN	35.1	243	eP	15 15 15.7	-0.7			LN	$M_s = 5.1$	13.0	1.39
KMI	36.5	258	+P	15 15 29.0	0.9			LE		15.0	2.66
			PMZ	$m_b = 5.7$		1.5	0.20	LZ	$M_s = 5.2$	16.0	6.19
			sP	15 15 47.5	3.8			WHN	25.3 259	+iP	16 01 46.5 0.8
WMQ	40.5	294	+P	15 16 02.3	1.2			sP		16 01 55.5	-0.8
LSA	43.0	273	eP	15 16 24.4	1.9			eS		16 06 08.0	0.2
KSH	50.2	292	eP	15 17 20.4	1.6			LN	$M_s = 5.3$	14.0	2.11
								LE		14.0	3.92
								LZ	$M_s = 5.0$	14.0	2.96
NOV 5d 15h 56m $19.2 \pm 0.08s$, $SD1.39 / 97$								QZH	25.3 243	+P	16 01 46.0 0.0
39.30 N $\pm 1.77km$, 143.36 E $\pm 1.61km$, $h22 \pm 0.54km$										eS	16 06 08.0 -0.4
Near east coast of Honshu (228)										LN	$M_s = 5.2$ 15.0 2.89
$M_s 5.2 / 41$, $m_b 5.7 / 2$, $m_b 5.2 / 19$,										LE	15.0 2.23
MDJ	11.5	302	eP	15 59 06.5	0.5			LZ	$M_s = 4.9$	14.0	2.60
			eS	16 01 14.0	-1.3			BTO	25.5 284	+iP	16 01 46.0 -2.3
			LE	$M_s = 5.2$		13.0	12.4	pP		16 01 51.0	-4.2
			LZ	$M_s = 5.2$		14.0	12.4	PP		16 02 24.0	-2.8
CN2	14.1	294	+iP	15 59 41.0	0.3			eS		16 06 09.0	-3.3
			PMZ	$m_b = 5.2$		0.8	0.040	SS		16 07 11.0	-3.1
			PMZ	$m_b = 5.8$		4.0	0.80	LN	$M_s = 5.4$	15.0	1.20
			pP	15 59 46.0	-0.5			LE		15.0	5.80
			eS	16 02 18.0	0.0			XAN	28.0 270	P	16 02 11.0 -0.2
			LN	$M_s = 4.8$		13.0	1.20	LE	$M_s = 5.2$	12.0	2.54
			LE			13.0	3.20	GZH	30.2 246	eP	16 02 31.5 1.2
			LZ	$M_s = 4.7$		14.0	3.40	S		16 07 27.0	0.7
SNY	15.2	286	+P	15 59 53.7	-1.4			LN	$M_s = 5.2$	14.0	1.30
			S	16 02 49.0	5.5			LE		13.0	1.70
			LZ	$M_s = 4.9$		14.0	4.50	LZ	$M_s = 4.9$	13.0	1.70
DL2	16.9	276	eP	16 00 17.0	1.1			LZH	31.3 277	+P	16 02 40.0 -0.3
			S	16 03 24.5	3.2			PMZ	$m_b = 5.3$	2.0	0.10
			sS	16 03 34.0	2.2			PMZ	$m_b = 5.6$	4.0	0.42
			LN	$M_s = 5.0$		12.0	1.36	pP		16 02 46.0	-1.4
			LE			14.0	3.60	sP		16 02 50.0	-0.7
			LZ	$M_s = 4.5$		18.0	2.11	PP		16 03 39.0	-3.7
SSE	19.9	252	eP	16 00 50.0	-1.8			S		16 07 44.0	0.4
			PMZ	$m_b = 5.0$		1.0	0.081	sS		16 07 54.0	-2.8
			sP	16 01 01.0	-1.3			LN	$M_s = 5.5$	12.0	1.10
			PP	16 01 07.5	-2.6			LE		13.0	3.72
			eS	16 04 32.0	2.8			LZ	$M_s = 5.3$	15.0	4.74
			sS	16 04 42.0	3.0			GYA	33.1 258	+iP	16 02 56.6 -0.1
			LN	$M_s = 5.0$		14.0	2.35	PMZ	$m_b = 5.5$	1.4	0.10
			LE			14.0	1.89	S		16 08 15.0	1.9
			LZ	$M_s = 4.8$		14.0	2.67	sS		16 08 26.0	-0.2
BJI	20.9	281	eP	16 01 01.0	-2.0			LN	$M_s = 5.2$	14.0	1.40
			PMZ	$m_b = 5.3$		1.4	0.20	LE		14.0	1.60
			esP	16 01 10.0	-3.5			CD2	33.3 268	P	16 02 57.4 -0.1
			ePP	16 01 22.0	-3.0			eS		16 08 20.0	4.3
			eS	16 04 52.0	1.6			LN	$M_s = 5.3$	13.0	2.72
			LE	$M_s = 5.0$		15.0	2.93	LZ	$M_s = 4.9$	14.0	1.79
			LZ	$M_s = 5.0$		15.0	4.08	GTA	33.4 284	P	16 03 00.4 1.2
TIA	20.9	270	eP	16 01 02.1	-1.3			PP		16 04 14.0	3.4
			S	16 04 54.5	4.1			S		16 08 18.0	0.6
			SME			13.0	1.04				

QZN	35.3 245	LZ	$M_s = 5.3$	16.0	4.66	SNY	32.7 356	+iP	16 52 51.0	0.4	PMZ	$m_b = 5.2$	16 58 05.0	3.9	15.0	0.94								
		eP	16 03 15.0	0.1	eS			16 08 45.0	-1.9	LZ							$M_s = 4.6$							
		eS	16 08 45.0	-1.9	LZ			$M_s = 5.2$	14.0	1.13														
		LN	$M_s = 5.2$	14.0	1.13			LZH	33.8 326	eP							16 53 00.0	-0.8						
		LE		16.0	1.77			PP	16 54 14.0	-0.2							LE	$M_s = 4.6$	14.0	0.51				
		KMI	36.8 260	+P	16 03 29.0			0.6	pP	16 03 35.5							0.0	LZ	$M_s = 4.7$	20.0	1.28			
		PMZ	$m_b = 5.9$	1.5	0.30			sP	16 03 38.0	-0.9							CN2	34.6 359	P	16 53 07.0	0.2			
		pP	16 03 35.5	0.0	LN			$M_s = 5.3$	13.0	1.10							BTO	34.6 338	eP	16 53 06.0	-1.3			
		sP	16 03 38.0	-0.9	LE				13.0	1.80							pP	16 53 21.0	-0.2	MDJ	35.5 4	eP	16 53 15.5	0.9
		S	16 09 14.0	3.7	LZ			$M_s = 5.3$	14.0	3.50							eS	16 58 31.0	-0.2	GTA	38.5 326	P	16 53 38.8	-0.9
WMQ	41.2 295	+P	16 04 06.3	1.5	MDJ	35.5 4	eP	16 53 15.5	0.9	GTA	38.5 326	P	16 53 38.8	-0.9										
		S	16 10 22.0	5.7			LSA	38.9 307	P			16 53 44.0	0.4											
		LZ	$M_s = 4.9$	16.0			1.39	WMQ	48.3 323			P	16 54 58.2	-0.7										
		LSA	43.6 274	P			16 04 26.6	2.4	S			17 01 53.8	2.1	KSH	54.2 313	eP	16 55 42.0	-1.9						
		pP	16 04 30.0	-1.2			NOV 5d 18h 00m $08.6 \pm 0.07s$, SD1.52 / 35 39.86 N \pm 1.88km, 143.39 E \pm 2.77km, h29 \pm 1.90km Near east coast of Honshu (228) m_b 5.0 / 3,																	
sP	16 04 39.0	4.5	MDJ	11.3 299	eP	18 02 54.9		3.9	MDJ	11.3 299	eP	18 02 54.9	3.9											
eS	16 10 55.0	2.6	LN	$M_s = 5.1$	16.0	1.10	BJI	20.8 279	eP	18 04 49.0	-1.7	BJI	20.8 279	eP	18 04 49.0	-1.7								
LN	$M_s = 5.1$	16.0	1.10	sP	16 05 32.0	-0.3	NJ2	21.3 256	+P	18 04 54.0	-1.2	NJ2	21.3 256	+P	18 04 54.0	-1.2								
KSH	50.9 293	-iP	16 05 24.0	2.2	S	16 12 40.5	5.5	WHN	25.4 258	-iP	18 05 36.5	1.1	WHN	25.4 258	-iP	18 05 36.5	1.1							
LN	$M_s = 5.3$	14.0	1.30	LN	$M_s = 5.3$	14.0	1.30	PMZ	$m_b = 4.9$	1.0	0.030	PMZ	$m_b = 4.9$	1.0	0.030									
NOV 5d 16h 46m $21.4 \pm 0.09s$, SD1.24 / 86 9.11 N \pm 1.23km, 126.49 E \pm 1.46km, h59 \pm 0.16km Mindanao (259) M_s 4.5 / 9, m_b 4.8 / 11,																								
QZH	17.4 335	eP	16 50 23.0	0.6	LZH	31.2 276	-P	18 06 29.0	0.7	GYA	33.3 258	P	18 06 46.0	-0.2	GTA	33.3 284	+P	18 06 47.6	1.1					
		sS	16 53 45.0	-4.5			PMZ	$m_b = 5.0$	1.5			0.038	PMZ	$m_b = 5.0$			1.5	0.038						
		LN	$M_s = 4.5$	15.0			1.24	NY2	21.3 256			+P	18 04 54.0	-1.2										
GZH	18.8 319	eP	16 50 38.6	0.4	NY2	21.3 256	+P	18 04 54.0	-1.2	WHN	25.4 258	-iP	18 05 36.5	1.1	MDJ	11.4 299	eP	19 09 45.0	4.5					
		QZN	18.9 303	eP			16 50 40.0	0.0	WHN			25.4 258	-iP	18 05 36.5			1.1	NJ2	21.4 256	eP	19 11 47.0	1.8		
eS	16 54 11.0	6.5	LN	$M_s = 4.7$	17.0	1.07	NY2	21.4 256	eP	19 11 47.0	1.8	WHN	25.5 258	-P	19 12 25.5	0.3								
LN	$M_s = 4.7$	17.0	1.07	LE		17.0	1.61	WHN	25.5 258	-P	19 12 25.5	0.3	GYA	33.4 258	P	19 13 35.4	-0.6							
SSE	22.4 348	P	16 51 17.0	0.5	SSE	22.4 348	P	16 51 17.0	0.5	MDJ	11.4 299	eP	19 09 45.0	4.5	NJ2	21.4 256	eP	19 11 47.0	1.8					
PMZ	$m_b = 4.7$	1.0	0.035	PMZ			$m_b = 4.7$	1.0	0.035			WHN	25.5 258	-P			19 12 25.5	0.3	WHN	25.5 258	-P	19 12 25.5	0.3	
pP	16 51 27.1	-2.7	NJ2	23.9 344	+P	16 51 31.7	0.9	GYA	33.4 258	P	19 13 35.4	-0.6	GTA	33.4 283	eP	19 13 36.2	0.1	WMQ	41.1 294	eP	19 14 41.5	0.8		
PP	16 51 38.0	-6.5																					PMZ	$m_b = 4.8$
sS	16 55 36.0	-0.2	S	16 55 45.0	6.2	WHN	24.1 334	P	16 51 33.2	0.0	NY2	21.4 256	eP	19 11 47.0	1.8	WHN	25.5 258	-P	19 12 25.5	0.3				
LN	$M_s = 4.4$	16.0	0.66	LN	$M_s = 4.4$			16.0	0.66	WHN			24.1 334	P	16 51 33.2			0.0	WHN	25.5 258	-P	19 12 25.5	0.3	
+P	16 51 31.7	0.9	GYA	25.5 315	P	16 51 50.4	4.0	GTA	33.4 283	eP	19 13 36.2	0.1	WMQ	41.1 294	eP	19 14 41.5	0.8	MDJ	11.4 299	eP	19 09 45.0	4.5		
PMZ	$m_b = 4.8$	0.8																					0.038	LN
S	16 55 45.0	6.2	LN	$M_s = 4.5$	14.0	0.77	WHN	25.6 258	eP	19 29 32.0	-0.3	WHN	25.6 258	eP	19 29 32.0	-0.3								
LZ	$M_s = 4.0$	20.0	0.43	LE		14.0	0.80	GYA	33.5 258	P	19 30 42.2	-0.9	GYA	33.5 258	P	19 30 42.2	-0.9							
P	16 51 33.2	0.0	KMI	27.6 308	-P	16 52 05.5	-0.7	GTA	33.5 284	eP	19 30 44.0	0.6	WMQ	41.2 294	P	19 31 49.5	1.4	GTA	33.5 284	eP	19 30 44.0	0.6		
pP	16 51 43.0	-3.7																					LN	$M_s = 4.9$
S	16 55 46.0	3.0	LZ	$M_s = 4.4$	22.0	1.10	LN	$M_s = 4.9$	14.0	1.30	LE		14.0	0.80	GYA	33.5 258	P	19 30 42.2	-0.9					
LN	$M_s = 4.5$	14.0	0.77	LZ	$M_s = 4.4$	22.0	1.10	LE		14.0	0.80	GTA	33.5 284	eP	19 30 44.0	0.6								
GYA	25.5 315	P	16 51 50.4	4.0	KMI	27.6 308	pP	16 52 14.5	-5.1	CD2	30.3 319	eP	16 52 28.8	-1.0	TIIY	31.2 338	eP	16 52 35.5	-2.0					
LN	$M_s = 4.9$	14.0	1.30	S			16 55 46.0	3.0	LN			$M_s = 4.4$	22.0	1.10			LN	$M_s = 4.4$	22.0	1.10	LN	$M_s = 4.5$	15.0	0.46
LE		14.0	0.80	LZ	$M_s = 4.0$	20.0	0.43	LZ	$M_s = 4.4$	22.0	1.10	LZ	$M_s = 4.6$	28.0	2.10	LZ	$M_s = 4.4$	20.0	0.88					
LZ	$M_s = 4.4$	22.0	1.10	P	16 51 33.2	0.0	KMI	27.6 308	-P	16 52 05.5	-0.7	CD2	30.3 319	eP	16 52 28.8	-1.0	TIIY	31.2 338	eP	16 52 35.5	-2.0			
LN	$M_s = 4.4$	22.0	1.10	pP	16 51 43.0	-3.7			LN	$M_s = 4.4$	20.0			0.88	LN	$M_s = 4.6$			28.0	2.10	LN	$M_s = 4.5$	15.0	0.46
KMI	27.6 308	-P	16 52 05.5	-0.7	S	16 55 46.0	3.0	CD2	30.3 319	eP	16 52 28.8	-1.0	TIIY	31.2 338	eP	16 52 35.5	-2.0	BJI	32.1 345	eP	16 52 45.0	-0.9		
pP	16 52 14.5	-5.1	CD2	30.3 319	eP	16 52 28.8	-1.0			TIIY	31.2 338	eP			16 52 35.5	-2.0	BJI			32.1 345	eP	16 52 45.0	-0.9	
LZ	$M_s = 4.6$	28.0			2.10	eS	16 57 25.0	0.9	TIIY			31.2 338	eP	16 52 35.5	-2.0	BJI		32.1 345	eP		16 52 45.0	-0.9		
eP	16 52 28.8	-1.0	TIIY	31.2 338	eP	16 52 35.5	-2.0	BJI		32.1 345	eP		16 52 45.0	-0.9										
eS	16 57 25.0	0.9			BJI	32.1 345	eP		16 52 45.0		-0.9	PMZ	$m_b = 4.8$	1.2	0.020	eS	16 57 54.0	1.3						
LZ	$M_s = 4.5$	15.0	0.46	LZ			$M_s = 4.4$	20.0	0.88	ScP	16 59 13.0								3.2					
LZ	$M_s = 4.4$	20.0	0.88	PMZ	$m_b = 4.8$	1.2	0.020	NOV 5d 19h 06m $55.9 \pm 0.11s$, SD1.85 / 26 39.92 N \pm 2.09km, 143.58 E \pm 2.56km, h21 \pm 0.96km Off east coast of Honshu (229)																
PMZ	$m_b = 4.8$	1.2	0.020	eS	16 57 54.0	1.3	NOV 5d 19h 06m $55.9 \pm 0.11s$, SD1.85 / 26 39.92 N \pm 2.09km, 143.58 E \pm 2.56km, h21 \pm 0.96km Off east coast of Honshu (229)																	
eS	16 57 54.0	1.3	NOV 5d 19h 06m $55.9 \pm 0.11s$, SD1.85 / 26 39.92 N \pm 2.09km, 143.58 E \pm 2.56km, h21 \pm 0.96km Off east coast of Honshu (229)																					
ScP	16 59 13.0	3.2		NOV 5d 19h 06m $55.9 \pm 0.11s$, SD1.85 / 26 39.92 N \pm 2.09km, 143.58 E \pm 2.56km, h21 \pm 0.96km Off east coast of Honshu (229)																				
NOV 5d 19h 06m $55.9 \pm 0.11s$, SD1.85 / 26 39.92 N \pm 2.09km, 143.58 E \pm 2.56km, h21 \pm 0.96km Off east coast of Honshu (229)																								
MDJ	11.3 299	eP	18 02 54.9	3.9	NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																			
BJI	20.8 279	eP	18 04 49.0	-1.7		NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																		
NJ2	21.3 256	+P	18 04 54.0	-1.2	NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																			
WHN	25.4 258	-iP	18 05 36.5	1.1		NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																		
PMZ	$m_b = 4.9$	1.0	0.030	NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																				
pP	18 05 40.5	-3.2	NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																					
-P	18 06 29.0	0.7		NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																				
PMZ	$m_b = 5.0$	1.5	0.038		NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																			
P	18 06 46.0	-0.2	NOV 5d 19h 24m $01.4 \pm 0.07s$, SD1.60 / 26 39.86 N \pm 1.91km, 143.62 E \pm 2.83km, h12 \pm 1.96km Off east coast of Honshu (229)																					
+P	18 06 47.6	1.1		NOV 5d																				

SME		0.8	0.010
NOV 5d 22h 29m 53.0 ± 0.30s, SD2.56 / 39 49.36 S ± 6.54km, 115.69 W ± 5.61km, h20 ± 1.53km Easter Island Cordillera (684) M _S 5.9 / 2,			
KMI	141.6 245	ePKP	22 49 26.0 1.7
		PP	22 52 33.0 2.6
		LZ	M _S =5.8 30.0 2.60
BJI	142.6 276	ePKP	22 49 27.0 1.2
		eSS	23 11 06.0 -2.9
		LZ	M _S =5.7 24.0 1.59
TIY	143.8 270	ePKP	22 49 25.7 -2.2
XAN	143.9 262	PKP	22 49 25.0 -3.1
CD2	145.2 253	ePKP	22 49 30.8 0.5
		PP	22 52 51.0 -0.7
HHC	146.1 274	PKP	22 49 34.0 2.1
		PP	22 52 55.8 -1.3
		LZ	M _S =5.7 24.0 1.51
BTO	146.9 272	ePKP	22 49 33.5 0.1
		sPKP	22 49 42.5 1.2
		PP	22 53 00.0 -2.4
LZH	148.4 260	ePKP	22 49 40.0 4.1
		PKP2	22 49 47.0 3.6
		PKS	22 53 05.0 -3.0
		PP	22 53 13.3 2.2
		LN	M _S =5.8 20.0 1.18
		LZ	M _S =5.7 26.0 1.37
LSA	151.7 236	ePKP	22 49 44.0 2.7
		PP	22 53 32.0 2.8
GTA	153.0 262	ePKP	22 49 44.0 1.3
		LZ	M _S =5.5 28.0 1.04
WMQ	163.0 260	ePKP	22 49 56.5 1.7
		LZ	M _S =6.0 24.0 2.32
KSH	167.1 224	ePKP	22 50 02.0 3.5

Crete		(370)
WMQ	48.7 59	P 04 50 05.5 0.5
GTA	58.7 61	-P 04 51 18.0 -0.4
CD2	65.1 69	eP 04 52 01.6 0.1
HHC	66.3 56	+P 04 52 10.0 0.6
XAN	67.5 63	+P 04 52 17.2 0.2
GYA	69.5 72	P 04 52 29.0 0.0
BJI	69.8 55	eP 04 52 30.5 -0.5
SNY	73.7 50	-P 04 52 54.8 0.4
CN2	73.8 48	P 04 52 55.0 0.0

Near east coast of Honshu		(228)
NOV 6d 06h 03m 57.5 ± 0.07s, SD1.68 / 63 39.22 N ± 1.93km, 141.83 E ± 1.66km, h84 ± 1.77km M _S 4.5 / 13, m _b 4.7 / 10,		
MDJ	10.6 305	eP 06 06 30.0 1.8
		LZ M _S =4.3 14.0 2.10
CN2	13.1 296	eP 06 07 05.0 3.3
		pP 06 07 13.4 -0.9
		LN M _S =4.2 13.0 0.60
		LE 13.0 0.80
		LZ M _S =4.1 13.0 0.80
SNY	14.1 286	eP 06 07 19.2 4.2
		LZ M _S =4.3 12.0 1.09
SSE	18.7 251	eP 06 08 12.2 0.4
		pP 06 08 26.5 -0.2
		sS 06 12 05.0 5.8
		LN M _S =4.5 11.0 0.69
		LE 10.0 0.45
		LZ M _S =4.1 18.0 0.73

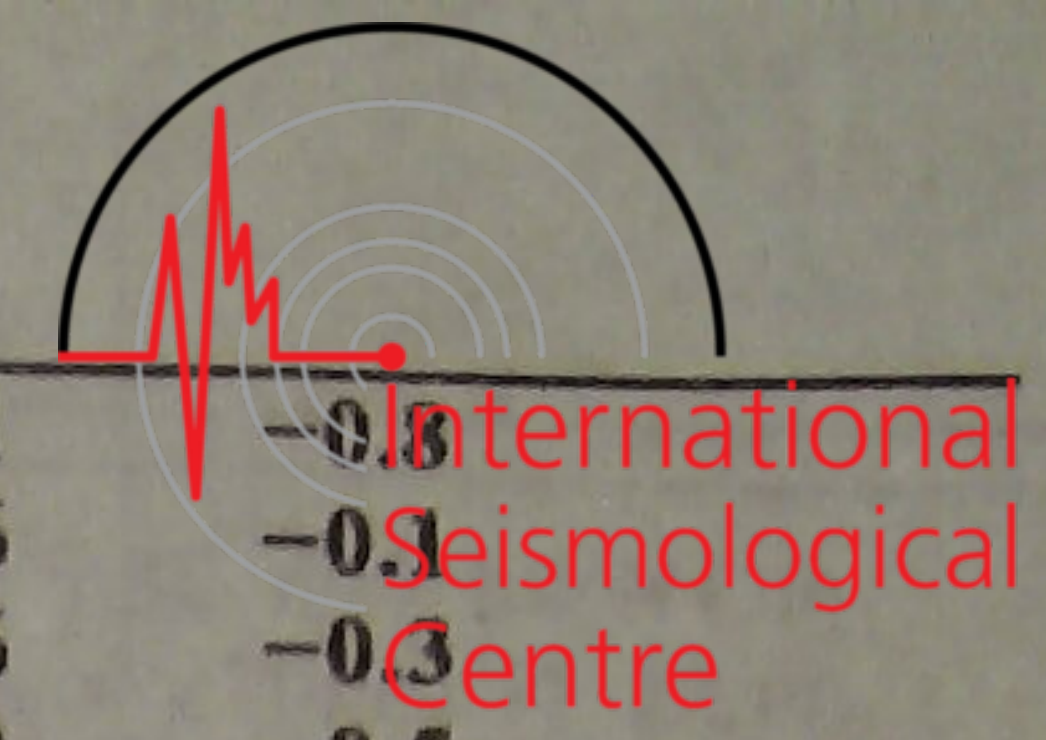
TIA	19.8 269	eP	06 08 22.6 -0.9
BJI	19.8 281	eP	06 08 22.0 -1.5
		LN	M _S =4.1 13.0 0.40
		LZ	M _S =4.1 14.0 0.59
NJ2	20.0 256	eP	06 08 27.0 1.3
		LE	M _S =4.4 12.0 0.73
		LZ	M _S =4.3 12.0 0.67
TIY	23.0 276	eP	06 08 59.4 3.1
		sS	06 13 30.0 1.9
		LE	M _S =4.5 13.0 0.66
		LZ	M _S =4.5 16.0 1.19
WHN	24.1 257	-P	06 09 08.0 1.7
		PMZ	m _b =5.4 1.6 0.27
		sS	06 13 48.0 1.0
		LE	M _S =4.6 12.0 0.73
QZH	24.2 241	eP	06 09 08.0 0.4
		LN	M _S =4.6 16.0 0.98
		LZ	M _S =4.4 15.0 0.83
BTO	24.4 283	eP	06 09 09.0 -0.4
		eS	06 13 26.0 5.6
		LN	M _S =4.7 14.0 0.70
		LE	14.0 0.70
XAN	26.8 269	P	06 09 32.5 0.3
LZH	30.1 276	eP	06 10 00.0 -1.8
		PMZ	m _b =4.6 1.5 0.019
		LZ	M _S =4.5 14.0 0.70
GYA	32.0 257	-P	06 10 17.4 -0.8
CD2	32.1 267	eP	06 10 18.6 -0.3
		eS	06 15 27.5 3.5
GTA	32.3 284	+P	06 10 21.2 0.2
QZN	34.2 243	eP	06 10 36.0 -1.1
		eS	06 16 03.0 6.4
		LE	M _S =4.7 14.0 0.70
KMI	35.7 259	-P	06 10 50.0 -0.1
		PMZ	m _b =5.4 1.5 0.10
WMQ	40.2 295	P	06 11 26.7 -0.9

Taiwan		(244)
NOV 6d 08h 09m 16.5 ± 0.08s, SD2.25 / 14 24.87 N ± 0.96km, 122.12 E ± 1.23km, h7 ± 0.79km M _S 3.5 / 2, M _L 3.8 / 8,		
QZH	3.2 272	ePn 08 10 08.0 0.4
		Sn 08 10 43.5 -4.5
		SMN M _L =3.8 0.6 0.38
		SME 0.6 0.23
		LN M _S =3.4 16.0 1.96
SSE	6.3 353	P 08 10 51.5 -0.2
		SMN M _L =3.6 0.9 0.026
		SME 1.0 0.057
		LE M _S =3.5 12.0 0.58
CD2	17.3 294	eP 08 13 24.9 4.4

Honshu		(227)
NOV 6d 08h 56m 18.1 ± 0.07s, SD1.32 / 108 40.14 N ± 1.55km, 142.33 E ± 1.22km, h48 ± 0.71km M _S 5.0 / 35, m _B 5.7 / 4, m _b 5.3 / 24,		
MDJ	10.4 300	+P 08 58 50.0 2.0
		PMZ m _b =5.2 1.0 0.050
		S 09 00 50.0 6.6
		LZ M _S =4.9 18.0 11.0
CN2	13.1 292	+P 08 59 23.5 -0.3
		PMZ m _b =5.3 0.8 0.040
		PMZ m _B =5.8 5.0 0.90
		pP 08 59 32.0 -0.3
		eS 09 01 49.0 1.0
		LN M _S =4.7 15.0 2.00
		LE 15.0 2.60
		LZ M _S =4.6 18.0 4.20

WHN	62.1 313	SS	21 14	31.5	1.2	22.5 9.80	CD2	70.2 309	LZ		$M_s = 6.0$	24.0	11.8		
		LN		$M_s = 6.1$							eP	21 03	30.4	-1.7	
		eP	21 02	41.0	0.3						S	21 12	42.0	4.4	
		eS	21 11	03.0	1.9						LN		$M_s = 6.2$	14.0 6.07	
		LN		$M_s = 6.2$	16.0				5.45		LZ		$M_s = 5.8$	27.0 7.96	
DL2	62.7 325	LE			20.0	7.76	BTO	70.7 320	P	21 03	35.0	-0.4			
		LZ		$M_s = 5.8$	24.0	8.19				S	21 12	44.0	0.2		
		eP	21 02	44.0	-0.6					SKS	21 13	26.0	-2.0		
		eS	21 11	10.0	1.7					SS	21 17	19.0	0.6		
		LN		$M_s = 6.2$	15.0	7.33				LN		$M_s = 6.2$	15.0 5.00		
MDJ	63.0 334	LE			15.0	4.79	LZH	72.5 313	LE			15.0	3.60		
		LZ		$M_s = 5.7$	24.0	6.32				eP	21 03	47.5	1.3		
		eP	21 02	45.0	-1.7					PMZ		$m_b = 5.1$	1.5 0.040		
		S	21 11	15.0	4.1					PMZ		$m_b = 5.7$	4.0 0.40		
		LZ		$M_s = 5.9$	25.0	11.4				sP	21 04	05.0	2.1		
TIA	63.6 320	P	21 02	48.3	-2.3		GTA	76.9 315	eS	21 13	07.0	0.7			
		eS	21 11	17.8	-2.1					SS	21 17	40.0	-6.1		
		LN		$M_s = 6.2$	20.0	8.98				LN		$M_s = 6.2$	15.0 2.61		
		LE			16.0	2.43				LE			16.0 6.40		
		LZ		$M_s = 5.8$	22.0	6.94				LZ		$M_s = 6.2$	16.0 10.2		
SNY	63.7 328	+P	21 02	51.0	-0.2		LSA	79.8 303	eP	21 04	29.5	2.0			
		PMZ		$m_b = 5.8$	11.0	1.24				S	21 14	30.0	6.4		
		S	21 11	22.0	2.2					LN		$M_s = 6.3$	18.0 8.40		
		sS	21 11	44.0	2.7					WMQ	86.9 316	eP	21 05	04.0	0.3
		LN		$M_s = 6.1$	17.0	5.11				SKS	21 15	24.0	1.1		
CN2	64.3 331	LE			16.5	5.37	KSH	94.4 309	LZ		$M_s = 5.7$	22.0	3.39		
		LZ		$M_s = 6.0$	25.0	14.5				eP	21 05	36.0	-2.6		
		eP	21 02	54.0	-0.7					pP	21 05	53.0	2.3		
		PMZ		$m_b = 5.5$	1.5	0.10				SKS	21 16	05.0	-1.9		
		PMZ		$m_b = 5.9$	6.0	1.00				eS	21 16	39.0	-5.6		
GYA	65.9 306	sP	21 03	12.0	0.4		NOV 6d 21h 00m 34.6 ± 0.10s, SD2.44 / 30 2.80 S ± 6.03km, 80.41 W ± 8.96km, h5 ± km Peru-Ecuador border region (110)	LE		$M_s = 6.2$	16.0	6.16			
		S	21 11	26.0	-0.4				LZ		$M_s = 5.9$	16.0 4.84			
		SS	21 15	38.0	0.2				eP	21 19	59.0	-2.6			
		LN		$M_s = 6.1$	13.0	3.90				GTA	143.6 360	ePKP	21 20 09.2	-2.6	
		LE			13.0	3.20				SSE	145.2 326	ePKP	21 20 14.0	-0.6	
BJI	66.6 323	LZ		$M_s = 5.9$	18.0	8.10	NOV 6d 22h 04m 58.7 ± 0.08s, SD1.61 / 50 40.33 N ± 1.94km, 143.03 E ± 2.16km, h31 ± 1.02km Near east coast of Honshu (228) $M_s 4.3 / 1, m_b 4.2 / 3,$	NJ2	145.7 330	ePKP	21 20 16.0	0.6			
		P	21 03	09.0	3.6				LZH	146.6 354	ePKP	21 20 18.0	0.8		
		S	21 11	50.0	3.7				XAN	147.7 345	-PKP	21 20 22.5	3.7		
		LN		$M_s = 6.2$	18.0	7.50			CD2	151.8 352	ePKP	21 20 30.6	5.4		
		LE			18.0	2.30									
TIY	67.5 319	LZ		$M_s = 5.5$	22.0	3.10	MDJ	10.8 298	eP	22 07	36.0	1.5			
		eP	21 03	09.0	-0.9					CN2	13.5 291	eP	22 08	12.4	1.5
		PMZ		$m_b = 5.5$	10.0	0.64				SNY	14.7 282	eP	22 08	29.2	2.1
		eS	21 11	54.0	-2.4					SSE	19.9 249	eP	22 09	31.4	0.2
		LN		$M_s = 6.2$	19.0	8.47				LE		$M_s = 4.3$	11.0 0.53		
XAN	67.9 314	LZ		$M_s = 5.9$	24.0	8.60	BJI	20.5 278	eP	22 09	35.0	-1.9			
		eP	21 03	16.2	0.5					TIA	20.7 267	eP	22 09	36.6	-2.8
		S	21 12	03.0	-3.1					NJ2	21.1 255	+P	22 09	42.0	-1.6
		sS	21 12	33.0	5.2					pP			22 09	48.8	-3.2
		LN		$M_s = 6.2$	16.0	7.32				HHC	23.8 282	eP	22 10	09.2	-1.2
KMI	68.5 303	LZ		$M_s = 6.1$	20.0	12.6	WHN	25.2 256	eP	22 10	23.7	0.0			
		+P	21 03	18.0	0.1					sP	22 10	34.0	-2.2		
		S	21 12	15.0	4.6					XAN	27.8 268	P	22 10	47.0	-0.3
		LN		$M_s = 6.2$	17.0	6.80				GTA	32.9 283	-P	22 11	34.0	0.8
		LE			17.0	4.60				GYA	33.1 257	+P	22 11	35.0	0.3
HHC	69.9 321	+P	21 03	22.5	0.6		WMQ	40.6 294	P	22 12	38.4	0.9			
		PMZ		$m_b = 5.5$	1.5	0.10									
		sP	21 03	34.0	-4.6										
		PcP	21 03	49.0	3.3										
		S	21 12	18.0	0.2										
HHC	69.9 321	SS	21 16	44.0	0.1										
		LE		$M_s = 6.0$	18.0	4.60									
		LZ		$M_s = 6.1$	25.0	14.9									
		P	21 03	30.4	0.0										
		sP	21 03	46.9	-0.3										
HHC	69.9 321	S	21 12	36.0	1.7										
		LN		$M_s = 6.2$	16.0	5.52									
		LE			19.0	6.28									

NOV 7d 00h 30m 28.6 ± 0.07s, SD1.59 / 49 39.85 N ± 2.07km, 143.33 E ± 1.57km, h35 ± 1.89km Near east coast of Honshu (228) m _b 4.7 / 4,						New Britain region (192) M _s 5.0 / 5, m _b 5.0 / 5,														
MDJ	11.2	300	eP	00 33 12.0	1.9	SSE	46.1	322	eP	09 11 31.5	1.0	PMZ			m _b = 4.8	1.0	0.012			
CN2	13.9	292	eP	00 33 49.0	3.4							pP	09 11 43.5	2.3						
SSE	20.0	251	eP	00 35 01.5	0.2							S	09 18 16.0	4.5						
BJI	20.8	279	eP	00 35 07.0	-2.6							SS	09 21 32.0	2.5						
			LZ	M _s = 3.9	14.0	0.35	GZH	46.8	307	eP	09 11 39.9	3.6	LE		M _s = 4.7	14.0	0.42			
NJ2	21.2	256	eP	00 35 12.5	-1.6	QZN	47.9	300	eP	09 11 48.6	4.1	LZ		M _s = 4.6	20.0	0.65				
HHC	24.2	283	eP	00 35 42.4	-0.7							LE		M _s = 5.0	14.0	0.70				
WHN	25.3	258	-P	00 35 55.5	1.2	NJ2	48.2	321	-P	09 11 48.5	1.5	S	09 18 47.0	5.6						
			PMZ	m _b = 5.2	1.0	0.060	WHN	50.2	316	eP	09 12 06.0	3.5								
			sP	00 36 10.0	2.3	DL2	51.5	329	eP	09 12 08.0	-4.4	S	09 19 26.0	-1.6						
LZH	31.2	276	P	00 36 46.5	-0.7							LZ		M _s = 4.6	24.0	0.66				
CD2	33.2	267	eP	00 37 05.0	-0.2	TIA	52.1	324	eP	09 12 13.7	-2.8									
GTA	33.3	284	-P	00 37 06.2	0.7	MDJ	52.8	340	eP	09 12 21.0	-1.0									
			LZ	M _s = 4.4	16.0	0.58	SNY	52.9	333	eP	09 12 23.4	0.9								
WMQ	41.0	294	+iP	00 38 11.5	1.2							S	09 19 48.0	2.2						
NOV 7d 03h 27m 22.2 ± 0.07s, SD1.51 / 65 39.29 N ± 1.99km, 143.46 E ± 2.23km, h28 ± 1.14km Near east coast of Honshu (228) M _s 4.4 / 7, m _b 4.6 / 8,												LZ		M _s = 4.8	30.0	1.46				
MDJ	11.6	302	eP	03 30 10.0	0.7	CN2	53.7	336	eP	09 12 28.0	-0.4									
			PP	03 30 20.5	1.8							sP	09 12 48.0	4.2						
			eS	03 32 16.0	-3.2							eS	09 19 58.0	0.1						
			LZ	M _s = 4.0	21.0	1.33	BJI	55.2	326	eP	09 12 40.0	0.0	LZ		M _s = 4.8	16.0	0.70			
CN2	14.2	294	eP	03 30 43.4	-0.6							eS	09 20 22.0	2.9						
			pP	03 30 49.6	-1.0	TIY	55.9	322	eP	09 12 46.4	1.8	LZ		M _s = 4.8	22.0	0.92				
SNY	15.3	286	eP	03 30 57.8	-0.6							eS	09 20 32.5	4.7						
			LZ	M _s = 4.0	13.0	0.59						LE		M _s = 5.4	23.0	2.38				
DL2	17.0	276	eP	03 31 23.0	3.8	XAN	56.0	316	eP	09 12 44.5	-0.8	LZ		M _s = 5.0	22.0	1.56				
SSE	19.9	253	eP	03 31 56.2	1.4	KMI	56.4	304	+P	09 12 51.5	3.1									
			sP	03 32 04.5	-2.0	CD2	58.1	311	eP	09 13 02.2	1.8									
			LN	M _s = 4.3	14.0	0.67	HHC	58.4	324	eP	09 13 03.0	0.5								
			LZ	M _s = 4.2	16.0	0.80	BTO	59.1	323	eP	09 13 08.0	0.2								
BJI	21.0	281	-P	03 32 04.5	-1.6							sP	09 13 28.0	5.0						
			PMZ	m _b = 4.6	1.5	0.042						eS	09 21 12.0	1.2						
			LZ	M _s = 3.9	16.0	0.35						LN		M _s = 4.9	14.0	0.30				
TIA	21.0	270	eP	03 32 04.1	-2.3							LE			14.0	0.30				
NJ2	21.2	258	eP	03 32 06.5	-1.8	GTA	65.0	317	eP	09 13 46.2	-0.8									
TIY	24.3	276	eP	03 32 41.5	2.9							LZ		M _s = 4.8	20.0	0.60				
			eS	03 36 57.0	3.8	WMQ	75.1	317	P	09 14 50.0	1.6									
			LN	M _s = 4.4	12.0	0.44	KSH	82.3	311	eP	09 15 30.0	1.9								
			LZ	M _s = 4.3	16.0	0.72	NOV 7d 10h 52m 50.1 ± 0.09s, SD1.42 / 32 52.48 N ± 3.11km, 166.88 W ± 1.67km, h38 ± 0.52km Fox Islands (9)													
HHC	24.4	284	eP	03 32 40.0	0.3	CN2	44.4	287	eP	11 01 00.0	0.3									
WHN	25.3	259	-P	03 32 50.2	1.6	SNY	46.7	286	-P	11 01 18.0	0.2									
			PMZ	m _b = 5.2	1.0	0.070	BJI	52.2	289	eP	11 01 59.0	-0.8								
			sP	03 32 59.0	-1.4							HHC	54.3	292	+P	11 02 15.0	-0.5			
BTO	25.6	284	eP	03 32 52.0	0.8							BTO	55.3	293	eP	11 02 23.4	0.3			
			pP	03 32 58.0	-1.1							TIY	55.9	289	eP	11 02 27.6	0.4			
			eS	03 37 17.0	1.7							XAN	60.5	288	-P	11 02 58.6	-0.9			
			LN	M _s = 4.5	12.0	0.30	GTA	61.8	299	eP	11 03 06.2	-1.8								
			LE		15.0	0.60	LZH	62.0	293	P	11 03 08.5	-0.7								
XAN	28.1	270	-P	03 33 12.0	-2.1	CD2	65.8	290	eP	11 03 34.8	0.6									
LZH	31.3	277	eP	03 33 44.0	0.8	GYA	67.4	284	P	11 03 45.0	0.6									
			LZ	M _s = 4.4	12.0	0.50	NOV 7d 13h 50m 20.2 ± 0.08s, SD1.30 / 35 37.23 N ± 1.06km, 71.71 E ± 0.83km, h127 ± 1.25km Afghanistan-USSR border region (717) m _b 5.0 / 2,													
GYA	33.2	259	P	03 34 00.0	0.5	KSH	4.0	54	P	13 51 24.5	2.9									
CD2	33.3	268	eP	03 34 00.8	0.4															
GTA	33.5	284	P	03 34 03.0	1.0															
			LZ	M _s = 4.2	16.0	0.35														
KMI	36.9	260	eP	03 34 31.5	0.3															
WMQ	41.3	295	+iP	03 35 09.0	1.5															
NOV 7d 09h 03m 08.0 ± 0.27s, SD1.96 / 72 4.27 S ± 2.36km, 152.41 E ± 1.41km, h40 ± 2.60km																				



		S	13 52 12.6	4.7				XAN	28.3 268	eP	15 19 42.1	-0.8		
		LE			4.0	2.50		GTA	33.5 283	+iP	15 20 28.6	-0.3		
WMQ	13.8 57	eP	13 53 31.0	-1.0				GYA	33.6 257	P	15 20 29.6	-0.3		
		S	13 56 01.3	-0.9				WMQ	41.1 294	P	15 21 33.2	0.5		
		SMN			1.5	0.020		NOV 7d 15h 24m 04.0 ± 0.09s, SD2.17 / 16						
		SME			1.5	0.030		39.96 N ± 0.89km, 113.94 E ± 0.79km, h4 ± 0.14km						
LSA	17.9 109	+P	13 54 22.6	0.1				North-Eastern China (658)						
GTA	22.1 76	+iP	13 55 08.4	1.9				M _L 3.3 / 16,						
XAN	30.3 85	P	13 56 21.2	-0.8			BJI	1.7 87	ePg	15 24 33.0	-1.4			
GYA	31.4 100	-P	13 56 32.0	0.0					eSg	15 24 57.0	-0.9			
WHN	35.8 88	+P	13 57 09.5	0.2					SMN	M _L = 3.0	0.5	0.16		
NJ2	38.8 83	-P	13 57 35.4	0.8					SME		0.5	0.18		
NOV 7d 14h 48m 29.6 ± 0.08s, SD2.18 / 9														
39.93 N ± 0.73km, 113.85 E ± 0.82km, h3 ± 0.09km														
North-Eastern China (658)														
M _L 3.2 / 9,														
BJI	1.8 86	ePg	14 48 59.5	-1.7			HHC	2.0 297	Pg	15 24 39.6	-0.2			
		eSg	14 49 23.5	-2.1					Sg	15 25 08.0	0.8			
		SMN	M _L = 3.0	0.5	0.14				SMN	M _L = 3.5	0.8	0.27		
		SME		0.5	0.13				SME		0.8	0.45		
HHC	2.0 298	Pg	14 49 05.6	1.0			TIY	2.5 208	ePg	15 24 46.4	-2.4			
		Sg	14 49 33.8	2.5					Sn	15 25 16.9	-2.4			
		SMN	M _L = 3.3	0.8	0.21				Sg	15 25 19.6	-3.7			
		SME		0.8	0.35				SMN	M _L = 3.9	1.0	0.61		
TIY	2.5 207	ePn	14 49 10.3	-0.9			BTO	3.1 283	Pg	15 24 57.2	-1.1			
		iPg	14 49 13.1	-0.2					Sg	15 25 35.9	-4.1			
		Sn	14 49 43.6	-0.1					SMN	M _L = 2.9	0.4	0.050		
		Sg	14 49 45.5	-1.7					SME		0.4	0.040		
		SMN	M _L = 3.8	1.0	0.46		TIA	4.5 145	Pg	15 25 27.1	3.4			
		SME		1.0	0.53				Sg	15 26 19.0	-6.2			
TIA	4.5 144	Pg	14 49 53.0	3.4					SMN	M _L = 3.0	0.9	0.027		
		Sg	14 50 45.3	-6.0					SME		0.7	0.023		
		SMN	M _L = 3.0	0.9	0.025		XAN	7.1 216	Pg	15 26 13.0	2.8			
		SME		0.9	0.025				Sg	15 27 49.0	1.3			
NOV 7d 15h 00m 34.4 ± 0.07s, SD1.67 / 54														
39.93 N ± 2.04km, 143.53 E ± 2.19km, h29 ± 1.08km														
Off east coast of Honshu (229)														
M _S 4.3 / 4, m _b 4.4 / 3,														
MDJ	11.3 299	eP	15 03 19.0	1.4			MDJ	9.8 290	eP	20 55 25.0	0.3			
		eS	15 05 30.0	5.6					CN2	12.7 284	eP	20 56 02.6	-0.5	
		LZ	M _S = 3.8	21.0	0.88				BJI	20.0 273	eP	20 57 31.0	-1.8	
CN2	14.0 292	eP	15 03 55.0	1.6					PMZ	m _b = 4.3	1.0	0.018		
SSE	20.2 251	eP	15 05 08.5	-1.1					TIA	20.5 262	eP	20 57 36.6	-1.8	
		LE	M _S = 4.3	10.0	0.45				NJ2	21.3 250	+P	20 57 45.0	-1.2	
BJI	20.9 279	eP	15 05 16.0	-1.5					TIY	23.4 270	eP	20 58 07.1	-0.4	
		LZ	M _S = 3.7	18.0	0.29				WHN	25.3 252	P	20 58 26.0	0.6	
NJ2	21.4 256	-P	15 05 21.5	-0.8					sP	20 58 53.4	0.6			
TIY	24.3 275	eP	15 05 46.5	-4.1					XAN	27.5 264	P	20 58 45.0	-0.8	
BTO	25.5 282	eP	15 06 04.4	2.0					GTA	32.2 280	eP	20 59 28.0	0.0	
WHN	25.5 258	P	15 06 03.2	0.8					GYA	33.2 254	P	20 59 35.8	-0.1	
		pP	15 06 08.5	-2.1					WMQ	39.6 292	P	21 00 31.0	0.9	
XAN	28.1 269	P	15 06 26.0	-0.6				NOV 7d 23h 59m 00.4 ± 0.10s, SD1.80 / 26						
GTA	33.4 283	+iP	15 07 14.0	0.8				2.81 S ± 1.23km, 139.34 E ± 2.04km, h35 ± 0.16km						
GYA	33.4 258	P	15 07 13.0	-0.2				West Irian (201)						
WMQ	41.1 294	-iP	15 08 19.5	1.7				m _b 4.9 / 2,						
NOV 7d 15h 13m 50.7 ± 0.06s, SD1.41 / 38														
40.24 N ± 1.68km, 143.69 E ± 1.63km, h39 ± 0.77km														
Off east coast of Honshu (229)														
M _S 4.4 / 1,														
MDJ	11.3 297	eP	15 16 32.0	-0.8			WHN	40.8 326	eP	24 06 40.0	-1.0			
CN2	14.0 291	eP	15 17 08.5	-0.5					pP	24 06 50.8	0.2			
SNY	15.3 283	eP	15 17 25.0	-0.2					GYA	42.9 315	P	24 07 01.4	3.1	
BJI	21.0 278	eP	15 18 31.0	-2.5					BJI	47.6 336	P	24 07 31.0	-4.6	
NJ2	21.6 256	+P	15 18 37.8	-1.7					MDJ	48.0 351	eP	24 07 39.5	0.9	
WHN	25.7 257	eP	15 19 20.0	0.7					CN2	48.0 346	eP	24 07 37.5	-1.4	
NOV 8d 00h 47m 23.5 ± 0.08s, SD1.96 / 12														
39.81 N ± 0.68km, 114.02 E ± 0.62km, h12 ± 0.35km														
North-Eastern China (658)														



$M_L 3.2 / 11,$

BJI	1.7	81	Pn	00 47 53.0	-0.1		
			Pg	00 47 54.0	0.9		
			Sn	00 48 16.0	-0.3		
			Sg	00 48 18.0	1.9		
			SMN	$M_L = 3.0$		0.5	0.20
			SME			0.5	0.14
TIY	2.4	211	Pn	00 48 03.7	0.1		
			Pg	00 48 06.6	0.1		
			Sn	00 48 35.5	0.4		
			Sg	00 48 39.3	-0.5		
			SME	$M_L = 3.8$		1.0	0.61
TIA	4.4	145	ePn	00 48 31.1	1.2		
			Pg	00 48 47.1	6.8		
			Sg	00 49 39.0	-0.8		
			SMN	$M_L = 3.1$		0.7	0.030
			SME			0.6	0.034

NOV 8d 15h 20m $51.5 \pm 0.13s$, SD1.04 / 32
 $6.29 S \pm 0.57km$, $108.04 E \pm 0.48km$, $h305 \pm 1.64km$
 Java (277)

GYA	32.6	358	P	15 26 58.0	0.8		
WHN	37.1	9	eP	15 27 37.0	1.6		
CD2	37.2	354	eP	15 27 36.2	0.0		
LSA	39.3	336	-P	15 27 54.4	0.6		
XAN	40.1	1	-P	15 28 00.6	0.5		
TIY	44.0	5	+P	15 28 31.6	0.4		
GTA	46.1	351	P	15 28 48.6	0.5		
BJI	46.7	9	eP	15 28 52.0	-0.6		
CN2	52.3	16	eP	15 29 34.0	-0.6		

NOV 8d 16h 49m $10.0 \pm 0.10s$, SD1.28 / 75
 $4.55 S \pm 1.19km$, $139.03 E \pm 1.55km$, $h32 \pm 0.22km$
 Near south coast of West Irian (205)
 $m_b 5.1 / 9,$

QZH	35.4	327	eP	16 56 07.4	2.0		
SSE	39.3	335	eP	16 56 38.0	-0.2		
NJ2	41.1	334	-P	16 56 53.5	0.1		
WHN	42.1	328	eP	16 57 01.5	0.1		
			pP	16 57 10.0	-0.6		
GYA	44.0	316	P	16 57 17.0	0.6		
TIA	45.4	335	eP	16 57 27.9	-0.3		
KMI	46.0	312	+P	16 57 32.5	-0.1		
XAN	47.8	326	+P	16 57 46.0	-0.6		
SNY	48.3	345	-iP	16 57 50.6	0.2		
CD2	48.8	319	eP	16 57 54.4	0.1		
TIY	48.8	332	eP	16 57 54.7	0.2		
BJI	49.1	337	eP	16 57 56.5	-0.3		
			PMZ	$m_b = 4.9$		1.5	0.026
			PcP	16 59 21.0	1.2		
MDJ	49.7	351	eP	16 58 01.3	0.0		
			sP	16 58 13.3	-1.0		
HHC	51.7	334	eP	16 58 17.0	0.1		
LZH	52.1	324	eP	16 58 20.5	0.3		
			PMZ	$m_b = 5.1$		1.5	0.038
BTO	52.2	332	P	16 58 20.0	-0.6		
GTA	56.7	324	+P	16 58 53.4	-0.4		
LSA	57.1	310	P	16 58 57.1	0.2		
WMQ	66.6	322	P	17 00 00.4	0.2		
KSH	72.6	314	eP	17 00 37.0	0.0		

NOV 8d 16h 55m $23.2 \pm 0.11s$, SD1.36 / 68
 $23.78 N \pm 1.56km$, $142.03 E \pm 1.53km$, $h148 \pm 0.38km$
 Volcano Islands region (213)
 $m_b 4.8 / 9,$

SSE	19.9	296	+P	16 59 45.4	0.4		
			PMZ	$m_b = 5.2$		1.0	0.12
			eS	17 03 20.0	4.4		

NJ2	22.0	297	-P	17 00 06.4	-0.3		
			PMZ	$m_b = 5.2$		0.8	0.073
			pP	17 00 34.5	-1.1		
			sS	17 04 47.0	-1.2		
DL2	23.0	316	eP	17 00 17.0	1.4		
MDJ	23.1	337	eP	17 00 18.2	0.9		
SNY	23.7	324	+P	17 00 22.0	-0.4		
			PMZ	$m_b = 4.7$		1.2	0.033
			S	17 04 22.0	-0.6		
			sS	17 05 11.0	-5.1		
CN2	24.2	330	-iP	17 00 28.0	0.8		
			PMZ	$m_b = 4.5$		1.0	0.020
TIA	24.8	306	-P	17 00 32.6	-0.5		
WHN	25.5	291	+P	17 00 39.5	-0.1		
			pP	17 01 10.5	0.8		
BJI	27.1	313	eP	17 00 55.0	0.2		
			PMZ	$m_b = 4.7$		1.5	0.026
TIY	28.8	306	eP	17 01 10.7	0.5		
			S	17 05 52.0	4.7		
			LZ			16.0	0.59
HHC	30.7	311	eP	17 01 25.2	-1.1		
BTO	31.6	310	eP	17 01 33.9	-1.0		
GYA	32.1	282	P	17 01 41.0	2.3		
LZH	35.1	299	eP	17 02 04.5	0.1		
			PMZ	$m_b = 4.9$		2.0	0.047
KMI	35.7	280	+P	17 02 11.0	1.2		
GTA	38.8	304	eP	17 02 34.4	-1.3		
LSA	45.5	289	P	17 03 32.4	1.8		
WMQ	48.4	308	-iP	17 03 54.0	1.1		

NOV 8d 20h 07m $09.1 \pm 0.09s$, SD1.19 / 84
 $30.95 N \pm 1.28km$, $141.60 E \pm 1.86km$, $h41 \pm 0.51km$
 South of Honshu (211)
 $M_S 4.8 / 23, m_b 4.9 / 14,$

MDJ	16.6	329	eP	20 11 00.0	-0.5		
			sP	20 11 11.5	-2.8		
			S	20 14 04.0	2.2		
			LZ	$M_S = 4.3$		28.0	2.10
SSE	17.5	276	eP	20 11 13.0	1.1		
			pP	20 11 19.4	-1.1		
			PP	20 11 31.4	5.3		
			sS	20 14 38.0	0.9		
			LN	$M_S = 4.7$		14.0	1.01
			LE			14.0	1.40
			LZ	$M_S = 4.3$		20.0	1.40
SNY	18.1	312	+iP	20 11 20.8	1.6		
			PMZ	$m_b = 4.7$		1.0	0.042
			LN	$M_S = 4.7$		14.0	1.24
			LE			14.0	1.09
			LZ	$M_S = 4.5$		16.0	1.93
CN2	18.1	320	eP	20 11 19.0	-0.4		
			PMZ	$m_b = 4.7$		1.2	0.050
			pP	20 11 26.5	-1.6		
			eS	20 14 39.0	2.2		
			LN	$M_S = 4.8$		14.0	1.00
			LE			14.0	2.00
			LZ	$M_S = 4.7$		15.0	2.40
DL2	18.2	301	eP	20 11 21.0	0.7		
			eS	20 14 44.0	5.6		
			LN	$M_S = 4.9$		15.0	2.15
			LE			15.0	2.66
			LZ	$M_S = 4.4$		16.0	1.51
NJ2	19.4	279	-P	20 11 34.0	-1.0		
			sP	20 11 47.5	-1.7		
			PP	20 11 50.6	-1.9		
			eS	20 15 10.0	3.7		
			LZ	$M_S = 4.4$		20.0	1.53
TIA	21.0	291	eP	20 11 51.3	-0.7		

QZH	21.2 259	S	20 15 44.0	5.9	15.0 2.30	WMQ	44.1 304	+P	00 35 11.4	-1.3	1.0 0.048	
		sS	20 15 59.0	4.0				pP	00 35 38.0	1.2		
		LE	$M_s=4.9$					S	00 40 02.0	0.3		
		eP	20 11 52.0	-1.4				P	00 37 08.0	-0.9		
		LN	$M_s=4.7$	20.0								
BJI	22.5 301	LZ	$M_s=4.3$	20.0	1.20	NOV 9d 01h 36m $56.2 \pm 0.06s$, SD1.17 / 60 46.54 N $\pm 2.04km$, 150.12 E $\pm 1.13km$, h183 $\pm 1.04km$ Kurile Islands (221) $m_b 5.1 / 7$,						
		eP	20 12 07.0	0.0		MDJ	14.5 270	eP	01 40 14.0	-0.3		
		PMZ	$m_b=5.0$	1.5		CN2	17.6 270	eP	01 40 51.0	-0.4		
		eS	20 16 08.0	1.3		BJI	25.4 268	eP	01 42 09.0	0.2		
		LE	$M_s=4.8$	16.0		PMZ	$m_b=5.1$		1.0 0.048			
WHN	23.4 276	LZ	$M_s=4.8$	18.0	2.64	HHC	28.3 272	+P	01 42 35.2	0.4	1.0 0.066	
		eP	20 12 15.5	0.0		TIY	29.1 266	eP	01 42 42.8	0.7		
		pP	20 12 25.5	-0.3		XAN	33.4 263	P	01 43 19.6	-0.6		
		eS	20 16 28.0	5.9		LZH	35.8 270	+iP	01 43 41.5	1.0		
		LN	$M_s=5.0$	16.0		PMZ	$m_b=5.2$		1.0 0.066			
TIY	25.0 294	LE		16.0	1.90	GTA	37.0 278	+iP	01 43 50.6	0.6	1.0 0.066	
		LZ	$M_s=4.6$	18.0		CD2	38.8 263	+iP	01 44 05.8	0.5		
		-P	20 12 31.0	0.4		GYA	39.7 255	P	01 44 12.8	0.4		
		PMZ	$m_b=5.1$	1.0		WMQ	43.1 290	-iP	01 44 40.6	0.4		
		S	20 16 47.0	-0.8		KMI	43.2 257	eP	01 44 41.0	-0.2		
HHC	26.2 300	LE	$M_s=4.9$	16.0	2.04	KSH	52.9 291	eP	01 45 56.5	0.8	1.0 0.066	
		LZ	$M_s=4.9$	17.0		NOV 9d 02h 26m $51.0 \pm 0.06s$, SD1.13 / 40 6.68 S $\pm 0.85km$, 132.25 E $\pm 1.45km$, h32 $\pm 0.23km$ Tanimbar Islands region (281) $m_b 5.2 / 3$,						
		-P	20 12 42.2	0.3		SSE	39.0 345	P	02 34 17.4	0.8		
		eS	20 17 11.3	2.7		PMZ	$m_b=4.9$		0.8 0.016			
		LN	$M_s=5.0$	15.0		NJ2	40.6 342	eP	02 34 30.0	0.4		
BTO	27.3 299	LE		17.0	2.18	WHN	40.8 336	+P	02 34 32.5	1.1	1.0 0.066	
		LZ	$M_s=4.9$	20.0		GYA	41.2 324	+P	02 34 35.2	0.0		
		P	20 12 52.0	0.0		XAN	46.1 333	P	02 35 14.0	-0.7		
		pP	20 13 01.0	-1.3		TIY	47.9 339	+P	02 35 27.9	-0.5		
		eS	20 17 29.0	2.4		BJI	48.8 344	eP	02 35 34.5	-0.9		
GYA	30.9 271	LN	$M_s=5.2$	16.0	1.50	CN2	50.6 354	eP	02 35 49.3	-0.1	1.0 0.066	
		LE		16.0		GTA	54.8 329	+iP	02 36 20.6	-0.2		
		P	20 13 23.4	-1.1		WMQ	64.4 326	-iP	02 37 27.8	1.2		
		pP	20 13 32.6	-2.3		NOV 9d 03h 19m $25.7 \pm 0.10s$, SD1.26 / 96 11.35 S $\pm 1.76km$, 118.10 E $\pm 2.05km$, h37 $\pm 0.10km$ South of Sumbawa (291) $m_b 5.4 / 15$,						
		S	20 18 25.0	1.6		QZN	31.3 345	eP	03 25 45.3	0.6		
LZH	31.8 290	eP	20 13 30.5	-1.7	0.018	GYA	39.2 344	-P	03 26 53.0	0.6	1.2 0.060	
		PMZ	$m_b=4.8$	1.1		PMZ	$m_b=5.3$		1.2 0.060			
		LE	$M_s=4.4$	15.0		KMI	39.2 338	-P	03 26 55.0	2.2		
		LZ	$M_s=4.5$	16.0		PMZ	$m_b=5.8$		2.0 0.30			
		eP	20 13 35.5	-1.9		pP	03 27 05.0	2.4	1.0 0.066			
CD2	32.4 280	eS	20 18 49.5	2.0	S	03 32 54.0	4.5					
		LE	$M_s=4.7$	16.0	LZ	$M_s=4.5$	20.0 0.80					
		LZ	$M_s=4.6$	16.0	WHN	41.8 355	-P	03 27 14.5		0.6		
		-P	20 13 57.0	-0.4	PMZ	$m_b=5.4$		1.4 0.080				
		LE	$M_s=5.2$	15.0	pP	03 27 25.0	1.1	1.0 0.066				
KMI	34.7 270	LZ	$M_s=4.8$	14.0	1.20	SSE	42.3 4		eP	03 27 15.5	-2.5	
		-P	20 13 59.0	-0.6		pP	03 27 26.5		-1.5			
		LE	$M_s=5.2$	15.0		eS	03 33 36.0		-0.3			
		LZ	$M_s=5.0$	16.0		NJ2	43.2 1		-P	03 27 25.0	0.0	
		LZ	$M_s=5.0$	16.0		PMZ	$m_b=4.9$		1.2 0.022			
GTA	34.9 296	-P	20 13 59.0	-0.6	1.89	pP	03 27 36.0	0.9	1.0 0.066			
		LE	$M_s=5.2$	15.0		CD2	44.2 342	-iP		03 27 33.6	0.0	
		LZ	$M_s=5.0$	16.0		pP	03 27 43.0	-0.7				
		-iP	20 15 16.4	1.6		eS	03 34 01.0	-3.3				
		eP	20 16 22.0	-4.7		XAN	46.0 349	-iP		03 27 47.5	-0.2	
WMQ	44.0 303	-iP	20 15 16.4	1.6	2.04	LSA	48.4 328	iP	03 28 07.5	0.6	3.0 0.54	
		KSH	53.3 298	eP		20 16 22.0	-4.7	PMZ				
				NOV 9d 00h 29m $09.6 \pm 0.10s$, SD1.71 / 57 29.67 N $\pm 1.76km$, 140.82 E $\pm 1.72km$, h113 $\pm 0.38km$ South of Honshu (211) $m_b 4.6 / 5$,								
				SSE		17.0 280	eP	00 33 06.6	4.6	1.0 0.066		
				MDJ		17.4 332	eP	00 33 06.0	-0.4			
SNY	18.5 316			eP	00 33 21.0	1.6						
NJ2	19.0 283	+P	00 33 25.0	-0.2								
pP	00 33 40.5	-3.5	1.0 0.066									
TIA	20.9 294	eP		00 33 47.1	2.2							
BJI	22.7 304	eP		00 34 01.5	-0.5							
WHN	22.9 279	eP		00 34 05.5	1.0							
pP	00 34 28.7	0.8										
HHC	26.3 303	eP	00 34 31.7	-4.7	1.0 0.066							
BTO	27.3 302	eP	00 34 47.8	1.6								
XAN	27.4 287	+P	00 34 45.2	-1.5								



LZH	49.1	345	eS	03 35	01.5	-2.8		
			-iP	03 28	12.0	0.1		
			PMZ		$m_b = 4.9$		1.5	0.027
			pP	03 28	23.5	1.7		
			sP	03 28	29.0	3.0		
			PcP	03 29	37.0	2.3		
			LZ		$M_s = 4.2$		20.0	0.25
TIY	49.1	354	eP	03 28	11.3	-0.8		
			S	03 35	12.0	-0.4		
			LZ		$M_s = 4.4$		26.0	0.57
DL2	50.1	4	eP	03 28	23.0	3.3		
BJI	51.2	358	eP	03 28	27.0	-0.7		
			esP	03 28	45.0	3.0		
			ePP	03 30	25.0	0.5		
			eS	03 35	41.0	-1.0		
BTO	52.2	352	P	03 28	34.5	-1.4		
HHC	52.3	354	eP	03 28	35.4	-1.0		
SNY	53.1	5	-P	03 28	41.3	-1.4		
GTA	53.3	342	-iP	03 28	43.6	-0.3		
			PcP	03 29	52.0	1.7		
CN2	55.3	6	eP	03 28	58.5	0.1		
			sP	03 29	14.0	1.2		
MDJ	56.7	10	eP	03 29	07.0	-1.3		
			sP	03 29	18.0	-4.7		
WMQ	61.5	335	-iP	03 29	41.5	-0.2		
			eS	03 37	58.0	-1.2		
			LZ		$M_s = 4.6$		24.0	0.54
KSH	64.0	325	+iP	03 29	58.0	-0.6		
			pP	03 30	11.0	2.2		
			eS	03 38	30.0	-1.0		

NJ2	10.7	285	-P	04 08	02.0	-0.8		
			LN		$M_s = 4.6$		13.0	0.64
			LE				14.0	3.05
TIA	13.2	302	eP	04 08	36.8	-0.3		
			S	04 11	05.5	2.7		
			LN		$M_s = 4.9$		13.0	1.85
			LE				13.0	3.66
SNY	13.3	335	eP	04 08	40.0	1.9		
			PMZ		$m_b = 5.0$		1.0	0.023
			pP	04 08	49.0	-1.3		
			eS	04 11	11.0	6.0		
			LN		$M_s = 4.8$		12.0	2.49
			LE				12.0	2.12
			LZ		$M_s = 4.9$		14.0	6.06
WHN	14.4	277	-P	04 08	52.5	-0.3		
			pP	04 09	02.0	-3.7		
			eS	04 11	31.0	-0.8		
			LN		$M_s = 4.8$		12.0	1.83
			LE				12.0	2.44
			LZ		$M_s = 4.6$		12.0	2.41
CN2	14.5	344	eP	04 08	56.3	2.3		
			PMZ		$m_b = 5.4$		1.0	0.070
			pP	04 09	07.5	0.6		
			eS	04 11	38.0	3.9		
			LN		$M_s = 4.9$		12.0	3.10
			LE				12.0	0.70
			LZ		$M_s = 5.0$		15.0	6.50
MDJ	14.7	356	eP	04 08	59.5	3.4		
			S	04 11	40.0	2.6		
			LN		$M_s = 4.5$		12.0	1.50
			LZ		$M_s = 4.4$		16.0	1.97
BJI	15.8	314	eP	04 09	12.0	1.9		
			PMZ		$m_b = 4.7$		1.5	0.047
			PMZ		$m_b = 4.9$		12.0	0.60
			eS	04 12	05.0	1.8		
			esS	04 12	20.0	-3.8		
			LN		$M_s = 4.9$		14.0	2.15
			LE				12.0	2.60
			LZ		$M_s = 5.0$		14.0	6.45
TIY	17.3	302	eP	04 09	29.4	0.6		
			LE		$M_s = 4.9$		13.0	2.98
			LZ		$M_s = 4.9$		14.0	4.64
XAN	19.2	288	+P	04 09	49.5	-2.1		
HHC	19.2	310	eP	04 09	54.5	2.7		
			eS	04 13	22.7	2.3		
			LN		$M_s = 5.1$		14.0	2.72
			LE				13.0	2.45
			LZ		$M_s = 4.8$		12.0	2.50
BTO	20.2	308	eP	04 10	02.0	0.2		
			pP	04 10	14.0	-2.0		
			eS	04 13	39.0	-0.8		
			LN		$M_s = 5.0$		15.0	2.00
			LE				15.0	3.00
GYA	21.8	267	-P	04 10	19.0	0.9		
			sP	04 10	42.6	0.7		
			S	04 14	07.8	-1.0		
			LN		$M_s = 4.9$		16.0	1.70
			LE				16.0	1.60
QZN	22.1	245	eP	04 10	21.0	-0.4		
			eS	04 14	15.0	-0.9		
			LN		$M_s = 4.8$		16.0	1.04
			LE				14.0	1.29
CD2	23.5	279	P	04 10	36.6	1.2		
			eS	04 14	38.0	-3.3		
			LN		$M_s = 5.1$		14.0	2.75
			LZ		$M_s = 4.7$		13.0	1.79
LZH	23.6	292	eP	04 10	38.0	2.0		
			PMZ		$m_b = 4.7$		1.5	0.053

NOV 9d 18h 39m 53.8 ± 0.07s, SD1.01 / 64
 6.26 N ± 0.97km, 125.40 E ± 1.35km, h121 ± 0.26km
 Mindanao (259)
 $m_b 4.8 / 5,$

QZH	19.7	341	-P	18 44	16.0	0.0		
WHN	26.3	338	eP	18 45	20.0	-0.1		
NJ2	26.4	347	eP	18 45	20.5	-0.4		
GYA	26.9	320	+P	18 45	26.0	0.4		
KMI	28.7	313	eP	18 45	42.0	0.0		
XAN	31.6	333	+P	18 46	06.0	-1.4		
CD2	31.8	323	+iP	18 46	09.5	-0.2		
TIY	33.5	341	eP	18 46	23.2	-0.5		
BJI	34.6	348	eP	18 46	32.5	-1.2		
			PMZ		$m_b = 4.8$		1.0	0.018
SNY	35.5	358	+P	18 46	39.6	-1.0		
			PMZ		$m_b = 4.9$		1.0	0.023
LZH	35.7	329	eP	18 46	43.0	0.4		
			PMZ		$m_b = 5.1$		1.0	0.033
HHC	36.6	342	eP	18 46	50.0	-0.4		
BTO	36.9	340	eP	18 46	53.6	1.0		
CN2	37.4	0	eP	18 46	58.0	1.1		
MDJ	38.4	5	eP	18 47	06.0	0.8		
LSA	39.8	310	P	18 47	18.4	1.0		
GTA	40.3	329	+iP	18 47	20.8	-0.1		
WMQ	49.9	325	-iP	18 48	37.0	-0.5		
KSH	55.4	314	eP	18 49	18.0	-0.2		

NOV 10d 04h 05m 30.3 ± 0.07s, SD1.58 / 70
 29.93 N ± 1.32km, 131.05 E ± 1.39km, h69 ± 1.18km
 Ryukyu Islands (238)
 $M_s 4.9 / 27, m_b 4.9 / 1, m_b 4.9 / 12,$

SSE	8.6	280	P	04 07	33.5	-0.8		
			PMZ		$m_b = 5.1$		1.0	0.047
			PP	04 07	42.4	-0.8		
			LN		$M_s = 4.9$		13.0	2.02
			LE				14.0	9.47
			LZ		$M_s = 4.4$		16.0	3.56

		S	04 14 48.0	6.8				pP	08 06 55.0	-3.7		
		LN		$M_s = 5.0$	14.0	1.10		eS	08 09 27.0	-3.6		
		LE			14.0	2.30		LN		$M_s = 4.7$	12.0	1.80
		LZ		$M_s = 5.1$	15.0	4.40		LE			10.0	1.00
KMI	25.5 266	-P	04 10 56.0	1.3			TIA	14.2 49	P	08 06 58.8	3.3	
		pP	04 11 09.0	-1.1				LN		$M_s = 4.7$	11.0	1.46
GTA	27.3 299	eP	04 11 10.2	-0.4				LE			10.0	1.35
		LE		$M_s = 5.0$	13.0	1.52	HHC	14.8 23	P	08 07 02.6	-0.6	
		LZ		$M_s = 4.9$	14.0	2.34		S	08 09 47.4	0.3		
WMQ	36.9 304	P	04 12 34.5	-0.3				LN		$M_s = 4.7$	10.0	1.14
								LE			6.0	1.06
<p>NOV 10d 08h 03m $32.3 \pm 0.12s$, $SD2.15 / 69$ $27.42 N \pm 1.13km$, $103.94 E \pm 1.07km$, $h16 \pm 0.30km$ Yunnan Province (318) $M_s 4.7 / 25$, $M_L 4.9 / 10$, $m_b 4.6 / 3$,</p>												
KMI	2.5 205	Pn	08 04 14.5	1.0				LZ		$M_s = 4.7$	12.0	2.50
		Pg	08 04 17.0	0.0			BJI	16.2 36	eP	08 07 21.0	0.3	
		Sn	08 04 46.5	0.9				LN		$M_s = 4.6$	5.0	0.53
		Sg	08 04 53.0	1.3				LE			7.0	0.61
		LE			5.0	10.3		LZ		$M_s = 4.2$	16.0	1.16
		LZ			5.0	11.7	WMQ	21.0 326	eP	08 08 15.5	-2.0	
GYA	2.6 111	Pg	08 04 18.8	0.0				eS	08 12 06.0	0.3		
		Sg	08 04 53.0	-1.4				LZ		$M_s = 4.3$	11.0	0.58
		LN			5.0	10.4	CN2	23.8 41	eP	08 08 46.0	0.1	
		LE			5.0	5.40		PMZ		$m_b = 4.2$	1.0	0.010
CD2	3.5 357	iPn	08 04 29.6	3.3				pP	08 08 52.0	-0.1		
		Pg	08 04 38.5	4.8				eS	08 12 58.0	0.0		
		Sn	08 05 13.6	4.6				LN		$M_s = 4.6$	10.0	0.40
		Sg	08 05 28.6	7.3				LE			10.0	0.50
		LE		$M_s = 5.0$	5.5	22.6		LZ		$M_s = 4.4$	12.0	0.70
XAN	7.9 32	Pn	08 05 28.2	1.6			<p>NOV 10d 11h 22m $42.6 \pm 0.11s$, $SD3.43 / 9$ $46.71 N \pm 1.36km$, $84.83 E \pm 1.41km$, $h12 \pm 1.71km$ Kazakhstan-Xinjiang border region (331) $M_L 4.1 / 8$,</p>					
		Sn	08 06 57.3	-0.4			WMQ	3.5 144	Pn	11 23 40.7	2.9	
		SMN		$M_L = 5.2$	1.2	0.73		Sg	11 24 32.8	-0.5		
		SME			1.1	0.63		SMN		$M_L = 3.7$	0.7	0.24
		LN		$M_s = 4.7$	7.0	2.67		SME			0.7	0.18
		LE			8.0	3.36	<p>NOV 10d 13h 00m $19.6 \pm 0.13s$, $SD2.45 / 18$ $17.07 S \pm 2.91km$, $167.56 E \pm 3.77km$, $h6 \pm 1.01km$ Vanuatu (New Hebrides) (186)</p>					
LZH	8.6 360	eP	08 05 41.5	1.5			WHN	69.7 313	eP	13 11 32.0	-1.1	
		PMZ		$m_b = 4.6$	1.5	0.038	CN2	71.8 329	eP	13 11 44.0	-1.7	
		LN		$M_s = 4.7$	10.0	1.17	BJI	74.3 321	eP	13 11 59.0	-1.2	
		LE			9.0	4.39	TIY	75.2 318	eP	13 12 04.0	-1.5	
		LZ		$M_s = 3.9$	20.0	1.30	GTA	84.5 314	eP	13 12 55.0	-0.7	
GZH	9.5 115	P	08 05 52.8	0.4			<p>NOV 10d 13h 42m $49.9 \pm 0.23s$, $SD1.50 / 60$ $22.67 S \pm 2.33km$, $66.05 W \pm 1.15km$, $h244 \pm 1.99km$ Jujuy Province, Argentina (128) $m_b 5.9 / 1$,</p>					
		eS	08 07 40.0	-0.4			WMQ	149.8 40	PKP	14 02 07.5	0.4	
		LN		$M_s = 5.3$	6.0	8.18	MDJ	154.6 333	ePKP	14 02 14.0	0.1	
		LE			6.0	4.10	CN2	156.9 338	ePKP	14 02 17.5	0.6	
		LZ		$M_s = 4.5$	8.0	2.06	SNY	159.3 339	ePKP	14 02 19.6	-0.2	
WHN	9.6 69	eP	08 05 54.0	0.4			GTA	159.4 33	ePKP	14 02 19.8	-0.4	
		sP	08 06 00.0	-2.3			BTO	161.8 10	ePKP	14 02 23.6	1.0	
		iS	08 07 36.0	-6.6			BJI	162.6 354	ePKP	14 02 23.0	-0.2	
		LN		$M_s = 5.0$	9.0	5.30	LZH	164.0 31	PKP	14 02 25.5	0.6	
		LE			9.0	3.57	TIY	165.0 5	ePKP	14 02 26.6	0.9	
		LZ		$M_s = 4.5$	10.0	2.55	TIA	166.2 349	+PKP	14 02 26.9	0.2	
QZN	10.0 146	eP	08 05 56.8	-1.4			CD2	167.8 46	ePKP	14 02 28.4	0.7	
		eS	08 07 49.0	-1.8			XAN	167.8 20	-PKP	14 02 28.1	0.3	
		LN		$M_s = 4.9$	8.5	2.62	WHN	172.2 357	ePKP	14 02 30.5	0.2	
		LE			8.0	3.44		PKP2	14 03 56.0	0.2		
GTA	12.4 345	eP	08 06 31.0	-1.1				PP	14 07 49.5	1.2		
		LE		$M_s = 4.7$	11.0	2.64	GYA	172.4 59	PKP	14 02 30.6	0.1	
		LZ		$M_s = 4.2$	10.0	0.96	<p>NOV 10d 15h 23m $48.7 \pm 0.12s$, $SD1.36 / 75$ $3.44 N \pm 1.07km$, $126.73 E \pm 1.90km$, $h71 \pm 1.00km$</p>					
TIY	12.5 33	+iP	08 06 31.0	-1.9								
		S	08 08 52.0	-0.5								
		LN		$M_s = 4.7$	9.0	2.22						
		LZ		$M_s = 4.5$	15.0	2.84						
NJ2	13.8 67	eP	08 06 49.0	-0.4								
		eS	08 09 20.0	-2.9								
		LN		$M_s = 5.2$	11.0	6.20						
		LE			10.0	2.39						
BTO	14.1 19	P	08 06 51.0	-2.6								



Molucca Passage (266)
 $M_s 4.9 / 1, m_b 5.4 / 1, m_b 5.1 / 6,$

QZN	22.6	314	eP	15 28 45.8	1.0		
QZH	22.8	341	eP	15 28 45.3	-0.8		
SSE	28.0	350	P	15 29 36.5	1.2		
			pP	15 29 50.5	-1.2		
			eS	15 34 08.0	-5.1		
WHN	29.4	338	+P	15 29 48.0	0.3		
			sP	15 30 09.5	-3.6		
NJ2	29.4	346	+P	15 29 50.0	2.1		
TIA	33.8	346	P	15 30 26.0	-0.3		
XAN	34.7	333	-P	15 30 32.0	-1.9		
CD2	34.9	324	eP	15 30 37.8	2.2		
TIY	36.5	341	eP	15 30 49.0	-0.8		
			LZ	$M_s = 4.5$	30.0	1.09	
BJI	37.7	347	eP	15 30 59.0	-0.1		
			PMZ	$m_b = 5.4$	1.0	0.066	
SNY	38.3	356	-P	15 31 04.4	-0.2		
LZH	38.7	330	eP	15 31 09.0	0.7		
			LZ	$M_s = 4.7$	26.0	1.40	
HHC	39.7	342	eP	15 31 17.8	1.9		
CN2	40.2	359	eP	15 31 20.0	-0.2		
			pP	15 31 37.0	-0.3		
MDJ	41.1	3	eP	15 31 32.5	5.1		
LSA	42.6	312	+P	15 31 41.6	1.0		
GTA	43.3	329	eP	15 31 45.4	-0.7		
			LZ	$M_s = 4.5$	18.0	0.59	
WMQ	52.9	325	eP	15 33 00.8	0.1		
KSH	58.3	315	eP	15 33 40.5	1.4		

NOV 10d 18h 46m $05.3 \pm 0.07s, SD0.97 / 45$
 $21.21 S \pm 1.67km, 179.10 W \pm 1.83km, h622 \pm 0.86km$
 Fiji region (181)
 $m_b 4.5 / 5,$

NJ2	79.5	310	-iP	18 57 11.5	0.4		
			PMZ	$m_b = 4.5$	1.1	0.022	
MDJ	80.5	326	eP	18 57 15.0	-1.2		
WHN	82.0	307	P	18 57 24.5	0.6		
			sP	19 00 32.0	-2.5		
CN2	82.2	323	eP	18 57 24.5	-0.4		
			PMZ	$m_b = 4.5$	1.2	0.020	
			pP	18 59 36.0	1.3		
			eS	19 06 49.0	-2.0		
TIA	83.0	313	-P	18 57 28.3	-0.4		
BJI	85.7	316	eP	18 57 41.5	-0.3		
			PMZ	$m_b = 4.6$	1.0	0.012	
GYA	86.1	300	P	18 57 44.8	0.8		
TIY	87.0	312	eP	18 57 48.7	0.6		
XAN	87.7	308	+iP	18 57 52.6	1.0		
GTA	96.6	310	eP	18 58 31.4	-0.9		

NOV 10d 21h 08m $11.8 \pm 0.09s, SD1.80 / 22$
 $36.49 N \pm 1.13km, 71.16 E \pm 1.09km, h110 \pm 0.55km$
 Hindu Kush region (718)
 $m_b 4.9 / 2,$

KSH	4.8	50	P	21 09 27.2	3.3		
			S	21 10 23.0	4.2		
			SMN		0.3	1.30	
			SME		0.3	1.20	
WMQ	14.6	55	P	21 11 33.0	-1.5		
			S	21 14 13.0	-0.4		
			SMN		1.5	0.010	
			SME		1.5	0.020	
GTA	22.7	74	+P	21 13 08.6	2.9		

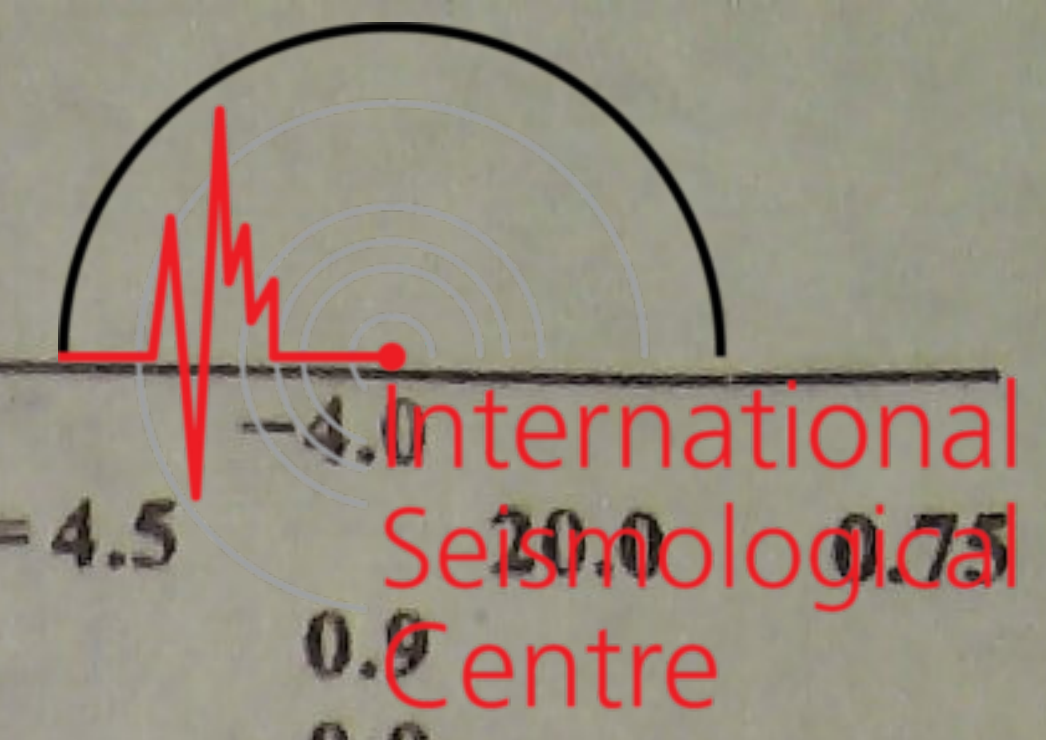
NOV 10d 22h 53m $18.9 \pm 0.08s, SD1.06 / 82$
 $49.17 N \pm 2.54km, 156.12 E \pm 1.65km, h25 \pm 0.34km$
 Kurile Islands (221)

$M_s 4.8 / 12, m_b 5.2 / 13,$

MDJ	18.6	266	eP	22 57 36.5	-0.8		
			pP	22 57 40.5	-3.3		
			sP	22 57 44.0	-3.9		
			SS	23 01 27.5	2.3		
			LN	$M_s = 4.6$	16.0	1.40	
			LZ	$M_s = 4.5$	16.0	1.75	
CN2	21.7	267	eP	22 58 07.6	-2.6		
			sP	22 58 18.0	-3.5		
			eS	23 02 03.0	-1.2		
			LE	$M_s = 4.4$	12.0	0.60	
			LZ	$M_s = 4.6$	15.0	1.60	
SNY	23.8	264	-P	22 58 32.1	1.0		
			LZ	$M_s = 4.6$	16.0	1.40	
BJI	29.6	267	eP	22 59 22.5	-1.7		
			PMZ	$m_b = 4.8$	1.2	0.024	
			eS	23 04 14.0	-2.6		
			LN	$M_s = 4.6$	18.0	0.84	
			LZ	$M_s = 4.6$	12.0	0.90	
SSE	31.9	249	P	22 59 43.3	-1.2		
			PMZ	$m_b = 4.7$	1.0	0.014	
			eS	23 04 52.0	-0.7		
			LE	$M_s = 4.7$	14.0	0.67	
			LZ	$M_s = 4.2$	20.0	0.47	
HHC	32.2	272	-P	22 59 47.0	-0.5		
			S	23 04 55.6	-1.3		
			LN	$M_s = 4.9$	12.0	0.69	
			LE		12.0	0.58	
			LZ	$M_s = 4.9$	14.0	1.67	
NJ2	32.6	252	+P	22 59 51.0	-0.4		
			LZ	$M_s = 4.6$	20.0	1.16	
TIY	33.3	267	-P	22 59 57.3	0.3		
			LE	$M_s = 4.9$	16.0	1.09	
			LZ	$M_s = 4.6$	20.0	1.24	
BTO	33.3	273	eP	22 59 56.5	-0.9		
			pP	23 00 02.0	-3.2		
			eS	23 05 13.0	-2.8		
			LN	$M_s = 5.2$	15.0	1.40	
			LE		14.0	1.40	
WHN	36.5	255	+P	23 00 24.5	0.1		
			PMZ	$m_b = 5.4$	1.0	0.060	
			pP	23 00 33.5	1.1		
XAN	37.7	264	P	23 00 32.5	-2.5		
LZH	39.8	271	P	23 00 53.5	0.8		
			PMZ	$m_b = 5.2$	1.5	0.056	
GTA	40.6	278	+iP	23 00 59.0	0.1		
CD2	43.1	265	eP	23 01 19.7	0.4		
GYA	44.2	258	+iP	23 01 28.4	0.1		
			PMZ	$m_b = 5.5$	1.2	0.10	
			S	23 07 58.0	-0.8		
WMQ	45.9	291	-iP	23 01 42.7	0.5		
KMI	47.7	260	+P	23 01 56.0	0.1		
			PMZ	$m_b = 5.5$	1.5	0.10	
			sP	23 02 09.0	1.9		
			S	23 08 46.0	-2.2		
			LZ	$M_s = 4.8$	18.0	0.90	
LSA	52.2	273	eP	23 02 31.8	1.3		
KSH	55.6	293	eP	23 02 56.0	0.3		

NOV 10d 22h 57m $50.5 \pm 0.09s, SD1.25 / 83$
 $49.22 N \pm 2.68km, 156.11 E \pm 1.81km, h16 \pm 0.38km$
 Kurile Islands (221)
 $M_s 5.1 / 11, m_b 5.2 / 20,$

MDJ	18.6	266	eP	23 02 10.0	0.0		
			pP	23 02 13.5	-1.8		
			sP	23 02 17.5	-1.6		
			LN	$M_s = 4.5$	12.0	0.90	
			LZ	$M_s = 4.5$	16.0	1.75	



39.85 N ± 1.36km, 143.43 E ± 1.47km, h29 ± 0.51km
Near east coast of Honshu (228)
M_s3.9 / 2, m_b4.6 / 3,

MDJ	11.3	299	eP	03 33 52.0	2.4		
BJI	20.9	279	eP	03 35 47.5	-1.7		
TIA	21.0	268	eP	03 35 49.2	-1.4		
WHN	25.4	258	-P	03 36 35.0	1.2		
			PMZ		m _b = 5.1	1.0	0.050
GYA	33.3	258	P	03 37 45.0	0.3		
GTA	33.3	284	eP	03 37 46.0	1.0		
WMQ	41.0	294	eP	03 38 51.0	1.2		

NOV 12d 08h 39m 20.3 ± 0.05s, SD1.28 / 21
36.48 N ± 0.82km, 71.11 E ± 0.69km, h211 ± 0.51km
Hindu Kush region (718)
m_b4.6 / 1,

KSH	4.9	50	P	08 40 35.4	1.2		
			S	08 41 32.0	1.1		
			SMN			0.4	1.20
			SME			0.2	0.50
WMQ	14.6	55	+iP	08 42 39.0	0.0		
GTA	22.8	74	eP	08 44 08.0	2.0		

NOV 12d 12h 51m 11.2 ± 0.07s, SD1.78 / 10
9.34 N ± 1.26km, 126.86 E ± 1.99km, h60 ± 1.00km
Mindanao (259)

NJ2	23.8	343	+P	12 56 19.0	-0.4		
BJI	32.0	344	eP	12 57 33.0	-1.5		
GTA	38.5	326	eP	12 58 27.0	-2.6		

NOV 12d 13h 37m 00.8 ± 0.08s, SD1.24 / 29
9.74 N ± 0.93km, 126.33 E ± 1.52km, h32 ± 0.11km
Mindanao (259)

NJ2	23.3	344	+P	13 42 07.5	1.0		
WHN	23.5	333	eP	13 42 11.0	1.9		
			sP	13 42 24.0	2.2		
TIY	30.5	338	eP	13 43 12.8	-1.1		
			LZ		M _s = 4.2	18.0	0.48
BJI	31.5	345	eP	13 43 21.0	-1.3		
SNY	32.0	356	eP	13 43 27.0	-0.2		
HHC	33.6	340	-P	13 43 40.0	-1.0		
CN2	33.9	359	eP	13 43 45.0	1.5		
BTO	34.0	337	eP	13 43 44.2	0.3		
GTA	37.8	326	eP	13 44 15.5	-1.4		

NOV 12d 19h 17m 48.4 ± 0.15s, SD3.24 / 10
55.72 S ± 3.10km, 29.41 W ± 3.56km, h31 ± 0.73km
South Sandwich Islands region (153)

TIY	148.8	109	ePKP	19 37 32.4	2.4		
BJI	152.5	110	ePKP	19 37 40.5	5.0		

NOV 12d 19h 18m 29.2 ± 0.09s, SD1.43 / 77
3.91 S ± 2.02km, 99.40 E ± 2.42km, h30 ± 0.52km
South-west of Sumatera (273)
M_s4.8 / 6, m_b5.0 / 4,

QZN	25.0	24	eP	19 23 51.4	-0.8		
			S	19 28 11.0	0.0		
			sS	19 28 23.0	-2.7		
			LE		M _s = 4.7	13.0	1.09
KMI	29.0	6	+P	19 24 29.5	0.1		
			pP	19 24 33.5	-4.3		
			sP	19 24 40.0	-1.6		
			LZ		M _s = 4.3	25.0	0.80
GYA	31.0	13	P	19 24 46.0	-0.7		
LSA	34.3	347	P	19 25 17.9	1.8		
CD2	34.9	7	eP	19 25 19.0	-1.3		
WHN	37.1	22	+P	19 25 40.0	0.8		
			PMZ		m _b = 4.9	1.0	0.020

			pP	19 25 44.0	-3.0		
			LZ		M _s = 4.5	20.0	0.75
XAN	38.8	13	P	19 25 54.2	0.9		
LZH	40.0	6	P	19 26 03.5	0.0		
			PMZ		m _b = 5.0	1.5	0.042
			LZ		M _s = 4.4	20.0	0.49
NJ2	40.3	26	eP	19 26 06.5	1.1		
			LZ		M _s = 4.3	18.0	0.36
SSE	40.5	29	eP	19 26 08.4	0.7		
			LZ		M _s = 4.5	16.0	0.53
GTA	43.1	0	+P	19 26 28.0	-1.0		
			LZ		M _s = 4.5	14.0	0.41
TIY	43.1	15	eP	19 26 28.8	-0.5		
			sS	19 33 05.5	-2.7		
			LN		M _s = 4.8	12.0	0.44
			LZ		M _s = 4.9	12.0	0.84
BTO	45.3	11	eP	19 26 47.5	0.5		
			pP	19 26 53.0	-2.8		
			eS	19 33 25.5	-0.1		
			LN		M _s = 5.0	14.0	0.40
			LE			14.0	0.70
BJI	46.4	18	eP	19 26 55.5	0.5		
			LZ		M _s = 4.6	16.0	0.58
WMQ	48.7	349	P	19 27 12.0	-1.0		
CN2	53.0	23	+P	19 27 44.5	-1.1		
			PMZ		m _b = 5.2	1.0	0.030
			pP	19 27 52.0	-2.5		
			eS	19 35 10.0	-1.8		
			LE			2.4	0.40
MDJ	55.4	26	eP	19 28 02.5	-0.6		

NOV 12d 20h 38m 18.7 ± 0.08s, SD1.25 / 86
9.67 N ± 1.05km, 126.52 E ± 1.53km, h75 ± 0.50km
Mindanao (259)
M_s4.7 / 15, m_b4.8 / 9,

QZH	17.0	335	eP	20 42 14.0	1.3		
			LN		M _s = 4.7	16.0	1.33
			LE			18.0	1.82
GZH	18.4	318	eP	20 42 29.0	-0.8		
			eS	20 45 50.0	1.2		
			LN		M _s = 4.5	14.0	0.80
			LE			14.0	0.80
			LZ		M _s = 4.6	16.0	2.00
QZN	18.6	302	eP	20 42 32.4	-0.6		
			PP	20 42 49.0	-2.0		
			eS	20 45 51.0	-4.1		
			SS	20 46 20.0	-1.4		
			LN		M _s = 4.7	14.0	1.73
SSE	21.9	348	P	20 43 06.5	-0.6		
			PMZ		m _b = 4.9	1.5	0.083
			pP	20 43 19.0	-4.4		
			sS	20 47 24.0	-2.7		
			LZ		M _s = 4.1	20.0	0.75
NJ2	23.4	343	+P	20 43 23.0	1.4		
			LZ		M _s = 4.4	20.0	1.16
WHN	23.7	333	+P	20 43 25.0	0.6		
			PMZ		m _b = 4.9	0.8	0.040
			sP	20 43 48.0	-2.5		
			LZ		M _s = 4.3	18.0	0.97
GYA	25.1	314	P	20 43 39.4	0.6		
			S	20 47 52.0	-3.0		
			LN		M _s = 4.9	14.0	0.90
			LE			14.0	1.20
			LZ		M _s = 4.4	18.0	0.90
KMI	27.3	307	eP	20 44 02.5	3.3		
			LZ		M _s = 4.5	20.0	1.20
TIA	27.8	344	P	20 44 02.6	-0.3		
			S	20 48 43.0	5.0		

		LN	$M_s=4.7$	11.0	0.40
		LE		11.0	0.50
		LZ	$M_s=4.4$	20.0	0.90
XAN	29.1 329	P	20 44 14.2	-1.1	
TIY	30.7 338	eP	20 44 29.0	0.1	
		S	20 49 29.0	4.9	
		LE	$M_s=4.7$	12.0	0.58
		LZ	$M_s=4.7$	15.0	1.18
BJI	31.6 345	eP	20 44 37.0	0.0	
		PMZ	$m_b=4.9$	1.3	0.030
		eS	20 49 40.0	0.3	
		eScP	20 51 03.0	0.6	
		LZ	$M_s=4.3$	18.0	0.59
SNY	32.1 356	eP	20 44 43.2	1.6	
		eS	20 49 51.0	3.2	
		LZ	$M_s=4.6$	18.0	1.06
LZH	33.4 325	eP	20 44 53.0	0.2	
		LZ	$M_s=4.6$	15.0	0.97
HHC	33.8 339	+P	20 44 56.4	0.6	
		LN	$M_s=4.8$	14.0	0.82
		LZ	$M_s=4.6$	18.0	0.97
CN2	34.0 359	eP	20 44 59.3	1.5	
		epP	20 45 19.0	3.7	
		eS	20 50 19.0	2.0	
		LN	$M_s=4.7$	11.0	0.20
		LE		11.0	0.40
		LZ	$M_s=4.5$	16.0	0.70
BTO	34.1 337	eP	20 44 59.5	0.8	
		pP	20 45 19.0	2.9	
		eS	20 50 18.0	-0.7	
		LN	$M_s=4.6$	13.0	0.30
		LE		13.0	0.30
MDJ	34.9 4	eP	20 45 06.5	0.9	
GTA	38.0 326	+P	20 45 31.0	-0.8	
		LE	$M_s=4.6$	13.0	0.43
		LZ	$M_s=4.8$	16.0	1.12
WMQ	47.8 322	eP	20 46 51.2	-0.2	

NOV 12d 22h 20m $05.8 \pm 0.08s$, $SD1.54 / 30$
 $49.32 N \pm 2.81km$, $155.93 E \pm 2.20km$, $h19 \pm 0.74km$
 Kurile Islands (221)
 $m_b 4.5 / 2$,

MDJ	18.5 265	eP	22 24 27.0	3.4	
CN2	21.6 267	eP	22 24 55.8	-1.0	
WHN	36.4 255	eP	22 27 11.5	-0.1	
		pP	22 27 20.0	1.4	
GTA	40.5 278	eP	22 27 46.0	0.4	
GYA	44.1 257	P	22 28 15.6	0.2	
KMI	47.6 260	eP	22 28 43.0	0.0	

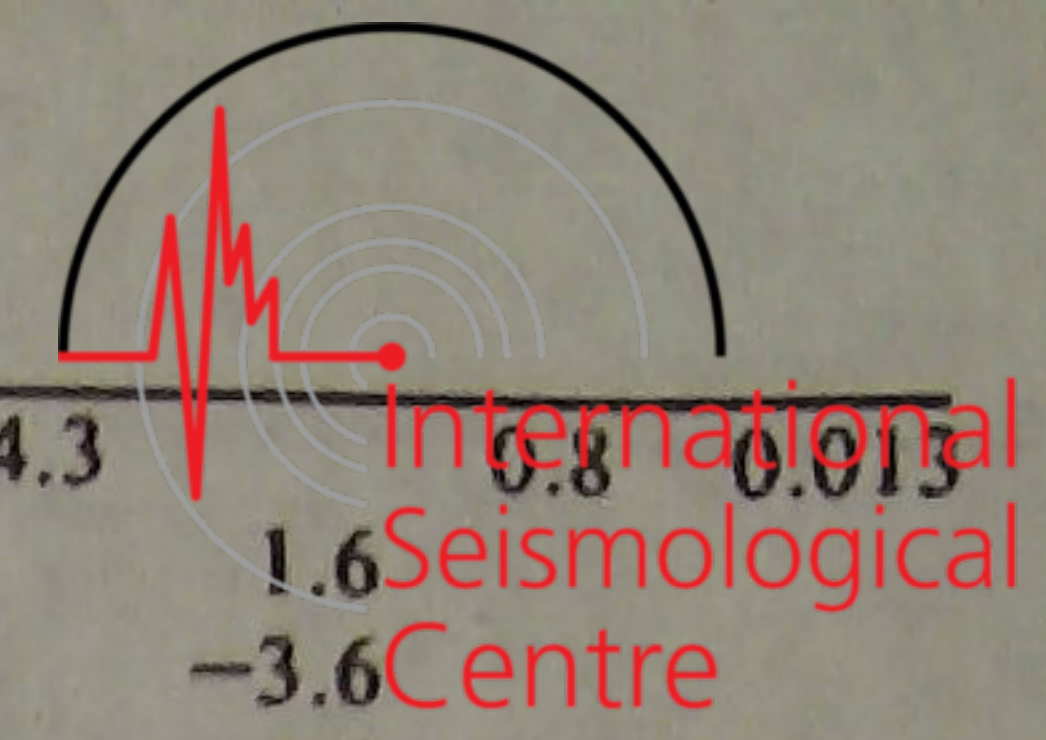
NOV 13d 08h 41m $21.6 \pm 0.11s$, $SD1.31 / 70$
 $51.61 N \pm 3.00km$, $177.35 E \pm 1.59km$, $h33 \pm 0.09km$
 Rat Islands (6)
 $M_s 4.9 / 5$, $m_b 5.4 / 2$, $m_b 5.0 / 10$,

MDJ	32.2 277	eP	08 47 48.0	-0.9	
CN2	35.1 278	eP	08 48 15.0	0.4	
		PMZ	$m_b=4.6$	1.0	0.010
		PMZ	$m_b=5.4$	5.0	0.30
		epP	08 48 24.0	0.2	
		PP	08 49 34.0	0.5	
		eS	08 53 45.0	0.1	
		LN	$M_s=4.7$	14.0	0.40
		LE		14.0	0.40
		LZ	$M_s=4.6$	20.0	1.10
SNY	37.4 277	eP	08 48 33.6	0.2	
		eS	08 54 20.0	0.9	
		LZ	$M_s=4.6$	20.0	0.97
BJI	43.0 279	eP	08 49 20.0	0.2	

		PMZ	$m_b=5.0$		
		ePP	08 51 04.0	1.9	
		eS	08 55 43.0	0.2	
		LZ	$M_s=4.5$	20.0	0.60
TIA	44.7 274	eP	08 49 34.1	-0.1	
HHC	45.3 283	P	08 49 39.6	0.8	
		eS	08 56 16.0	-1.0	
		LZ	$M_s=4.6$	30.0	1.11
BTO	46.4 284	P	08 49 49.0	1.6	
		pP	08 49 58.0	1.4	
		PP	08 51 35.0	-0.8	
		eS	08 56 34.0	1.5	
		LN	$M_s=5.0$	19.0	0.80
		LE		15.0	0.40
NJ2	46.4 269	+P	08 49 48.0	0.6	
		PMZ	$m_b=5.0$	1.0	0.020
		LZ	$M_s=4.4$	18.0	0.42
TIY	46.7 279	-P	08 49 51.0	1.2	
		PP	08 51 44.0	5.1	
		S	08 56 37.0	1.4	
		LZ	$M_s=4.8$	18.0	0.97
WHN	50.2 271	-P	08 50 17.6	0.4	
		PMZ	$m_b=5.3$	1.0	0.040
		pP	08 50 27.5	1.0	
XAN	51.3 278	P	08 50 25.5	0.6	
LZH	53.0 283	-P	08 50 38.5	0.3	
		PMZ	$m_b=5.3$	1.8	0.067
		pP	08 50 49.5	2.1	
		LZ	$M_s=4.9$	19.0	0.95
GTA	53.2 289	-iP	08 50 40.0	0.1	
		S	08 58 08.0	1.7	
		LE	$M_s=4.9$	14.0	0.43
		LZ	$M_s=4.9$	16.0	0.88
CD2	56.6 279	P	08 51 03.8	-0.3	
WMQ	57.2 301	-iP	08 51 08.5	0.1	
		sS	08 59 15.0	-0.8	
		LZ	$M_s=5.2$	20.0	1.80
KMI	61.3 275	-P	08 51 37.0	-0.2	
KSH	66.4 304	eP	08 52 11.5	0.9	

NOV 13d 15h 54m $40.4 \pm 0.07s$, $SD1.01 / 92$
 $4.72 N \pm 1.33km$, $94.50 E \pm 1.10km$, $h55 \pm 0.38km$
 Off west coast of Northern Sumatera (705)
 $M_s 5.1 / 24$, $m_b 5.0 / 11$,

QZN	20.6 45	eP	15 59 18.2	0.1	
		S	16 03 02.0	2.4	
		sS	16 03 17.8	-1.8	
		LE	$M_s=4.9$	16.0	2.70
KMI	21.8 20	-P	15 59 31.0	1.3	
		PMZ	$m_b=5.0$	2.5	0.20
		PP	15 59 59.0	4.2	
		sS	16 03 46.5	4.2	
		LE	$M_s=5.0$	15.0	2.90
		LZ	$M_s=4.5$	20.0	1.60
GYA	24.5 27	P	15 59 57.8	1.2	
		S	16 04 07.0	-2.6	
		sS	16 04 34.0	1.9	
		LN	$M_s=4.9$	13.0	1.10
		LE		13.0	1.20
		LZ	$M_s=4.6$	16.0	1.60
LSA	25.0 353	P	16 00 02.2	0.4	
		S	16 04 25.0	7.0	
CD2	27.5 17	P	16 00 22.4	-1.4	
		eS	16 04 58.0	-0.5	
		sS	16 05 23.0	2.1	
		LE	$M_s=5.1$	13.0	1.94
WHN	31.8 34	eP	16 01 02.0	0.0	
		pP	16 01 12.5	-2.6	



		sP	16 01 19.0	-2.1				PMZ		$m_b = 4.3$				
		LN		$M_s = 5.5$	13.0	3.13		pP	00 48 23.0		1.6			
		LE			13.0	2.51		eP	00 48 30.4		-3.6			
XAN	32.1	23	+iP	16 01 03.9	-1.1			CN2	19.6	1				
		S	16 06 11.0	0.1				GTA	26.2	312				
		LN		$M_s = 5.1$	14.0	1.27		NOV 14d 04h 16m $33.4 \pm 0.10s$, SD2.23 / 34						
		LE			14.0	1.37		35.31 N $\pm 1.59km$, 91.15 E $\pm 1.30km$, $h25 \pm 0.24km$						
LZH	32.4	14	eP	16 01 05.5	-2.0			Qinghai Province (325)						
		PMZ		$m_b = 5.1$	2.0	0.066		$M_s 4.1 / 5$, $M_L 4.2 / 1$,						
		LE		$M_s = 4.8$	13.0	0.87	LSA	5.6	180	eP	04 18 00.8		2.9	
		LZ		$M_s = 4.6$	18.0	1.20		sP	04 18 12.8				5.2	
GTA	34.9	7	+iP	16 01 28.0	-0.9			LE		$M_g = 4.1$		5.0	1.10	
		LZ		$M_s = 4.3$	20.0	0.60	GTA	8.0	57	eP	04 18 32.8		1.2	
NJ2	35.5	37	+P	16 01 34.0	-0.1			LN		$M_g = 4.2$		9.0	1.48	
		LZ		$M_s = 5.3$	14.0	3.56		LZ		$M_g = 4.4$		8.0	2.12	
SSE	36.3	41	eP	16 01 41.0	0.1		LZH	10.4	82	P	04 19 00.0		-3.9	
		PcS	16 07 52.0	1.3				LE		$M_g = 4.0$		10.0	0.64	
		LE		$M_s = 5.2$	12.0	1.58		LZ		$M_g = 4.0$		8.0	0.53	
		LZ		$M_s = 5.0$	16.0	2.22	GYA	16.0	119	P	04 20 17.0		-1.4	
TIY	36.7	24	eP	16 01 45.0	0.6			pP	04 20 29.0		4.4			
		eS	16 07 22.0	-1.1			TIY	17.3	76	eP	04 20 32.0		-3.0	
		LN		$M_s = 5.4$	15.0	2.52		LZ		$M_g = 4.0$		18.0	0.73	
		LE			15.0	2.06	BJI	20.3	69	eP	04 21 10.0		-0.9	
		LZ		$M_s = 5.3$	16.0	4.04		esS	04 25 03.0		-0.6			
TIA	37.6	31	eP	16 01 52.0	0.0			LZ		$M_g = 4.0$		10.0	0.32	
		LN		$M_s = 5.1$	14.0	1.00	NJ2	23.3	90	eP	04 21 41.0		0.8	
		LE			14.0	0.70	NOV 14d 05h 38m $55.4 \pm 0.08s$, SD1.27 / 76							
BTO	38.3	19	eP	16 01 57.0	-1.2		5.14 S $\pm 1.88km$, 102.63 E $\pm 1.79km$, $h48 \pm 0.89km$							
		sP	16 02 15.0	-2.4			Southern Sumatera (274)							
		eS	16 07 47.0	-1.3			$M_s 5.0 / 11$, $m_b 5.5 / 2$, $m_b 5.3 / 7$,							
		LN		$M_s = 5.1$	15.0	1.20	QZN	25.0	16	eP	05 44 17.0		0.0	
		LE			15.0	0.50		eS	05 48 37.0		1.9			
KSH	38.5	337	eP	16 02 00.0	0.5			LN		$M_s = 5.0$		15.0	2.02	
HHC	39.1	21	-P	16 02 05.0	0.5		KMI	30.1	0	+P	05 45 03.5		0.5	
		LN		$M_s = 4.8$	14.0	0.33		sP	05 45 16.0		-4.0			
		LE			12.0	0.51	GYA	31.7	7	P	05 45 16.6		-0.2	
		LZ		$M_s = 4.8$	22.0	1.59		pP	05 45 26.0		-2.5			
WMQ	39.4	352	+iP	16 02 07.5	0.6			S	05 50 23.2		2.9			
		S	16 08 07.4	4.5			CD2	35.9	2	eP	05 45 51.7		-1.3	
		LZ		$M_s = 4.2$	20.0	0.36		S	05 51 26.0		0.5			
BJI	40.2	26	eP	16 02 14.5	0.8			LZ		$M_s = 4.8$		20.0	1.76	
		PMZ		$m_b = 5.3$	1.5	0.066	LSA	36.4	343	eP	05 45 58.2		0.6	
		eS	16 08 19.0	2.6				pP	05 46 07.2		-1.9			
		esS	16 08 42.0	2.5				S	05 51 35.0		1.9			
		LE		$M_s = 4.7$	13.0	0.43		SME				3.0	0.20	
		LZ		$M_s = 4.8$	16.0	1.17	WHN	37.2	17	eP	05 46 05.0		0.7	
DL2	42.0	32	eP	16 02 30.0	1.8			sP	05 46 18.5		-3.2			
SNY	45.1	31	eP	16 02 51.4	-2.3			sS	05 52 04.0		-3.9			
		LN		$M_s = 5.1$	18.0	1.18		LZ		$M_s = 4.7$		20.0	1.38	
		LZ		$M_s = 5.0$	20.0	1.69	XAN	39.4	8	P	05 46 22.0		-0.8	
CN2	47.5	30	+P	16 03 11.9	-0.6		NJ2	40.1	22	eP	05 46 28.0		-0.2	
		PMZ		$m_b = 5.0$	0.5	0.010		LZ		$M_s = 4.7$		22.0	1.32	
		pP	16 03 24.0	-2.1			LZH	41.0	1	+P	05 46 35.5		-0.7	
		eS	16 10 03.0	0.8				PMZ		$m_b = 5.0$		1.5	0.039	
		LN		$M_s = 5.2$	14.0	0.70		pP	05 46 48.0		-0.1			
		LE			14.0	0.80	TIY	43.6	11	+P	05 46 57.0		-0.2	
		LZ		$M_s = 4.9$	16.0	1.00		S	05 53 23.0		1.5			
NOV 14d 00h 44m $06.9 \pm 0.09s$, SD2.39 / 19														
24.13 N $\pm 2.63km$, 125.10 E $\pm 2.20km$, $h53 \pm 1.32km$														
South-western Ryukyu Islands (246)														
$M_s 4.2 / 1$, $m_b 4.3 / 1$,														
TIY	17.3	324	eP	00 48 10.8	3.8			LN		$M_s = 5.3$		15.0	1.72	
		LN		$M_s = 4.2$	11.0	0.46		LZ		$M_s = 5.2$		16.0	2.38	
		LZ		$M_s = 4.1$	14.0	0.71	GTA	44.4	357	eP	05 47 03.6		-0.1	
BJI	17.6	337	eP	00 48 06.0	-3.6			LN		$M_s = 5.0$		15.0	0.81	
		LZ		$M_s = 3.6$	20.0	0.30	BTO	46.0	8	P	05 47 15.5		-1.1	
SNY	17.7	356	-P	00 48 10.5	-0.9			sP	05 47 30.0		-3.9			
								eS	05 53 57.0		-0.5			
								LN		$M_s = 5.3$		15.0	1.60	

HHC	46.5	9	LE		13.0	0.30			PKP2	06 29 34.0	-0.1		
			eP	05 47 20.2	-0.1				PP	06 33 30.0	2.5		
			sP	05 47 35.0	-2.6				PKP	06 28 02.0	0.5		
			sS	05 54 28.0	3.0								
			LN	$M_s=5.3$		18.0	2.10						
			LZ	$M_s=4.7$		20.0	0.80						
BJI	46.7	14	eP	05 47 20.5	-0.9								
			PMZ	$m_b=4.8$		1.5	0.020						
			esP	05 47 34.0	-4.9								
			eS	05 54 06.0	-0.3								
			esS	05 54 23.0	-4.3								
			LN	$M_s=5.0$		14.0	0.77						
			LZ	$M_s=5.2$		18.0	2.35						
WMQ	50.6	346	+iP	05 47 51.7	-0.1								
			pP	05 48 04.7	0.8								
			S	05 55 02.5	2.6								
			sS	05 55 27.0	4.8								
			LZ	$M_s=4.5$		22.0	0.52						
KSH	50.8	333	eP	05 47 53.9	0.1								
			eS	05 55 07.0	2.2								
CN2	52.9	21	eP	05 48 08.0	-1.2								
			PMZ	$m_b=5.3$		1.0	0.040						
			PMZ	$m_b=5.1$		4.0	0.10						
			pP	05 48 19.0	-2.6								
			eS	05 55 34.0	1.0								
			LN	$M_s=4.9$		11.0	0.30						
			LE			11.0	0.30						
			LZ	$M_s=4.9$		16.0	1.00						
MDJ	55.1	23	eP	05 48 24.0	-1.7								
<p>NOV 14d 05h 49m $03.8 \pm 0.07s$, SD1.63 / 48 39.47 N $\pm 2.10km$, 143.67 E $\pm 2.67km$, h30 $\pm 1.37km$ Off east coast of Honshu (229) $M_s 4.0 / 1$, $m_b 4.5 / 7$,</p>													
MDJ	11.7	301	eP	05 51 50.0	-1.3								
			S	05 53 58.0	-3.1								
			LZ	$M_s=4.1$		16.0	1.22						
CN2	14.3	293	eP	05 52 26.0	-0.3								
BJI	21.1	280	eP	05 53 46.5	-2.1								
			PMZ	$m_b=4.5$		1.2	0.026						
TIA	21.2	270	eP	05 53 49.1	-0.2								
NJ2	21.4	257	eP	05 53 50.0	-1.5								
TIY	24.4	276	eP	05 54 23.5	2.3								
HHC	24.5	284	eP	05 54 22.4	0.3								
WHN	25.5	259	eP	05 54 32.5	0.8								
			PMZ	$m_b=5.3$		1.2	0.10						
			pP	05 54 43.0	2.8								
BTO	25.7	283	eP	05 54 35.0	1.5								
LZH	31.5	277	P	05 55 25.0	-0.7								
			PMZ	$m_b=5.2$		2.5	0.094						
			LZ	$M_s=4.5$		20.0	1.08						
GYA	33.4	258	P	05 55 42.4	0.0								
GTA	33.6	284	+iP	05 55 45.3	1.1								
WMQ	41.4	295	P	05 56 51.6	2.2								
<p>NOV 14d 06h 07m $52.5 \pm 0.21s$, SD1.61 / 35 27.45 S $\pm 1.55km$, 70.92 W $\pm 2.96km$, h27 $\pm 1.34km$ Near coast of Northern Chile (122)</p>													
WMQ	156.3	41	PKP	06 27 46.0	0.5								
GTA	165.8	31	PKP	06 27 56.6	0.6								
BJI	166.1	337	ePKP	06 27 56.0	-0.1								
TIA	168.9	324	ePKP	06 27 58.7	0.9								
TIY	169.4	345	PKP	06 27 58.6	0.4								
			LZ	$M_s=5.7$		20.0	1.04						
LZH	170.3	26	-PKP	06 27 59.8	0.9								
XAN	173.4	1	PKP	06 28 02.0	1.6								
CD2	174.2	52	ePKP	06 28 01.6	1.0								
WHN	174.4	305	PKP	06 28 02.0	1.4								
GYA	177.6	114											
<p>NOV 14d 08h 54m $54.7 \pm 0.16s$, SD1.11 / 12 24.47 N $\pm 0.56km$, 122.01 E $\pm 0.84km$, h36 $\pm 0.82km$ Taiwan (244) $M_L 3.8 / 9$,</p>													
QZH	3.1	279	P	08 55 43.0	0.0								
			S	08 56 16.0	-3.4								
			SMN	$M_L=3.7$		1.2	0.37						
			SME			1.2	0.23						
SSE	6.6	354	eP	08 56 31.3	-1.2								
			SMN	$M_L=3.3$		1.2	0.021						
			SME			1.0	0.0090						
<p>NOV 14d 14h 32m $02.3 \pm 0.14s$, SD1.65 / 98 9.25 S $\pm 2.24km$, 124.79 E $\pm 2.27km$, h32 $\pm 0.27km$ Timor (289) $M_s 5.5 / 29$, $m_b 5.8 / 9$, $m_b 5.6 / 22$,</p>													
QZN	31.7	332	eP	14 38 26.2	0.3								
			eS	14 43 31.0	-1.6								
			SS	14 45 19.0	-4.0								
			LE	$M_s=5.4$		16.0	4.43						
GZH	34.0	341	eP	14 38 46.6	0.7								
			S	14 44 07.0	-0.6								
			LZ	$M_s=5.4$		11.0	3.50						
QZH	34.5	350	eP	14 38 50.0	0.0								
			S	14 44 15.0	-0.1								
			sS	14 44 34.0	3.1								
			LZ	$M_s=5.1$		20.0	3.12						
GYA	39.6	334	+P	14 39 33.6	0.5								
			PcP	14 41 44.6	4.8								
			ScP	14 45 24.6	-0.1								
			S	14 45 36.4	3.2								
			ScS	14 49 41.0	5.3								
			LN	$M_s=5.6$		17.0	2.70						
			LE			17.0	3.50						
			LZ	$M_s=5.1$		22.0	2.90						
KMI	40.4	328	-P	14 39 41.5	2.1								
			PMZ	$m_b=5.6$		2.0	0.20						
			pP	14 39 51.5	3.2								
			PP	14 41 13.0	-3.1								
			S	14 45 44.0	-0.2								
			sS	14 46 04.5	4.3								
			LN	$M_s=5.5$		14.0	2.60						
			LE			13.0	1.70						
			LZ	$M_s=5.7$		18.0	10.0						
WHN	40.8	346	P	14 39 44.2	1.3								
			PMZ	$m_b=5.4$		1.0	0.060						
			sP	14 39 58.0	2.0								
			PcS	14 45 36.0	2.9								
			S	14 45 52.0	1.1								
			LN	$M_s=5.5$		16.0	2.48						
			LE			16.0	1.90						
			LZ	$M_s=5.0$		30.0	3.17						
NJ2	41.5	352	+P	14 39 48.5	0.3								
			S	14 46 00.0	-0.5								
			LZ	$M_s=4.8$		25.0	1.80						
CD2	44.7	334	eP	14 40 14.2	-0.7								
			S	14 46 45.0	-3.4								
			LN	$M_s=5.6$		15.0	3.42						
			LZ	$M_s=5.1$		18.0	2.27						
XAN	45.6	341	P	14 40 20.9	-1.0								
			LN	$M_s=5.4$		14.0	1.37						
			LE			14.0	1.39						
TIA	45.8	351	+P	14 40 21.5	-1.8								
			LZ	$M_s=5.1$		34.0	3.40						



DL2	48.0	357	eP	14 40	39.5	-1.1				KSH	66.4	320	P	14 42	51.2	0.4			
			eS	14 47	32.0	-3.8							eS	14 51	40.0	2.5			
			LZ		$M_s = 5.0$		20.0	1.51					LN		$M_s = 5.8$		18.0	3.10	
TIY	48.1	347	eP	14 40	40.0	-1.7				NOV 14d 15h 29m $58.3 \pm 0.08s$, SD1.02 / 73									
			sS	14 47	47.0	-5.9				7.62 N $\pm 0.91km$, 126.66 E $\pm 1.46km$, h123 $\pm 0.40km$									
			LN		$M_s = 5.3$		17.0	1.93		Mindanao									
			LZ		$M_s = 5.3$		12.0	1.93		(259)									
LZH	49.2	338	eP	14 40	49.5	-0.8				$m_b 5.1 / 10,$									
			PMZ		$m_b = 5.2$		1.0	0.033		QZN	19.9	306	P	15 34	21.5		-0.9		
			PMZ		$m_b = 5.9$		4.0	0.68					S	15 37	59.5		5.6		
			pP	14 40	55.5	-3.8				NJ2	25.4	344	-P	15 35	16.2		0.2		
			PP	14 42	44.5	0.9				WHN	25.6	335	eP	15 35	18.0		0.3		
			S	14 47	58.0	6.1				GYA	26.7	317	P	15 35	29.4		1.1		
			SS	14 51	24.0	4.8				KMI	28.7	310	+P	15 35	47.5		0.8		
			LN		$M_s = 5.5$		15.0	1.74					PMZ		$m_b = 5.6$		1.5	0.20	
			LE				16.0	1.62		XAN	31.0	331	P	15 36	06.7		0.2		
BJI	49.7	351	eP	14 40	52.0	-1.6				CD2	31.5	320	eP	15 36	11.0		-0.6		
			PMZ		$m_b = 5.9$		1.5	0.26		TIY	32.6	339	eP	15 36	20.4		-0.4		
			PMZ		$m_b = 5.8$		4.0	0.57		BJI	33.6	345	eP	15 36	28.5		-0.9		
			ePP	14 42	48.0	-0.3							PMZ		$m_b = 5.1$		1.0	0.036	
			eScP	14 46	06.0	0.3				SNY	34.2	356	+P	15 36	34.3		0.2		
			eS	14 47	54.0	-5.4							PMZ		$m_b = 5.6$		1.2	0.11	
			LN		$M_s = 5.1$		15.0	1.02		LZH	35.2	327	+P	15 36	43.0		0.2		
			LZ		$M_s = 5.2$		28.0	3.45					PMZ		$m_b = 5.1$		2.0	0.070	
LSA	50.5	321	P	14 41	01.4	1.2				HHC	35.7	340	+P	15 36	47.4		0.0		
			pP	14 41	10.5	1.6				BTO	36.0	338	eP	15 36	48.8		-1.3		
			S	14 48	11.0	1.6				CN2	36.1	359	eP	15 36	50.0		-0.1		
			SME		$m_b = 5.8$		5.0	0.70		MDJ	36.9	3	eP	15 36	58.5		0.9		
SNY	50.8	359	-P	14 41	00.0	-2.4				GTA	39.8	327	+iP	15 37	22.0		0.7		
			PMZ		$m_b = 5.9$		1.2	0.19		LSA	39.9	308	P	15 37	24.0		1.3		
			PMZ		$m_b = 5.7$		8.0	0.85		WMQ	49.5	323	+P	15 38	39.2		0.1		
			S	14 48	12.0	-2.2				KSH	55.3	313	eP	15 39	22.8		0.5		
			SMN		$m_b = 5.6$		8.0	0.59		NOV 14d 17h 39m $33.6 \pm 0.10s$, SD1.40 / 95									
			LZ		$M_s = 5.2$		24.0	2.77		10.13 N $\pm 1.46km$, 126.46 E $\pm 1.73km$, h32 $\pm 0.07km$									
HHC	51.3	347	eP	14 41	04.8	-1.4				Mindanao									
			pP	14 41	13.5	-1.8				$M_s 5.0 / 30, m_b 5.6 / 5, m_b 4.9 / 9,$									
			PP	14 43	01.0	-2.2				QZH	16.5	334	eP	17 43	25.0		0.4		
			S	14 48	19.5	-1.4							PMZ		$m_b = 5.6$		5.0	1.52	
			LN		$M_s = 5.6$		20.0	3.64					LZ		$M_s = 4.5$		18.0	2.54	
BTO	51.4	346	-iP	14 41	11.0	3.9				GZH	18.0	317	P	17 43	45.0		2.1		
			pP	14 41	21.0	4.8							LN		$M_s = 5.0$		16.0	1.60	
			PP	14 43	08.0	3.8							LE				18.0	4.10	
			eS	14 48	25.0	1.1							LZ		$M_s = 4.8$		18.0	4.10	
			LN		$M_s = 5.3$		16.0	1.10		QZN	18.3	301	P	17 43	48.0		0.6		
			LE				16.0	1.10					S	17 47	10.0		2.7		
CN2	52.8	1	+P	14 41	15.0	-2.2							LN		$M_s = 4.9$		16.5	3.37	
			PMZ		$m_b = 5.8$		1.2	0.15		SSE	21.4	348	+P	17 44	22.7		1.5		
			PMZ		$m_b = 5.8$		5.0	0.60					PMZ		$m_b = 5.2$		1.0	0.11	
			pP	14 41	25.0	-1.4							sS	17 48	27.0		0.7		
			eS	14 48	39.0	-3.3							LN		$M_s = 4.9$		10.0	1.02	
			LN		$M_s = 5.3$		14.0	1.00					LE				11.0	1.19	
			LE				14.0	0.50					LZ		$M_s = 4.4$		20.0	1.39	
			LZ		$M_s = 5.3$		20.0	2.80		NJ2	22.9	343	-P	17 44	37.8		1.7		
GTA	53.7	336	eP	14 41	23.0	-0.9							PMZ		$m_b = 4.9$		1.0	0.050	
			S	14 48	54.0	0.8							sS	17 48	50.0		-4.1		
			SS	14 52	40.0	6.9							LZ		$M_s = 4.6$		12.0	1.22	
			LE		$M_s = 5.7$		18.0	3.45		WHN	23.2	333	eP	17 44	40.5		1.4		
			LZ		$M_s = 5.2$		18.0	2.11					pP	17 44	47.8		0.0		
MDJ	53.8	4	eP	14 41	22.8	-1.7							S	17 48	46.0		1.5		
			PMZ		$m_b = 6.3$		1.4	0.52					SMN		$m_b = 6.0$		10.0	5.07	
			sP	14 41	36.0	-1.7							LN		$M_s = 5.1$		11.0	0.92	
			S	14 48	54.0	-0.6							LE				14.0	2.61	
			LZ		$M_s = 5.3$		25.0	3.32					LZ		$M_s = 4.2$		13.0	0.56	
WMQ	62.6	331	-iP	14 42	25.4	-1.1				GYA	24.8	314	P	17 44	55.4		1.2		
			PMZ				3.0	1.04					sP	17 45	08.4		1.5		
			PcP	14 43	02.0	-2.2							LN		$M_s = 5.2$		16.0	2.50	
			S	14 50	50.6	0.8							LE				16.0	2.80	
			LZ		$M_s = 5.4$		23.0	3.11											



KMI	27.0 307	LZ	$M_s=4.8$	18.0	2.30	KSH	53.5 312	S	17 55 01.5	3.5	West Irian (201)		
		eP	17 45 16.5	1.3	ScS			17 58 00.0	4.6				
		S	17 49 53.0	5.0	LZ			$M_s=4.8$	20.0				
		LE	$M_s=4.9$	13.0	eP			17 48 50.9	-2.9				
TIA	27.3 343	LZ	$M_s=4.7$	15.0	1.50	NOV 15d 07h 46m $52.2 \pm 0.09s$, SD1.28 / 48 $3.05 S \pm 1.09km$, $139.54 E \pm 1.46km$, $h33 \pm 0.23km$							
		eP	17 45 17.9	0.2	West Irian (201)								
		eS	17 49 55.5	1.8	$m_b 5.0 / 3$								
XAN	28.7 329	+P	17 45 29.6	-0.9	10.0 0.86	SSE	38.2 334	eP	07 54 10.5	-0.4	10.0 0.87		
		LN	$M_s=5.0$	10.0		GYA	43.2 315	P	07 54 54.6	1.8			
DL2	29.0 352	eP	17 45 36.0	3.3	16.0 1.08	XAN	46.8 325	P	07 55 22.0	0.7	16.0 1.08		
		eS	17 50 22.0	1.6		BJI	47.9 336	eP	07 55 30.5	0.5			
CD2	29.5 318	LZ	$M_s=4.6$	16.0	12.0 1.62	MDJ	48.3 350	eP	07 55 31.8	-0.8	12.0 1.62		
		eP	17 45 36.2	-1.5		CN2	48.3 346	eP	07 55 32.6	-0.4			
TIY	30.2 338	eS	17 50 31.0	1.5	16.0 2.23	GTA	55.8 323	P	07 56 29.4	0.0	16.0 2.23		
		LE	$M_s=5.1$	12.0		WMQ	65.8 321	-P	07 57 36.8	-0.1			
		LZ	$M_s=4.9$	16.0		NOV 15d 13h 17m $55.3 \pm 0.08s$, SD1.37 / 52 $29.26 N \pm 1.52km$, $141.35 E \pm 1.65km$, $h36 \pm 0.49km$							
BJI	31.2 345	P	17 45 52.0	-0.1	10.0 0.63	Bonin Islands region (212)							
		eS	17 50 56.0	1.2		$M_s 4.2 / 1$, $m_b 4.8 / 9$							
		eScP	17 52 29.0	3.7		SSE	17.5 281	P	13 22 00.4	1.6	12.0 0.48		
		LE	$M_s=4.8$	10.0		eS			13 25 12.0	1.2			
LZ	$M_s=4.5$	18.0	LE			$M_s=4.2$	12.0	0.48					
-P	17 45 56.6	0.0	MDJ	17.9 332	eP	13 22 05.5	1.4						
SNY	31.7 356	PMZ	$m_b=4.9$	1.0	0.019	CN2	19.3 323	eP	13 22 19.5	-0.6	1.0 0.054		
		S	17 51 04.0	1.9	NJ2	19.5 284	-P	13 22 24.0	1.0				
LZH	33.0 325	LZ	$M_s=4.7$	22.0	1.56	QZH	20.7 263	+P	13 22 36.8	1.6	1.0 0.070		
		+P	17 46 07.5	-0.9	BJI	23.3 304	eP	13 23 01.0	0.2				
		PMZ	$m_b=5.2$	1.0	0.038	WHN	23.4 280	-P	13 23 03.5	1.1			
		PMZ	$m_b=5.1$	12.0	0.37	PMZ			$m_b=5.0$	1.0		0.070	
HHC	33.3 339	eS	17 51 23.0	-1.0	13.0 1.13	TIY	25.5 297	eP	13 23 22.2	0.0	24.0 0.54		
		LN	$M_s=5.2$	13.0		eS			13 27 44.5	-0.3			
		LE		16.0		1.74	LZ			$M_s=4.0$		24.0	0.54
		LZ	$M_s=5.1$	16.0		3.32	XAN	27.9 288	P	13 23 43.6		-1.4	
CN2	33.6 359	eP	17 46 15.5	2.5	12.0 0.40	GYA	30.7 273	P	13 24 09.2	-0.6	12.0 0.40		
		PMZ	$m_b=4.6$	1.0		0.010	CD2	32.5 282	P	13 24 23.4		-1.7	
		pP	17 46 25.0	2.9		12.0 1.10	KMI	34.5 272	-P	13 24 42.0		-0.6	
		eS	17 51 33.0	0.6			GTA	35.5 298	eP	13 24 48.8		-2.4	
BTO	33.7 337	eSS	17 53 34.0	-2.4	15.0 1.00	WMQ	44.7 304	eP	13 26 07.0	-0.5	15.0 1.00		
		LN	$M_s=5.0$	12.0		NOV 15d 18h 31m $44.1 \pm 0.08s$, SD1.56 / 62 $39.92 N \pm 2.06km$, $142.95 E \pm 2.13km$, $h28 \pm 0.90km$							
		LE		12.0		Near east coast of Honshu (228)							
		LZ	$M_s=4.7$	15.0		$M_s 4.5 / 3$, $m_b 4.9 / 10$							
MDJ	34.5 4	P	17 46 13.0	-1.0	16.0 1.10	MDJ	10.9 300	eP	18 34 24.5	2.2	17.0 1.10		
		pP	17 46 22.5	-0.5		CN2	13.6 292	eP	18 34 56.0	-1.9			
		S	17 51 32.0	-1.0		SNY	14.8 284	eP	18 35 08.2	-5.1			
		SS	17 53 37.0	-1.8		BJI	20.5 279	eP	18 36 21.0	-1.8			
GTA	37.6 325	LN	$M_s=5.0$	16.0	1.10	LZ			$M_s=4.1$	17.0	1.10		
		LE		14.0	0.70	LZ			$M_s=4.0$	20.0	0.60		
		eP	17 46 21.5	0.6	TIY	23.8 275	eP	18 36 55.0	-1.1				
		pP	17 46 27.5	-2.5	TIA	20.6 268	+P	18 36 23.3	-1.1				
LSA	38.3 306	S	17 51 49.5	3.9	16.0 1.53	NJ2	21.0 256	+P	18 36 27.0	-0.9	16.0 1.53		
		LZ	$M_s=4.8$	16.0		LZ			$M_s=3.8$	18.0		0.30	
		+iP	17 46 47.4	-0.2		WHN	25.1 257	-P	18 37 09.5	1.3			
		ScP	17 52 51.4	3.3		BTO	25.1 282	eP	18 37 09.7	1.5			
WMQ	47.4 322	S	17 52 36.0	2.2	15.0 1.67	XAN	27.7 269	P	18 37 32.4	-0.1	15.0 1.67		
		LE	$M_s=5.2$	15.0		LZH	30.9 275	P	18 38 02.0	0.9			
WMQ	47.4 322	LZ	$M_s=5.2$	16.0	2.82	PMZ			$m_b=4.8$	1.6	0.027		
		P	17 46 52.8	-0.6	CD2	33.0 267	eP	18 38 18.6	-0.6				
WMQ	47.4 322	eP	17 48 07.6	0.0	16.0 2.82	GYA	33.0 257	+P	18 38 19.6	0.3	16.0 2.82		
						pP			18 38 28.6	1.2			

<p>NOV 16d 06h 52m 24.6 ± 0.09s, SD1.29 / 26 6.03 S ± 0.98km, 122.77 E ± 1.31km, h32 ± 0.32km Flores Sea m_b4.9 / 1,</p>				
GTA	33.0	283	sP	18 38 33.0 2.0
			P	18 38 20.0 0.7
			LE	M _S = 4.5 15.0 0.50
			LZ	M _S = 4.5 18.0 0.84
KMI	36.7	259	+P	18 38 51.5 0.6
			PMZ	m _b = 5.4 1.5 0.10
			pP	18 39 01.5 2.6
			sP	18 39 04.5 1.9
WMQ	40.7	294	+iP	18 39 25.0 0.6
KSH	50.4	292	eP	18 40 43.6 1.7
<p>NOV 15d 19h 19m 55.8 ± 0.13s, SD1.54 / 34 52.17 S ± 2.35km, 160.67 E ± 5.91km, h10 ± km Macquarie Island region M_S5.4 / 1, m_b5.6 / 2, (167)</p>				
SSE	89.8	327	P	19 32 57.2 0.2
			PMZ	m _b = 5.8 1.5 0.092
			S	19 43 51.0 5.1
			LZ	M _S = 4.9 20.0 0.47
GYA	91.4	313	P	19 33 07.0 2.5
NJ2	91.5	326	+P	19 33 05.0 0.2
			eS	19 44 00.0 -2.5
			LZ	M _S = 5.2 22.0 0.88
WHN	91.8	321	eP	19 33 05.0 -1.1
KMI	92.1	310	eP	19 33 08.5 0.8
			LZ	M _S = 5.4 35.0 2.60
XAN	97.0	319	P	19 33 28.7 -1.4
TIY	98.9	323	eP	19 33 38.4 -0.2
			S	19 45 07.0 3.0
			LN	M _S = 5.4 14.0 0.58
			LZ	M _S = 5.4 25.0 1.52
CN2	100.3	335	eP	19 33 45.5 0.5
WMQ	114.4	311	PKP	19 38 35.3 -1.8
<p>NOV 16d 01h 40m 43.4 ± 0.12s, SD1.91 / 21 25.97 N ± 1.81km, 130.86 E ± 2.02km, h38 ± 0.47km Ryukyu Islands region M_S4.1 / 1, (239)</p>				
BJI	18.6	322	eP	01 45 01.0 0.7
TIY	19.5	311	eP	01 45 14.0 3.5
			LE	M _S = 4.1 15.0 0.46
			LZ	M _S = 4.1 20.0 0.75
XAN	20.6	298	eP	01 45 20.0 -2.2
BTO	22.6	315	eP	01 45 44.0 1.2
GTA	29.2	305	+P	01 46 42.0 -2.2
<p>NOV 16d 04h 02m 58.8 ± 0.10s, SD1.58 / 30 33.30 N ± 1.30km, 131.60 E ± 1.29km, h35 ± 0.27km Kyushu M_S4.1 / 5, (235)</p>				
SNY	10.6	326	-iP	04 05 32.7 0.9
			LN	M _S = 4.3 12.0 0.93
			LE	10.0 1.05
NJ2	10.8	267	eP	04 05 37.0 2.6
			S	04 07 38.5 3.6
			LZ	M _S = 3.9 12.0 0.61
CN2	11.5	337	eP	04 05 43.6 -0.5
			pP	04 05 50.0 -1.2
			eS	04 07 53.0 0.3
			LN	M _S = 4.1 10.0 0.30
			LE	10.0 0.70
			LZ	M _S = 3.9 10.0 0.50
BJI	14.1	303	eP	04 06 15.0 -3.0
			esP	04 06 29.0 -1.5
			LZ	M _S = 3.6 15.0 0.29
WHN	14.9	264	eP	04 06 30.0 1.1
GTA	26.2	293	eP	04 08 31.2 -1.6
<p>NOV 16d 08h 32m 36.0 ± 0.14s, SD1.81 / 53 39.91 N ± 1.40km, 77.31 E ± 1.40km, h24 ± 0.26km Southern Xinjiang Province M_S4.5 / 4, M_L4.8 / 5, m_b4.7 / 3, (321)</p>				
KSH	1.1	250	-iPg	08 32 58.0 1.3
			Sg	08 33 16.0 3.7
			LN	4.0 21.8
WMQ	8.7	60	iP	08 34 42.8 -0.6
			S	08 36 23.0 1.9
			SMN	M _L = 4.9 1.2 0.22
			SME	1.4 0.26
GTA	17.3	84	eP	08 36 35.8 -2.6
			LE	M _S = 4.4 9.0 0.65
			LZ	M _S = 4.3 10.0 0.70
LZH	21.2	92	eP	08 37 22.5 -0.4
			PMZ	m _b = 4.7 1.5 0.050
			LE	M _S = 4.2 10.0 0.32
			LZ	M _S = 4.0 12.0 0.36
CD2	23.3	104	eP	08 37 45.5 2.3
BTO	24.9	78	eP	08 38 01.0 2.1
XAN	25.8	93	P	08 38 08.2 0.4
HHC	26.0	77	P	08 38 11.6 2.1
TIY	27.4	83	eP	08 38 22.4 0.7
GYA	27.9	110	P	08 38 27.8 1.5
BJI	29.6	77	eP	08 38 42.0 0.0
WHN	31.5	96	eP	08 38 58.5 0.0
NJ2	34.3	90	eP	08 39 24.5 1.7
CN2	35.7	68	eP	08 39 35.0 0.3
SSE	36.5	90	P	08 39 44.5 2.9
			PMZ	m _b = 5.0 1.2 0.034
<p>NOV 16d 08h 39m 42.8 ± 0.10s, SD0.98 / 107 17.67 S ± 1.97km, 178.99 W ± 1.99km, h538 ± 0.48km Fiji region m_B6.0 / 47, m_b5.9 / 29, (181)</p>				
QZH	74.1	303	+iP	08 50 26.0 0.1
			PMZ	m _b = 5.9 0.8 0.35
			PMZ	m _B = 6.3 4.0 3.54
			S	08 59 17.0 2.2
			ScS	08 59 47.0 3.9
SSE	75.2	310	+iP	08 50 31.0 -1.0
			PcP	08 50 45.0 2.6
			S	08 59 28.0 1.5
			LE	14.0 0.70
			LZ	22.0 1.93
NJ2	77.4	310	+iP	08 50 45.0 1.0
			PMZ	m _B = 6.1 4.0 3.60
			sP	08 53 27.0 -4.9
			S	08 59 53.0 3.2
GZH	77.5	299	+iP	08 50 46.0 1.2
			PMZ	m _b = 5.9 1.6 0.97
			PMZ	m _B = 6.0 5.0 3.81
			S	08 59 57.0 5.5
MDJ	77.7	325	+iP	08 50 46.0 0.3
			PMZ	m _b = 5.6 1.2 0.31



GYA	54.6 197	eS	04 22 02.0	2.2		
		LN		$M_s = 5.7$	10.0	1.20
		LE			9.0	1.60
		P	04 14 48.8	-0.3		
		S	04 22 33.0	6.6		
KMI	56.2 201	LN		$M_s = 6.0$	17.0	1.80
		LE			17.0	7.00
		LZ		$M_s = 5.2$	20.0	2.20
		-P	04 14 59.0	-1.4		
		PMZ		$m_b = 5.5$	1.5	0.10
GZH	57.7 190	pP	04 15 03.5	-2.1		
		sP	04 15 09.0	0.7		
		S	04 22 52.0	5.0		
		LN		$M_s = 6.0$	12.0	3.80
		LE			12.0	3.20
QZN	61.9 193	LZ		$M_s = 5.9$	16.0	7.90
		eP	04 15 12.0	0.8		
		LN		$M_s = 6.0$	10.0	2.40
		LE			10.0	2.56
		LZ		$M_s = 5.5$	18.0	3.14
		eP	04 15 43.0	3.2		
		eS	04 24 09.0	6.6		
		LE		$M_s = 5.9$	14.0	3.50

NOV 17d 05h 21m $17.7 \pm 0.08s$, $SD0.95 / 44$
 $18.81 S \pm 1.40km$, $169.27 E \pm 1.54km$, $h223 \pm 0.32km$
 Vanuatu (New Hebrides) (186)
 $m_b 5.2 / 2$,

NJ2	69.9 316	eP	05 32 06.2	-0.9		
WHN	72.1 312	eP	05 32 19.5	-0.6		
CN2	74.1 329	+iP	05 32 31.8	-0.2		
GYA	75.6 305	P	05 32 40.6	0.0		
BJI	76.6 321	eP	05 32 46.0	-0.1		
KMI	78.1 302	+P	05 32 55.5	1.2		
		PMZ		$m_b = 5.6$	1.5	0.20
GTA	86.9 313	-iP	05 33 39.4	0.2		

NOV 17d 08h 00m $50.5 \pm 0.07s$, $SD1.36 / 82$
 $39.57 N \pm 1.72km$, $143.24 E \pm 1.64km$, $h17 \pm 0.62km$
 Near east coast of Honshu (228)
 $M_s 4.7 / 21$, $m_b 4.8 / 16$,

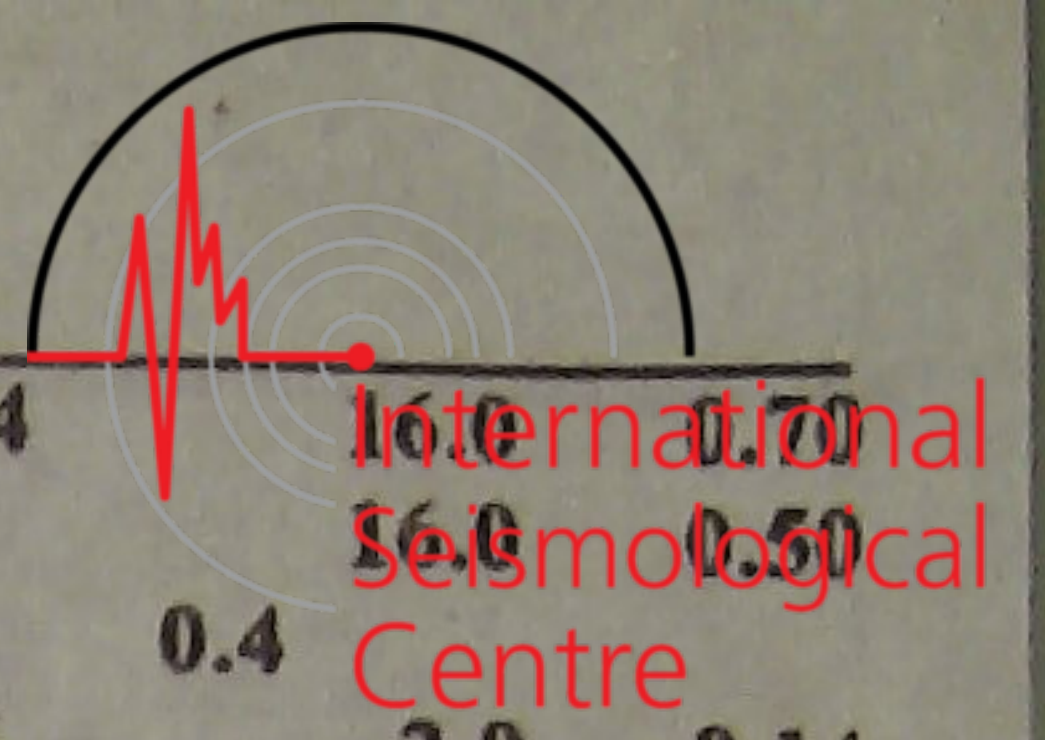
MDJ	11.3 301	eP	08 03 37.5	2.5		
		pP	08 03 41.5	1.0		
		S	08 05 45.0	3.2		
		LE		$M_s = 4.5$	14.0	2.42
		LZ		$M_s = 4.5$	16.0	3.49
CN2	14.0 293	eP	08 04 10.0	-0.1		
		PMZ		$m_b = 4.8$	1.0	0.020
		epP	08 04 15.5	0.1		
		eS	08 06 44.0	-1.8		
		LN		$M_s = 4.4$	13.0	1.20
		LE			13.0	0.60
		LZ		$M_s = 4.4$	16.0	1.80
SNY	15.1 285	+P	08 04 23.0	-2.0		
		PMZ		$m_b = 4.4$	1.2	0.023
		LN		$M_s = 4.6$	16.0	1.15
		LE			16.0	1.62
		LZ		$M_s = 4.6$	17.0	2.82
SSE	19.8 252	-P	08 05 24.4	0.5		
		PMZ		$m_b = 4.7$	1.0	0.035
		sP	08 05 37.0	3.7		
		sS	08 09 12.0	1.8		
		eSS	08 09 28.0	-0.3		
		LN		$M_s = 4.7$	14.0	1.01
		LE			14.0	1.05
		LZ		$M_s = 4.0$	20.0	0.56
BJI	20.8 280	eP	08 05 32.0	-1.7		
		PMZ		$m_b = 4.7$	1.5	0.058

		LE		$M_s = 4.5$	14.0	0.99
		LZ		$M_s = 4.6$	16.0	1.75
TIA	20.9 269	P	08 05 32.7	-1.9		
		LN		$M_s = 4.9$	13.0	0.58
		LE			13.0	2.06
		LZ		$M_s = 4.7$	16.0	2.12
NJ2	21.1 257	-P	08 05 35.6	-1.5		
		LN		$M_s = 4.4$	12.0	0.56
		LE			12.0	0.29
TIY	24.1 275	P	08 06 07.6	1.0		
		sS	08 10 32.0	1.1		
		LN		$M_s = 4.6$	14.0	0.97
		LZ		$M_s = 4.6$	17.0	1.56
HHC	24.2 283	P	08 06 07.0	-0.4		
		LN		$M_s = 4.8$	11.0	0.29
		LE			16.0	1.37
		LZ		$M_s = 4.8$	18.0	2.68
WHN	25.2 258	+P	08 06 18.5	1.0		
		PMZ		$m_b = 5.3$	1.0	0.070
		pP	08 06 23.0	-0.8		
		eS	08 10 39.0	-0.8		
		LN		$M_s = 4.9$	16.0	1.49
		LE			16.0	1.43
		LZ		$M_s = 4.4$	18.0	1.09
BTO	25.4 283	eP	08 06 19.0	0.1		
		pP	08 06 25.0	-0.1		
		PP	08 06 57.0	0.1		
		eS	08 10 40.5	-1.9		
		LN		$M_s = 5.1$	13.0	0.40
		LE			16.0	2.60
XAN	27.9 269	P	08 06 41.3	-1.2		
LZH	31.1 276	eP	08 07 11.5	0.1		
		PMZ		$m_b = 5.2$	1.5	0.066
		pP	08 07 15.7	-1.9		
		LE		$M_s = 4.9$	13.0	1.12
		LZ		$M_s = 4.8$	15.0	1.64
GYA	33.1 258	P	08 07 28.8	0.3		
		pP	08 07 35.0	0.1		
		sP	08 07 37.6	-0.3		
		PP	08 08 38.8	0.1		
		S	08 12 47.0	1.9		
CD2	33.2 267	-iP	08 07 29.0	0.0		
GTA	33.3 284	P	08 07 31.0	1.0		
		LE		$M_s = 4.9$	15.0	1.25
		LZ		$M_s = 4.9$	16.0	2.06
KMI	36.8 259	+P	08 08 00.0	-0.2		
		esS	08 13 54.0	0.0		
WMQ	41.0 295	P	08 08 36.1	0.8		
		eS	08 14 44.0	-3.2		
		LZ		$M_s = 4.5$	15.0	0.48
LSA	43.5 273	eP	08 08 57.8	2.3		

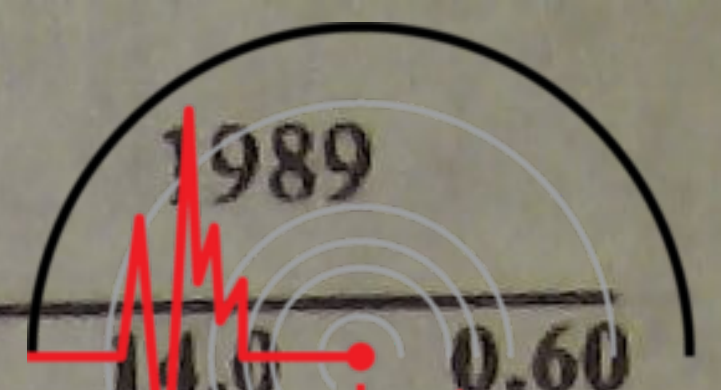
NOV 17d 11h 57m $51.6 \pm 0.10s$, $SD1.97 / 26$
 $39.69 N \pm 1.92km$, $143.39 E \pm 2.27km$, $h18 \pm 0.84km$
 Near east coast of Honshu (228)
 $m_b 3.9 / 1$,

MDJ	11.4 300	eP	12 00 38.5	2.1		
NJ2	21.3 257	eP	12 02 41.0	1.6		
WHN	25.4 258	-P	12 03 20.0	0.4		
		pP	12 03 24.0	-2.1		
LZH	31.2 276	P	12 04 12.0	-1.1		
		LZ		$M_s = 4.0$	15.0	0.24
GYA	33.2 258	P	12 04 30.4	-0.1		
GTA	33.4 284	eP	12 04 31.8	0.3		
WMQ	41.1 295	P	12 05 37.6	1.0		

NOV 17d 15h 35m $57.1 \pm 0.10s$, $SD1.11 / 83$
 $17.35 S \pm 1.42km$, $167.95 E \pm 1.94km$, $h27 \pm 0.26km$



Vanuatu (New Hebrides)				(186)												
$M_s 5.4 / 12, m_b 5.8 / 12, m_b 5.2 / 13,$																
SSE	65.9	317	P	15 46 42.5	-0.6			LZH	80.6	312	+P	15 48 10.0	0.4			
			PMZ	$m_b = 4.9$		1.2	0.017				PMZ	$m_b = 5.6$		2.0	0.14	
			pP	15 46 55.5	3.8						PMZ	$m_b = 5.8$		5.0	0.62	
			S	15 55 24.0	-1.9						pP	15 48 18.0	0.1			
			sS	15 55 41.0	-0.4						sP	15 48 22.0	0.5			
			LN	$M_s = 5.2$		14.0	0.61				PP	15 51 15.0	1.0			
			LZ	$M_s = 5.0$		20.0	0.93				S	15 58 15.0	3.0			
GZH	66.8	305	eP	15 46 48.0	-1.1						sS	15 58 29.0	1.1			
			S	15 55 38.0	0.7						SS	16 03 28.0	0.3			
			LZ	$M_s = 5.1$		22.0	1.46				LE	$M_s = 5.3$		20.0	0.97	
QZN	67.6	300	eP	15 46 54.8	0.8						LZ	$M_s = 5.1$		22.0	0.96	
			eS	15 55 48.0	0.0					GTA	84.9	314	eP	15 48 32.6	0.5	
WHN	70.2	312	-P	15 47 10.5	0.5						S	15 58 56.0	-0.4			
			PMZ	$m_b = 5.5$		1.4	0.090				LZ	$M_s = 5.1$		26.0	1.00	
			PMZ	$m_b = 5.9$		5.0	0.71			LSA	87.5	302	eP	15 48 46.0	1.1	
			pP	15 47 18.0	-0.6						S	15 59 27.0	6.1			
			eS	15 56 19.0	0.2						SME	$m_b = 5.6$		5.0	0.30	
			LZ	$M_s = 5.1$		20.0	1.25			WMQ	95.0	314	-iP	15 49 20.0	0.5	
MDJ	70.9	332	+P	15 47 13.5	-0.9						PP	15 53 10.5	0.6			
			eS	15 56 30.0	2.9						SKS	15 59 50.5	0.0			
			LZ	$M_s = 5.2$		20.0	1.33				LZ	$M_s = 5.4$		22.0	1.27	
TIA	71.7	319	P	15 47 19.1	-0.3					NOV 17d 16h 09m $20.3 \pm 0.11s$, SD1.53 / 44						
SNY	71.7	327	+iP	15 47 19.0	-0.4					$2.86 N \pm 1.40km$, $127.43 E \pm 2.17km$, $h31 \pm 0.21km$						
			PMZ	$m_b = 5.7$		9.0	0.94			Molucca Passage (266)						
			pP	15 47 32.0	4.0					$M_s 5.1 / 2, m_b 4.8 / 7,$						
			S	15 56 32.0	-3.6					WHN	30.2	337	P	16 15 33.5	3.1	
			LZ	$M_s = 5.3$		20.0	1.75			XAN	35.5	333	P	16 16 15.3	-1.4	
CN2	72.2	329	+P	15 47 22.0	-0.3					TIY	37.3	340	eP	16 16 32.4	0.4	
			PMZ	$m_b = 5.0$		1.0	0.020				LZ	$M_s = 4.5$		18.0	0.73	
			PMZ	$m_b = 5.6$		6.0	0.50			BJI	38.4	346	eP	16 16 41.0	0.1	
			pP	15 47 33.0	2.2						PMZ	$m_b = 4.8$		1.0	0.018	
			eS	15 56 41.0	-1.5					SNY	39.0	355	eP	16 16 45.0	-0.6	
			SS	16 01 22.0	1.3					HHC	40.4	341	eP	16 16 59.0	0.9	
			LN	$M_s = 5.1$		13.0	0.30			BTO	40.7	340	eP	16 17 02.0	1.5	
			LE			13.0	0.30			CN2	40.8	358	eP	16 17 01.5	0.5	
			LZ	$M_s = 5.0$		20.0	0.90			MDJ	41.6	2	eP	16 17 07.5	-0.3	
GYA	73.7	305	P	15 47 32.0	0.6					LSA	43.5	312	P	16 17 23.0	-0.9	
			pP	15 47 40.0	0.2					GTA	44.2	329	P	16 17 27.8	-1.1	
			S	15 57 02.0	3.7					WMQ	53.8	325	eP	16 18 44.0	0.9	
			LN	$M_s = 5.6$		18.0	1.30			NOV 17d 19h 12m $56.8 \pm 0.18s$, SD1.41 / 74						
			LE			18.0	1.10			$8.71 S \pm 3.14km$, $106.35 E \pm 2.40km$, $h23 \pm 0.32km$						
BJI	74.7	321	-P	15 47 37.5	0.6					South of Java (282)						
			PMZ	$m_b = 5.6$		1.5	0.10			$M_s 4.9 / 3, m_b 5.3 / 14,$						
			PMZ	$m_b = 5.6$		5.0	0.40			KMI	33.8	354	-P	19 19 41.5	1.5	
			eS	15 57 10.0	-0.6						PMZ	$m_b = 5.4$		1.5	0.10	
			eSS	16 01 56.0	-2.8						sP	19 19 50.0	-0.6			
			LZ	$M_s = 5.1$		24.0	1.27			GYA	35.0	0	P	19 19 50.6	0.8	
TIY	75.6	318	+P	15 47 43.0	0.7					CD2	39.5	356	eP	19 20 27.8	0.1	
			pP	15 47 54.5	3.9					WHN	39.8	11	eP	19 20 31.0	0.9	
			S	15 57 19.0	-0.2						pP	19 20 38.5	0.8			
			LE	$M_s = 5.4$		16.0	0.95			LSA	40.9	340	-P	19 20 41.2	1.3	
			LZ	$M_s = 5.4$		19.0	1.84			SSE	42.1	19	P	19 20 50.0	1.1	
XAN	75.9	313	P	15 47 44.0	0.0						PMZ	$m_b = 5.0$		1.0	0.024	
KMI	76.2	302	+P	15 47 46.5	0.6						eS	19 27 10.0	3.1			
			pP	15 47 54.0	-0.1					XAN	42.6	3	P	19 20 53.5	0.2	
			LZ	$M_s = 5.2$		24.0	1.50			LZH	44.6	357	eP	19 21 10.0	0.0	
HHC	78.0	320	+P	15 47 56.0	0.3						PMZ	$m_b = 5.5$		1.5	0.10	
			pP	15 48 05.0	1.0						pP	19 21 17.0	-0.4			
			sS	15 58 06.0	5.2						LN	$M_s = 4.9$		12.0	0.50	
			LZ	$M_s = 5.2$		22.0	1.33				LZ	$M_s = 4.8$		15.0	0.82	
CD2	78.1	308	eP	15 47 57.2	0.9					TIA	45.8	12	P	19 21 18.4	-1.0	
			S	15 57 49.0	2.6					TIY	46.5	7	P	19 21 24.7	-0.4	
			LZ	$M_s = 5.1$		22.0	0.96				LZ	$M_s = 4.7$		14.0	0.60	
BTO	78.8	319	eP	15 47 59.0	-1.2					GTA	48.3	353	P	19 21 39.2	0.5	
			pP	15 48 12.0	3.5											
			S	15 57 52.5	-1.2											



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			LZ	$M_s=4.7$	10.0	0.45
BTO	49.2	4	eP	19 21 44.5	-1.3	
BJI	49.4	10	eP	19 21 46.0	-0.9	
			PMZ	$m_b=5.4$	1.0	0.049
			epP	19 21 53.0	-1.5	
HHC	49.5	5	P	19 21 48.4	-0.2	
SNY	52.7	16	eP	19 22 10.8	-1.7	
WMQ	54.9	344	P	19 22 29.1	0.1	
CN2	55.1	17	eP	19 22 28.0	-1.8	
			PMZ	$m_b=5.4$	1.0	0.050
			pP	19 22 33.0	-4.5	
			cS	19 30 06.0	-3.6	
			LZ	$M_s=4.5$	15.0	0.30
KSH	55.7	332	eP	19 22 34.5	0.2	
MDJ	57.1	20	eP	19 22 42.0	-2.3	

			LN	$M_s=4.3$	14.0	0.60
			LE		14.0	0.30
			LZ	$M_s=4.1$	14.0	0.80
LZH	19.6	312	-P	03 32 20.0	0.7	
			PMZ	$m_b=4.4$	1.5	0.027
			pP	03 32 24.0	-0.1	
			LE	$M_s=4.0$	12.5	0.29
			LZ	$M_s=4.1$	18.0	0.74
GTA	24.1	314	eP	03 33 05.6	0.9	

NOV 18d 04h 50m $15.1 \pm 0.06s$, SD1.24 / 57
 40.30 N $\pm 1.60km$, 143.64 E $\pm 1.53km$, h20 $\pm 0.69km$
 Off east coast of Honshu (229)
 $M_s 4.7 / 15$, $m_b 5.4 / 1$, $m_b 4.8 / 7$,

NOV 17d 20h 15m $03.1 \pm 0.11s$, SD1.97 / 12
 37.11 N $\pm 1.24km$, 71.44 E $\pm 1.00km$, h100 $\pm 0.83km$
 Hindu Kush region (718)

KSH	4.3	54	P	20 16 10.5	3.1	
			S	20 16 59.4	3.3	
			SMN		0.2	0.30
			SME		0.2	0.30
WMQ	14.1	57	eP	20 18 19.0	-0.2	
GTA	22.4	75	eP	20 19 55.0	1.0	

MDJ	11.2	297	eP	04 53 00.0	2.0	
			LE	$M_s=4.5$	14.0	2.42
CN2	14.0	290	+P	04 53 35.0	0.5	
			PMZ	$m_b=4.5$	1.0	0.010
			pP	04 53 40.0	-0.1	
			eS	04 56 12.0	2.0	
			sS	04 56 21.0	1.8	
			LN	$M_s=4.5$	13.0	0.50
			LE		13.0	1.40
			LZ	$M_s=4.4$	14.0	1.80

NOV 17d 22h 46m $33.1 \pm 0.15s$, SD2.23 / 35
 58.80 S $\pm 4.77km$, 16.18 W $\pm 3.78km$, h22 $\pm 0.53km$
 South-Western Atlantic Ocean (156)

WMQ	132.8	73	PKP	23 05 49.3	1.4	
LZH	135.4	93	PKP	23 05 54.0	1.2	
			LZ	$M_s=5.2$	23.0	0.46
TIY	141.1	100	PKP	23 06 03.0	0.0	
BTO	142.0	94	ePKP	23 06 01.4	-3.2	
TIA	142.3	106	PKP	23 06 05.0	0.0	
HHC	142.9	95	ePKP	23 06 03.0	-3.3	
BJI	144.7	101	ePKP	23 06 08.5	-0.7	
SNY	149.8	106	ePKP	23 06 22.2	4.6	
CN2	152.2	106	ePKP	23 06 22.7	1.5	

BJI	21.0	278	eP	04 54 57.0	-2.7	
NJ2	21.6	255	+P	04 55 04.5	-1.4	
HHC	24.3	282	P	04 55 34.0	1.2	
			S	04 59 49.9	2.6	
			LZ	$M_s=4.5$	15.0	1.18
BTO	25.5	282	eP	04 55 44.0	-0.3	
			sP	04 55 52.0	-2.5	
			eS	05 00 08.0	-0.4	
			LN	$M_s=4.8$	14.0	0.60
			LE		14.0	1.00

NOV 18d 03h 27m $48.1 \pm 0.15s$, SD2.05 / 35
 24.15 N $\pm 1.88km$, 121.87 E $\pm 1.80km$, h11 $\pm 2.86km$
 Taiwan (244)
 $M_s 4.0 / 6$, $M_L 4.2 / 8$, $m_b 4.4 / 1$,

QZH	3.1	285	Pn	03 28 36.5	-0.6	
			iSn	03 29 09.0	-7.0	
			SMN	$M_L=4.0$	0.3	0.73
			SME		0.3	0.51
SSE	6.9	355	eP	03 29 33.0	0.5	
			SMN	$M_L=3.7$	1.2	0.047
			SME		1.5	0.022
			LE	$M_s=4.0$	5.0	0.65
			LZ	$M_s=3.4$	20.0	0.55
NJ2	8.3	342	+P	03 29 49.0	-2.5	
			S	03 31 23.0	-3.1	
			LN	$M_s=3.5$	16.0	0.47
WHN	9.2	315	P	03 30 02.0	-2.3	
			pP	03 30 06.8	-2.5	
			SMN		1.1	0.18
			SME		1.1	0.16
			LE	$M_s=4.0$	10.0	0.82
			LZ	$M_s=3.7$	20.0	0.75
GYA	13.9	283	P	03 31 09.0	0.6	
			sS	03 33 46.8	-4.8	
XAN	15.0	314	P	03 31 21.9	-0.1	
CD2	17.4	297	eP	03 31 54.0	1.1	
HHC	18.8	335	eP	03 32 12.0	2.3	
BTO	19.2	332	eP	03 32 15.0	0.3	

WHN	25.7	257	-iP	04 55 46.8	1.0	
			sP	04 55 55.2	-0.9	
			sS	05 00 20.0	-2.6	
			LN	$M_s=4.9$	16.0	0.50
			LE		16.0	1.90
			LZ	$M_s=4.5$	16.0	1.19
XAN	28.2	268	P	04 56 08.3	-1.1	
LZH	31.4	275	-P	04 56 38.0	0.6	
			PMZ	$m_b=5.0$	2.0	0.047
			PMZ	$m_b=5.4$	5.0	0.31
			pP	04 56 47.5	3.2	
			LN	$M_s=4.8$	13.0	0.63
			LE		13.0	0.56
			LZ	$M_s=4.5$	15.0	0.73
GTA	33.4	283	+iP	04 56 55.2	0.1	
			S	05 02 14.0	0.7	
			LE	$M_s=4.7$	12.0	0.59
			LZ	$M_s=4.7$	15.0	1.18
CD2	33.5	266	eP	04 56 55.4	-0.6	
GYA	33.6	257	P	04 56 58.2	1.7	
KMI	37.2	259	+P	04 57 28.0	0.1	
			PMZ	$m_b=5.3$	2.0	0.10
			pP	04 57 37.0	2.2	
			S	05 03 13.0	0.4	
			sS	05 03 28.0	2.6	
			LN	$M_s=5.0$	12.0	0.90
			LZ	$M_s=4.8$	16.0	1.30
WMQ	41.0	294	P	04 57 59.6	0.4	
			LZ	$M_s=4.6$	16.0	0.69

NOV 18d 07h 32m $19.9 \pm 0.07s$, SD1.44 / 71
 42.66 N $\pm 1.86km$, 144.21 E $\pm 1.27km$, h52 $\pm 0.96km$
 Hokkaido region (224)
 $M_s 3.9 / 2$, $m_b 5.4 / 1$, $m_b 4.7 / 8$,

KSH 50.8 291 iP 16 05 49.3 0.8

NOV 18d 17h 33m 50.5 ± 0.11s, SD2.41 / 43
28.35 N ± 1.13km, 104.74 E ± 1.12km, h20 ± 0.10km
Yunnan Province (318)
M_s3.9 / 3, M_L4.1 / 13, m_b4.5 / 2,

GYA	2.5	137	Pn	17 34 34.4	3.0		
			Pg	17 34 40.0	4.5		
			Su	17 35 07.2	3.8		
			Sg	17 35 16.2	5.9		
			LN			4.0	4.80
			LE			4.0	4.00
CD2	2.7	342	Pn	17 34 35.4	2.1		
			Pg	17 34 41.6	3.5		
			Sg	17 35 16.2	1.2		
			LE			4.0	5.66
			LZ			4.0	3.00
KMI	3.7	210	ePn	17 34 51.5	4.5		
			Sg	17 35 41.5	-4.2		
			SMN	M _L =4.0		1.4	0.30
			SME			1.5	0.40
XAN	6.7	31	Pn	17 35 30.0	1.4		
			SMN	M _L =4.6		1.0	0.33
LZH	7.8	355	ePn	17 35 45.5	2.5		
			Sg	17 37 59.5	6.1		
			SMN	M _L =4.5		1.5	0.17
			SME			1.5	0.16
			LE	M _s =3.9		8.0	0.66
WHN	8.7	73	+iP	17 35 57.5	-0.5		
			PMZ	m _b =4.9		0.7	0.030
			pP	17 36 05.5	1.6		
			iS	17 37 34.0	-2.0		
			SMN	M _L =4.7		1.0	0.15
			SME			1.0	0.14
			LZ	M _s =3.9		10.0	0.76
GZH	9.4	122	eP	17 36 07.0	-0.6		
			S	17 37 56.0	2.8		
			SMN			1.0	0.10
			SME			1.0	0.10
QZN	10.4	152	eP	17 36 26.4	4.6		
			LN	M _s =4.0		11.0	0.65
GTA	11.8	341	eP	17 36 40.0	-0.8		
BTO	13.0	18	eP	17 36 54.6	-2.3		
HHC	13.7	22	eP	17 37 05.0	-1.2		
BJI	15.0	36	eP	17 37 27.5	4.0		
WMQ	20.6	323	P	17 38 32.4	0.7		
CN2	22.7	42	eP	17 38 53.5	1.3		

KMI	33.2	321	-P	LZ	M _s =4.5	28.0	1.35
CD2	37.0	328	eP			20 16 12.5	0.4
XAN	37.3	337	P			20 16 43.5	-0.6
DL2	39.0	356	eP			20 16 45.0	-1.4
				LZ	M _s =4.5	24.0	0.97
TIY	39.5	344	+P			20 17 04.6	0.0
BJI	40.8	349	eP			20 17 15.0	-0.7
				PMZ	m _b =5.0	1.5	0.039
LZH	41.2	333	P			20 17 19.0	0.3
				PMZ	m _b =5.3	1.8	0.089
				LE	M _s =4.6	15.0	0.43
SNY	41.8	358	-iP			20 17 24.4	0.8
				PMZ	m _b =5.4	1.2	0.076
				LZ	M _s =4.7	23.0	1.08
BTO	42.8	343	eP			20 17 32.6	0.2
CN2	43.7	0	+P			20 17 39.0	-0.6
				PMZ	m _b =4.7	1.0	0.010
				ePP		20 19 23.0	-0.4
				LZ	M _s =4.3	20.0	0.40
LSA	44.0	315	P			20 17 42.2	0.0
MDJ	44.7	4	eP			20 17 47.5	0.1
GTA	45.7	332	P			20 17 54.6	-1.0
				LZ	M _s =4.7	18.0	0.84
WMQ	55.1	327	P			20 19 07.0	0.3
KSH	59.8	317	P			20 19 42.0	1.8

NOV 18d 19h 49m 45.8 ± 0.15s, SD4.24 / 8
40.00 N ± 1.64km, 77.32 E ± 1.09km, h27 ± 0.60km
Southern Xinjiang Province (321)
M_L3.5 / 4,

KSH	1.2	246	iPg	19 50 06.2	-1.1		
			Sg	19 50 24.0	0.4		
			SME			5.0	1.90
WMQ	8.6	60	eP	19 51 50.4	-1.7		

NOV 18d 21h 32m 54.2 ± 0.12s, SD1.31 / 29
34.28 N ± 2.04km, 25.02 E ± 1.56km, h24 ± 0.18km
Mediterranean Sea (400)

WMQ	48.6	59	eP			21 41 38.4	0.2
LSA	55.4	75	eP			21 42 30.0	0.1
GTA	58.5	61	eP			21 42 51.0	-0.5
HHC	66.2	56	+P			21 43 43.4	0.2
TIY	68.2	59	eP			21 43 56.2	0.5
GYA	69.1	72	P			21 44 01.8	0.4

NOV 18d 20h 09m 38.6 ± 0.09s, SD1.29 / 76
0.13 S ± 1.34km, 125.26 E ± 2.10km, h66 ± 0.53km
Molucca Sea (269)
M_s4.7 / 2, m_b5.1 / 11,

QZN	24.3	322	eP	20 14 54.2	2.8		
QZH	25.7	346	eP	20 15 05.2	0.2		
			LZ	M _s =4.2		28.0	1.04
GYA	31.9	327	P	20 16 00.8	0.1		
WHN	32.2	342	+P	20 16 05.2	2.2		
			LZ	M _s =4.4		22.0	0.91
NJ2	32.6	350	+P	20 16 05.8	-0.3		

NOV 19d 03h 30m 15.2 ± 0.10s, SD2.04 / 20
37.41 N ± 1.59km, 71.42 E ± 1.32km, h41 ± 0.33km
Hindu Kush region (718)
M_L4.4 / 2,

WMQ	13.9	58	P			03 33 31.8	-0.4
LSA	18.1	109	+P			03 34 25.6	-0.8
GTA	22.3	76	P			03 35 11.2	0.2
GYA	31.7	100	P			03 36 34.2	-3.3

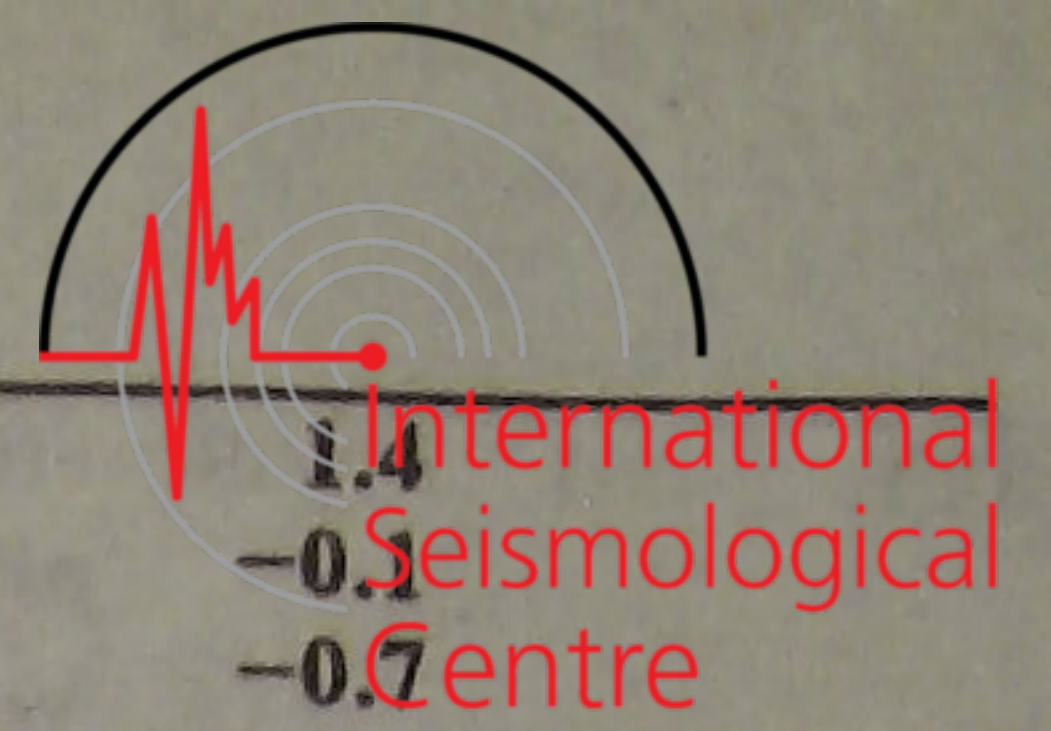


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				LN	$M_s = 4.9$	10.0	1.31
				LE		10.0	0.90
				LZ	$M_s = 4.7$	20.0	2.96
MDJ	23.2	44	eP	03 26 13.0	0.4		
			LZ	$M_s = 4.6$		16.0	1.75
NOV 20d 04h 19m $04.6 \pm 0.13s$, SD1.43 / 93 29.89 N $\pm 2.63km$, 57.71 E $\pm 1.50km$, h18 $\pm 0.06km$ Southern Iran (353) $M_s 6.1 / 45$, $m_b 6.5 / 4$, $m_b 5.4 / 13$,							
KSH	17.8	52	P	04 23 13.0	-0.1		
			S	04 26 32.0	4.3		
			LE	$M_s = 6.2$		10.0	43.6
			LZ	$M_s = 5.9$		12.0	38.3
WMQ	27.6	51	P	04 24 52.7	-0.4		
			PP	04 25 40.0	-0.4		
			S	04 29 27.0	-4.2		
			LN	$M_s = 6.1$		10.0	12.6
			LE			10.0	8.55
			LZ	$M_s = 5.8$		18.0	22.5
LSA	29.0	82	eP	04 25 07.8	1.6		
			eS	04 29 57.0	1.5		
			LN	$M_s = 5.7$		13.0	6.80
			LE			13.0	4.30
			LZ	$M_s = 5.9$		14.0	20.0
GTA	35.6	63	+P	04 26 04.4	0.2		
			S	04 31 42.0	3.9		
			sS	04 31 54.0	3.9		
			LN	$M_s = 6.2$		16.0	21.2
			LZ	$M_s = 5.7$		18.0	12.6
LZH	38.9	68	+P	04 26 31.6	0.0		
			PMZ	$m_b = 5.5$		1.8	0.16
			pP	04 26 40.0	1.8		
			ePP	04 28 06.0	1.8		
			S	04 32 25.0	-3.0		
			LN	$M_s = 6.1$		17.0	14.0
			LE			17.0	10.3
			LZ	$M_s = 5.6$		25.0	12.1
CD2	39.5	77	eP	04 26 35.0	-1.6		
			S	04 32 39.0	1.8		
			LN	$M_s = 6.1$		14.0	11.8
			LZ	$M_s = 5.5$		22.0	8.38
KMI	40.0	86	+P	04 26 40.0	-1.1		
			PMZ	$m_b = 6.0$		2.0	0.50
			pP	04 26 50.0	2.5		
			sP	04 26 54.0	3.3		
			S	04 32 48.0	3.1		
			LN	$M_s = 6.1$		17.0	10.5
			LE			14.0	7.20
			LZ	$M_s = 5.9$		16.0	14.1
GYA	43.0	82	P	04 27 04.6	-1.1		
			sP	04 27 19.0	3.7		
			S	04 33 28.0	-1.3		
			LN	$M_s = 6.3$		19.0	21.3
			LE			19.0	8.60
			LZ	$M_s = 5.5$		20.0	6.00
XAN	43.3	71	+P	04 27 06.5	-1.1		
			S	04 33 30.0	-2.9		
			LN	$M_s = 6.3$		16.0	17.3
			LE			15.0	9.80
BTO	43.5	61	P	04 27 10.0	0.8		
			pP	04 27 19.0	3.2		
			PP	04 28 51.5	-0.4		
			S	04 33 38.0	2.3		
			SS	04 36 43.0	-0.5		
			LN	$M_s = 6.3$		16.0	20.2
			LE			13.0	4.00
HHC	44.6	61	eP	04 27 18.0	-0.6		

				eS		04 33 53.0	-0.8		
				LN	$M_s = 6.2$			18.0	16.6
				LE				18.0	5.15
				LZ	$M_s = 5.9$			20.0	13.9
				-P		04 27 26.5	0.3		
				S		04 34 07.5	1.2		
				LN	$M_s = 6.2$			14.0	11.5
				LZ	$M_s = 5.9$			18.0	12.2
BJI	48.2	61	eP	04 27 47.5	0.8				
			ePcP	04 29 15.0	1.6				
			eScP	04 33 09.0	3.3				
			eS	04 34 44.0	-0.5				
			ScS	04 37 35.0	-0.3				
			LN	$M_s = 6.0$				15.0	7.62
			LZ	$M_s = 5.7$				21.0	7.86
QZN	48.3	91	P	04 27 47.6	0.0				
			eS	04 34 44.0	-2.1				
			LE	$M_s = 5.9$				16.0	6.90
WHN	48.5	74	-P	04 27 49.0	0.1				
			sP	04 28 03.0	4.3				
			S	04 34 48.0	0.5				
			LN	$M_s = 6.3$				18.0	17.4
			LE					18.0	3.85
			LZ	$M_s = 5.6$				20.0	6.27
TIA	49.5	66	eP	04 27 55.3	-1.7				
			eS	04 35 04.1	1.0				
			LN	$M_s = 6.3$				17.0	15.2
			LE					17.0	6.60
GZH	49.9	84	+P	04 27 59.5	0.1				
			S	04 35 08.0	1.5				
			LN	$M_s = 6.2$				19.0	14.1
			LE					17.0	5.40
			LZ	$M_s = 5.5$				16.0	4.42
NJ2	51.8	71	+P	04 28 11.0	-3.5				
			S	04 35 34.0	0.0				
			LN	$M_s = 6.1$				14.0	5.48
			LE					13.0	5.20
			LZ	$M_s = 5.7$				21.0	6.93
SNY	53.5	58	+P	04 28 29.4	2.5				
			S	04 36 00.0	3.5				
			SMN					20.0	2.36
			sS	04 36 13.0	4.0				
			LN	$M_s = 6.4$				19.0	17.6
			LE					17.5	6.09
			LZ	$M_s = 5.7$				22.0	8.34
SSE	54.0	72	eP	04 28 31.0	0.3				
			pP	04 28 36.5	-1.0				
			S	04 36 06.0	2.4				
			sS	04 36 14.0	-2.0				
			LN	$M_s = 6.1$				14.0	6.73
			LE					13.0	3.67
			LZ	$M_s = 5.8$				20.0	8.10
CN2	54.5	55	eP	04 28 35.5	1.0				
			PMZ	$m_b = 5.1$				1.2	0.030
			epP	04 28 44.5	3.2				
			eS	04 36 11.0	-0.6				
			LN	$M_s = 6.1$				13.0	4.50
			LE					13.0	4.80
			LZ	$M_s = 6.0$				18.0	12.3
MDJ	57.3	54	eP	04 28 59.0	4.4				
			eS	04 36 50.0	1.3				
			LE	$M_s = 6.1$				12.0	6.04
			LZ	$M_s = 6.1$				18.0	15.4

NOV 20d 10h 07m $11.1 \pm 0.14s$, SD1.88 / 21
 23.58 N $\pm 1.11km$, 120.84 E $\pm 1.04km$, h8 $\pm 0.33km$
 Taiwan (244)
 $M_L 3.8 / 9$,



NOV 21d 02h 05m 10.7 ± 0.21s, SD1.46 / 34											
20.22 S ± 3.72km, 174.00 W ± 3.60km, h38 ± 0.36km											
Tonga (173)											
m _b 5.1 / 3,											
QZH	79.4	302	eP	02 17 15.5	0.0		PcP	02 46 11.2	1.4		
MDJ	82.5	323	eP	02 17 31.0	-0.7		CD2	37.3 264 P	02 43 56.0	-0.1	
CN2	84.4	321	P	02 17 41.0	-0.4		GYA	38.0 256 +P	02 44 00.8	-0.7	
WHN	85.3	305	eP	02 17 45.5	-0.5			PcP	02 46 17.0	1.1	
TIA	85.9	311	eP	02 17 48.3	-0.4			S	02 49 49.6	1.9	
BJI	88.4	314	eP	02 18 01.0	0.3		KMI	41.5 258 +P	02 44 31.0	-0.2	
GYA	89.8	298	P	02 18 08.4	0.8			PMZ	m _b = 5.9	1.0 0.20	
XAN	91.0	306	-P	02 18 13.1	0.0			sP	02 44 45.0	-5.2	
HHC	91.9	313	P	02 18 18.0	0.7		WMQ	42.5 291 +iP	02 44 40.0	0.7	
NOV 21d 02h 13m 10.1 ± 0.08s, SD0.92 / 35							NOV 21d 03h 10m 23.6 ± 0.12s, SD1.26 / 84				
15.93 S ± 1.60km, 172.56 W ± 1.66km, h33 ± 0.10km							28.77 S ± 2.45km, 177.32 W ± 1.97km, h59 ± 0.38km				
Tonga (173)							Kermadec Islands (178)				
m _b 5.0 / 5,							m _b 6.1 / 5, m _b 5.6 / 12,				
MDJ	79.9	322	eP	02 25 17.0	-1.2		QZH	81.5 304 eP	03 22 36.8	-0.2	
CN2	82.0	320	P	02 25 29.2	0.1		SSE	83.5 311 +P	03 22 47.2	0.1	
SNY	82.2	317	+P	02 25 30.0	-0.1			PMZ	m _b = 5.2	1.0 0.028	
BJI	86.4	313	eP	02 25 52.5	1.3			pP	03 23 02.5	0.2	
								sP	03 23 06.0	-2.5	
								LZ	M _S = 5.3	20.0 1.40	
HHC	90.0	313	eP	02 26 10.0	1.6		QZN	84.8 295 eP	03 22 54.2	0.3	
BTO	91.0	312	eP	02 26 15.0	1.8		NJ2	85.6 310 +P	03 22 58.5	0.7	
GTA	98.1	309	eP	02 26 46.4	0.6		MDJ	87.6 325 +P	03 23 07.0	-0.5	
NOV 21d 02h 36m 46.8 ± 0.07s, SD1.28 / 93							NOV 21d 03h 10m 23.6 ± 0.12s, SD1.26 / 84				
44.65 N ± 1.99km, 148.31 E ± 1.21km, h55 ± 0.75km							28.77 S ± 2.45km, 177.32 W ± 1.97km, h59 ± 0.38km				
Kurile Islands (221)							Kermadec Islands (178)				
M _S 4.2 / 3, m _b 5.4 / 16,							m _b 6.1 / 5, m _b 5.6 / 12,				
MDJ	13.3	276	eP	02 39 55.5	0.0		QZH	81.5 304 eP	03 22 36.8	-0.2	
							SSE	83.5 311 +P	03 22 47.2	0.1	
								PMZ	m _b = 5.2	1.0 0.028	
CN2	16.4	275	P	02 40 35.0	-0.1			pP	03 23 02.5	0.2	
								sP	03 23 06.0	-2.5	
								LZ	M _S = 5.3	20.0 1.40	
							QZN	84.8 295 eP	03 22 54.2	0.3	
							NJ2	85.6 310 +P	03 22 58.5	0.7	
							MDJ	87.6 325 +P	03 23 07.0	-0.5	
							WHN	87.8 307 P	03 23 08.5	0.0	
								PMZ	m _b = 5.8	1.4 0.13	
								PMZ	m _B = 6.2	5.0 1.07	
								pP	03 23 20.5	-3.4	
								sP	03 23 25.0	-5.1	
								S	03 33 43.0	-0.1	
								LZ	M _S = 5.3	24.0 1.37	
SNY	18.2	270	+iP	02 40 56.7	-0.9		DL2	88.2 317 eP	03 23 08.0	-2.0	
								PMZ	m _B = 6.1	5.0 0.92	
								pP	03 23 22.0	-3.4	
								eS	03 33 44.0	-3.7	
								eSS	03 39 36.0	-3.3	
								LZ	M _S = 4.9	24.0 0.63	
DL2	20.7	263	eP	02 41 24.0	-0.7		SNY	88.9 320 +iP	03 23 13.0	-0.6	
								PMZ	m _b = 5.5	1.0 0.042	
								PMZ	m _B = 6.0	4.0 0.46	
								pP	03 23 27.0	-2.0	
								eS	03 34 00.0	5.2	
								LZ	M _S = 5.1	26.0 0.94	
BJI	24.1	270	eP	02 41 59.5	0.8		CN2	89.2 322 +iP	03 23 14.5	-0.5	
								PMZ	m _b = 5.8	1.0 0.070	
								PMZ	m _B = 6.1	6.0 0.90	
								epP	03 23 27.5	-2.9	
								eS	03 33 56.0	-1.5	
								LZ	M _S = 5.2	26.0 1.20	
TIA	25.1	261	eP	02 42 07.0	-1.1		TIA	89.3 313 eP	03 23 14.9	-0.6	
SSE	25.2	247	P	02 42 09.8	0.7			LZ	M _S = 5.2	29.0 1.21	
								GYA	91.3 300 P	03 23 25.0	0.2
								pP	03 23 41.6	1.6	
								S	03 34 14.0	-0.2	
								BJI	92.2 315 eP	03 23 28.0	-0.9
								PMZ	m _b = 5.7	1.0 0.042	
								PMZ	m _B = 6.0	4.0 0.40	
								epP	03 23 44.0	-0.3	
								eS	03 34 22.0	-2.0	
								LZ	M _S = 5.3	28.0 1.38	
								TIY	93.2 312 eP	03 23 33.0	-0.8
								eS	03 34 29.5	-3.9	
								LZ	M _S = 5.5	26.0 2.28	
								XAN	93.6 307 -P	03 23 35.5	0.1
								KMI	93.6 297 -P	03 23 37.0	1.3
								HHC	95.5 314 eP	03 23 45.0	0.7
								CD2	95.7 302 P	03 23 46.4	1.3

					38.13 N ± 2.22km, 143.10 E ± 3.60km, h ₉ ± 3.14km Off east coast of Honshu (229)				
QZH	84.5	320	eS	15 00 26.0	-1.0				
			LE		M _S =6.3	20.0	7.30		
			eP	14 50 16.8	1.6				
			LN		M _S =6.3	36.0	7.98		
			LE			36.0	10.6		
SSE	89.0	325	P	14 50 37.5	0.3				
			PMZ		m _b =5.8	1.5	0.098		
			pP	14 50 43.0	-2.8				
			PP	14 54 06.0	-2.4				
			SKS	15 01 07.0	5.4				
			S	15 01 22.0	1.5				
			LN		M _S =6.0	18.0	2.62		
			LE			18.0	2.05		
			LZ		M _S =5.6	20.0	2.34		
NJ2	90.7	324	+P	14 50 44.5	-0.8				
			S	15 01 30.0	-6.1				
			LZ		M _S =5.6	23.0	2.88		
GYA	91.1	312	P	14 50 49.0	1.8				
			SKS	15 01 20.0	5.8				
			S	15 01 44.0	4.5				
WHN	91.2	320	eP	14 50 48.0	0.6				
			sP	14 50 57.0	-2.5				
			SS	15 07 52.0	3.6				
			LN		M _S =5.9	18.0	2.78		
			LZ		M _S =5.5	24.0	2.05		
KMI	91.9	308	+P	14 50 53.0	1.9				
			PMZ		m _b =5.9	1.5	0.10		
			S	15 01 50.0	3.3				
			LZ		M _S =6.0	20.0	5.70		
TIA	95.1	324	eP	14 51 06.8	1.5				
			eS	15 02 17.5	1.8				
			LE		M _S =6.0	20.0	3.39		
			LZ		M _S =5.7	26.0	3.35		
DL2	95.9	329	eP	14 51 12.0	3.1				
			PMZ		m _B =5.9	10.0	0.32		
			SKS	15 01 43.0	2.1				
			S	15 02 20.0	-0.9				
			eSS	15 08 54.0	-1.4				
			LZ		M _S =5.4	30.0	1.84		
XAN	96.5	318	-P	14 51 13.5	1.7				
SNY	97.9	331	eP	14 51 19.0	0.8				
			pP	14 51 24.0	-2.7				
			PP	14 55 15.0	-3.8				
			SKS	15 01 54.0	2.0				
			S	15 02 38.0	-0.1				
			SS	15 09 30.0	6.2				
			LZ		M _S =5.8	26.0	3.89		
BJI	98.8	326	eP	14 51 25.0	2.9				
			eSKS	15 02 00.0	3.9				
			eS	15 02 48.0	0.8				
			eSS	15 09 32.0	-4.1				
			LN		M _S =6.0	24.0	3.99		
			LZ		M _S =5.9	24.0	5.09		
CN2	99.2	334	eP	14 51 23.4	-0.4				
			eS	15 02 47.0	-3.4				
			LN		M _S =5.7	15.0	1.10		
			LE			15.0	0.50		
			LZ		M _S =5.9	20.0	3.40		
LZH	100.5	315	P	14 51 30.0	0.1				
			PMZ		m _b =5.7	2.5	0.034		
			LZ		M _S =5.6	38.0	3.50		
GTA	105.0	314	eP	14 51 48.6	-1.5				
			SKS	15 02 28.0	2.5				
			S	15 03 39.0	1.6				
			LE		M _S =5.6	14.0	0.71		
			LZ		M _S =5.5	26.0	1.68		
NOV 22d 01h 40m 53.6 ± 0.13s, SD2.00 / 29									
					NOV 22d 01h 41m 08.7 ± 0.07s, SD1.61 / 17 37.66 N ± 0.64km, 115.44 E ± 0.53km, h ₁₂ ± 0.30km North-Eastern China (658)				
					M _L 3.2 / 12,				
			TIA	2.0	137	Pn	01 41 43.8	1.4	
						Pg	01 41 46.0	2.4	
						Sn	01 42 08.0	-0.9	
						Sg	01 42 12.5	1.8	
						SMN		M _L =3.1	0.4 0.12
						SME			0.4 0.22
			TIY	2.4	272	iPg	01 41 49.9	-1.1	
						Sg	01 42 20.3	-3.3	
						SMN		M _L =3.2	0.6 0.15
						SME			0.8 0.16
			BJI	2.4	13	ePg	01 41 51.5	-0.4	
						eSg	01 42 23.0	-2.2	
						SMN		M _L =2.8	0.5 0.060
						SME			0.5 0.055
			HHC	4.4	318	Pg	01 42 26.8	0.6	
						Sg	01 43 18.7	-7.2	
						SMN		M _L =3.6	1.0 0.090
						SME			1.0 0.097
			XAN	6.4	238	Pg	01 43 02.5	0.4	
						Sg	01 44 29.0	-0.6	
			CN2	9.8	48	eP	01 43 32.0	-0.1	
					NOV 22d 17h 05m 54.1 ± 0.09s, SD2.19 / 26 25.24 N ± 3.56km, 129.59 E ± 3.30km, h ₂₆ ± 2.71km Ryukyu Islands region (239)				
					M _S 4.4 / 5,				
			SSE	9.4	310	eP	17 08 13.5	2.0	
			WHN	14.5	295	eP	17 09 18.5	-0.9	
			BJI	18.6	326	eP	17 10 12.0	0.8	
						LN		M _S =4.1	12.0 0.39
						LZ		M _S =4.2	12.0 0.60
			CN2	18.8	351	eP	17 10 18.0	3.4	
						pP	17 10 25.0	3.8	
			TIY	19.2	315	eP	17 10 18.6	-0.1	
						LE		M _S =4.4	18.0 1.14
						LZ		M _S =4.2	18.0 0.97
			XAN	20.0	301	eP	17 10 25.3	-2.3	
			GYA	20.7	278	P	17 10 36.2	1.2	
			HHC	21.6	320	eP	17 10 40.8	-3.9	
						LN		M _S =4.8	12.0 1.22
						LE			12.0 0.82
			BTO	22.4	318	eP	17 10 52.0	-0.3	
						pP	17 11 00.0	0.1	
						eS	17 14 57.0	4.8	

		LN	$M_s = 4.5$	13.0	0.60
		LE		13.0	0.30
KMI	24.3 275	-P	17 11 15.0	4.0	
GTA	28.7 307	P	17 11 52.0	0.2	
		LZ	$M_s = 4.4$	14.0	0.59
WMQ	38.7 309	P	17 13 19.0	1.0	

NOV 22d 23h 27m $08.6 \pm 0.10s$, SD1.17 / 95
 7.27 S $\pm 1.30km$, 128.84 E $\pm 1.80km$, h127 $\pm 0.26km$
 Banda Sea (280)
 $m_b 5.3 / 18$,

QZN	32.1 325	eP	23 33 26.9	0.3	
SSE	38.8 350	P	23 34 24.0	0.7	
		PMZ	$m_b = 5.0$	1.0	0.028
		pP	23 34 52.0	0.7	
GYA	39.8 328	+P	23 34 32.2	0.6	
		PcP	23 36 36.0	0.9	
WHN	40.1 340	P	23 34 34.5	1.0	
		PMZ	$m_b = 5.6$	1.0	0.10
		pP	23 35 03.0	1.4	
NJ2	40.2 347	+P	23 34 35.8	1.0	
KMI	41.0 323	+iP	23 34 43.5	2.1	
		PMZ	$m_b = 5.9$	2.0	0.40
		S	23 40 49.5	6.5	
TIA	44.6 346	eP	23 35 09.7	-0.8	
CD2	44.9 329	P	23 35 12.8	-0.1	
		PMZ	$m_b = 5.3$	1.1	0.060
XAN	45.2 337	+iP	23 35 12.0	-3.2	
DL2	46.4 352	eP	23 35 25.0	0.3	
TIY	47.3 342	+P	23 35 31.2	-0.4	
		PMZ	$m_b = 5.3$	0.8	0.040
BJI	48.5 347	eP	23 35 40.5	-0.4	
		PMZ	$m_b = 5.3$	1.0	0.050
		ePcP	23 37 05.5	0.8	
		eScP	23 40 46.5	0.6	
SNY	49.1 355	-P	23 35 44.6	-0.8	
		PMZ	$m_b = 4.9$	1.2	0.023
LZH	49.1 333	+iP	23 35 46.0	0.2	
		PMZ	$m_b = 5.9$	1.2	0.22
HHC	50.4 343	-P	23 35 55.0	-1.0	
BTO	50.7 341	eP	23 35 56.0	-1.8	
CN2	50.9 357	+P	23 35 58.4	-1.0	
		PcP	23 37 13.0	-0.5	
LSA	51.6 317	P	23 36 05.6	0.6	
MDJ	51.6 1	eP	23 36 03.0	-1.9	
GTA	53.7 332	+iP	23 36 20.0	0.0	
WMQ	63.0 328	+iP	23 37 24.2	-0.7	
KSH	67.5 318	P	23 37 54.0	0.3	

NOV 23d 01h 23m $27.6 \pm 0.11s$, SD1.03 / 64
 22.22 S $\pm 2.62km$, 174.71 W $\pm 1.96km$, h33 $\pm 0.12km$
 Tonga region (174)
 $M_s 5.3 / 3$, $m_b 6.0 / 4$, $m_b 5.5 / 10$,

SSE	81.1 309	P	01 35 40.0	-2.1	
		LE	$M_s = 5.5$	10.0	0.67
		LZ	$M_s = 5.0$	12.0	0.45
NJ2	83.3 308	+P	01 35 54.0	0.6	
		eS	01 46 08.0	-3.0	
		LZ	$M_s = 5.1$	18.0	0.72
MDJ	83.7 324	eP	01 35 55.2	0.0	
		S	01 46 18.5	5.6	
		LZ	$M_s = 5.3$	20.0	1.33
DL2	85.1 315	P	01 36 02.0	-0.2	
		SKS	01 46 20.0	0.3	
		LZ	$M_s = 4.8$	18.0	0.36
SNY	85.5 319	+iP	01 36 03.8	-0.4	
		PMZ	$m_b = 5.5$	1.8	0.092
		PMZ	$m_b = 6.1$	4.0	0.77

		S	01 46 24.0	-6.7	
		LN	$M_s = 5.3$	16.0	0.64
CN2	85.5 321	+iP	01 36 04.0	-0.4	
		PMZ	$m_b = 5.4$	1.0	0.040
		PMZ	$m_b = 6.0$	6.0	0.90
		eS	01 46 32.0	-0.8	
		LZ	$M_s = 5.2$	18.0	0.80
WHN	85.9 305	-P	01 36 07.5	1.2	
TIA	86.7 311	eP	01 36 10.0	-0.1	
BJI	89.3 314	eP	01 36 22.5	0.1	
		PMZ	$m_b = 5.8$	2.0	0.14
		PMZ	$m_b = 6.0$	4.0	0.48
		eSKS	01 46 44.0	-2.6	
		LZ	$M_s = 5.2$	18.0	0.88
GYA	90.2 298	P	01 36 27.0	0.2	
TIY	90.7 311	+P	01 36 29.0	-0.3	
		pP	01 36 39.0	0.0	
		S	01 47 13.0	-6.4	
		sS	01 47 32.0	-5.4	
		LZ	$M_s = 5.2$	20.0	1.00
XAN	91.6 306	+P	01 36 34.2	0.7	
HHC	92.7 313	+P	01 36 39.0	0.2	
		LZ	$M_s = 5.4$	18.0	1.24
KMI	92.9 296	+P	01 36 40.5	1.1	
		PMZ	$m_b = 6.1$	2.0	0.20
BTO	93.7 312	eP	01 36 44.0	1.0	
LZH	96.2 306	eP	01 36 55.0	0.3	
		PMZ	$m_b = 5.5$	2.3	0.029
		LZ	$M_s = 5.2$	16.0	0.70
GTA	100.4 308	eP	01 37 13.8	0.1	
		LZ	$M_s = 5.2$	20.0	0.66

NOV 23d 15h 49m $41.0 \pm 0.08s$, SD1.35 / 96
 39.86 N $\pm 1.78km$, 143.08 E $\pm 1.62km$, h32 $\pm 0.62km$
 Near east coast of Honshu (228)
 $M_s 5.1 / 34$, $m_b 5.8 / 5$, $m_b 5.4 / 19$,

MDJ	11.1 300	eP	15 52 21.7	1.4	
		epP	15 52 26.0	-1.2	
		S	15 54 20.0	-3.7	
		LN	$M_s = 4.7$	13.0	4.00
		LZ	$M_s = 5.0$	16.0	10.0
CN2	13.7 292	+P	15 52 56.0	0.1	
		PMZ	$m_b = 5.2$	1.0	0.040
		PMZ	$m_b = 5.8$	8.0	1.30
		pP	15 53 01.0	-1.8	
		eS	15 55 28.0	-0.3	
		LN	$M_s = 4.6$	13.0	2.00
		LE		13.0	1.00
		LZ	$M_s = 4.8$	16.0	5.30
SNY	14.9 284	+P	15 53 11.5	0.3	
		PMZ	$m_b = 5.0$	1.0	0.032
		PMZ	$m_b = 5.3$	6.0	0.37
		pP	15 53 16.6	-1.7	
		eS	15 56 00.0	4.0	
		LN	$M_s = 4.8$	13.0	1.01
		LE		15.0	3.18
		LZ	$M_s = 4.9$	16.0	6.32
DL2	16.6 274	eP	15 53 34.0	0.7	
		S	15 56 37.0	1.5	
		LE	$M_s = 4.6$	14.0	1.80
		LZ	$M_s = 4.3$	22.0	1.88
SSE	19.8 251	eP	15 54 10.2	-1.8	
		pP	15 54 22.0	1.8	
		eS	15 57 48.0	-0.6	
		sS	15 57 57.0	-3.3	
		PcP	15 58 24.0	-4.4	
		LN	$M_s = 4.8$	15.0	1.98
		LZ	$M_s = 4.2$	20.0	0.93



BJI	20.6 279	eP	15 54 18.0	-2.3	1.5	0.12	WMQ	40.8 294	LZ	$M_s = 5.3$	15 57 23.0	1.4	4.4	20.0	1.01	
		PMZ		$m_b = 5.0$						+iP						
		ePP	15 54 36.0	-5.6						eS						16 03 35.0
		eS	15 58 02.0	-2.2						LZ						$M_s = 4.7$
		LN		$M_s = 4.8$					15.0	2.03						LSA
		LZ		$M_s = 4.8$	16.0	3.20	<hr/> NOV 23d 19h 17m $31.9 \pm 0.10s$, SD1.55 / 65 $34.62 N \pm 1.77km$, $141.23 E \pm 1.85km$, $h50 \pm 0.63km$ Near east coast of Honshu (228) $M_s 4.5 / 7$, $m_b 4.4 / 5$,									
TIA	20.7 268	-P	15 54 20.0	-1.8	12.5	1.50	MDJ	13.4 322	eP	19 20 43.0	1.3	19 21 07.0	1.0	1.0	0.010	
		S	15 58 05.0	-1.2												
		LN		$M_s = 5.2$					13.0	3.54						
		LE														
NJ2	21.1 256	+P	15 54 24.5	-0.5	12.0	1.33	CN2	15.3 312	eP	19 21 07.0	1.0	19 21 15.0	-0.1	19 23 59.0	5.6	
		S	15 58 16.0	3.7												
		LN		$M_s = 4.8$					11.0	0.97						
		LE							16.0	2.36						
		LZ		$M_s = 4.7$	16.0	2.36										
TIY	23.9 275	eP	15 54 53.0	-0.5	16.0	2.03	SNY	15.6 303	eP	19 21 12.2	1.8	19 21 12.2	1.8	19 21 12.2	1.8	
		sS	15 59 21.0	1.7												
		LN		$M_s = 4.9$					17.0	3.58						
		LZ		$M_s = 4.8$					18.0	6.25						
HHC	24.0 283	+P	15 54 53.0	-1.0	13.0	0.84	DL2	16.3 291	eP	19 21 20.0	1.2	19 24 22.0	5.3	14.0	0.60	
		eS	15 59 11.0	5.0												
		LN		$M_s = 5.1$					15.0	1.65						
		LE							15.0	1.65						
		LZ		$M_s = 5.2$	18.0	6.25										
WHN	25.2 257	+P	15 55 06.0	0.7	1.4	0.39	SSE	17.2 264	eP	19 21 32.0	1.6	19 21 32.0	1.6	14.0	1.19	
		PMZ		$m_b = 5.8$												
		pP	15 55 11.5	-2.5												
		sP	15 55 16.5	-1.5												
		eS	15 59 28.0	2.1												
		LN		$M_s = 5.2$					15.0	3.33						
		LE							15.0	1.65						
		LZ		$M_s = 4.7$					18.0	1.94						
BTO	25.2 282	P	15 55 05.0	-0.5	14.0	1.10	TIY	23.4 286	eP	19 22 39.5	1.9	19 22 39.5	1.9	16.0	0.81	
		pP	15 55 09.0	-5.1												
		PP	15 55 45.0	1.7												
		eS	15 59 27.0	0.6												
		LN		$M_s = 5.3$					17.0	4.90						
QZH	25.4 241	eP	15 55 09.0	1.8	17.0	0.96	HHC	24.2 294	+P	19 22 46.8	1.5	19 22 46.8	1.5	19 22 59.0	2.6	
		LZ		$M_s = 4.4$					17.0	0.96						
XAN	27.8 269	+P	15 55 28.5	-1.2	15.0	0.60	BTO	25.4 293	eP	19 22 59.0	2.6	19 23 07.0	-1.1	19 23 07.0	-1.1	
LZH	31.0 276	eP	15 55 58.5	0.2												
		PMZ		$m_b = 5.5$					1.5	0.11	XAN					26.6 278
		LN		$M_s = 5.1$	13.0	0.60	LZH	30.4 284	P	19 23 41.0		-1.2				
		LE			13.0	1.68					LZ	$M_s = 3.8$	18.0	0.20		
		LZ		$M_s = 5.1$	14.0	3.10			LZ	$M_s = 3.8$	18.0	0.20				
GYA	33.1 257	+iP	15 56 16.6	0.3	1.2	0.23	GYA	30.8 264	P	19 23 43.6	-1.6	19 23 43.6	-1.6	19 23 50.9	-1.8	
		PMZ		$m_b = 5.9$												
		pP	15 56 26.0	0.8												
		S	16 01 31.6	0.4												
		LN		$M_s = 5.2$					15.0	1.30						
CD2	33.1 267	eP	15 56 16.1	-0.2	13.0	2.70	WMQ	1.7 324	iPg	21 38 55.2	0.3	21 38 55.2	0.3	21 39 17.4	-0.1	
		S	16 01 34.0	2.7												
		LN		$M_s = 5.3$					15.0	2.10						
		LZ		$M_s = 4.7$					16.0	1.20						
GTA	33.1 283	eP	15 56 16.1	-0.2	14.0	2.20	SSE	1.3 211	iPn	23 21 05.5	-1.3	23 21 05.5	-1.3	23 21 21.4	-2.5	
		LZ		$M_s = 5.0$					14.0	2.20						
		+P	15 56 16.8	0.2												
		PcP	15 59 01.0	2.0												
		S	16 01 30.0	-1.6												
QZN	35.3 244	eP	15 56 36.0	0.3	16.0	3.46			Pg	23 21 05.8	-2.2	23 21 22.2	-3.5	23 21 22.2	-3.5	
		eS	16 02 10.0	2.8												
		LE		$M_s = 5.3$			16.0	2.70								
KMI	36.7 259	+P	15 56 48.5	0.6	16.0	2.70			Sg	23 21 22.2	-3.5	23 21 22.2	-3.5	23 21 22.2	-3.5	
		sP	15 56 59.0	-1.7												
		S	16 02 29.0	0.8												
								SMN	$M_L = 3.5$	0.5	0.81					
								SME		0.5	0.69					
								NJ2	2.6 268	Pg	23 21 30.8	-1.1	23 22 05.2	-3.0		
								Sg	23 22 05.2	-3.0						

NOV 24d 18h 45m $03.8 \pm 0.07s$, SD0.99 / 81 27.04 N $\pm 1.57km$, 142.75 E $\pm 1.35km$, h29 $\pm 0.37km$ Bonin Islands region (212) $M_S 4.8 / 19$, $m_B 5.2 / 1$, $m_b 4.9 / 14$,					NOV 24d 19h 24m $39.6 \pm 0.12s$, SD0.89 / 33 12.85 N $\pm 1.64km$, 48.14 E $\pm 0.82km$, h11 $\pm 0.28km$ Eastern Gulf of Aden (415)											
SSE	19.3	287	P	18 49 29.0	-0.1				WMQ	45.8	40	eP	19 33 04.0	-0.1		
			PP	18 49 49.0	3.1				GTA	52.5	50	eP	19 33 55.0	-0.8		
			S	18 53 00.0	1.1				GYA	56.3	67	P	19 34 24.0	0.4		
			sS	18 53 10.0	-0.9				BTO	60.4	51	eP	19 34 51.5	-0.9		
			LN			$M_S = 4.5$	12.0	0.81	HHC	61.6	50	eP	19 35 00.2	-0.3		
			LZ			$M_S = 4.2$	20.0	0.93	WHN	63.2	62	eP	19 35 10.0	-0.6		
MDJ	20.5	332	eP	18 49 42.5	0.3				BJI	65.1	52	eP	19 35 23.0	0.1		
			pP	18 49 48.0	-2.2				CN2	72.1	48	eP	19 36 06.4	-0.2		
			eS	18 53 22.0	-3.4				NOV 24d 19h 47m $51.3 \pm 0.06s$, SD2.15 / 12 41.85 N $\pm 0.72km$, 82.96 E $\pm 0.64km$, h29 $\pm 0.25km$ Southern Xinjiang Province (321) $M_L 3.7 / 9$,							
			LZ			$M_S = 4.6$	20.0	2.65	WMQ	4.0	59	ePn	19 48 54.6	3.3		
NJ2	21.4	289	+P	18 49 51.0	-0.2							Sg	19 50 00.4	3.4		
			S	18 53 48.0	6.6				KSH	5.8	249	ePn	19 49 18.0	1.4		
			LZ			$M_S = 4.3$	13.0	0.66				SMN	$M_L = 3.4$	0.6	0.020	
SNY	21.6	318	+P	18 49 53.4	0.3							SME		0.5	0.040	
			PMZ			$m_b = 4.6$	1.2	0.033	GTA	13.0	95	eP	19 50 56.4	-1.2		
			eS	18 53 45.0	-0.7				NOV 24d 20h 51m $05.6 \pm 0.07s$, SD2.43 / 11 36.86 N $\pm 0.15km$, 80.17 E $\pm 0.73km$, h29 $\pm 0.62km$ Southern Xinjiang Province (321) $M_L 3.9 / 4$,							
			LZ			$M_S = 4.5$	16.0	1.29	KSH	4.3	310	ePn	20 52 10.2	0.9		
CN2	21.8	325	P	18 49 54.8	-0.8							SMN	$M_L = 3.9$	0.6	0.20	
			PMZ			$m_b = 4.2$	1.0	0.010				SME		0.5	0.20	
			pP	18 50 03.0	-0.8				WMQ	9.0	37	P	20 53 18.4	1.4		
			eS	18 53 51.0	0.7							SMN		1.0	0.020	
			LN			$M_S = 5.0$	17.0	2.80				SME		1.0	0.030	
			LE				17.0	2.10	NOV 24d 23h 02m $23.0 \pm 0.11s$, SD1.11 / 75 19.03 S $\pm 1.91km$, 173.53 W $\pm 2.18km$, h66 $\pm 0.29km$ Tonga (173) $m_b 5.1 / 10$,							
			LZ			$M_S = 4.9$	17.0	3.60	MDJ	81.8	323	eP	23 14 36.5	-0.7		
TIA	23.6	299	P	18 50 12.6	-0.8				NJ2	82.3	308	-P	23 14 40.0	0.5		
			S	18 54 28.0	6.1				DL2	83.6	315	eP	23 14 47.0	0.6		
			SME			$m_B = 5.2$	11.0	0.91	CN2	83.8	320	+P	23 14 47.0	-0.2		
			LZ			$M_S = 4.7$	15.0	1.67				PMZ	$m_b = 4.7$	1.0	0.010	
WHN	25.1	285	P	18 50 28.0	0.1				SNY	83.9	318	+P	23 14 47.0	-0.7		
			PMZ			$m_b = 5.2$	1.2	0.080				PMZ	$m_b = 5.0$	1.2	0.023	
			eS	18 54 50.0	1.7				WHN	85.0	304	eP	23 14 54.0	0.5		
			sS	18 55 00.0	-2.0				TIA	85.5	311	eP	23 14 55.8	0.2		
			LN			$M_S = 4.9$	16.0	1.98	BJI	87.9	314	eP	23 15 07.0	-0.3		
			LZ			$M_S = 4.4$	20.0	1.25				PMZ	$m_b = 5.3$	1.5	0.040	
BJI	25.6	307	eP	18 50 32.0	-0.1							LZ	$M_S = 4.6$	24.0	0.32	
			eS	18 54 55.0	-0.8				TIY	89.5	310	+P	23 15 15.6	0.5		
			esS	18 55 07.0	-2.6							LZ	$M_S = 5.2$	20.0	0.88	
			LE			$M_S = 4.5$	12.0	0.60	GYA	89.6	298	P	23 15 17.2	1.4		
			LZ			$M_S = 4.6$	16.0	1.46	XAN	90.6	306	-P	23 15 21.1	0.6		
TIY	27.6	300	eP	18 50 50.6	-0.6				HHC	91.4	313	P	23 15 24.6	0.5		
			S	18 55 32.0	3.3				BTO	92.4	312	eP	23 15 29.0	0.5		
			LN			$M_S = 4.8$	14.0	1.07	KMI	92.5	296	+P	23 15 30.5	1.3		
			LZ			$M_S = 4.8$	15.0	1.78	LZH	95.3	306	eP	23 15 43.0	1.2		
HHC	29.1	306	eP	18 51 06.2	1.3				GTA	99.3	308	eP	23 16 00.0	-0.3		
XAN	29.9	292	-iP	18 51 10.5	-0.8				NOV 25d 07h 02m $47.7 \pm 0.08s$, SD1.65 / 59 35.89 N $\pm 1.72km$, 140.15 E $\pm 1.57km$, h80 $\pm 1.14km$ Near south coast of Honshu (230) $M_S 4.9 / 2$, $m_B 5.8 / 1$, $m_b 4.7 / 10$,							
			S	18 56 09.0	4.4				MDJ	11.9	320	eP	07 05 36.5	0.7		
GYA	32.2	277	P	18 51 31.4	-0.3				CN2	13.8	309	eP	07 06 02.5	1.6		
LZH	34.2	295	P	18 51 49.0	-0.2											
			PMZ			$m_b = 5.1$	1.2	0.034								
			sP	18 52 03.5	2.2											
			SS	18 59 20.0	-1.3											
			LN			$M_S = 4.8$	15.0	0.90								
			LZ			$M_S = 4.6$	20.0	1.20								
CD2	34.2	286	P	18 51 48.5	-0.9											
			eS	18 57 12.8	-0.8											
			LN			$M_S = 5.0$	10.0	0.90								
KMI	35.9	276	-P	18 52 04.2	0.3											
GTA	37.6	300	eP	18 52 17.4	-1.2											
			S	18 58 06.0	0.6											
			LZ			$M_S = 4.3$	24.0	0.63								
WMQ	47.0	306	eP	18 53 35.5	0.6											
			eS	19 00 26.5	2.3											
			sS	19 00 37.0	-1.4											
			LZ			$M_S = 4.6$	20.0	0.65								

	PMZ	$m_b = 6.0$	1.8	0.40			LN	$M_s = 5.3$	12.0	5.10
	PMZ	$m_B = 6.0$	4.0	0.90	QZH	19.7 342	eP	15 15 22.0	0.1	
	pP	07 58 27.0	1.4				S	15 18 56.0	-1.5	
	PcP	07 59 50.0	2.0				LN	$M_s = 5.0$	12.0	2.97
	eS	08 05 08.0	-1.3				LZ	$M_s = 4.7$	17.0	2.99
	ScS	08 08 08.0	1.4		SSE	25.1 352	P	15 16 16.0	0.0	
	SS	08 08 28.0	-1.4				PMZ	$m_b = 5.0$	1.5	0.061
	LN	$M_s = 5.8$	16.0	5.20			PMZ	$m_B = 5.8$	4.0	0.96
	LE		16.0	1.30			sP	15 16 30.0	5.1	
	LZ	$M_s = 5.8$	18.0	10.2			sS	15 20 46.0	-1.3	
HHC	49.5 333	P	07 58 34.5	-0.5			LN	$M_s = 5.2$	14.0	3.03
	sP	07 58 51.0	4.9				LZ	$M_s = 4.9$	20.0	3.54
	PcP	07 59 55.0	-1.0		WHN	26.3 339	eP	15 16 28.0	0.9	
	PP	08 00 28.5	-0.5				sP	15 16 39.0	3.0	
	S	08 05 42.9	3.7				sS	15 21 09.0	1.9	
	SMN	$m_B = 6.1$	7.0	0.82			LN	$M_s = 5.4$	14.0	4.58
	SME		9.0	1.89			LE		12.0	2.44
	LN	$M_s = 6.0$	17.0	5.43			LZ	$M_s = 4.9$	20.0	3.14
	LE		16.0	4.78	NJ2	26.4 348	+P	15 16 31.0	2.5	
	LZ	$M_s = 5.9$	19.0	11.3			S	15 21 04.0	5.1	
BTO	50.1 331	+iP	07 58 38.0	-1.0			LN	$M_s = 5.1$	11.0	1.76
	sP	07 58 52.0	1.8				LE		10.0	0.78
	PP	08 00 35.5	1.4				LZ	$M_s = 5.1$	20.0	5.56
	S	08 05 45.0	-1.5		GYA	26.7 321	P	15 16 34.0	2.4	
	sS	08 06 02.0	1.1				pP	15 16 41.0	3.7	
	SS	08 09 15.0	-1.4				S	15 21 08.0	3.7	
	LN	$M_s = 6.2$	16.0	11.4			LN	$M_s = 5.5$	16.0	4.30
	LE		16.0	5.00			LE		16.0	4.90
LZH	50.2 323	+iP	07 58 40.3	0.5			LZ	$M_s = 4.9$	20.0	3.00
	PMZ	$m_b = 6.1$	2.0	0.51	KMI	28.5 314	-P	15 16 49.0	1.4	
	PMZ	$m_B = 6.2$	5.0	1.62			S	15 21 33.0	0.4	
	pP	07 58 48.0	0.5				LN	$M_s = 5.2$	13.0	2.30
	eS	08 05 50.0	0.6				LZ	$M_s = 5.3$	18.0	6.40
	sS	08 06 06.0	3.7		TIA	30.8 347	eP	15 17 07.2	-0.7	
	LN	$M_s = 5.6$	17.0	2.70			LE	$M_s = 5.3$	15.0	2.94
	LE		13.0	0.80			LZ	$M_s = 4.7$	38.0	3.15
	LZ	$M_s = 5.6$	24.0	6.90	XAN	31.5 334	P	15 17 13.0	-1.4	
GTA	54.7 323	+P	07 59 13.8	-0.2			PMZ	$m_b = 5.3$	1.5	0.070
	pP	07 59 24.0	2.1				pP	15 17 22.0	1.8	
	sP	07 59 29.0	3.7				S	15 22 19.0	-1.4	
	S	08 06 54.0	3.5				LN	$M_s = 5.4$	15.0	2.90
	sS	08 07 10.0	5.1				LE		12.0	1.80
	LE	$M_s = 5.6$	13.0	2.06	CD2	31.7 324	eP	15 17 15.2	-0.9	
	LZ	$M_s = 5.5$	16.0	3.14			eS	15 22 26.5	2.1	
LSA	55.5 309	+P	07 59 21.0	1.0			LE	$M_s = 5.5$	15.0	4.70
	sP	07 59 35.0	4.1				LZ	$M_s = 5.1$	22.0	4.30
	PcS	08 04 18.5	1.5		DL2	32.8 355	+P	15 17 25.0	-0.2	
	iS	08 07 05.5	2.6				eS	15 22 38.0	-2.7	
	SMN	$m_B = 6.0$	7.0	1.40			LN	$M_s = 5.3$	14.0	2.00
WMQ	64.7 321	+iP	08 00 22.3	-0.1			LE		14.0	1.44
	PMZ	$m_B = 6.4$	5.0	2.19			LZ	$M_s = 4.8$	20.0	2.11
	S	08 08 58.0	-0.6		TIY	33.5 342	eP	15 17 30.2	-1.1	
	sS	08 09 17.0	3.7				eS	15 22 51.0	-0.7	
	LN	$M_s = 5.7$	13.0	1.34			LN	$M_s = 5.2$	11.0	1.79
	LE		13.0	1.54			LZ	$M_s = 5.1$	22.0	4.43
	LZ	$M_s = 5.6$	16.0	2.91	BJI	34.7 348	eP	15 17 40.5	-1.2	
KSH	70.9 313	-iP	08 01 02.0	0.7			eS	15 23 08.0	-2.4	
	iS	08 10 15.0	0.6				esS	15 23 20.0	-0.4	
	SME	$m_B = 6.6$	7.0	4.00			eScP	15 23 55.5	-3.4	
	LN	$M_s = 5.7$	15.0	2.10			LN	$M_s = 5.1$	14.0	1.72
							LZ	$M_s = 5.0$	20.0	2.69
					SNY	35.6 358	+iP	15 17 49.0	-0.3	
							PMZ	$m_b = 5.8$	1.4	0.22
							PMZ	$m_B = 5.6$	5.0	0.61
							sP	15 18 02.5	4.3	
							eS	15 23 20.0	-4.1	
							LN	$M_s = 5.2$	14.5	1.49
							LE		13.5	1.23
NOV 25d 15h 10m 49.9 ± 0.11s, SD1.57 / 95										
6.14 N ± 1.63km, 125.03 E ± 2.01km, h13 ± 0.06km										
Mindanao (259)										
$M_s 5.3 / 44, m_b 5.6 / 11, m_b 5.1 / 12,$										
QZN	19.6 312	eP	15 15 19.0	-1.5						
		S	15 18 50.0	-4.8						
		sS	15 19 03.0	-0.3						



LZH	35.6	330	LZ	$M_S = 5.3$	18.0	4.55	QZH	3.9	71	ePn	16 14 45.0	-0.9	
			P	15 17 50.5	0.8					Pg	16 14 57.5	0.7	
			PMZ	$m_b = 5.2$	1.5	0.060				Sg	16 15 44.0	-5.9	
			PMZ	$m_B = 5.8$	4.5	0.81				SMN	$M_L = 5.1$	0.6	4.49
			pP	15 17 56.0	0.5					SME		0.5	3.72
			PP	15 19 10.0	1.0		QZN	6.4	224	ePn	16 15 22.0	1.3	
			eS	15 23 25.0	0.2					Pg	16 15 46.9	5.5	
			LN	$M_S = 5.6$	15.0	3.00				Sn	16 16 33.6	-1.0	
			LE		16.0	3.70				Sg	16 17 09.4	0.4	
			LZ	$M_S = 5.2$	20.0	4.40				SMN	$m_B = 5.0$	8.0	1.62
HHC	36.6	343	P	15 17 58.0	-0.2					SME		7.5	1.59
			S	15 23 37.4	-1.9		WHN	6.8	358	Pn	16 15 27.5	1.2	
			SMN	$m_B = 5.5$	10.0	0.68				Sn	16 16 41.5	-3.2	
			SME		8.0	0.41				iSg	16 17 23.5	1.7	
			LN	$M_S = 5.4$	16.0	2.67				SMN	$M_L = 5.3$	0.8	1.59
			LE		12.0	0.67				SME		0.8	1.45
			LZ	$M_S = 5.2$	28.0	6.15				LE		3.0	7.23
BTO	36.9	341	eP	15 18 00.0	-0.3					LZ	$M_S = 4.6$	10.0	3.82
			pP	15 18 08.0	1.8		GYA	7.7	293	Pn	16 15 40.0	1.8	
			PP	15 19 25.0	-0.3					sP	16 15 52.0	-0.1	
			eS	15 23 40.0	-4.3					Sn	16 17 02.0	-3.9	
			SS	15 26 07.0	-4.0					SMN	$M_L = 5.2$	1.2	0.93
			LN	$M_S = 5.5$	21.0	4.90				SME		1.2	0.53
			LE		15.0	0.80				LN	$M_S = 4.9$	4.0	2.70
CN2	37.5	0	eP	15 18 06.0	0.3					LE		4.0	1.60
			PMZ	$m_b = 4.6$	1.0	0.010	NJ2	9.1	24	-P	16 16 01.0	0.2	
			PMZ	$m_B = 5.3$	5.0	0.30				S	16 17 38.0	-5.5	
			pP	15 18 14.4	2.6					LN	$M_S = 5.0$	7.0	3.73
			ePP	15 19 33.0	-0.3					LE		3.0	1.95
			ePcP	15 20 25.0	1.4					LZ	$M_S = 4.6$	8.0	2.86
			eS	15 23 50.0	-4.1		SSE	9.4	37	eP	16 16 03.0	-1.7	
			LN	$M_S = 5.2$	13.0	0.60				pP	16 16 08.5	-3.1	
			LE		13.0	1.60				eS	16 17 45.2	-5.5	
MDJ	38.5	5	eP	15 18 14.5	0.2					SMN		1.2	0.94
			S	15 24 03.0	-5.7					SME		1.2	1.13
			LE	$M_S = 5.2$	12.0	1.45				LN	$M_S = 4.8$	7.0	2.24
			LZ	$M_S = 4.8$	24.0	1.78				LE		6.0	2.15
LSA	39.6	310	eP	15 18 25.6	2.0					LZ	$M_S = 4.7$	8.0	3.40
			S	15 24 30.0	5.3		KMI	10.9	280	eP	16 16 27.5	2.5	
			SME	$m_B = 5.4$	4.0	0.30				sP	16 16 38.0	1.6	
GTA	40.2	329	P	15 18 28.2	0.1					S	16 18 28.0	2.0	
			S	15 24 34.0	0.6					LN	$M_S = 4.8$	8.0	3.20
			LE	$M_S = 5.3$	14.0	1.77				LZ	$M_S = 4.5$	8.0	1.80
			LZ	$M_S = 5.3$	16.0	3.21	XAN	11.4	336	+P	16 16 28.6	-3.6	
WMQ	49.8	325	eP	15 19 43.8	-1.1					LN	$M_S = 4.4$	10.0	1.29
			PMZ	$m_B = 5.9$	4.0	0.71	CD2	12.0	309	eP	16 16 38.3	-1.6	
			LN	$M_S = 5.6$	15.0	2.04				LE	$M_S = 4.7$	4.0	1.10
			LE		15.0	1.71				LZ	$M_S = 4.1$	12.0	0.90
			LZ	$M_S = 5.7$	17.0	6.83	TIA	12.7	9	eP	16 16 46.7	-2.2	
KSH	55.2	315	eP	15 20 26.5	1.1					LN	$M_S = 4.4$	9.0	1.15
			PP	15 22 30.0	0.7					LN	$M_S = 4.7$	9.0	1.68
			eS	15 28 07.0	-0.1		TIY	14.1	353	eP	16 17 10.8	3.0	
			LN	$M_S = 5.7$	16.0	3.20				LN	$M_S = 4.6$	10.0	2.03
<p>NOV 25d 15h 17m $04.4 \pm 0.10s$, $SD2.64/11$ $6.12 N \pm 1.55km$, $125.24 E \pm 2.48km$, $h11 \pm 0.19km$ Mindanao (259)</p>							LZH	15.4	326	eP	16 17 25.0	-0.5	
SNY	35.6	358	eP	15 24 03.7	-0.7					PMZ	$m_b = 4.3$	1.3	0.018
MDJ	38.5	5	eP	15 24 31.0	1.8					pP	16 17 33.0	0.5	
<p>NOV 25d 16h 13m $48.2 \pm 0.13s$, $SD1.63/71$ $23.71 N \pm 1.29km$, $114.56 E \pm 1.00km$, $h32 \pm 0.12km$ Near south-eastern coast of China (242) $M_S4.7/22$, $M_L5.0/8$, $m_B5.0/1$,</p>										LN	$M_S = 4.7$	8.0	1.20
GZH	1.3	241	iPg	16 14 11.2	-0.2		BJI	16.3	4	eP	16 17 38.0	1.1	
			Sg	16 14 30.0	0.6					LN	$M_S = 4.2$	10.0	0.54
			SMN	$M_L = 5.0$	0.5	19.5	BTO	17.3	348	eP	16 17 51.0	2.2	
			SME		0.5	24.9				sP	16 18 03.0	2.3	
										LN	$M_S = 4.5$	8.0	0.50
							HHC	17.3	352	eP	16 17 53.0	4.1	
										S	16 21 03.7	5.9	
										LN	$M_S = 4.7$	9.0	1.32

SNY	19.6	20	eP	16 18 16.8	0.4		
GTA	20.0	325	P	16 18 22.4	0.8		
LSA	21.7	291	P	16 18 41.2	1.8		
CN2	22.0	21	eP	16 18 41.0	-0.1		

NOV 25d 16h 22m 57.5 ± 0.07s, SD2.29 / 7
23.49 N ± 0.75km, 114.60 E ± 0.59km, h15 ± 0.24km
Near south-eastern coast of China (242)

M _L 3.6 / 6,							
GZH	1.2	251	iPn	16 23 22.2	1.6		
			Sg	16 23 39.7	3.7		
			SMN	M _L = 3.7	0.5	1.24	
			SME		0.5	1.66	
QZN	6.3	226	ePn	16 24 31.2	1.2		
			Sg	16 26 20.6	6.5		
			SMN	M _L = 3.6	0.8	0.035	
			SME		0.8	0.035	

NOV 25d 17h 02m 32.9 ± 0.11s, SD1.64 / 27
23.67 N ± 0.94km, 114.61 E ± 0.77km, h31 ± 0.25km
Near south-eastern coast of China (242)

M _S 4.4 / 2, M _L 4.6 / 12,							
GZH	1.3	244	Pn	17 02 56.0	0.5		
			Pg	17 02 57.4	0.9		
			Sg	17 03 14.9	0.1		
			SMN	M _L = 4.8	0.5	13.6	
			SME		0.5	15.1	
QZH	3.8	70	ePn	17 03 29.8	-0.6		
			Pg	17 03 42.8	1.9		
			Sg	17 04 30.5	-3.1		
			SMN	M _L = 4.3	0.6	0.75	
			SME		0.7	0.65	
QZN	6.4	225	ePn	17 04 07.6	1.9		
			Pg	17 04 31.4	5.2		
			Sn	17 05 16.8	-2.9		
			Sg	17 05 53.8	-0.2		
			SMN	M _L = 4.3	0.8	0.20	
			SME		0.6	0.16	
WHN	6.8	358	Pn	17 04 13.0	1.3		
			Sn	17 05 30.0	-0.6		
			Sg	17 06 10.0	2.4		
			SMN	M _L = 4.8	1.0	0.53	
			SME		1.0	0.37	
			LE	M _S = 4.2	5.0	1.01	
GYA	7.7	293	Pn	17 04 24.4	0.5		
			Sn	17 05 47.4	-4.9		
			SMN	M _L = 4.7	1.2	0.28	
			SME		1.2	0.15	
NJ2	9.1	23	+P	17 04 46.0	0.1		
			S	17 06 24.7	-4.1		
			SMN		1.0	0.51	
			SME		1.0	0.39	
SSE	9.4	37	eP	17 04 52.0	2.3		
			SMN		1.2	0.14	
			SME		1.0	0.11	
XAN	11.5	336	P	17 05 14.5	-3.3		
CD2	12.0	309	eP	17 05 27.5	1.9		
GTA	20.1	325	eP	17 07 07.6	0.5		

NOV 25d 18h 06m 02.7 ± 0.09s, SD1.06 / 87
18.94 N ± 1.12km, 145.82 E ± 1.59km, h210 ± 0.43km
Marianas (216)

m _b 4.8 / 9,							
SSE	25.3	303	eP	18 11 11.2	-1.0		
			PMZ	m _b = 4.8	0.5	0.013	
			sS	18 16 28.0	-3.8		
QZH	25.9	288	P	18 11 17.5	-0.2		
NJ2	27.5	304	eP	18 11 32.0	-0.3		

MDJ	29.0	336	eP	18 11 45.0	-0.2		
SNY	29.6	325	+P	18 11 49.6	-1.5		
			PMZ	m _b = 4.8			
CN2	30.1	330	eP	18 11 54.6	-0.7		
TIA	30.5	310	eP	18 12 00.0	0.9		
WHN	30.7	298	eP	18 12 01.5	0.9		
			sP	18 13 07.0	0.0		
BJI	33.0	316	eP	18 12 19.5	-1.2		
			PMZ	m _b = 4.5		1.1	0.014
			eScP	18 18 23.5	1.8		
TIY	34.6	310	eP	18 12 34.3	0.4		
XAN	36.1	302	P	18 12 45.6	-0.8		
HHC	36.5	314	eP	18 12 50.0	-0.2		
GYA	36.8	289	P	18 12 53.6	1.1		
			pP	18 13 37.0	1.2		
			PcP	18 15 11.8	2.1		
CD2	39.7	296	eP	18 13 18.3	1.3		
KMI	40.3	287	-P	18 13 23.0	1.5		
LZH	40.6	304	eP	18 13 24.0	-0.2		
GTA	44.5	307	eP	18 13 55.2	-0.3		
			PcP	18 15 35.4	0.6		
LSA	50.6	293	P	18 14 44.8	2.0		
WMQ	54.2	311	-iP	18 15 09.9	0.4		
			pP	18 15 53.0	-2.7		
			ScP	18 19 48.5	1.9		
			S	18 22 32.5	4.4		
KSH	62.9	305	eP	18 16 09.0	-0.2		

NOV 25d 18h 31m 24.9 ± 0.60s, SD2.70 / 13
39.81 N ± 1.52km, 75.19 E ± 5.36km, h27 ± km
Southern Xinjiang Province (321)

M _L 4.3 / 5, m _b 4.7 / 1,							
KSH	0.6	117	iPg	18 31 37.5	0.3		
			Sg	18 31 43.5	-2.8		
			LN			5.0	377
WMQ	10.2	63	P	18 33 51.6	-0.9		
			SMN			1.0	0.040
			SME			1.0	0.030
GTA	19.0	83	+P	18 35 47.0	-0.3		

NOV 25d 18h 54m 31.4 ± 0.08s, SD3.45 / 7
38.93 N ± 0.89km, 102.39 E ± 0.67km, h27 ± 0.39km
Gansu Province (322)

M _L 3.9 / 5,							
GTA	2.1	284	iPn	18 55 05.2	0.3		
			Pg	18 55 06.2	-1.8		
			Sg	18 55 34.0	-2.3		
			SMN	M _L = 3.9	0.5	0.90	
			SME		0.5	1.14	

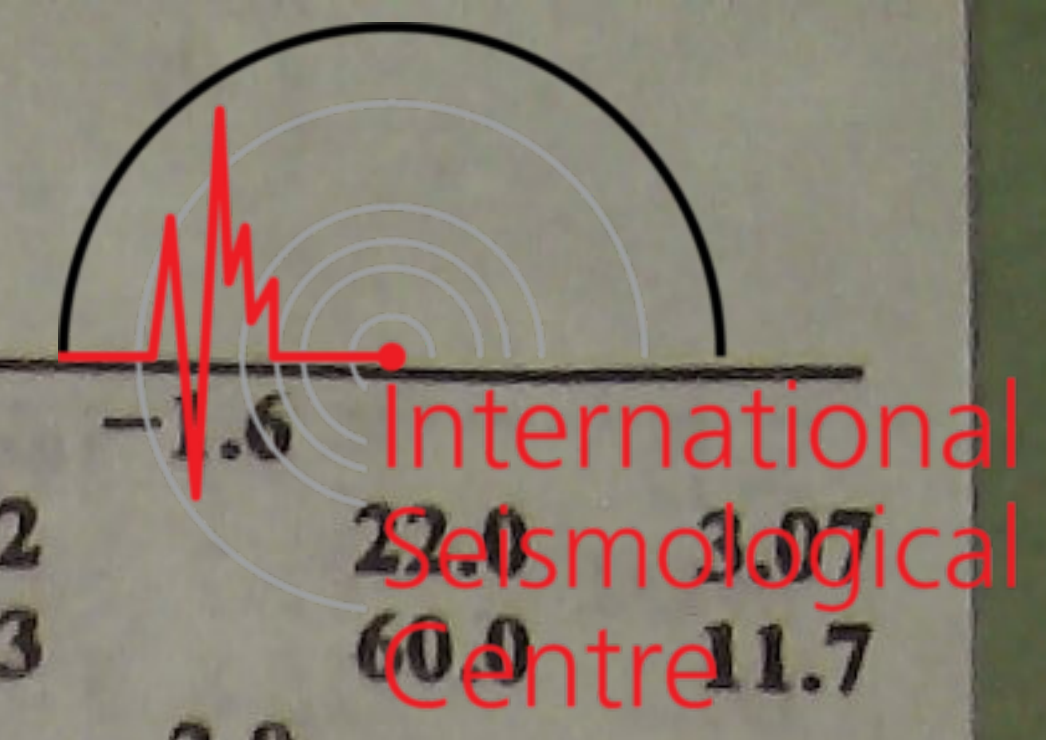
NOV 25d 20h 14m 34.4 ± 0.05s, SD0.83 / 92
0.98 N ± 1.16km, 98.85 E ± 1.10km, h112 ± 0.55km
Northern Sumatera (706)

m _b 5.6 / 15,							
QZN	20.9	30	P	20 19 10.2	0.2		
KMI	24.3	9	eP	20 19 43.5	0.5		
			sP	20 20 23.0	3.1		
GYA	26.4	16	P	20 20 02.0	-0.9		
			sP	20 20 39.4	-0.9		
			S	20 24 30.6	5.0		
			ScS	20 30 40.6	-1.8		
LSA	29.5	346	-P	20 20 31.2	0.3		
CD2	30.1	8	eP	20 20 34.2	-2.0		
WHN	32.9	25	P	20 21 00.5	0.4		
			PMZ	m _b = 5.2		1.0	0.040
XAN	34.2	15	P	20 21 09.0	-2.6		
			S	20 26 29.0	0.6		
LZH	35.2	7	-P	20 21 20.5	0.0		



			PMZ	$m_b = 4.9$	2.0	0.047	$m_b 5.2 / 10,$								
			pP	20 21 48.5	3.3		KMI	24.4	9	+P	10 57 40.5	2.8			
NJ2	36.2	29	+P	20 21 28.9	0.3					PMZ	$m_b = 5.0$				
SSE	36.7	33	+P	20 21 33.2	0.8					pP	10 58 02.0	3.9			
			PMZ	$m_b = 5.2$	1.0	0.040				eS	11 01 52.0	4.1			
			S	20 27 07.0	0.9		GYA	26.5	16	P	10 57 57.4	-0.2			
GTA	38.3	1	+P	20 21 46.0	0.2		LSA	29.5	346	P	10 58 25.4	0.0			
TIY	38.6	17	eP	20 21 49.6	0.7		XAN	34.3	15	P	10 59 05.0	-1.4			
TIA	38.9	24	P	20 21 51.5	0.2		LZH	35.3	7	P	10 59 15.0	-0.1			
BTO	40.7	13	eP	20 22 07.0	0.9		GTA	38.3	1	P	10 59 40.0	-0.4			
HHC	41.3	15	+P	20 22 12.5	1.4		TIY	38.7	17	eP	10 59 44.0	0.4			
BJI	41.9	20	+P	20 22 17.0	0.9		BTO	40.8	13	eP	11 00 01.0	0.2			
			PMZ	$m_b = 6.0$	0.8	0.22	HHC	41.4	15	P	11 00 08.0	2.2			
			eS	20 28 28.0	1.8		BJI	42.0	20	+P	11 00 12.5	1.7			
DL2	43.1	26	+iP	20 22 26.0	0.4					PMZ	$m_b = 5.4$	1.0	0.061		
			S	20 28 46.0	3.7					eS	11 06 24.0	1.2			
KSH	43.7	334	eP	20 22 30.5	0.1		WMQ	43.9	348	+iP	11 00 26.5	0.8			
WMQ	43.8	348	+iP	20 22 31.9	0.7		SNY	46.5	26	-P	11 00 45.2	-1.1			
			S	20 28 55.0	3.0					PMZ	$m_b = 5.1$	1.1	0.027		
SNY	46.4	26	+P	20 22 50.8	-0.8		CN2	48.9	26	eP	11 01 05.0	-0.1			
			PMZ	$m_b = 5.8$	1.0	0.14	MDJ	51.4	28	eP	11 01 23.5	-0.7			
CN2	48.8	26	+iP	20 23 09.5	-0.8										
			PMZ	$m_b = 5.8$	0.8	0.10									
MDJ	51.3	28	-P	20 23 29.5	0.1										
<p>NOV 25d 23h 40m $57.8 \pm 0.09s$, SD3.13 / 8 43.81 N $\pm 0.83km$, 86.26 E $\pm 0.75km$, h29 $\pm 0.38km$ Northern Xinjiang Province (332) $M_L 3.4 / 7,$</p>							<p>NOV 26d 19h 59m $58.8 \pm 0.07s$, SD1.57 / 12 24.27 N $\pm 0.86km$, 122.55 E $\pm 0.74km$, h91 $\pm 1.56km$ Taiwan region (243)</p>								
WMQ	1.0	89	Pg	23 41 16.1	-0.9		QZH	3.7	281	iP	20 00 53.7	-1.0			
			Sg	23 41 33.1	1.5					S	20 01 30.9	-5.9			
			SMN	$M_L = 2.8$	0.7	0.25				SMN		0.3	0.070		
			SME		0.6	0.19				SME		0.3	0.050		
<p>NOV 26d 08h 43m $38.1 \pm 0.08s$, SD1.91 / 43 39.75 N $\pm 2.37km$, 143.58 E $\pm 3.06km$, h37 $\pm 1.92km$ Off east coast of Honshu (229) $M_S 4.2 / 7, m_b 4.1 / 2,$</p>							<p>NOV 26d 22h 23m $57.9 \pm 0.14s$, SD4.24 / 6 30.49 N $\pm 1.10km$, 102.98 E $\pm 1.35km$, h15 $\pm 0.48km$ Sichuan Province (307) $M_L 3.1 / 5,$</p>								
MDJ	11.5	300	eP	08 46 23.5	1.1		CD2	0.8	58	iPg	22 24 11.0	-1.2			
CN2	14.1	293	eP	08 47 01.5	3.7					Sg	22 24 22.6	-0.4			
			pP	08 47 09.5	4.1					SMN	$M_L = 3.0$	0.5	0.34		
			LN	$M_S = 4.2$	15.0	0.80				SME		0.5	0.51		
			LE		15.0	0.40	GYA	5.2	140	Pg	22 25 33.6	4.3			
			LZ	$M_S = 3.9$	16.0	0.60				Sn	22 26 15.0	-1.6			
SSE	20.2	252	eP	08 48 10.0	-2.1					Sg	22 26 33.8	-5.9			
			pP	08 48 18.4	-2.8					SMN	$M_L = 3.4$	1.0	0.050		
			LE	$M_S = 4.1$	14.0	0.38				SME		1.0	0.040		
BJI	21.0	280	eP	08 48 19.0	-2.0										
			LZ	$M_S = 3.8$	16.0	0.29	NOV 27d 01h 20m $30.6 \pm 0.12s$, SD2.45 / 30 25.76 N $\pm 1.57km$, 96.37 E $\pm 1.10km$, h24 $\pm 0.15km$ Burma-India border region (294) $M_S 4.0 / 4, M_L 3.9 / 4,$								
TIA	21.1	269	eP	08 48 20.5	-1.8		LSA	6.1	311	Pn	01 22 03.2	3.4			
			LN	$M_S = 4.5$	13.0	0.40				Sn	01 23 14.9	4.9			
			LE		13.0	0.70				LN	$M_S = 3.6$	8.0	0.50		
			LZ	$M_S = 4.3$	13.0	0.80	GYA	9.3	83	P	01 22 42.8	-3.4			
TIY	24.3	275	eP	08 48 53.4	-0.4		LZH	12.1	30	eP	01 23 22.5	-2.7			
			sS	08 53 24.0	0.4					LE	$M_S = 4.2$	7.0	0.50		
			SS	08 54 06.0	4.7		XAN	13.6	50	eP	01 23 44.5	-0.9			
			LN	$M_S = 4.3$	16.0	0.54	WMQ	19.3	341	P	01 24 56.7	-0.7			
			LZ	$M_S = 4.2$	20.0	0.75	NJ2	20.6	67	eP	01 25 09.8	-1.5			
WHN	25.5	258	eP	08 49 05.1	0.0					LN	$M_S = 4.3$	12.0	0.51		
XAN	28.2	269	eP	08 49 27.8	-1.9										
GYA	33.4	258	P	08 50 16.4	0.5										
GTA	33.5	284	P	08 50 17.2	0.6										
WMQ	41.2	295	P	08 51 22.2	0.8										
<p>NOV 26d 10h 52m $26.9 \pm 0.09s$, SD1.07 / 63 0.90 N $\pm 1.71km$, 98.80 E $\pm 1.24km$, h96 $\pm 0.81km$ Northern Sumatera (706)</p>							<p>NOV 27d 08h 27m $33.9 \pm 0.10s$, SD1.22 / 91 21.95 N $\pm 1.40km$, 144.46 E $\pm 1.72km$, h70 $\pm 0.29km$ Marianas region (215) $m_b 5.1 / 15,$</p>								
							SSE	22.7	299	+iP	08 32 31.0	0.4			
										PMZ	$m_b = 5.5$	0.9	0.23		
										pP	08 32 42.2	-4.1			
										LZ	$M_S = 4.2$	22.0	0.97		
							QZH	23.9	282	+P	08 32 43.6	1.3			

NJ2	24.9	299	+P	08 32	50.0	-1.8				WMQ	51.0	324	+iP	16 13	32.1	-0.4			
MDJ	25.7	335	eP	08 33	01.4	1.8							eS	16 20	39.3	1.7			
DL2	25.8	316	P	08 33	02.0	1.3				KSH	56.7	314	P	16 14	14.4	0.8			
SNY	26.5	323	+iP	08 33	05.7	-0.9				NOV 27d 23h 54m 18.0 ± 0.10s, SD0.91 / 27									
			eS	08 37	38.0	4.4				16.36 S ± 2.06km, 173.11 W ± 1.55km, h32 ± 0.12km									
			LZ		$M_s = 4.3$		31.0	1.35		Tonga									
CN2	26.9	329	eP	08 33	10.0	-0.5				$m_b 5.1 / 3,$									
			PMZ		$m_b = 4.4$		1.0	0.010		MDJ	80.0	322	eP	24 06	26.0	-0.3			
			epP	08 33	26.0	-0.6				NJ2	81.0	307	+P	24 06	31.8	0.1			
			eS	08 37	40.0	-0.5				CN2	82.0	320	eP	24 06	36.6	-0.5			
			LZ		$M_s = 4.3$		24.0	1.00		BJI	86.3	313	eP	24 06	59.0	0.2			
TIA	27.7	307	-P	08 33	17.5	-0.2				GYA	88.7	298	P	24 07	12.8	2.2			
WHN	28.3	294	-P	08 33	23.0	0.1				NOV 28d 07h 51m 15.7 ± 0.06s, SD1.45 / 24									
			PMZ		$m_b = 5.0$		1.0	0.030		6.84 S ± 0.99km, 129.69 E ± 1.21km, h145 ± 0.21km									
			pP	08 33	37.5	-1.6				Banda Sea									
BJI	30.0	313	eP	08 33	37.0	-1.7				$m_b 4.9 / 1,$									
TIY	31.7	307	-iP	08 33	54.0	0.3				XAN	45.2	335	P	07 59	18.5	-1.5			
			eS	08 38	54.0	-3.6				LZH	49.1	332	-P	07 59	50.5	-0.5			
			LZ		$M_s = 4.2$		30.0	0.78					PMZ		$m_b = 4.9$		1.8	0.038	
XAN	33.5	299	+P	08 34	08.0	-0.7				GTA	53.7	331	eP	08 00	24.4	-0.9			
BTO	34.5	311	eP	08 34	18.0	0.0				WMQ	63.1	327	-iP	08 01	30.0	-0.5			
GYA	34.7	285	P	08 34	19.0	-0.3				NOV 28d 20h 41m 28.2 ± 0.15s, SD2.48 / 42									
CD2	37.4	293	eP	08 34	41.6	-0.2				21.99 N ± 6.59km, 143.84 E ± 3.05km, h12 ± 1.57km									
LZH	37.9	301	eP	08 34	46.0	-0.8				Marianas region									
			PMZ		$m_b = 5.4$		1.8	0.13		$M_s 4.6 / 1, m_b 5.0 / 4,$									
			LZ		$M_s = 4.6$		31.0	1.40		SSE	22.2	299	P	20 46	28.4	2.4			
KMI	38.3	283	eP	08 34	50.5	0.8							PMZ		$m_b = 4.8$		1.1	0.046	
GTA	41.7	305	+P	08 35	18.0	0.1							eS	20 50	24.0	-1.1			
LSA	48.3	291	P	08 36	11.6	0.9							LZ		$M_s = 4.0$		18.0	0.45	
WMQ	51.3	309	+iP	08 36	34.0	0.2				NJ2	24.4	300	eP	20 46	49.0	1.6			
			S	08 43	50.0	4.6				MDJ	25.4	336	eP	20 47	01.5	3.7			
			LZ		$M_s = 4.3$		28.0	0.42		SNY	26.1	324	eP	20 47	00.9	-3.0			
NOV 27d 16h 04m 42.4 ± 0.07s, SD0.91 / 98																			
5.86 N ± 0.89km, 126.81 E ± 1.26km, h144 ± 0.50km																			
Mindanao																			
$m_b 5.1 / 18,$																			
QZH	20.5	338	eP	16 09	11.2	-0.3				WHN	27.7	294	eP	20 47	18.5	-0.3			
QZN	21.1	310	+P	16 09	17.6	0.7				BJI	29.6	314	eP	20 47	35.0	-0.6			
			eS	16 12	58.0	-0.3				TIY	31.2	307	eP	20 47	50.6	0.2			
SSE	25.7	349	P	16 10	02.5	1.7							S	20 52	56.0	1.3			
			PMZ		$m_b = 5.0$		1.0	0.039					LN		$M_s = 4.6$		13.0	0.50	
NJ2	27.1	345	-P	16 10	16.7	2.7							LZ		$M_s = 4.4$		21.0	0.89	
WHN	27.2	336	+P	16 10	15.0	0.0				HHC	33.1	312	eP	20 48	02.4	-4.2			
			PMZ		$m_b = 5.2$		1.0	0.060		BTO	34.1	311	eP	20 48	12.2	-2.8			
			pP	16 10	40.5	-4.3				GYA	34.1	285	P	20 48	11.0	-4.5			
GYA	28.1	319	P	16 10	24.0	0.8				CD2	36.8	293	eP	20 48	39.0	0.7			
			pP	16 10	54.2	1.4				LZH	37.4	301	-P	20 48	44.5	0.9			
			sP	16 11	05.4	-4.5							PMZ		$m_b = 5.1$		1.8	0.063	
			S	16 14	51.2	-4.1							LZ		$M_s = 4.6$		15.0	0.70	
KMI	30.0	312	+P	16 10	40.5	0.4				GTA	41.2	305	eP	20 49	11.2	-3.8			
TIA	31.5	345	P	16 10	52.4	-0.7				WMQ	50.9	309	P	20 50	33.8	2.2			
CD2	33.0	322	+iP	16 11	05.6	-0.7				NOV 28d 21h 04m 49.0 ± 0.06s, SD1.16 / 46									
TIY	34.3	340	+iP	16 11	17.4	0.0				38.35 N ± 1.07km, 73.87 E ± 0.83km, h121 ± 0.35km									
			PMZ		$m_b = 5.3$		1.0	0.050		Tadzhikistan									
BJI	35.4	346	eP	16 11	26.0	-0.2				KSH	2.0	53	-iP	21 05	26.1	2.9			
			PMZ		$m_b = 4.6$		1.0	0.012					S	21 05	52.0	4.2			
			ePcP	16 13	55.0	2.0							SMN			2.0	2.20		
			eS	16 16	50.0	0.5				WMQ	11.8	58	-iP	21 07	33.6	-0.9			
SNY	35.9	356	-iP	16 11	31.0	-0.1							S	21 09	37.5	-6.0			
			PMZ		$m_b = 5.0$		0.8	0.025					SMN			2.0	0.060		
LZH	36.7	328	+P	16 11	38.0	0.0							SME			2.0	0.080		
HHC	37.4	341	+P	16 11	44.4	0.7				LSA	16.7	116	P	21 08	38.1	0.3			
BTO	37.7	339	eP	16 11	46.0	-0.3				GTA	20.2	79	+iP	21 09	16.8	0.0			
CN2	37.8	358	P	16 11	47.0	0.1				BTO	27.9	74	eP	21 10	29.6	-0.4			
MDJ	38.7	3	-P	16 11	54.5	0.4				HHC	29.0	73	eP	21 10	40.0	-0.1			
LSA	41.1	310	P	16 12	15.5	0.8				TIY	30.2	79	eP	21 10	50.2	-0.8			
GTA	41.3	328	+iP	16 12	16.3	0.2				BJI	32.6	74	eP	21 11	11.0	-0.6			
										WHN	34.1	91	P	21 11	24.0	-0.1			



sP		21 12 05.0	0.0						
NOV 28d 21h 31m 44.2 ± 0.12s, SD1.10 / 48									
10.97 S ± 2.71km, 165.32 E ± 2.17km, h33 ± 0.26km									
Santa Cruz Islands region (183)									
NJ2	61.7 316	-P	21 42 01.0	-0.8					
WHN	64.0 312	eP	21 42 17.6	0.2					
MDJ	64.1 332	eP	21 42 17.5	-0.3					
CN2	65.5 329	eP	21 42 27.0	0.2					
GYA	68.0 304	P	21 42 43.0	-0.1					
BJI	68.2 321	P	21 42 44.0	0.2					
TIY	69.2 317	eP	21 42 50.4	-0.1					
XAN	69.8 313	P	21 42 57.0	3.2					
KMI	70.7 302	+P	21 43 01.0	1.2					
HHC	71.5 320	P	21 43 04.6	0.2					
CD2	72.2 307	eP	21 43 08.3	-0.3					
BTO	72.4 319	eP	21 43 10.0	0.5					
LZH	74.4 312	P	21 43 20.5	-1.0					
GTA	78.7 314	-P	21 43 46.0	0.2					
NOV 29d 01h 00m 16.2 ± 0.11s, SD1.72 / 83									
15.30 S ± 5.89km, 73.17 W ± 4.17km, h70 ± km									
Southern Peru (117)									
M _S 6.2 / 22, m _B 6.1 / 19,									
KSH	143.8 42	ePKP	01 19 43.8	-0.8					
		PP	01 23 03.0	2.4					
		SKKS	01 29 44.0	2.3					
		eSS	01 41 40.0	4.3					
		LN	M _S =6.4	12.0	2.80				
MDJ	145.0 331	ePKP	01 19 45.0	-1.6					
		PKP2	01 19 47.8	1.0					
		PP	01 23 10.0	2.2					
		SKS	01 26 52.0	6.4					
		SKKS	01 29 56.0	7.0					
		LZ	M _S =6.2	32.0	5.48				
WMQ	147.2 26	iPKP	01 19 51.0	0.5					
		PP	01 23 19.0	-2.0					
		PPMZ	m _B =6.4	10.0	2.25				
		SKKS	01 30 05.5	3.3					
		LN	M _S =6.4	23.0	3.83				
		LE		23.0	4.12				
		LZ	M _S =6.5	28.0	9.80				
CN2	147.5 335	PKP	01 19 51.0	0.2					
		pPKP	01 20 09.5	0.0					
		PP	01 23 21.0	-1.3					
		PPMZ		0.7	1.20				
		PKS	01 23 22.0	-1.2					
		SKS	01 26 48.0	-1.0					
		SKKS	01 30 05.0	1.6					
		SS	01 42 16.0	-1.7					
		LN	M _S =6.3	20.0	2.80				
		LE		20.0	2.00				
		LZ	M _S =6.4	32.0	8.40				
SNY	149.9 335	ePKP	01 19 58.0	3.4					
		PKP2	01 20 05.7	-0.4					
		PP	01 23 37.0	1.4					
		PPMZ		2.0	0.31				
		SKKS	01 30 15.0	-1.2					
		LZ	M _S =6.3	40.0	9.01				
DL2	153.1 334	ePKP	01 20 00.5	1.1					
		PP	01 23 55.0	0.9					
		SKKS	01 30 32.0	-2.6					
		SS	01 43 16.0	-3.6					
		LN	M _S =6.0	14.0	1.37				
BJI	154.0 343	ePKP	01 20 02.0	1.4					
		ePP	01 23 57.0	-2.5					
		PPMZ	m _B =6.0	8.0	1.04				
		eSKKS	01 30 40.0	0.9					
		eSS	01 43 28.0	-1.6					
		LN	M _S =6.2	23.0	3.07				
		LZ	M _S =6.3	60.0	11.7				
HHC	154.2 352	PKP	01 20 03.0	2.0					
		sPKP	01 20 27.0	-0.5					
		PP	01 24 00.0	-0.5					
		LN	M _S =6.1	10.0	1.02				
		LE		9.0	0.32				
BTO	154.6 354	PKP	01 20 03.0	1.4					
		pPKP	01 20 22.0	1.7					
		PKP2	01 20 27.0	0.8					
		PP	01 24 03.0	0.5					
		SKKS	01 30 47.0	4.1					
		SS	01 43 38.0	1.8					
		LN	M _S =6.3	20.0	3.10				
		LE		20.0	1.80				
GTA	155.2 13	ePKP	01 20 02.2	-0.2					
		PKP2	01 20 30.0	1.4					
		PP	01 24 06.0	0.4					
		SKKS	01 30 49.0	2.9					
		LE	M _S =6.1	21.0	2.18				
		LZ	M _S =6.3	37.0	7.63				
TIY	157.1 348	ePKP	01 20 06.0	1.2					
		pPKP	01 20 24.5	0.9					
		PKP2	01 20 39.0	2.2					
		PP	01 24 14.5	-1.7					
		SKKS	01 31 01.0	4.3					
		LN	M _S =6.1	16.5	2.06				
		LZ	M _S =6.3	28.0	5.38				
TIA	157.2 338	ePKP	01 20 06.0	1.1					
		PKP2	01 20 37.0	-0.3					
		PP	01 24 17.0	0.2					
		PPMZ	m _B =6.2	7.0	1.57				
		SKKS	01 30 56.0	-1.2					
		SS	01 44 05.0	1.7					
		LN	M _S =6.1	58.0	5.81				
		LZ	M _S =6.1	48.0	5.57				
LZH	159.1 7	PKP	01 20 08.0	0.6					
		PKP2	01 20 44.0	-1.4					
		PKS	01 23 34.0	-4.1					
		PP	01 24 26.0	-1.1					
		SKKS	01 31 08.0	1.4					
		SS	01 44 20.0	-4.1					
		LZ	M _S =6.3	48.0	10.0				
SSE	159.5 323	PKP	01 20 09.5	1.9					
		PKP2	01 20 44.0	-3.1					
		PP	01 24 28.0	-0.9					
		SKKS	01 31 12.0	3.6					
		SS	01 44 28.0	0.2					
		LE	M _S =6.1	18.0	2.05				
		LZ	M _S =6.1	20.0	2.79				
LSA	159.7 43	PKP	01 20 08.9	0.6					
		PKP2	01 20 48.0	0.3					
		PP	01 24 25.0	-4.6					
		iSKKS	01 31 15.0	5.9					
NJ2	160.0 329	PKP	01 20 10.8	2.6					
		PKP2	01 20 48.0	-1.4					
		PP	01 24 33.5	1.8					
		PPMZ	m _B =6.2	7.0	1.75				
XAN	161.3 355	PKP	01 20 10.0	0.5					
WHN	163.3 337	PKP	01 20 13.5	2.0					
		PKP2	01 21 04.0	0.4					
		PP	01 24 49.5	0.2					
		PPMZ	m _B =6.3	8.0	2.43				
CD2	164.2 10	ePKP	01 20 12.4	-0.1					
		PP	01 24 55.0	0.4					
		PPMZ	m _B =6.1	10.0	2.22				
		SKKS	01 31 37.5	4.5					

QZH	165.4	313	LZ	$M_s = 6.0$	34.0	3.28
			cPKP	01 20 16.0	2.5	
			pPKP	01 20 34.0	1.6	
GYA	168.9	1	LZ	$M_s = 6.2$	38.0	6.12
			PKP	01 20 17.4	1.3	
			PKP2	01 21 30.0	2.1	
			PP	01 25 18.0	0.1	
			PPMZ	$m_b = 6.4$	6.0	2.40
KMI	169.5	21	LZ	$M_s = 5.9$	36.0	3.30
			PKP	01 20 17.0	0.4	
			PKP2	01 21 34.0	3.4	
			PP	01 25 21.0	0.0	
			PPMZ	$m_b = 5.9$	8.0	1.10
			SKKS	01 31 57.0	0.6	
GZH	170.1	323	LZ	$M_s = 6.3$	24.0	4.70
			LZ	$M_s = 6.4$	22.0	6.80
			-PKP	01 20 19.0	2.3	
			PP	01 25 24.0	0.0	
			SS	01 46 14.0	-1.7	
QZN	175.3	323	ePKP	01 20 15.0	-3.9	
			PP	01 25 47.0	-3.0	
			SKKS	01 32 22.0	-5.2	
			SS	01 47 04.0	-1.5	
			LE	$M_s = 6.1$	20.0	4.00

NOV 29d 05h 48m $59.8 \pm 0.11s$, $SD0.85 / 88$
 $25.26 S \pm 1.17km$, $179.72 E \pm 1.95km$, $h494 \pm 0.79km$
 South of Fiji (171)
 $m_b 5.8 / 20$, $m_b 5.5 / 22$,

QZH	77.4	305	-P	06 00 04.0	-0.9	
			S	06 09 12.0	-1.7	
			ScS	06 09 32.5	-1.6	
			sS	06 12 17.0	-4.6	
			SSE	79.2	312	+P
SSE	79.2	312	PMZ	$m_b = 5.2$	1.2	0.12
			PMZ	$m_b = 5.1$	8.0	0.64
			S	06 09 26.0	-6.8	
			LE		12.0	0.79
			LZ		20.0	0.93
GZH	80.3	301	-P	06 00 20.0	-0.5	
			S	06 09 43.0	-1.0	
QZN	81.0	296	eP	06 00 24.0	0.0	
			eS	06 09 50.0	-2.4	
NJ2	81.4	311	-P	06 00 26.6	0.6	
			PMZ		3.0	1.02
MDJ	83.3	326	S	06 09 58.0	3.3	
			-iP	06 00 36.0	0.4	
			PMZ	$m_b = 5.2$	1.5	0.12
			PMZ	$m_b = 5.7$	5.0	1.44
			pP	06 02 24.0	0.3	
WHN	83.6	308	sP	06 03 12.0	-1.3	
			PP	06 03 54.0	-2.5	
			SME	$m_b = 5.8$	8.0	1.50
			sS	06 13 24.0	-1.0	
			-iP	06 00 38.0	0.6	
			PMZ	$m_b = 5.8$	1.6	0.58
DL2	83.8	318	S	06 10 15.0	-2.1	
			P	06 00 38.0	-0.3	
SNY	84.5	321	PMZ	$m_b = 6.1$	1.5	0.96
			PMZ	$m_b = 5.6$	5.0	1.06
			SKS	06 10 10.0	-0.9	
			S	06 10 17.0	-1.8	
			SMN	$m_b = 5.8$	8.0	0.82
			SME		8.0	1.08
			-iP	06 00 41.0	-0.9	
			PMZ	$m_b = 5.5$	1.2	0.18

CN2	84.8	324	PMZ	$m_b = 5.6$	5.0	0.91
			pP	06 02 29.0	-1.5	
			sP	06 03 24.0	4.1	
			SKS	06 10 13.0	-2.8	
			S	06 10 25.0	-0.9	
TIA	85.0	314	+P	06 00 42.5	-0.9	
			PMZ	$m_b = 5.9$	1.4	0.50
			pP	06 02 31.0	-1.0	
			sP	06 03 22.0	0.6	
			SKS	06 10 13.0	-4.6	
GYA	87.2	301	S	06 10 25.0	-3.6	
			-P	06 00 44.2	0.1	
			PMZ	$m_b = 5.8$	4.0	1.28
			pP	06 02 32.0	-0.8	
			SKS	06 10 19.0	0.3	
BJI	87.8	317	SMN	$m_b = 5.9$	9.0	1.15
			SME		9.0	1.30
			-P	06 00 55.0	0.1	
			pP	06 02 45.0	1.0	
			PP	06 04 26.0	-2.9	
TIY	88.9	313	SKS	06 10 35.0	1.8	
			-P	06 00 58.0	0.3	
			PMZ	$m_b = 5.7$	1.5	0.26
			PMZ	$m_b = 5.8$	5.0	0.97
			epP	06 02 48.0	1.0	
XAN	89.4	308	esP	06 03 38.0	1.7	
			eSKS	06 10 36.0	-1.0	
			eS	06 10 56.0	-2.3	
			-iP	06 01 03.5	0.6	
			PMZ	$m_b = 6.1$	1.2	0.43
KMI	89.7	298	pP	06 02 50.0	-2.4	
			SKS	06 10 44.0	0.5	
			S	06 11 12.0	5.6	
			-iP	06 01 05.5	0.5	
			-iP	06 01 07.5	1.0	
HHC	91.2	315	PMZ	$m_b = 6.0$	1.8	0.50
			pP	06 02 56.0	0.0	
			iSKS	06 10 50.0	2.0	
			-P	06 01 14.1	0.7	
			PMZ	$m_b = 5.5$	1.4	0.097
CD2	91.6	303	pP	06 03 05.5	2.3	
			SKS	06 10 58.0	1.2	
			S	06 11 20.2	-6.3	
			+iP	06 01 16.2	0.9	
			pP	06 03 06.0	0.8	
BTO	92.1	314	iSKS	06 10 58.5	-0.6	
			S	06 11 34.0	3.9	
			-iP	06 01 17.5	0.1	
			pP	06 03 09.5	2.2	
			SKS	06 11 00.0	-1.5	
LZH	94.0	308	S	06 11 34.0	0.1	
			-P	06 01 26.5	0.1	
			PMZ	$m_b = 5.8$	1.8	0.17
			pP	06 03 15.5	-0.8	
			SKS	06 11 11.0	-1.1	
GTA	98.4	310	LZ		36.0	2.10
			-iP	06 01 45.8	-0.3	
			SKS	06 11 33.0	-2.3	
			S	06 12 32.0	4.7	
			Pdif	06 02 30.5	-0.1	
WMQ	108.4	310	ePKP	06 06 48.0	1.1	
			PP	06 08 04.0	1.0	
			eSKS	06 13 14.0	3.6	
			SKKS	06 14 06.0	1.7	
			LE		10.0	1.10

NOV 29d 13h 37m $14.3 \pm 0.20s$, $SD1.59 / 22$
 $53.10 N \pm 3.06km$, $159.38 E \pm 1.94km$, $h35 \pm 0.37km$



Near east coast of Kamchatka (218)						TIY 89.5 313 +P 07 06 49.6 0.7					
m _b 4.5/2,						NOV 30d 09h 37m 40.7 ± 0.11s, SD0.95/62					
CN2	24.1	261	eP	13 42 28.4	-0.1	22.80 S ± 0.98km, 177.54 W ± 1.86km, h297 ± 0.54km					
GTA	42.2	276	eP	13 45 06.2	0.2	South of Fiji (171)					
WMQ	46.6	289	P	13 45 41.2	0.0	m _b 4.9/7,					
NOV 29d 15h 59m 54.7 ± 0.08s, SD1.18/37						NJ2 81.7 310 +P 09 49 28.0 -0.1					
18.25 S ± 1.32km, 168.39 E ± 1.96km, h28 ± 0.36km						MDJ 82.6 325 eP 09 49 32.5 -0.6					
Vanuatu (New Hebrides) (186)						WHN 84.1 306 -P 09 49 41.0 0.3					
m _b 4.8/3,						pP 09 50 51.0 1.1					
WHN	71.1	312	eP	16 11 13.0	-0.1	SNY 84.2 320 eP 09 49 40.0 -1.2					
MDJ	71.9	332	eP	16 11 17.0	-0.8	PMZ m _b = 4.6 0.9 0.012					
CN2	73.2	329	P	16 11 25.0	-0.7	CN2 84.4 322 -P 09 49 41.4 -0.5					
BJI	75.7	321	eP	16 11 39.5	-0.4	PMZ m _b = 5.1 1.0 0.040					
TIY	76.6	317	eP	16 11 46.0	0.8	epP 09 50 49.0 -2.0					
KMI 77.1 302 -P 16 11 49.5 1.3						BJI 87.8 315 eP 09 49 57.5 -1.0					
LZ M _S = 4.9 26.0 0.85						GYA 88.2 300 P 09 50 01.0 0.8					
PMZ m _b = 5.4 2.0 0.10						TIY 89.1 312 +P 09 50 05.2 0.4					
LZH	81.5	312	eP	16 12 03.5	3.4	XAN 89.9 307 P 09 50 08.5 0.3					
GTA	85.9	314	eP	16 12 34.6	0.5	KMI 90.8 297 +P 09 50 14.5 1.9					
WMQ	95.9	314	eP	16 13 21.6	0.4	PMZ m _b = 5.1 1.5 0.10					
NOV 29d 20h 21m 02.0 ± 0.09s, SD1.30/36						NOV 30d 10h 09m 46.6 ± 0.11s, SD1.30/43					
39.64 N ± 1.63km, 143.52 E ± 2.12km, h35 ± 0.84km						1.66 N ± 1.23km, 126.46 E ± 1.53km, h34 ± 0.86km					
Off east coast of Honshu (229)						Molucca Passage (266)					
M _S 4.3/1, m _b 4.4/4,						WHN 30.9 339 eP 10 16 05.6 2.7					
BJI	21.0	280	eP	20 25 42.5	-2.3	GYA 31.1 324 P 10 16 05.6 0.7					
PMZ m _b = 4.4 1.5 0.026						XAN 36.1 335 P 10 16 47.5 -0.5					
LZ M _S = 4.0 14.0 0.41						CD2 36.2 326 eP 10 16 46.8 -1.4					
TIA	21.1	269	eP	20 25 48.2	2.4	DL2 37.3 354 eP 10 16 59.5 1.6					
TIY	24.3	275	eP	20 26 20.0	2.4	TIY 38.1 342 eP 10 17 03.4 -1.3					
LZ M _S = 4.3 16.0 0.83						BJI 39.3 348 eP 10 17 14.5 -0.1					
WHN	25.4	258	-P	20 26 29.0	0.4	SNY 40.1 357 eP 10 17 20.6 -0.1					
sP 20 26 39.5 -2.6						LZH 40.2 331 P 10 17 20.5 -1.2					
BTO	25.6	283	eP	20 26 31.2	1.5	MDJ 42.9 3 eP 10 17 46.0 2.2					
LZH	31.3	276	eP	20 27 22.0	-0.1	GTA 44.7 330 eP 10 17 58.0 -1.1					
GYA	33.3	258	P	20 27 38.2	-1.2	WMQ 54.3 326 P 10 19 12.5 0.4					
GTA	33.5	284	+P	20 27 41.0	0.5	NOV 30d 11h 41m 00.1 ± 0.05s, SD2.41/6					
WMQ	41.2	295	eP	20 28 46.7	1.2	21.69 N ± 0.38km, 99.20 E ± 0.95km, h25 ± 0.79km					
NOV 29d 20h 32m 17.1 ± 0.14s, SD1.61/30						Burma (296)					
30.25 N ± 1.83km, 68.29 E ± 1.53km, h27 ± 0.42km						M _L 4.3/4,					
Pakistan (710)						KMI 4.7 43 ePn 11 42 12.5 2.2					
M _S 4.5/1,						Pg 11 42 22.0 -1.4					
KSH	11.2	32	P	20 35 00.0	1.6	Sn 11 43 09.5 3.7					
pP 20 35 07.0 2.2						SMN M _L = 4.2 1.0 0.40					
LE M _S = 4.5 9.0 1.60						SME 1.0 0.30					
LSA	19.8	86	P	20 36 50.0	0.8	NOV 30d 14h 53m 21.4 ± 0.12s, SD1.19/71					
WMQ	20.5	43	P	20 36 56.9	0.7	21.40 N ± 1.49km, 146.07 E ± 2.05km, h32 ± 0.24km					
eS 20 40 44.0 4.3						Marianas (216)					
sS 20 40 53.0 1.7						M _S 4.8/10, m _b 4.8/10,					
LZ M _S = 4.1 15.0 0.55						SSE 24.3 299 P 14 58 36.5 -0.5					
GTA	27.3	62	eP	20 38 03.6	1.3	PMZ m _b = 4.8 1.0 0.035					
GYA	33.9	87	P	20 39 00.2	0.0	pP 14 58 45.0 -0.8					
WHN	39.5	78	eP	20 39 45.0	-2.7	eS 15 02 51.0 -0.2					
NOV 30d 06h 54m 44.1 ± 0.11s, SD1.00/22						sS 15 03 00.0 -5.4					
26.10 S ± 1.21km, 179.71 E ± 0.95km, h504 ± 1.08km						LN M _S = 4.6 12.0 0.76					
South of Fiji (171)						LZ M _S = 4.3 20.0 1.02					
m _b 4.6/2,						NJ2 26.5 299 -P 14 58 57.0 -0.7					
MDJ	83.9	327	eP	07 06 22.5	0.1	LZ M _S = 4.4 18.0 1.01					
WHN	84.1	308	eP	07 06 22.0	-1.3	MDJ 26.9 333 eP 14 59 05.5 4.0					
CN2	85.5	324	-P	07 06 30.0	0.0	DL2 27.3 315 eP 14 59 06.5 1.3					
PMZ m _b = 5.0 1.0 0.040						eS 15 03 42.0 1.1					
epP 07 08 22.0 1.5											
eS 07 16 20.0 0.7											
BJI	88.4	317	eP	07 06 44.0	0.1						

				NOV 30d 16h 45m 02.4 ± 0.05s, SD1.43 / 25							
				21.07 N ± 2.46km, 146.25 E ± 2.07km, h44 ± 1.10km							
				Marianas (216)							
				m _b 4.5 / 4,							
SNY	27.8	322	LE	M _s = 5.0	12.0	1.68	SMN	M _L = 3.6	0.6	0.30	
			LZ	M _s = 4.5	15.0	0.90	SME		0.5	0.43	
			+P	14 59 09.8	-0.3		BTO	3.1 286 ePn	15 13 31.2	3.0	
			PMZ	m _b = 4.8	1.0	0.021		Sn	15 14 10.8	3.4	
CN2	28.1	327	LZ	M _s = 4.5	20.0	1.27		SMN	M _L = 3.1	0.4 0.090	
			eP	14 59 14.0	0.8			SME		0.4 0.060	
			epP	14 59 23.0	1.0		TIA	4.4 144 Pn	15 13 46.7	1.0	
			eS	15 03 57.0	1.9			Pg	15 13 56.7	0.9	
			LN	M _s = 4.8	12.0	0.60		Sn	15 14 42.1	2.9	
			LE		12.0	0.60		Sg	15 14 52.2	-3.7	
			LZ	M _s = 4.8	16.0	1.80		SMN	M _L = 3.1	0.8 0.030	
TIA	29.2	307	P	14 59 21.8	-0.8			SME		0.6 0.028	
			LE	M _s = 4.9	12.0	1.10	-----				
			LZ	M _s = 4.6	15.0	1.15	NOV 30d 16h 45m 02.4 ± 0.05s, SD1.43 / 25				
WHN	29.9	294	+P	14 59 28.5	0.2		21.07 N ± 2.46km, 146.25 E ± 2.07km, h44 ± 1.10km				
			eS	15 04 24.0	1.8		Marianas (216)				
			sS	15 04 32.0	-5.1		m _b 4.5 / 4,				
			LZ	M _s = 4.3	20.0	0.75	SSE	24.6 299 +P	16 50 18.6	-1.2	
BJI	31.5	313	eP	14 59 44.5	1.6			PMZ	m _b = 4.6	1.0 0.024	
			eS	15 04 50.0	2.0			LZ	M _s = 4.3	12.0 0.54	
			LZ	M _s = 4.5	16.0	0.87	NJ2	26.8 300 eP	16 50 37.6	-2.7	
TIY	33.2	307	eP	14 59 58.0	-0.3		LZH	39.8 301 P	16 52 34.5	0.9	
			S	15 05 11.0	-3.6			PMZ	m _b = 5.0	1.4 0.036	
			sS	15 05 31.0	0.6		GTA	43.6 305 eP	16 53 04.0	-0.4	
			LE	M _s = 4.8	13.0	0.74	WMQ	53.2 310 -P	16 54 18.7	-0.2	
			LZ	M _s = 4.6	16.0	0.95	-----				
XAN	35.0	299	P	15 00 12.5	-1.1		NOV 30d 19h 45m 59.1 ± 0.07s, SD0.92 / 42				
HHC	35.0	312	eP	15 00 13.4	-0.3		23.35 S ± 10.26km, 178.92 W ± 11.69km, h545 ± 6.47km				
BTO	36.0	310	eP	15 00 23.0	0.9		South of Fiji (171)				
GYA	36.3	286	P	15 00 25.0	0.8		m _b 5.0 / 1, m _b 4.8 / 10,				
CD2	38.9	293	eP	15 00 46.2	-0.4		SSE	78.9 311 P	19 57 07.0	-0.7	
LZH	39.5	301	P	15 00 51.5	0.3			PMZ	m _b = 4.3	1.0 0.014	
			PMZ	m _b = 5.3	1.2	0.065	NJ2	81.0 310 +P	19 57 19.0	-0.1	
			pP	15 00 59.0	-1.2		MDJ	82.4 326 eP	19 57 26.1	0.4	
			sP	15 01 05.5	1.4		WHN	83.5 307 eP	19 57 31.2	0.0	
			S	15 06 46.0	-4.4		SNY	83.8 321 eP	19 57 32.0	-1.1	
			LZ	M _s = 4.5	18.0	0.70		PMZ	m _b = 4.6	0.8 0.019	
KMI	39.9	284	eP	15 00 56.0	1.7		CN2	84.0 323 +iP	19 57 34.0	-0.1	
			pP	15 01 05.5	2.3			PMZ	m _b = 4.8	1.0 0.030	
			eS	15 07 04.0	6.8			PMZ	m _b = 5.0	4.0 0.20	
			LZ	M _s = 4.7	16.0	0.80		epP	19 59 36.0	4.3	
GTA	43.2	305	+P	15 01 21.2	-0.8			eS	20 07 14.0	0.2	
			LZ	M _s = 4.7	14.0	0.64	TIA	84.6 313 P	19 57 36.4	-0.3	
LSA	49.8	291	P	15 02 16.1	1.6		BJI	87.3 316 eP	19 57 50.0	0.2	
WMQ	52.8	309	P	15 02 36.8	0.1		GYA	87.3 300 P	19 57 49.6	-0.3	
			eS	15 10 02.5	0.4		TIY	88.5 312 eP	19 57 55.5	-0.2	
			sS	15 10 17.5	0.2			PMZ	m _b = 5.2	1.0 0.040	
			LZ	M _s = 4.8	16.0	0.69	XAN	89.2 308 +P	19 57 59.0	0.4	
KSH	61.7	304	eP	15 03 40.0	0.7		KMI	89.9 297 +P	19 58 02.5	0.5	
				-----				HHC	90.7 315 eP	19 58 06.4	0.6
				NOV 30d 15h 12m 38.3 ± 0.07s, SD1.75 / 12				GTA	98.1 309 eP	19 58 39.0	-0.5
				39.83 N ± 0.63km, 113.95 E ± 0.59km, h7 ± 0.27km				-----			
				North-Eastern China (658)				NOV 30d 22h 48m 32.5 ± 0.08s, SD1.19 / 53			
				M _L 3.5 / 12,				2.77 N ± 1.01km, 128.35 E ± 1.55km, h144 ± 0.59km			
BJI	1.7	82	Pn	15 13 08.5	-0.5		Molucca Passage (266)				
			Pg	15 13 10.5	1.7		m _b 5.0 / 4,				
			Sn	15 13 33.5	0.4		QZH	24.0 338 eP	22 53 36.0	1.1	
			Sg	15 13 35.5	3.2		QZN	24.3 313 P	22 53 39.5	1.7	
			SMN	M _L = 3.1	0.5	0.19	WHN	30.6 336 +P	22 54 36.5	0.8	
			SME		0.5	0.22	GYA	31.4 321 P	22 54 43.0	0.2	
HHC	2.1	300	Pg	15 13 14.4	-1.0		KMI	33.2 314 +P	22 54 59.0	0.8	
			Sg	15 13 43.6	-0.2			PMZ	m _b = 5.4	1.5 0.10	
			SMN	M _L = 3.5	0.6	0.28		pP	22 55 30.0	1.4	
			SME		0.6	0.53		sP	22 55 42.0	-3.4	
TIY	2.4	210	ePn	15 13 19.4	0.7		XAN	36.0 332 +P	22 55 21.5	-0.3	
			Pg	15 13 22.2	1.2		CD2	36.4 323 eP	22 55 21.0	-3.9	
			Sn	15 13 51.1	0.8		TIY	37.7 339 eP	22 55 36.3	0.1	
			Sg	15 13 54.7	0.6		BJI	38.7 345 eP	22 55 44.0	-0.4	

			epP	22 56 15.5	-0.2		
SNY	39.1	354	eP	22 55 47.2	-0.6		
LZH	40.2	329	+P	22 55 57.5	1.0		
			PMZ	$m_b = 5.2$		1.8	0.084
HHC	40.8	340	P	22 56 02.3	0.4		
CN2	40.9	357	eP	22 56 02.0	-0.8		
MDJ	41.7	1	eP	22 56 08.8	-0.1		
LSA	44.3	311	P	22 56 31.9	1.5		
GTA	44.8	328	P	22 56 34.0	0.2		
WMQ	54.4	325	P	22 57 47.4	-0.2		
KSH	59.9	315	eP	22 58 26.4	0.2		