

4. 白木微小地震観測所観測網のデータに基づいて 決定された微小地震の震源

1968—1970

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白木微小地震観測所 (SHK) および3衛星観測点, 三川 (MKW) (1970年2月から1972年11月まで宇津戸 (UZT)), 沓ヶ原 (KUT), 布部 (FUB) における観測データに基づいて, 1968年5月から1970年6月までの約1100個の微小地震の震源が決定された。

震源の決定は白木 (SHK) で P-S が15秒以下であり, かつ少なくとも2つの衛星点で P-S が15秒以下であるような地震 (「白木微小地震観測所における観測の概要 1965-1973」(本号 pp. 1~8) の Fig. 1 に II と記した3本の弧で囲まれた地域内の地震と考えてよい。1968年は実線で示した範囲, 1969年以降は破線で示した範囲を含む) を対象として行なわれているが, この範囲外でも若干の地震は震源が決定されている。

実際の手続きは, 地震計の検知能力を考えて次のように行なわれている。まず白木の読取から P-S 10秒以下でマグニチュード1.0以上, P-S 10~15秒でマグニチュード1.5以上の地震をえらび出し, これらの地震について衛星点の記録の読取りを行なって験震表を作る。この中から, 白木を含む少なくとも3観測点で P-S が15秒以内の地震について震源決定を行なった。上の条件にあう地震については, 欠測等のためデータが不足して止むを得ないものの少数を除いてすべて震源が決定されている。マグニチュード1.0以下の地震で震源の決められているものもいくらかある。

データは原則として4観測点とも HES 地震計の記象から読取られた。白木ではやや大きい地震で HES 微小地震計がスケールアウトして S 波の到達時刻が読めない場合, Benioff 短周期地震計から読取られた。さらに大きい地震で Benioff 地震計も含めてすべての点でスケールアウトして S 時刻が読めないような場合は, 白木観測所網のデータだけでは震源が決められない。この程度の大きさの地震になると近隣の気象庁の観測所 (気象台, 測候所) の何箇所かで観測されているので, P-S が10秒以内であるような観測所のデータを使用させて頂いた。若干の地震については隣接の鳥取微小地震観測所, 高知地震観測所およびそれぞれの衛星点のデータも使用させて頂いた。但し震央距離が120 km 以上になる観測所のデータは除外したから最終的に用いられているのは比較的少数である。

1969年8月6日から24日まで, 島根-広島北部県境地方で極微小地震の臨時観測が行なわれたので [Kayano et al. (1970)] そのデータも併せ用いて震源決定を行なってある。従ってこの期間には, より小さい地震 (M の決定されていないものはすべて1.0以下) まで震源が決定されている。

使用するデータはあらかじめ t_p-t_s 図によって検査し必要と思われるものは再検測して

ある。

震源決定は次のように行なわれている。

- 1) 地表面は平面と仮定している。
- 2) 媒質は第 1 近似として均質半無限, $V_p=6.0$ km/sec, $V_p/V_s=1.732$ と仮定している。
- 3) 北緯 34° , 東経 132° を原点とし, 北向きに X , 東向きに Y , 下向きに Z ととった直交座標を用いている。
- 4) 各観測点での P 波の到達時刻 (t_p) および S 波の到達時刻 (t_s) を用いて, 発震時刻 (T), 座標 (X, Y) および震源の深さ (Z) を最小二乗法で逐次近似的に求めている。震源位置の補正量が 0.1 km 以下になった時収束したものとみなした。
- 5) 観測値には一律に 0.1 秒の標準誤差を仮定している。
- 6) 震源決定の逐次近似の過程で深さが負になった場合は, その回の残差平方和と一回前の残差平方和を比較して, 前者が小さければ深さの符号を正に変えたものに, また後者が小さければ前回の深さの値に固定してある。従って固定した場合に得られた深さの値そ

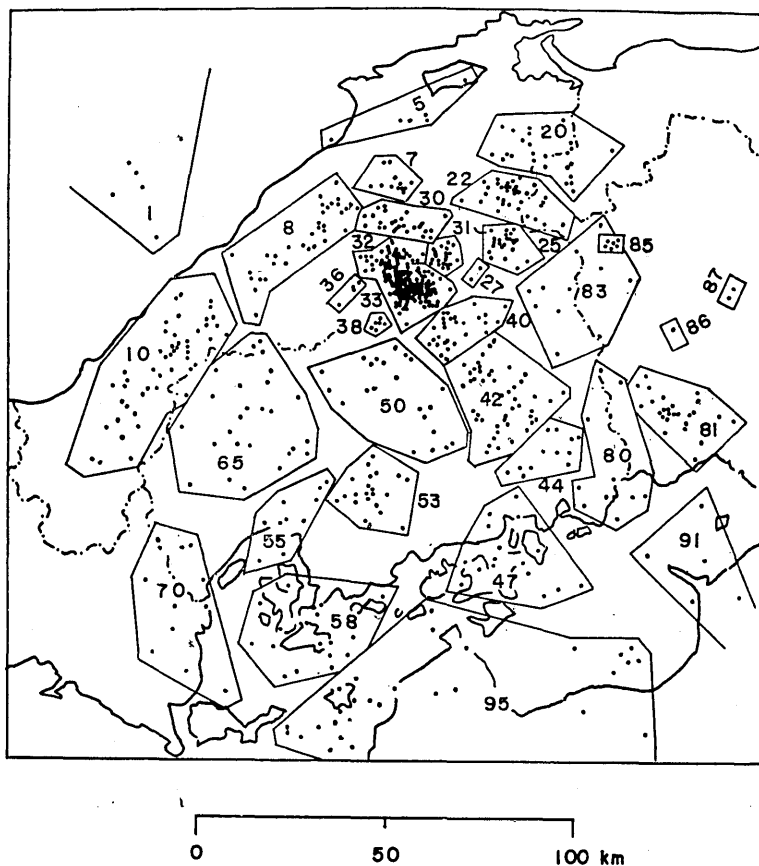


Fig. 1. Index map for seismic regions.

のものにはそれほど高い信頼度をおくことはできないが、ほとんどすべての場合ごく浅い(およそ 5 km 以浅)であることは確実と考えられる。

7) 残差が 0.5 秒を越えるデータはもう一度データの検討を行ない誤りが発見された場合は訂正された。誤りもなく読変えることも困難な場合は止むを得ず棄却した。原因の究明は後の研究にゆずる。

8) 均質媒質を仮定しているので原則として震央距離が 120 km を越えた観測点のデータは棄却した。

9) 計算は地震研究所地震予知観測センターの IBM 360/40 によって行なわれた。なお震源決定法の詳細は Kayano (1968, 1973) 参照。

1968 MAY - DEC

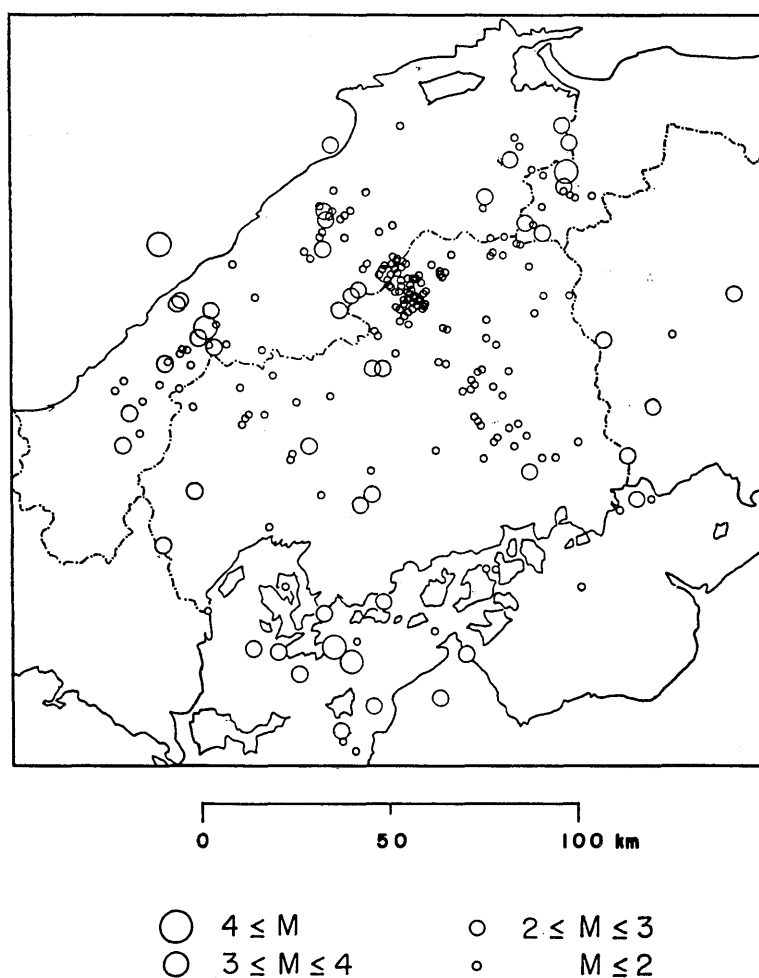


Fig. 2a.

Fig. 2. Epicentral distributions determined by Shiraki Microearthquake Observatory.

地殻構造を均質と仮定したことによる震源位置のズレの程度を見当つけるため、幾つかの例について Simulation によって検討してみた。Fig 3 A の地殻構造で●のところに地震が起こったとき、SHK, MKW, KUT の3点で観測されたデータから、B の均質モデルを用いて震源決定を行なうと震央は○のところに求められる。わきに付した数字は深さを示している。観測網の中では震央位置、深さも高々 1~2 km 程度のズレを生ずるに過ぎない。周辺部に行くほど、震央は中心寄りに、深さは深い方にズレる。震央位置のズレは大きいところでおよそ 5~7 km であるが、深さのズレは 10~20 km に達する場合がある。

Fig. 1 はここで用いている地震活動の地域区分を、Fig. 2 は年別の震央分布を示している。

Fig. 5 には深さ別およびマグニチュード別震央分布、エネルギー分布、震源分布およびエネルギー分布の垂直断面図が示されている。垂直断面図の切り方は Fig 4 に示され

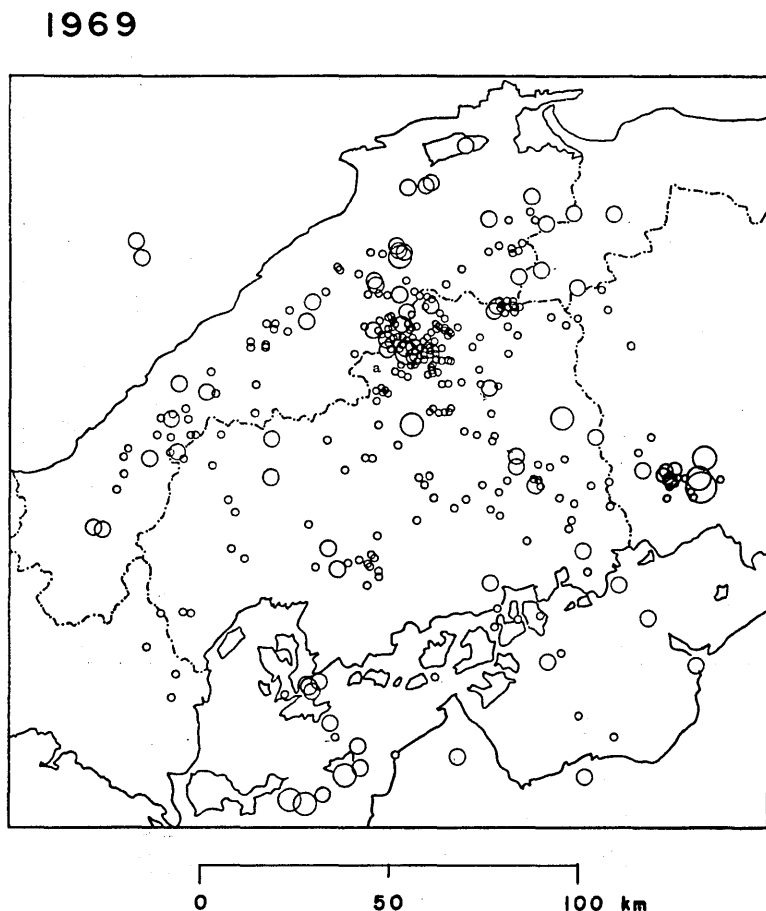


Fig. 2b.

ている。沓ヶ原付近は地震活動が非常に活発なので拡大図が作ってある。Fig. 5 (h), (j), (k) をみれば、先に述べたような理由でいくらか誇張されてはいるがそれを考慮に入れても、安芸灘、伊予灘方面の地震が深いことがわかる。このことは従来の JMA の結果でも示されている。

この地方の震央分布は Fig. 2 にみられるように NW-SE および NE-SW 方向の方向性が著しいので $N 45^{\circ}E-N 135^{\circ}W$, $N 135^{\circ}E-N 45^{\circ}W$ に切った断面図を作っているが、1970 年 3~4 月の沓ヶ原付近の群発地震は一般傾向と少し違っているので、角度をかえて数枚の断面図を作ってみた。これを見ると、 $N 30^{\circ}E-N 150^{\circ}W$ に切った図で震源分布が最もうすく (3 km 以内に集中している) 表われており、この時の地震が $N 30^{\circ}W-N 150^{\circ}E$ に配列していたことがわかる。

1970 JAN - JUN

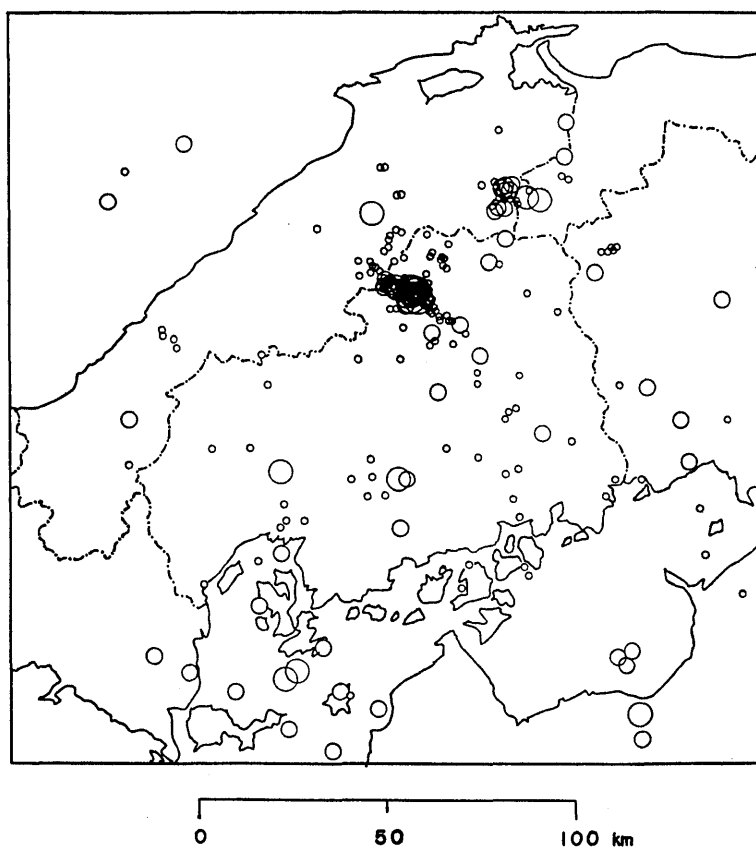


Fig. 2c.

A			B		
V P	V S	d	V P	V S	
5.5	3.17	5 km			
6.1	3.50				
		10			
6.5	3.75		6.0	3.46 km/sec	
		28			
8.0	4.60				

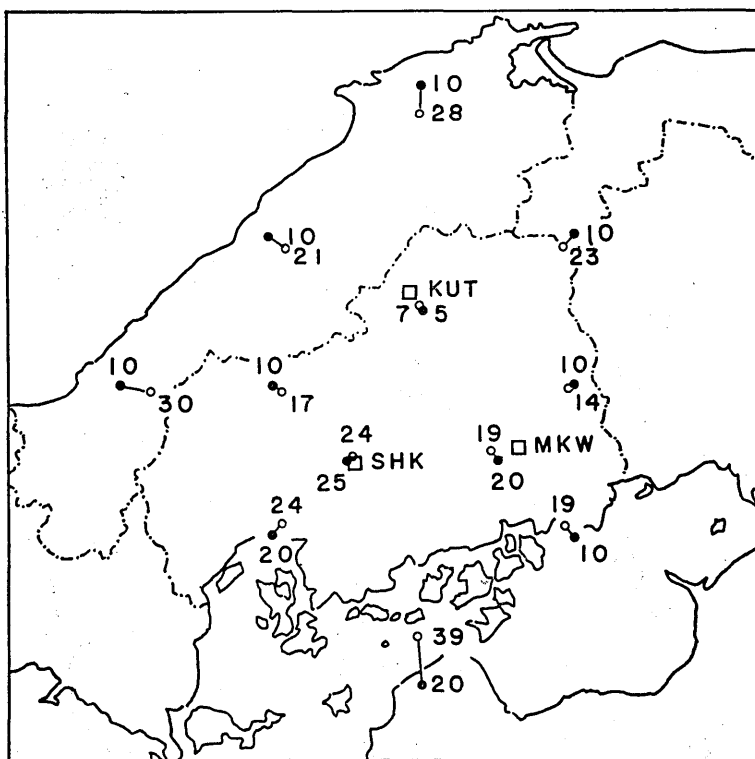


Fig. 3. Open circles show epicenters determined based on homogeneous model B from arrival times of P and S waves at SHK, MKW and KUT which were calculated for foci indicated by closed circles on the assumption of crustal model A. Annexed numerals indicate the depths.

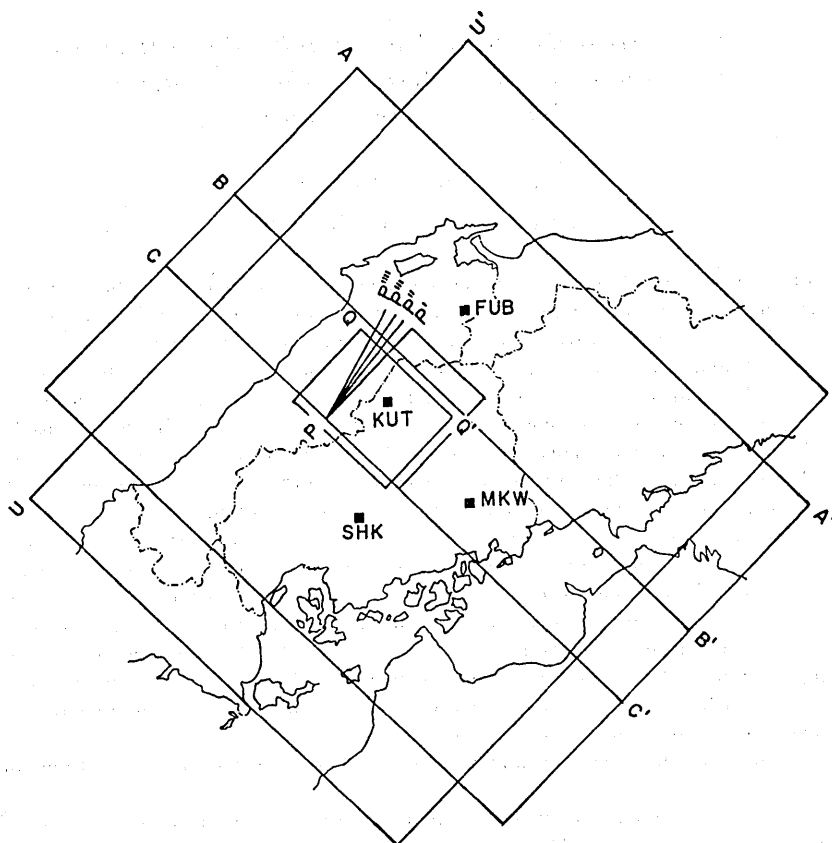


Fig. 4. Index map for vertical sections in Fig. 5.

本号の全論文を通じ、原稿を読んでいろいろご注意下さった気象大学校窪田将博士，建築研究所大竹政和氏，地震研究所宇佐美龍夫教授，神沼克伊博士の各位に厚く御礼申し上げます。

4. *Microearthquakes located by Shiraki Microearthquake
Observatory's Net in Western Honshu, Japan,
May, 1968—June, 1970.*

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About 1100 microearthquakes were located from observational data obtained by Shiraki Microearthquake Observatory and its satellite stations in western Honshu, Japan.

Origin times, epicenter locations and focal depths of earthquakes which have magnitudes larger than 1.0 and P-S times shorter than 15 sec at any three stations including Shiraki (SHK) were determined with few exceptional cases in which data are insufficient.

Earthquakes of magnitudes down to 1.3 and 2.0 can be located in the regions I and II in Fig. 1 in the previous report (p. 1-8 in this volume), respectively. Though microearthquakes of such small magnitudes as 0.5 which occurred inside of the observation net are detectable, those of magnitudes larger than 1.0 were located.

Observational data were usually interpreted on HES seismogram, but interpreted on Benioff short period seismogram in the cases in which earthquakes are so large that arrival times of S were impossible to be interpreted on HES seismogram. In such a case that earthquake is larger (for example $M=3.0$) and no arrival time of S is interpreted on seismogram at any station of Shiraki Net, observational data at several neighboring stations belonging to Japan Meteorological Agency (JMA), which have low magnification seismographs, were included. Some of observational data obtained by Tottori and Kochi Microearthquake Observatories were used in several cases.

Origin time, epicenter location and focal depth were determined by the following procedures.

1) Surface of the earth is assumed as a plane. A Cartesian coordinate system is adopted, assigning the origin at 34°N , 132°E and X direction to the North, Y to the East and Z downward.

2) Medium is assumed to be a homogeneous half space having $V_p=6.0\text{ km/sec}$ and $V_p/V_s=1.732$,

3) Observational data were inspected on t_p vs. t_{ps} chart before processing and reexamined on seismogram if necessary.

4) Origin time (T), epicenter coordinates (X , Y) and focal depth (Z) were calculated with successive approximations by the least squares method from arrival times of P and S waves at three or more stations.

5) When focal depth became negative in the course of processing, it was restrained at the depth which gave the minimum value of square sum of residuals in the previous stages.

6) The observational data of which residuals became larger than 0.5 sec are reexamined and revised or rejected if unadjustable.

7) The observational data at the stations more than 120 km apart from epicenters were excluded.

The numerical calculations and data processing were carried out by IBM 360/40 at the Earthquake Prediction Observation Center (EPOC), Earthquake Research Institute.

Table 1. Station data in western Honshu and Shikoku, Japan. Origin of X , Y coordinates is 34°N , 132°E . X is directed to the North, Y to the East. Z is the height above sea level.

The stations Nos. 1-5, 11-15 and 17-19 are belonging to the Shiraki, Tottori and Kochi Microearthquake Observatories' Net. The stations Nos. 21-40 are belonging to the Japan Meteorological Agency (JMA).

LIST OF STATIONS

ST.NO.	X	Y	Z	CODE	NAME
1	59.155	62.520	0.285	SHK	SHIRAKI
2	67.922	102.120	0.320	MKW	MIKAWA
3	105.907	75.106	0.336	KUT	KUTSU-GA-HARA
4	142.700	106.239	0.190	FUB	FUBE
5	64.650	105.429	0.230	UZT	UZUTO
6	0.0	0.0	0.0		
7	0.0	0.0	0.0		
8	0.0	0.0	0.0		
9	0.0	0.0	0.0		
10	0.0	0.0	0.0		
11	148.172	208.649	0.160	FO	FUNAOKA
12	148.246	244.715	0.260	OY	OYA
13	109.323	224.066	0.200	MZ	MIKAZUKI
14	108.042	265.609	0.230	IZ	IZUMI
15	136.304	279.698	0.250	HM	HIKAMI
16	0.0	0.0	0.0		
17	-51.393	138.163	0.020	URS	UGURUSU
18	-39.769	155.372	0.230	WMY	WAKAMIYA
19	-34.681	136.427	0.510	IHR	ISHIHARA
20	0.0	0.0	0.0		
21	168.020	199.856	0.017	TOT	TOTTORI
22	159.325	123.303	0.007	YON	YONAGO
23	161.737	98.359	0.017	MTS	MATSUE
24	99.298	6.752	0.018	HMD	HAMADA
25	40.381	40.333	0.029	HIR	HIROSHIMA
26	75.760	176.561	0.004	OKA	OKAYAMA
27	35.192	190.180	0.010	TKM	TAKAMATSU
28	-17.784	72.270	0.032	MTY	MATSUYAMA
29	170.413	259.151	0.004	TYK	TOYOOKA
30	245.129	121.829	0.026	SAI	SAIGO
31	-5.188	-97.994	0.046	SHN	SHIMONOSEKI
32	-86.127	51.914	0.043	UWA	UWAJIMA
33	-142.605	94.806	0.030	ASZ	ASHIZURI
34	-50.009	142.306	0.040	KOC	KOCHI
35	-83.523	202.515	0.185	MRT	MUROTO-MISAKI
36	-16.485	194.244	0.059	TSS	TSURUGI-SAN
37	7.221	238.418	0.002	TKS	TOKUSHIMA
38	37.224	268.683	0.109	SUM	SUMOTO
39	92.978	248.861	0.037	HIM	HIMEJI
40	76.485	293.168	0.058	KOB	KOBE

Table 2. List of seismic regions in Hiroshima and Shimane prefectures and surrounding area, Western Honshu, Japan.

NUMBER	REGION	NUMBER	REGION
1	OFF COAST OF SHIMANE	51	
2		52	
3	NEAR NAKANOUMI, MIHO-WAN	53	NEAR HACHIHONMATSU, HIROSHIMA
4		54	
5	NORTHERN PART OF SHIMANE	55	NEAR HIROSHIMA
6		56	
7	NEAR KAKEYA, SHIMANE	57	
8	CENTRAL PART OF SHIMANE	58	NEAR KURAHASHIJIMA
9		59	
10	WESTERN PART OF SHIMANE	60	
11		61	
12		62	
13	SHIMANE-YAMAGUCHI BORDER	63	
14		64	
15		65	WESTERN PART OF HIROSHIMA
16		66	
17		67	
18		68	
19		69	
20	CENTRAL SHIMANE-TOTTORI BORDER	70	HIROSHIMA-YAMAGUCHI BORDER
21		71	
22	NITA, YOKOTA AND NICHINAN	72	
23		73	
24		74	
25	NEAR EBOSHI-YAMA	75	
26		76	
27	HIWA, HIROSHIMA	77	
28		78	
29		79	
30	NEAR TONBARA, SHIMANE	80	SOUTHERN HIROSHIMA-OKAYAMA BORDER
31	CENTRAL PART OF TAKANO, HIROSHIMA	81	NEAR YAKAKE, OKAYAMA
32	NEAR AKAGI, SHIMANE	82	
33	NEAR KUTSUGAHARA	83	NORTHERN HIROSHIMA-OKAYAMA BORDER
34		84	
35		85	NEAR ASHIDACHI, OKAYAMA
36	NEAR TSUGA, SHIMANE	86	NEAR TAKAHASHI
37		87	NEAR ASAHI, OKAYAMA
38	NEAR SAKUGI, HIROSHIMA	88	
39		89	
40	MIYOSHI AND SHOBARA	90	
41		91	KAGAWA
42	EASTERN PART OF HIROSHIMA	92	
43		93	
44	NEAR FUCHU	94	
45		95	EHIME
46		96	
47	NEAR IKUCHIJIMA	97	
48		98	
49		99	
50	CENTRAL PART OF HIROSHIMA	100	OUT OF THE MAP

Table 3 (pp. 45-69). List of earthquake origins determined from observational data obtained by Shiraki Microearthquake Observatory and its satellite stations. Origin of X, Y coordinates is $34^{\circ}\text{N}, 132^{\circ}\text{E}$. X is directed to the North, Y to the East. Error in this table are standard error. S is the unbiased estimate of residual for individual observational arrival time of P or S wave.

Remarks following magnitude means as follows:

B: magnitude M_B determined from Benioff seismogram at SHK,

K: magnitude M_K determined from HES seismogram at KUT,

M: magnitude M_M determined from HES seismogram at MKW,

F: magnitude M_F determined from HES seismogram at FUB,

L: average of M_K and M_M ,

J: magnitude M determined by JMA,

+: magnitude may be larger, because traces are off scale.

No remarks: magnitude determined from HES seismogram at SHK.

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-	+/-		
1968 MAY 1	3	11	9.0	0.1	87.4	0.9	11.0	0.6	10 WESTERN PART OF SHIMANE
1968 MAY 3	3	32	40.2	0.1	103.3	0.6	14.3	0.4	10 WESTERN PART OF SHIMANE
1968 MAY 3	3	46	6.1	0.2	104.2	1.6	15.1	0.4	10 WESTERN PART OF SHIMANE
1968 MAY 3	22	26	30.3	0.1	30.1	1.1	100.4	1.1	47 NEAR IKUCHIJIMA
1968 MAY 7	4	33	14.2	0.2	129.3	1.1	52.1	1.2	8 CENTRAL PART OF SHIMANE
1968 MAY 7	18	58	38.6	0.7	134.3	3.2	117.0	3.4	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 MAY 7	22	32	33.0	0.3	100.6	0.9	108.7	1.2	33 NEAR KUTSUGAHARA
1968 MAY 8	3	25	12.0	0.2	108.6	0.7	75.8	0.6	33 NEAR KUTSUGAHARA
1968 MAY 8	15	2	18.1	0.2	65.2	0.6	103.4	0.8	42 EASTERN PART OF HIROSHIMA
1968 MAY 9	2	10	44.5	0.6	120.9	2.6	100.9	2.6	25 NEAR EROSHI-YAMA
1968 MAY 9	10	51	42.3	0.2	115.6	1.0	72.1	0.9	32 NEAR AKAGI, SHIMANE
1968 MAY 9	23	46	43.6	0.3	61.7	0.9	95.5	0.9	42 EASTERN PART OF HIROSHIMA
1968 MAY 10	6	15	47.9	0.2	105.6	1.1	76.4	0.8	33 NEAR KUTSUGAHARA
1968 MAY 10	18	1	56.5	0.2	91.0	0.5	15.3	1.0	10 WESTERN PART OF SHIMANE
1968 MAY 11	5	21	54.5	0.1	51.9	0.5	66.1	0.4	53 NEAR HACHIMONWATSU-HIROSHIMA
1968 MAY 11	13	50	55.9	0.1	106.4	0.3	75.0	0.2	33 NEAR KUTSUGAHARA
1968 MAY 13	12	20	25.8	0.3	122.3	1.2	52.6	0.9	8 CENTRAL PART OF SHIMANE
1968 MAY 13	19	8	32.4	0.4	9.6	1.6	90.7	2.5	95 EIRINE KUTSUGAHARA
1968 MAY 13	23	24	48.7	0.1	102.0	0.4	72.4	0.4	35 NEAR KUTSUGAHARA
1968 MAY 13	23	37	48.3	0.2	84.8	0.4	93.5	0.7	42 EASTERN PART OF HIROSHIMA
1968 MAY 15	3	8	32.0	0.3	85.5	0.5	74.0	0.8	42 EASTERN PART OF HIROSHIMA
1968 MAY 15	11	1	57.0	0.0	104.2	0.2	77.5	0.2	33 NEAR KUTSUGAHARA
1968 MAY 15	19	35	57.1	0.2	101.7	0.6	79.1	0.5	33 NEAR KUTSUGAHARA
1968 MAY 17	5	21	51.8	0.2	101.6	0.5	23.0	0.8	18 WESTERN PART OF SHIMANE
1968 MAY 19	4	33	44.0	0.3	127.8	1.5	53.0	1.8	18 WESTERN PART OF SHIMANE
1968 MAY 19	7	16	41.4	0.3	119.2	2.2	9.3	1.0	8 CENTRAL PART OF SHIMANE
1968 MAY 19	14	44	9.9	0.2	112.0	1.0	84.2	0.7	31 CENTRAL PART OF TAKANO-HIROSHIMA
1968 MAY 19	12	33	30.9	0.5	21.1	2.7	21.6	2.7	70 HIROSHIMA-YAMAGUCHI BORDER
1968 MAY 21	14	55	53.0	0.3	-13.6	1.2	77.9	1.8	95 EIRINE KUTSUGAHARA
1968 MAY 22	16	12	0.2	0.2	108.7	0.8	75.5	0.6	33 NEAR KUTSUGAHARA
1968 MAY 22	16	23	0.9	0.5	-16.0	2.3	61.2	3.3	33 NEAR KUTSUGAHARA
1968 MAY 23	21	55	6.0	0.3	105.9	1.3	79.1	1.3	33 NEAR KUTSUGAHARA
1968 MAY 24	7	23	40.1	0.4	91.7	0.7	92.6	1.0	42 EASTERN PART OF HIROSHIMA
1968 MAY 25	22	30	22.2	0.3	54.3	1.2	125.3	1.1	53 NEAR HACHIMONWATSU-HIROSHIMA
1968 MAY 28	7	27	4.8	0.1	77.4	0.3	100.2	0.5	42 EASTERN PART OF HIROSHIMA
1968 MAY 29	16	0	25.9	0.5	70.0	1.0	101.1	1.1	42 EASTERN PART OF HIROSHIMA
1968 MAY 29	16	38	25.2	0.5	90.0	1.0	72.0	1.2	50 CENTRAL PART OF HIROSHIMA
1968 JUN 1	15	39	10.6	0.2	117.2	0.7	97.9	0.7	25 NEAR EROSHI-YAMA
1968 JUN 1	20	9	33.1	0.2	106.2	1.1	161.1	1.5	87 NEAR ASAHI-OKAYAMA
1968 JUN 2	18	42	30.1	0.2	12.9	1.4	61.4	1.5	58 NEAR KURASHIJIMA
1968 JUN 4	2	19	51.9	0.5	74.2	1.4	36.9	2.4	65 WESTERN PART OF HIROSHIMA
1968 JUN 4	9	4	5.3	0.2	68.7	0.6	4.3	1.0	10 WESTERN PART OF SHIMANE
1968 JUN 5	3	59	28.6	0.1	76.5	0.2	17.3	0.4	65 WESTERN PART OF HIROSHIMA
1968 JUN 5	4	0	57.4	0.4	99.1	1.1	96.1	1.2	40 MIYOSHI AND SHORARA
1968 JUN 6	12	51	40.5	0.5	71.0	1.7	30.8	2.9	65 WESTERN PART OF HIROSHIMA
1968 JUN 7	4	9	12.6	0.0	108.7	0.2	78.8	0.1	33 NEAR KUTSUGAHARA
1968 JUN 8	1	53	41.0	0.4	106.3	1.8	72.5	2.0	33 NEAR KUTSUGAHARA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S						
1968 JUN 8	1	54	12.0	0.6	106.8	2.7	0.41	1.2	33 NEAR KUTSUGAHARA
1968 JUN 8	7	51	8.4	0.5	109.5	2.1	0.26	1.0	33 NEAR KUTSUGAHARA
1968 JUN 9	18	3	58.9	0.4	108.5	2.0	0.31	1.2	33 NEAR KUTSUGAHARA
1968 JUN 9	19	1	12.1	0.4	92.7	1.1	0.27	1.4	10 WESTERN PART OF SHIMANE
1968 JUN 9	21	30	44.1	0.3	109.4	1.3	0.19	0.7	33 NEAR KUTSUGAHARA
1968 JUN 10	11	14	36.8	0.5	3.4	2.1	0.29	2.4	95 EHIME
1968 JUN 10	18	1	11.9	0.5	3.8	3.4	0.37	2.3	58 NEAR KURASHIJIMA
1968 JUN 11	9	0	25.1	0.3	119.0	1.2	0.18	1.7	25 NEAR EROSHI-YAMA
1968 JUN 11	18	5	17.3	0.3	131.4	1.6	0.22	2.0	22 NITA, YOKOTA AND NICHINAN
1968 JUN 11	23	26	0.9	0.3	111.8	1.2	0.18	1.2	32 NEAR AKAGI, SHIMANE
1968 JUN 13	17	25	12.5	0.3	-0.0	1.8	0.16	2.5	58 NEAR KURASHIJIMA
1968 JUN 14	18	48	15.7	0.5	111.6	2.3	0.16	2.5	32 NEAR AKAGI, SHIMANE
1968 JUN 14	18	50	28.6	0.1	111.8	0.2	0.03	1.1	32 NEAR AKAGI, SHIMANE
1968 JUN 15	4	34	49.2	0.5	27.4	2.6	0.28	1.9	58 NEAR KURASHIJIMA
1968 JUN 17	0	18	33.7	0.6	80.0	2.3	0.30	1.6	10 WESTERN PART OF SHIMANE
1968 JUN 17	6	41	28.8	0.5	100.1	1.7	0.33	1.2	33 NEAR KUTSUGAHARA
1968 JUN 17	8	4	13.9	0.6	113.8	2.7	0.41	1.3	31 CENTRAL PART OF TAKANO, HIROSHIMA
1968 JUN 17	13	25	24.3	0.4	73.5	1.1	0.20	1.3	65 WESTERN PART OF HIROSHIMA
1968 JUN 18	10	54	2.7	0.5	64.9	2.2	0.29	2.0	10 WESTERN PART OF SHIMANE
1968 JUN 18	13	47	11.8	0.3	87.8	1.1	0.34	2.0	95 EHIME
1968 JUN 18	15	57	8.9	0.5	-9.2	2.4	0.17	1.7	10 WESTERN PART OF SHIMANE
1968 JUN 18	21	43	15.6	0.3	16.8	1.5	0.14	2.0	70 HIROSHIMA-YAMAGUCHI BORDER
1968 JUN 19	20	41	3.3	0.6	105.5	3.5	0.32	1.5	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1968 JUN 22	0	38	36.0	0.1	101.6	0.6	0.24	1.1	33 NEAR KUTSUGAHARA
1968 JUN 22	23	3	34.6	0.2	-21.3	1.7	0.13	3.6	95 EHIME
1968 JUN 23	22	10	6.6	0.4	131.9	1.8	0.13	1.3	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 JUN 24	7	24	55.4	0.2	93.3	0.6	0.12	2.0	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1968 JUN 25	21	43	47.6	0.4	132.1	2.1	0.27	1.9	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 JUN 28	3	28	41.0	0.0	68.2	0.0	0.00	1.3	42 EASTERN PART OF HIROSHIMA
1968 JUN 28	22	22	52.8	0.1	113.4	0.2	0.06	1.0	32 NEAR AKAGI, SHIMANE
1968 JUN 30	7	0	36.6	0.1	110.5	0.5	0.06	1.8	33 NEAR KUTSUGAHARA
1968 JUN 30	23	12	18.0	0.4	122.3	1.8	0.24	1.7	8 CENTRAL PART OF SHIMANE
1968 JUL 1	4	7	19.0	0.1	116.0	0.3	0.04	1.2	32 NEAR AKAGI, SHIMANE
1968 JUL 2	13	2	12.7	0.4	43.3	1.9	0.27	1.5	55 NEAR HIROSHIMA
1968 JUL 3	18	51	10.2	0.2	82.5	0.3	0.12	1.0	42 EASTERN PART OF HIROSHIMA
1968 JUL 4	12	29	54.0	0.3	104.3	1.0	0.16	1.1	33 NEAR KUTSUGAHARA
1968 JUL 5	21	23	1.1	0.1	127.3	0.4	0.05	1.5	8 CENTRAL PART OF SHIMANE
1968 JUL 5	14	13	23.9	0.3	126.0	1.5	0.21	1.9	8 CENTRAL PART OF SHIMANE
1968 JUL 5	16	30	12.2	0.1	127.5	0.6	0.09	1.8	8 CENTRAL PART OF SHIMANE
1968 JUL 6	9	51	53.2	0.3	150.8	1.5	0.10	2.3	42 EASTERN PART OF HIROSHIMA
1968 JUL 6	9	5	38.9	0.2	67.1	0.5	0.17	1.2	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 JUL 9	17	3	42.1	0.2	111.1	0.9	0.12	1.3	31 CENTRAL PART OF TAKANO, HIROSHIMA
1968 JUL 9	17	59	32.5	0.0	100.8	0.2	0.03	1.9	33 NEAR KUTSUGAHARA
1968 JUL 10	1	20	11.7	0.1	104.3	0.4	0.06	0.8	33 NEAR KUTSUGAHARA
1968 JUL 10	15	20	11.1	0.2	114.3	1.0	0.14	1.4	32 NEAR AKAGI, SHIMANE
1968 JUL 10	16	25	31.1	0.3	110.3	1.3	0.19	1.1	33 NEAR KUTSUGAHARA
1968 JUL 11	10	51	44.6	0.1	120.3	0.5	0.07	1.6	8 CENTRAL PART OF SHIMANE
1968 JUL 12	23	27	33.6	0.1	57.8	0.3	0.05	2.0	44 NEAR FUCHO

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S		±/°	±/°			
1968 JUL 13	10	43	21.8	63.2	0.3	20.5	0.05	1.3	65 WESTERN PART OF HIROSHIMA
1968 JUL 13	11	16	32.5	7.6	3.2	57.9	0.39	3.0	58 NEAR KURASHIJIMA
1968 JUL 15	11	21	50.2	61.6	0.5	22.0	0.10	1.1	65 WESTERN PART OF HIROSHIMA
1968 JUL 15	20	31	30.7	113.9	0.6	24.9	0.09	1.2	8 CENTRAL PART OF SHIMANE
1968 JUL 15	22	15	41.2	103.1	0.5	79.7	0.07	1.8	33 NEAR KUTSUGAHARA
1968 JUL 18	5	16	16.9	107.2	0.5	79.8	0.07	1.1	33 NEAR KUTSUGAHARA
1968 JUL 19	15	3	59.3	107.1	0.5	62.3	0.08	2.2	36 NEAR TSUGA, SHIMANE
1968 JUL 20	23	17	8.8	85.2	0.2	19.2	0.05	1.1	42 EASTERN PART OF HIROSHIMA
1968 JUL 23	1	53	20.2	101.3	0.5	57.1	0.10	2.1	36 NEAR TSUGA, SHIMANE
1968 JUL 23	2	25	26.4	115.3	2.2	71.8	0.26	1.0	32 NEAR AKAGI, SHIMANE
1968 JUL 24	8	0	36.8	90.1	0.6	16.5	0.12	2.0	10 WESTERN PART OF SHIMANE
1968 JUL 30	12	9	44.4	58.9	1.4	-12.9	0.15	2.3	33 NEAR KUTSUGAHARA
1968 AUG 1	6	43	21.8	103.5	1.1	78.2	0.19	1.6	33 NEAR KUTSUGAHARA
1968 AUG 2	2	53	13.3	73.9	2.4	19.8	0.36	2.0	10 WESTERN PART OF SHIMANE
1968 AUG 4	4	30	38.4	109.5	1.9	74.3	0.15	0.7	33 NEAR KUTSUGAHARA
1968 AUG 4	10	46	16.0	113.0	0.6	107.6	0.10	0.7	33 NEAR KUTSUGAHARA
1968 AUG 5	4	12	48	49.4	0.2	62.3	0.05	2.0	33 NEAR KUTSUGAHARA
1968 AUG 5	22	1	59.6	105.5	4.6	111.3	0.22	0.8	33 NEAR KUTSUGAHARA
1968 AUG 6	20	42	37.6	61.8	0.4	114.1	0.07	1.5	83 NEAR KUTSUGAHARA
1968 AUG 8	5	33	55.0	87.0	0.4	85.3	0.07	1.8	40 NEAR TSUGA AND SHOBARA
1968 AUG 8	17	47	21.5	80.9	0.3	104.5	0.08	1.1	45 EASTERN PART OF HIROSHIMA
1968 AUG 10	3	40	37.0	110.8	0.8	71.2	0.11	0.7	33 NEAR KUTSUGAHARA
1968 AUG 12	2	43	56.4	80.3	0.9	14.4	0.14	1.4	33 NEAR KUTSUGAHARA
1968 AUG 13	7	18	14.8	94.1	0.6	67.0	0.16	1.1	33 NEAR KUTSUGAHARA
1968 AUG 13	15	10	49.2	109.6	1.1	75.5	0.10	1.1	33 NEAR KUTSUGAHARA
1968 AUG 13	19	4	43.7	95.8	0.4	66.7	0.10	1.1	33 NEAR KUTSUGAHARA
1968 AUG 13	19	47	22.5	-10.3	2.3	57.2	0.10	1.0	33 NEAR KUTSUGAHARA
1968 AUG 14	6	10	24.1	70.6	0.5	77.1	0.19	2.2	95 SHIMANE AND SHOBARA
1968 AUG 15	13	21	10.9	137.6	0.8	54.1	0.31	1.6	10 WESTERN PART OF SHIMANE
1968 AUG 16	5	3	35.3	124.7	1.1	111.3	0.16	1.3	50 CENTRAL PART OF HIROSHIMA
1968 AUG 16	11	19	56.4	124.7	0.3	195.7	0.16	2.0	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 AUG 17	0	24	47.3	20.5	0.2	68.6	0.07	2.1	22 NITA-YUKOTA AND NICHINAN
1968 AUG 18	16	37	12.6	-20.2	3.4	81.0	0.08	2.4	42 EASTERN PART OF HIROSHIMA
1968 AUG 19	10	42	4.0	116.8	2.3	195.7	0.32	2.4	58 NEAR KURASHIJIMA
1968 AUG 19	22	10	55.0	114.9	1.1	71.0	0.16	1.1	95 SHIMANE
1968 AUG 20	2	48	24.5	98.6	0.6	73.0	0.15	1.1	31 CENTRAL PART OF TAKANO, HIROSHIMA
1968 AUG 23	3	36	11.0	104.7	0.6	78.0	0.15	1.4	33 NEAR AKAGI, SHIMANE
1968 AUG 23	3	36	11.0	105.6	0.4	76.4	0.10	1.6	33 NEAR KUTSUGAHARA
1968 AUG 23	7	58	37.9	102.7	0.5	77.3	0.05	1.5	33 NEAR KUTSUGAHARA
1968 AUG 23	8	25	42.6	116.0	1.0	97.0	0.08	1.3	33 NEAR KUTSUGAHARA
1968 AUG 23	8	37	21.2	104.7	1.0	77.9	0.16	1.1	25 NEAR EROSHI-YAMA
1968 AUG 23	15	27	28.8	102.7	0.7	77.3	0.16	1.1	33 NEAR KUTSUGAHARA
1968 AUG 23	15	38	19.0	112.3	0.4	72.3	0.16	2.3	33 NEAR KUTSUGAHARA
1968 AUG 23	15	38	19.0	112.3	0.4	72.3	0.16	2.3	33 NEAR KUTSUGAHARA
1968 AUG 25	5	15	18.4	102.9	0.2	76.4	0.06	1.7	33 NEAR AKAGI, SHIMANE
1968 AUG 27	21	15	14.1	52.8	3.0	18.4	0.41	2.3	65 WESTERN PART OF HIROSHIMA
1968 AUG 28	5	23	48.7	124.3	0.6	71.5	0.08	1.2	30 NEAR TONBARA, SHIMANE
1968 AUG 29	3	4	37.0	104.2	0.1	75.7	0.02	1.2	33 NEAR KUTSUGAHARA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)		S	MAG	REGION
	H	M	S	+/-	+/-	+/-	+/-			
1968 AUG 31	1 42	30.1	0.7	25.1	44.8	4.4	62.0	4.1	0.46	58 NEAR KURASHIJIMA
1968 SEP 1	13 8	28.7	0.2	128.3	54.9	1.2	10.6	3.3	0.15	8 CENTRAL PART OF SHIMANE
1968 SEP 2	0 49	55.2	0.4	52.1	52.0	1.6	21.3	1.6	1.4	58 NEAR HIROSHIMA
1968 SEP 3	19 3	24.9	0.4	103.4	74.4	1.0	3.9	8	0.20	33 NEAR KUTSUGAHARA
1968 SEP 4	10 21	6.7	0.1	51.1	135.4	2.0	29.8	2.7	0.23	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1968 SEP 5	10 28	44.9	0.2	50.9	138.4	1.0	30.3	1.4	0.10	33 NEAR KUTSUGAHARA
1968 SEP 6	12 38	45.4	0.3	75.9	140.2	1.6	20.2	3.1	0.17	81 NEAR YAKAKE, OKAYAMA BORDER
1968 SEP 7	16 44	58.2	0.1	62.5	133.4	0.2	35.5	0.3	0.03	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1968 SEP 8	4 8	1.4	0.4	118.5	104.6	1.7	8.1	8.2	0.25	25 NEAR EROSHI-YAMA
1968 SEP 9	11 16	18.2	0.0	104.2	77.0	0.1	6.2	0.2	0.02	33 NEAR KUTSUGAHARA
1968 SEP 10	4 50	28.2	0.3	129.0	111.1	1.8	13.9	6.2	0.22	22 NITA, YOKOTA AND NICHINAN
1968 SEP 11	14 49	52.7	0.2	94.7	145.4	1.2	28.1	2.3	0.12	86 NEAR TAKAHASHI
1968 SEP 12	14 44	9.2	0.3	65.9	97.7	1.0	19.1	1.6	0.17	42 EASTERN PART OF HIROSHIMA
1968 SEP 13	14 55	31.0	0.3	145.1	104.8	1.4	2.1	R	0.21	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 SEP 14	21 59	54.6	0.1	104.1	76.9	0.3	8.1	0.6	0.07	33 NEAR KUTSUGAHARA
1968 SEP 15	22 0	49.8	0.1	104.3	77.4	0.2	5.8	0.3	0.03	33 NEAR KUTSUGAHARA
1968 SEP 16	3 12	20.9	0.5	147.6	103.4	2.3	1.4	R	0.32	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 SEP 17	4 53	57.1	0.3	39.0	10.2	1.7	33.1	2.8	0.15	70 HIROSHIMA-YAMAGUCHI BORDER
1968 SEP 18	2 57	6	0.2	139.6	100.3	1.0	26.9	1.8	0.11	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 SEP 19	18 3	48.0	0.3	141.4	102.2	1.9	26.3	3.6	0.21	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 SEP 20	10 31	42.7	0.1	113.8	74.1	0.5	7.6	0.6	0.09	32 NEAR AKAGI, SHIMANE
1968 SEP 21	0 47	10.9	0.2	116.0	84.9	0.2	11.2	0.4	0.04	31 CENTRAL PART OF SHIMANE
1968 SEP 22	4 55	51.6	0.3	117.8	52.9	1.5	14.5	2.8	0.19	8 CENTRAL PART OF SHIMANE
1968 SEP 23	8 53	49.5	0.1	124.4	108.7	0.5	12.8	1.8	0.07	22 NITA, YOKOTA AND NICHINAN
1968 SEP 24	15 20	35.1	0.3	94.1	96.2	0.8	10.1	2.8	0.17	40 MIYOSHI AND SHORARA
1968 SEP 25	15 11	12.6	0.4	133.0	67.7	2.3	26.5	2.5	0.28	7 NEAR KAKEYA, SHIMANE
1968 OCT 3	15 54	38.2	0.1	98.0	75.7	0.3	12.5	0.6	0.06	33 NEAR KUTSUGAHARA
1968 OCT 4	1 1	48.2	0.3	48.0	130.4	1.5	25.5	2.2	0.18	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1968 OCT 5	4 23	15.8	0.3	109.5	74.0	1.0	2.4	R	0.19	33 NEAR KUTSUGAHARA
1968 OCT 6	11 56	36.2	0.2	122.7	67.7	0.9	12.5	1.3	0.12	30 NEAR TONBARA, SHIMANE
1968 OCT 7	1 36	11.2	0.0	110.9	78.1	0.0	1.9	0.2	0.00	33 NEAR KUTSUGAHARA
1968 OCT 8	13 50	34.4	0.2	114.3	70.5	0.6	7.4	0.8	0.10	32 NEAR AKAGI, SHIMANE
1968 OCT 9	2 24	0.2	0.1	112.4	68.3	0.5	6.4	0.8	0.08	32 NEAR AKAGI, SHIMANE
1968 OCT 10	10 51	56.4	0.3	114.2	64.4	1.2	18.8	1.3	0.18	32 NEAR AKAGI, SHIMANE
1968 OCT 11	5 15	48.0	0.1	-1.9	83.4	0.6	52.4	0.9	0.09	95 EHIME
1968 OCT 12	20 58	6.3	0.5	15.4	81.8	2.7	56.6	R	0.33	95 EHIME
1968 OCT 13	20 58	53.9	0.1	96.3	85.2	0.3	8.3	1.1	0.06	40 MIYOSHI AND SHORARA
1968 OCT 14	1 10	23.3	0.6	80.6	170.4	2.0	16.8	3.6	0.42	100 OUT OF THE MAP
1968 OCT 15	11 50	59.7	0.3	92.3	98.2	0.9	5.7	5.0	0.18	40 MIYOSHI AND SHORARA
1968 OCT 16	22 57	37.4	0.5	114.6	78.8	1.4	1.1	R	0.30	32 NEAR AKAGI, SHIMANE
1968 OCT 17	22 57	37.4	0.1	112.5	78.2	0.4	2.7	1.0	0.06	32 NEAR AKAGI, SHIMANE
1968 OCT 18	12 34	56.0	0.3	104.4	78.1	1.1	9.0	1.6	0.18	33 NEAR KUTSUGAHARA
1968 OCT 19	4 18	55.2	0.2	81.7	9.6	0.9	22.5	4.1	0.15	10 WESTERN PART OF SHIMANE
1968 OCT 20	14 59	20.1	0.3	64.9	49.4	0.9	23.0	1.4	0.18	65 WESTERN PART OF HIROSHIMA
1968 OCT 21	22 56	6.0	0.3	80.4	30.7	1.6	14.9	4.0	0.19	50 CENTRAL PART OF HIROSHIMA
1968 OCT 22	9 56	8.3	0.2	86.1	66.2	0.4	2.2	12.7	0.15	33 NEAR KUTSUGAHARA
1968 OCT 23	17 55	10.4	0.0	104.9	78.9	0.0	7.6	0.1	0.01	1.1

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION				
	H	M	S	+/-	+/-	+/-							
1968 OCT 24	14	25	27.2	0.4	125.6	1.8	53.4	2.0	16.4	3.7	0.25	2.0	8 CENTRAL PART OF SHIMANE
1968 OCT 25	0	52	24.7	0.7	109.5	2.7	69.7	2.2	11.3	3.1	0.35	1.5	33 NEAR KUTSUGAHARA
1968 OCT 25	15	20	50.1	0.1	133.6	0.7	117.6	0.7	24.2	1.6	0.07	1.8	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 OCT 26	22	33	40.6	0.0	110.4	0.1	76.0	0.1	4.7	0.2	0.01	1.8	33 NEAR KUTSUGAHARA
1968 OCT 27	3	17	48.9	0.0	63.4	0.0	82.3	0.0	10.9	0.1	0.01	0.9	50 CENTRAL PART OF HIROSHIMA
1968 OCT 28	2	2	50.2	0.1	96.6	1.1	21.5	0.5	0.9	R	0.17	3.1	10 WESTERN PART OF SHIMANE
1968 OCT 28	4	34	45.4	0.3	89.9	1.2	14.4	2.2	21.1	5.8	0.22	1.7	10 WESTERN PART OF SHIMANE
1968 OCT 28	9	22	56.9	0.2	11.0	1.7	34.0	1.1	70.2	R	0.10	2.9	58 NEAR KIRAHASHIJI
1968 OCT 28	11	40	6.6	0.6	92.4	2.0	22.6	5.9	23.1	9.8	0.29		10 WESTERN PART OF SHIMANE
1968 OCT 29	7	32	26.9	0.3	66.1	1.1	119.9	1.5	21.3	1.5	0.20	1.5	44 NEAR FUCHU
1968 OCT 30	6	42	23.2	0.0	114.0	0.2	69.1	0.1	6.1	0.2	0.02	1.5	32 NEAR AKAGI, SHIMANE
1968 OCT 31	21	13	28.8	0.4	62.0	1.3	110.9	1.7	18.6	1.7	0.23	1.4	44 NEAR FUCHU
1968 OCT 31	23	57	31.2	0.4	102.6	1.4	79.5	1.2	9.0	2.6	0.25	1.2	33 NEAR KUTSUGAHARA
1968 NOV 1	22	28	58.7	0.2	105.5	0.9	78.5	0.7	6.1	1.3	0.14	1.2	33 NEAR KUTSUGAHARA
1968 NOV 1	23	11	35.7	0.1	85.6	0.2	68.5	0.4	12.5	1.3	0.08	2.1	50 CENTRAL PART OF HIROSHIMA
1968 NOV 4	0	28	14.6	0.1	114.6	0.4	71.2	0.4	9.0	0.4	0.06	1.1	32 NEAR AKAGI, SHIMANE
1968 NOV 6	17	9	49.3	0.2	106.5	0.7	76.2	0.5	11.7	0.7	0.10	1.5	33 NEAR KUTSUGAHARA
1968 NOV 7	17	42	44.1	0.0	108.3	0.2	73.3	0.1	6.3	0.1	0.02	1.3	33 NEAR KUTSUGAHARA
1968 NOV 8	0	18	14.3	0.4	96.7	1.0	84.8	1.0	14.9	2.6	0.24	1.5	40 MIYOSHI AND SHORARA
1968 NOV 11	13	56	45.7	0.1	116.5	0.5	100.5	0.5	10.2	1.7	0.08	1.8	25 NEAR EROSHI-YAMA
1968 NOV 12	17	21	3.5	0.1	76.8	0.6	4.8	0.9	16.7	3.4	0.09	1.2	10 WESTERN PART OF SHIMANE
1968 NOV 13	22	3	29.0	0.1	138.9	0.5	108.2	0.6	26.6	1.4	0.06	1.5	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 NOV 15	12	40	27.8	0.1	93.9	1.2	20.3	0.6	0.0	R	0.26	2.8	10 WESTERN PART OF SHIMANE
1968 NOV 16	20	26	52.3	0.3	80.8	0.5	97.6	0.7	14.0	1.9	0.14	0.6	42 EASTERN PART OF HIROSHIMA
1968 NOV 18	4	6	58.5	0.1	32.4	0.3	98.1	0.2	17.8	0.8	0.04	1.5	47 NEAR IKUCHIJI
1968 NOV 20	3	23	30.2	0.4	104.7	1.4	34.9	2.3	22.7	4.3	0.27	1.3	8 CENTRAL PART OF SHIMANE
1968 NOV 22	7	10	49.7	0.3	109.3	1.2	70.0	1.1	8.7	1.3	0.19	1.0	33 NEAR KUTSUGAHARA
1968 NOV 22	10	40	34.5	0.1	102.6	0.4	75.5	0.9	4.6	R	0.18	0.8	33 NEAR KUTSUGAHARA
1968 NOV 22	14	35	1.4	0.3	73.2	0.9	32.7	1.7	20.9	2.8	0.20	1.6	65 WESTERN PART OF HIROSHIMA
1968 NOV 23	13	0	19.4	0.2	120.9	1.0	97.1	1.0	11.5	2.9	0.15	2.2	25 NEAR EROSHI-YAMA
1968 NOV 23	23	6	41.2	0.2	84.3	0.6	39.0	1.2	2.3	R	0.17	1.0	65 WESTERN PART OF HIROSHIMA
1968 NOV 24	1	6	8.6	0.2	105.7	1.0	60.6	1.0	2.6	R	0.18	2.1	36 NEAR TSUGA, SHIMANE-TOTTORI BORDER
1968 NOV 25	1	44	47.7	0.4	138.7	1.0	117.5	2.3	15.7	5.3	0.28	2.8	20 CENTRAL SHIMANE-TOTTORI BORDER
1968 NOV 25	9	35	13.1	0.6	123.2	2.8	110.8	3.3	41.3	4.2	0.39	2.2	22 NEAR KIRAHASHIJI AND NICHIMAN
1968 NOV 25	9	40	16.8	0.2	131.9	0.9	119.4	0.8	8.0	R	0.4	1.9	28 CENTRAL SHIMANE-TOTTORI BORDER
1968 NOV 26	20	32	47.5	0.4	133.7	1.8	55.8	2.0	8.6	7.1	0.23	2.1	8 CENTRAL PART OF SHIMANE
1968 NOV 26	21	37	48.8	0.2	126.7	0.9	53.8	1.5	19.6	2.9	0.13	2.5	65 WESTERN PART OF HIROSHIMA
1968 NOV 27	5	44	7.7	0.1	91.1	0.4	36.7	0.5	7.3	0.6	0.05	1.1	32 NEAR AKAGI, SHIMANE
1968 NOV 28	15	42	1.7	0.1	111.4	0.4	84.0	0.3	7.6	0.6	0.05	1.5	31 CENTRAL PART OF TAKANO, HIROSHIMA
1968 NOV 28	22	47	28.7	0.1	101.9	0.4	73.1	0.7	7.0	0.1	0.01	1.2	33 NEAR KUTSUGAHARA
1968 NOV 29	22	47	45.4	0.1	101.2	0.5	75.4	1.0	5.9	R	0.22	1.4	33 NEAR KUTSUGAHARA
1968 NOV 29	11	42	14.9	0.2	102.9	0.6	76.6	0.5	11.8	0.9	0.11	0.9	33 NEAR KUTSUGAHARA
1968 DEC 1	4	24	48.1	0.2	31.4	0.8	94.9	0.5	17.4	2.0	0.10	1.4	47 NEAR IKUCHIJI
1968 DEC 1	22	24	30.1	0.1	24.1	0.9	64.1	0.8	45.9	1.2	0.33	2.1	95 EHIME
1968 DEC 3	11	33	29.5	0.1	87.6	0.1	23.8	0.1	22.8	0.2	0.01	1.7	10 WESTERN PART OF SHIMANE
1968 DEC 3	23	53	57.1	0.1	110.6	0.6	77.1	0.5	12.7	0.5	0.08	1.4	33 NEAR KUTSUGAHARA
1968 DEC 4	5	40	11.5	0.1	145.4	0.6	54.9	0.7	19.0	1.5	0.07	2.3	5 NORTHERN PART OF SHIMANE

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME	H. M. S.	X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
1968 DEC 4	8 18 20.1	0.2	110.9	68.9	10.6	0.8	2.1 B	32 NEAR AKAGI, SHIMANE
1968 DEC 5	20 25 56.0	0.3	112.2	71.8	10.0	0.9	1.7	32 NEAR AKAGI, SHIMANE
1968 DEC 8	16 32 58.0	0.2	112.2	71.8	10.0	0.9	1.7	32 NEAR AKAGI, SHIMANE
1968 DEC 9	18 32 42.4	0.3	114.4	68.9	10.0	0.9	2.3 R	30 CENTRAL SHIMANE-TOTTORI BORDER
1968 DEC 10	1 13 12.3	0.2	112.8	71.8	10.0	0.9	2.3 R	30 CENTRAL SHIMANE-TOTTORI BORDER
1968 DEC 10	2 54 58.5	0.1	112.1	71.8	10.0	0.9	1.2	32 NEAR AKAGI, SHIMANE
1968 DEC 12	12 19 55.6	0.9	118.5	71.8	9.8	0.6	1.2	32 NEAR AKAGI, SHIMANE
1968 DEC 14	20 7 27.2	0.3	91.5	49.7	6.3	4.2	2.6 +	58 NEAR KURASHI, SHIMANE
1968 DEC 16	1 43 12.3	0.3	150.3	1.1	23.4	1.9	2.6 B	15 WESTERN PART OF SHIMANE
1968 DEC 18	6 41 35.6	0.2	86.8	17.3	1.9	1.7	1.6	10 WESTERN PART OF SHIMANE
1968 DEC 19	3 3 4.2	0.2	82.8	0.9	0.2	1.1	1.6	10 WESTERN PART OF SHIMANE
1968 DEC 19	3 22 40.5	0.3	76.9	0.7	45.8	1.1	1.8 B	65 WESTERN PART OF SHIMANE
1968 DEC 20	21 12 9.3	0.2	117.3	0.7	48.0	0.7	1.1	8 CENTRAL PART OF SHIMANE
1968 DEC 22	21 4 29.9	0.1	80.2	0.5	89.8	0.5	1.7 R	42 EASTERN PART OF SHIMANE
1968 DEC 23	7 46 2.5	0.4	11.4	1.4	55.4	2.5	3.5 C	58 NEAR KURASHI, SHIMANE
1968 DEC 23	7 50 57.9	0.3	20.7	1.6	52.4	1.7	2.2 B	58 NEAR KURASHI, SHIMANE
1968 DEC 25	2 48 28.9	0.2	128.7	1.0	95.2	0.8	1.9	22 NITA-YOKOTA AND NICHINAN
1968 DEC 27	16 9 48.8	0.3	72.1	1.0	94.2	0.8	1.1	42 EASTERN PART OF SHIMANE
1968 DEC 27	20 37 57.0	0.2	72.8	0.4	93.2	0.5	0.9 B	42 EASTERN PART OF SHIMANE
1968 DEC 27	21 25 23.3	0.1	71.4	0.3	94.4	0.3	1.1	40 MIYOSHI AND SHORARA
1968 DEC 30	6 46 31.1	0.2	87.7	0.3	83.8	0.3	1.1	40 MIYOSHI AND SHORARA
1969 JAN 5	18 16 47.6	0.1	107.2	0.4	81.2	0.8	1.2 M	33 NEAR KUTSUGAHARA
1969 JAN 8	0 56 58.6	0.3	108.9	1.9	81.9	3.3	1.4	33 NEAR KUTSUGAHARA
1969 JAN 12	22 35 48.0	0.2	80.0	0.7	14.2	1.5	2.0 G	10 WESTERN PART OF SHIMANE
1969 JAN 14	20 7 59.7	0.4	62.9	1.7	191.2	3.3	2.1	100 OUT OF THE MAP
1969 JAN 15	7 23 40.6	0.4	110.0	0.7	74.8	1.3	1.5	33 NEAR KUTSUGAHARA
1969 JAN 17	13 59 14.7	0.3	96.9	0.7	96.3	1.2	2.0 B	40 MIYOSHI AND SHORARA
1969 JAN 18	5 33 31.6	0.2	104.1	1.0	76.8	1.7	2.0 B	40 MIYOSHI AND SHORARA
1969 JAN 19	5 34 11.5	0.0	109.9	0.1	74.6	0.3	0.9	33 NEAR KUTSUGAHARA
1969 JAN 20	4 14 33.5	0.4	123.2	0.9	125.9	1.7	1.7	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1969 JAN 20	21 22 24.1	0.7	77.7	1.8	115.8	2.8	2.1	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1969 JAN 21	20 19 19.6	0.3	49.5	1.0	64.8	0.8	1.6 K	42 EASTERN PART OF SHIMANE
1969 JAN 21	23 25 48.7	0.1	112.3	0.3	82.5	0.5	1.1 M	53 NEAR HACHIONMATSU, HIROSHIMA
1969 JAN 22	5 47 28.8	0.2	108.5	0.6	80.2	0.5	1.1	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 JAN 24	17 21 55.0	0.2	39.3	0.9	170.5	1.4	1.0 F	33 NEAR KUTSUGAHARA
1969 JAN 24	18 33 28.8	0.1	107.6	0.4	76.3	0.7	1.1	100 OUT OF THE MAP
1969 JAN 25	0 44 53.8	0.4	110.7	0.8	103.5	1.4	1.1	33 NEAR KUTSUGAHARA
1969 JAN 25	7 48 33.5	0.5	112.8	2.0	69.5	1.7	1.4 M	25 NEAR EROSHI-YAMA
1969 JAN 25	10 12 27.2	0.4	96.9	0.9	99.0	1.6	1.5	32 NEAR AKAGI, SHIMANE
1969 JAN 26	22 19 34.1	0.1	110.5	0.4	93.7	0.5	0.8	40 MIYOSHI AND SHORARA
1969 JAN 28	16 10 18.6	0.5	-6.5	1.6	58.0	3.0	3.1 B	27 HIWA, HIROSHIMA
1969 JAN 28	22 26 41.4	0.4	51.7	1.4	31.9	1.4	0.9	95 EHIME
1969 JAN 29	6 10 25.3	0.1	106.5	0.2	75.6	0.6	1.1	65 WESTERN PART OF HIROSHIMA
1969 JAN 29	18 31 46.9	0.4	104.5	2.7	79.2	5.0	1.2	33 NEAR KUTSUGAHARA
1969 JAN 31	8 14 46.0	0.7	90.7	1.4	83.2	2.5	1.1	33 NEAR KUTSUGAHARA
1969 JAN 31	17 10 34.6	0.2	105.3	0.9	80.8	1.1	0.8	40 MIYOSHI AND SHORARA
1969 FEB 1	4 25 49.3	1.0	-2.6	5.6	32.1	5.7	1.3	70 HIROSHIMA-YAMAGUCHI BORDER
1969 FEB 1	23 10 33.2	0.3	119.2	1.1	78.9	1.7	0.9	30 NEAR TONBARA, SHIMANE

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-			
1969 FEB 2	3	40	11.0	0.2	7.9	0.7	0.09	2.0 B	58 NEAR KURASHIJI
1969 FEB 2	16	4	22.3	0.3	143.0	1.1	0.23	2.6 B	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 FEB 4	13	25	4.8	0.3	105.4	0.7	0.28	1.6 B	33 NEAR KUTSUGAHARA
1969 FEB 4	13	31	13.2	0.0	105.0	0.1	0.04	1.7 B	33 NEAR KUTSUGAHARA
1969 FEB 7	21	1	34.2	0.4	176.2	1.2	0.28	2.0	22 NIITA-YOKOTA AND NICHINAN
1969 FEB 8	4	3	48.8	0.3	126.7	1.1	0.28	1.3	8 CENTRAL PART OF SHIMANE
1969 FEB 8	11	42	54.5	0.1	113.7	0.5	0.16	1.4	32 NEAR AKAGI, SHIMANE
1969 FEB 11	21	33	27.4	0.1	95.8	1.4	0.33	2.0 B	10 WESTERN PART OF SHIMANE
1969 FEB 12	7	49	10.5	0.7	80.5	0.9	0.19	1.1	33 NEAR KUTSUGAHARA
1969 FEB 13	6	42	22.2	0.5	51.2	0.7	0.30	0.9 B	50 CENTRAL PART OF HIROSHIMA
1969 FEB 13	12	28	8.6	0.5	53.4	1.5	0.33	2.8 B	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1969 FEB 15	16	8	23.0	0.3	109.4	1.2	0.23	2.4 B	100 OUT OF THE MAP
1969 FEB 17	5	43	21.8	0.2	97.8	1.0	0.41	1.0 F	33 NEAR KUTSUGAHARA
1969 FEB 18	16	37	11.9	0.4	47.6	1.0	0.13	1.4	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1969 FEB 20	14	29	26.8	0.1	73.5	0.4	0.13	1.5 B	50 CENTRAL PART OF HIROSHIMA
1969 FEB 20	15	42	0.7	0.2	104.8	0.6	0.07	0.9	33 NEAR KUTSUGAHARA
1969 FEB 23	10	32	39.5	0.3	105.2	0.4	0.14	1.4	33 NEAR KUTSUGAHARA
1969 FEB 23	17	31	44.1	0.5	36.7	1.2	0.14	1.0	70 HIROSHIMA-YAMAGUCHI BORDER
1969 FEB 26	9	21	44.0	0.1	118.5	1.1	0.35	1.6	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1969 FEB 26	11	35	14.7	0.6	119.7	1.2	0.38	1.9 B	10 WESTERN PART OF SHIMANE
1969 FEB 26	11	37	19.5	0.4	117.6	1.1	0.35	1.4	25 NEAR EROSHI-YAMA
1969 FEB 26	11	58	57.1	0.5	118.6	1.4	0.32	2.6 B	25 NEAR EROSHI-YAMA
1969 FEB 26	12	16	7.1	0.5	118.6	1.3	0.42	1.8 B	25 NEAR EROSHI-YAMA
1969 FEB 26	12	18	19.4	0.3	118.5	4.5	0.16	1.1 M	25 NEAR EROSHI-YAMA
1969 FEB 26	12	20	27.2	0.3	118.8	0.9	0.28	1.2	25 NEAR EROSHI-YAMA
1969 FEB 26	12	48	1.9	0.3	118.0	0.8	0.28	1.9	25 NEAR EROSHI-YAMA
1969 FEB 26	12	50	41.9	0.3	118.7	0.7	0.21	1.8	25 NEAR EROSHI-YAMA
1969 FEB 27	11	46	31.2	0.1	112.4	0.4	0.17	2.0 B	32 NEAR AKAGI, SHIMANE
1969 FEB 27	11	46	58.3	0.2	112.7	0.6	0.20	1.6	32 NEAR AKAGI, SHIMANE
1969 FEB 27	21	48	24.7	0.3	89.3	1.0	0.20	1.8 B	10 WESTERN PART OF SHIMANE
1969 FEB 28	9	11	23.1	0.0	118.3	0.0	0.01	1.7	25 NEAR EROSHI-YAMA
1969 FEB 28	22	42	54.4	0.1	113.8	0.2	0.08	2.2 B	32 NEAR AKAGI, SHIMANE
1969 MAR 1	8	40	56.7	0.5	118.4	1.3	0.43	1.0	25 NEAR EROSHI-YAMA
1969 MAR 3	5	17	21.4	0.2	90.7	0.4	0.3	1.4	40 MIYOSHI AND SHIMARA
1969 MAR 4	2	37	13.7	0.2	127.3	0.8	0.19	1.6	8 CENTRAL PART OF SHIMANE
1969 MAR 4	22	49	2.9	0.0	105.2	0.1	0.06	1.2	33 NEAR KUTSUGAHARA
1969 MAR 4	23	0	32.7	0.1	105.8	0.1	0.12	1.1	33 NEAR KUTSUGAHARA
1969 MAR 14	4	29	42.3	0.1	106.5	0.3	0.13	1.5	33 NEAR KUTSUGAHARA
1969 MAR 14	4	33	1.4	0.2	17.1	1.1	0.11	2.9 B	58 NEAR KURASHIJI
1969 MAR 15	20	33	47.7	0.1	59.6	0.7	0.08	2.3 B	10 WESTERN PART OF SHIMANE
1969 MAR 15	20	42	54.9	0.3	59.3	1.4	0.16	2.2	10 WESTERN PART OF SHIMANE
1969 MAR 16	4	55	1.7	0.4	117.5	1.1	0.38	1.9 B	25 NEAR EROSHI-YAMA
1969 MAR 16	22	3	20.0	0.5	119.7	1.3	0.41	1.2	25 NEAR EROSHI-YAMA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-			
1969 MAR 18	2	6	27.0	0.4	74.7	1.5	0.41	2.5	81 NEAR YAKAKE, OKAYAMA
1969 MAR 19	4	12	14.4	0.1	78.7	0.4	0.08	2.6 B	42 EASTERN PART OF HIROSHIMA
1969 MAR 20	19	46	28.5	0.4	78.5	1.6	0.29	2.0 R	10 WESTERN PART OF SHIMANE
1969 MAR 21	13	27	25.8	0.1	78.5	0.4	0.08	2.0 R	33 NEAR KUTSUGAHARA
1969 MAR 24	0	24	18.6	0.5	161.4	2.4	0.36	2.4	5 NORTHERN PART OF SHIMANE
1969 MAR 25	10	30	34.6	0.1	111.5	0.3	0.11	1.2	33 NEAR KUTSUGAHARA
1969 MAR 26	4	4	57.9	0.1	106.5	0.2	0.07	1.4	33 NEAR KUTSUGAHARA
1969 MAR 28	12	19	45.9	0.1	75.8	0.2	0.07	2.2 B	42 EASTERN PART OF HIROSHIMA
1969 MAR 30	6	22	11.4	0.0	111.8	0.4	0.11	1.9 B	33 NEAR KUTSUGAHARA
1969 MAR 30	12	6	26.0	0.3	113.2	1.4	0.25	1.5	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 MAR 30	17	3	53.3	0.1	109.4	0.4	0.14	1.1	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 APR 1	15	17	37.4	0.5	113.5	2.1	0.59	1.4	32 NEAR AKAGI, SHIMANE
1969 APR 4	1	23	73.2	0.1	106.8	0.2	0.08	0.9	33 NEAR KUTSUGAHARA
1969 APR 4	5	32	73.2	0.1	115.1	0.8	0.24	1.6	32 NEAR AKAGI, SHIMANE
1969 APR 4	5	42	44.5	0.2	60.6	1.4	0.39	1.6	65 WESTERN PART OF HIROSHIMA
1969 APR 6	20	31	38.7	0.2	90.7	0.4	0.16	1.4 B	40 MIYOSHI AND SHORARA
1969 APR 6	5	20	16.2	0.2	90.2	0.5	0.14	1.2	40 MIYOSHI AND SHORARA
1969 APR 8	6	22	15.4	0.2	107.1	2.0	0.15	0.8	33 NEAR KUTSUGAHARA
1969 APR 8	13	33	18.8	0.1	100.5	0.2	0.07	1.1	33 NEAR KUTSUGAHARA
1969 APR 8	15	3	17.5	0.1	100.1	0.1	0.04	1.6	65 WESTERN PART OF HIROSHIMA
1969 APR 10	15	15	49.7	0.1	107.1	0.1	0.18	1.9 M	33 NEAR KUTSUGAHARA
1969 APR 11	18	37	19.9	0.5	57.2	1.4	0.26	0.9	53 NEAR HACHIONMATSU, HIROSHIMA
1969 APR 12	3	42	47.2	0.1	71.1	0.1	0.33	1.2	42 EASTERN PART OF HIROSHIMA
1969 APR 12	3	49	22.2	0.1	84.1	1.4	0.27	1.2	65 WESTERN PART OF HIROSHIMA
1969 APR 12	14	32	55.1	0.4	44.2	1.5	0.16	2.1	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1969 APR 12	21	12	40.1	0.1	105.2	0.4	0.13	1.0	33 NEAR KUTSUGAHARA
1969 APR 13	1	22	34.5	0.1	104.9	0.4	0.07	1.4	70 HIROSHIMA-YAMAGUCHI BORDER
1969 APR 13	5	16	52.4	0.1	28.0	0.6	0.23	1.6	32 NEAR AKAGI, SHIMANE
1969 APR 13	12	5	12.9	0.2	112.2	0.7	0.33	2.3 R	47 NEAR KUCHIJIMA
1969 APR 15	6	16	59.9	0.6	75.5	1.3	0.44	2.5 R	95 CHIME
1969 APR 16	2	45	33.7	0.5	45.0	2.9	0.30	1.5	10 WESTERN PART OF SHIMANE
1969 APR 17	22	31	48.1	0.4	91.4	1.3	0.19	2.1	33 NEAR KUTSUGAHARA
1969 APR 18	12	48	42.2	0.3	103.8	2.2	0.19	2.1	32 NEAR AKAGI, SHIMANE
1969 APR 18	15	46	48.2	0.2	117.2	0.6	0.14	1.9	22 MITA, YOKOTA AND NICHINAN
1969 APR 18	19	4	8.1	0.1	116.1	0.5	0.14	1.9	95 CHIME
1969 APR 19	2	42	47.1	0.1	133.4	0.5	0.14	1.9	95 CHIME
1969 APR 21	8	15	55.5	0.2	14.2	1.5	0.32	2.1	45 WESTERN PART OF HIROSHIMA
1969 APR 23	19	2	21.0	0.5	128.3	1.0	0.24	1.5	10 WESTERN PART OF SHIMANE
1969 APR 24	7	23	46.3	1.0	66.9	2.4	0.24	1.1	32 NEAR AKAGI, SHIMANE
1969 APR 27	4	57	59.6	0.4	84.3	1.2	0.22	1.1	32 NEAR AKAGI, SHIMANE
1969 APR 29	2	22	23.1	0.3	113.8	0.7	0.08	1.5 M	50 CENTRAL PART OF HIROSHIMA
1969 APR 29	6	52	54.9	0.1	107.6	0.3	0.50	1.3	33 NEAR KUTSUGAHARA
1969 APR 30	3	47	58.8	0.7	74.7	1.6	0.14	1.8	81 NEAR YAKAKE, OKAYAMA
1969 MAY 3	0	56	27.0	0.2	104.3	0.6	0.05	1.2	33 NEAR KUTSUGAHARA
1969 MAY 6	19	28	16.9	0.0	108.8	0.1	0.14	1.8	81 NEAR YAKAKE, OKAYAMA
1969 MAY 7	6	48	52.4	0.2	72.2	0.7			

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION				
	H	M	S										
1969 MAY 11	1	53	11.4	0.2	-1.2	1.1	88.3	0.8	4.0	17.8	0.11	2.1	95 FHIME
1969 MAY 11	21	12	3.8	0.1	38.0	0.7	99.5	0.5	19.0	1.0	0.09	1.1	47 NEAR IKUCHIJIMA
1969 MAY 12	15	57	31.1	0.0	105.6	0.2	77.3	0.3	3.4	0.4	0.05	0.9	33 NEAR KUTSUGAHARA
1969 MAY 16	2	0	28.6	0.2	101.7	0.6	93.4	0.6	8.0	2.2	0.12	1.5	40 MIYOSHI AND SHOBARA
1969 MAY 16	21	2	7.3	0.1	107.7	0.3	70.3	0.3	7.1	0.4	0.04	0.9	33 NEAR KUTSUGAHARA
1969 MAY 21	16	27	4.4	0.2	54.1	0.6	53.8	0.6	39.3	4.6	0.18	2.7	55 NEAR HIROSHIMA
1969 MAY 22	0	26	31.4	0.3	131.5	1.6	4.8	2.3	39.3	4.6	0.18	2.4	1 OFF COAST OF SHIMANE
1969 MAY 22	0	27	48.4	0.2	136.0	1.1	3.4	1.7	20.0	6.7	0.13	2.2	1 OFF COAST OF SHIMANE
1969 MAY 23	19	53	36.9	0.4	110.4	1.8	71.1	1.5	12.3	1.7	0.27	1.4	33 NEAR KUTSUGAHARA
1969 MAY 28	11	53	1.8	0.1	107.2	0.2	77.4	0.2	10.9	0.3	0.03	1.1	33 NEAR KUTSUGAHARA
1969 MAY 30	11	31	18.9	0.2	84.3	0.3	97.5	0.5	8.7	1.7	0.10	0.7	42 EASTERN PART OF HIROSHIMA
1969 MAY 30	21	50	10.4	0.0	100.0	0.0	75.0	0.0	12.0	0.0	0.00	1.0	33 NEAR KUTSUGAHARA
1969 JUN 1	9	56	32.8	0.1	143.9	0.3	107.1	0.4	25.1	0.8	0.04	1.5	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 JUN 1	11	33	46.2	0.1	49.3	0.3	50.7	0.3	19.3	0.3	0.05	1.9	55 NEAR HIROSHIMA
1969 JUN 2	10	50	48.7	0.4	132.9	2.2	64.8	2.2	6.3	9.0	0.28	1.7	7 NEAR KAKAYA, SHIMANE
1969 JUN 2	23	48	28.8	0.1	83.9	0.5	124.8	0.7	28.1	0.9	0.09	2.1	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1969 JUN 3	11	12	41.2	0.0	110.9	0.2	70.0	0.2	6.9	0.2	0.02	1.1	32 NEAR AKAGI, SHIMANE
1969 JUN 4	6	59	47.4	0.4	79.9	1.4	135.6	2.0	23.9	2.9	0.21	1.8	81 NEAR YAKAKE, OKAYAMA
1969 JUN 7	19	10	42.8	0.2	96.1	0.4	66.8	0.9	16.0	1.2	0.17	1.1	38 NEAR SAKUGI, HIROSHIMA
1969 JUN 7	19	19	24.7	0.3	95.6	0.8	68.3	1.5	14.6	2.1	0.31	1.1	38 NEAR SAKUGI, HIROSHIMA
1969 JUN 10	4	48	16.9	0.3	118.7	0.7	101.5	0.9	9.2	4.2	0.21	2.0	25 NEAR ERDOSH-YAMA
1969 JUN 12	1	3	47.3	0.4	134.6	1.4	71.8	2.0	9.1	5.6	0.31	2.1	7 NEAR KAKAYA, SHIMANE
1969 JUN 12	3	30	4.1	0.1	116.7	0.3	75.7	0.5	8.9	0.6	0.08	1.8	7 NEAR KAKAYA, SHIMANE
1969 JUN 14	10	39	47.7	0.2	131.7	1.6	74.8	2.3	17.7	3.4	0.37	1.7	7 NEAR KAKAYA, SHIMANE
1969 JUN 16	9	33	56.8	0.6	64.4	2.2	96.7	2.1	20.0	3.3	0.53	1.3	42 EASTERN PART OF HIROSHIMA
1969 JUN 17	7	13	29.7	0.5	89.1	1.9	12.5	3.8	19.8	11.3	0.40	2.0	10 WESTERN PART OF SHIMANE
1969 JUN 18	20	27	7.5	0.6	-4.4	3.0	62.3	3.6	51.0	4.5	0.38	2.4	95 FHIME
1969 JUN 19	5	26	38.3	0.2	75.1	1.0	0.4	1.6	24.2	4.4	0.14	1.5	40 MIYOSHI AND SHOBARA
1969 JUN 23	3	23	33.2	0.1	98.3	0.6	85.2	0.9	0.2	4.4	0.26	1.6	33 NEAR KUTSUGAHARA
1969 JUN 23	6	42	17.2	0.2	109.2	0.5	73.6	0.9	12.0	1.6	0.17	1.4	42 EASTERN PART OF HIROSHIMA
1969 JUN 24	0	5	15.1	0.2	89.6	0.3	96.7	0.5	18.0	1.0	0.10	1.4	8 CENTRAL PART OF SHIMANE
1969 JUN 28	17	22	32.8	0.4	128.3	1.5	56.8	2.6	14.7	5.3	0.35	1.8	22 NIITA,YOKOTA AND NICHINAN
1969 JUN 28	18	42	47.5	0.2	123.6	0.6	119.3	0.9	6.0	5.4	0.16	2.0	95 FHIME
1969 JUN 29	16	34	36.1	0.4	-0.8	2.6	71.7	2.2	40.6	4.1	0.43	2.7	47 NEAR IKUCHIJIMA
1969 JUN 29	22	52	31.7	0.2	24.2	1.1	111.8	1.2	26.9	2.2	0.17	2.1	33 NEAR KUTSUGAHARA
1969 JUN 30	18	55	57.8	0.1	103.2	0.3	73.4	0.5	10.4	0.5	0.10	1.3	8 CENTRAL PART OF SHIMANE
1969 JUN 30	16	34	43.8	0.1	129.2	0.6	56.5	0.7	13.5	1.5	0.08	1.8	47 NEAR IKUCHIJIMA
1969 JUL 3	15	47	55.0	0.7	123.1	2.6	96.7	2.4	23.6	3.7	0.51	1.7	25 NEAR ERDOSH-YAMA
1969 JUL 3	21	14	29.5	0.3	120.9	0.7	102.6	0.9	27.9	2.7	0.21	1.4	10 WESTERN PART OF SHIMANE
1969 JUL 8	8	22	56.0	0.5	94.3	1.5	117.9	2.7	31.3	5.7	0.38	1.6	58 NEAR KURASHIJIMA
1969 JUL 9	13	48	7.6	0.3	108.3	0.6	134.0	1.5	23.2	3.1	0.35	1.9	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1969 JUL 11	4	56	18.5	0.1	121.4	0.9	127.6	0.4	11.2	8.6	0.07	1.7	30 NEAR TONBARA, SHIMANE
1969 JUL 11	15	16	27.3	0.4	117.6	1.7	127.6	0.4	11.2	8.6	0.32	1.9	85 NEAR ASHIDACHI,OKAYAMA
1969 JUL 13	8	30	40.7	0.2	121.6	0.7	52.8	1.3	7.4	5.1	0.18	1.5	8 CENTRAL PART OF SHIMANE
1969 JUL 13	16	14	11.5	0.2	66.9	0.5	90.1	0.5	16.0	1.5	0.12	1.0	50 CENTRAL PART OF HIROSHIMA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-			
1969 JUL 14	13	43	21.3	0.1	99.9	0.2	80.2	0.4	33 NEAR KUTSUGAHARA
1969 JUL 16	18	23	46.0	0.2	122.2	0.9	72.5	1.6	30 NEAR TONBARA, SHIMANE
1969 JUL 17	10	48	25.7	0.3	126.7	2.5	93.3	3.4	30 NEAR TONBARA, SHIMANE
1969 JUL 17	19	29	50.3	0.4	114.4	1.2	173.1	2.1	32 NEAR AKAGI, SHIMANE
1969 JUL 17	10	21	42.5	0.4	71.9	1.2	100.9	1.4	42 EASTERN PART OF HIROSHIMA
1969 JUL 18	1	27	55.7	0.1	125.4	0.6	66.0	0.9	30 NEAR TONBARA, SHIMANE
1969 JUL 18	1	27	55.7	0.1	114.6	0.6	71.1	0.9	32 NEAR AKAGI, SHIMANE
1969 JUL 18	22	46	5.6	0.2	197.8	0.4	37.3	0.7	81 NEAR YAKAKE, OKAYAMA
1969 JUL 19	20	26	15.9	0.2	144.3	1.7	31.9	2.8	8 CENTRAL PART OF SHIMANE
1969 JUL 19	12	40	12.4	0.3	71.0	1.0	35.1	2.1	8 CENTRAL PART OF SHIMANE
1969 JUL 19	19	28	48.2	0.1	107.8	0.4	76.0	0.7	33 NEAR KUTSUGAHARA
1969 JUL 20	23	43	38.2	0.3	132.4	1.1	73.4	1.9	32 NEAR AKAGI, SHIMANE
1969 JUL 21	9	56	3.6	0.2	120.6	1.9	100.6	1.9	47 NEAR IKUCHIJIMA
1969 JUL 21	1	28	52.9	0.3	125.0	1.9	71.2	4.1	30 NEAR TONBARA, SHIMANE
1969 JUL 24	0	44	45.1	0.1	86.9	0.2	76.9	0.4	50 CENTRAL PART OF HIROSHIMA
1969 JUL 25	2	34	12.9	0.1	112.3	0.2	39.8	0.5	8 CENTRAL PART OF SHIMANE
1969 JUL 25	10	34	55.0	0.4	113.9	1.2	20.3	1.9	8 CENTRAL PART OF SHIMANE
1969 JUL 25	12	33	51.1	0.1	110.2	0.2	71.7	0.7	33 NEAR KUTSUGAHARA
1969 JUL 26	16	41	17.4	0.7	114.2	2.4	37.8	2.6	8 CENTRAL PART OF SHIMANE
1969 JUL 29	12	13	31.8	0.1	109.2	0.4	33.7	0.7	7 NEAR KAKEYA, SHIMANE
1969 JUL 30	18	51	35.7	0.4	131.8	1.3	74.0	1.9	25 NEAR EROSHI-YAMA
1969 AUG 3	22	58	12.7	0.5	119.9	2.3	98.5	1.7	33 NEAR KUTSUGAHARA
1969 AUG 4	19	25	8.0	0.2	105.2	0.6	76.3	0.4	32 NEAR AKAGI, SHIMANE
1969 AUG 5	5	4	37.6	0.1	113.3	0.6	69.7	0.5	32 NEAR AKAGI, SHIMANE
1969 AUG 6	19	49	9.9	0.2	103.1	1.0	70.9	0.8	32 NEAR KUTSUGAHARA
1969 AUG 7	3	4	33.7	0.3	83.4	1.4	138.3	2.0	31 NEAR YAKAKE, OKAYAMA
1969 AUG 7	13	41	53.5	0.0	114.5	0.1	72.5	0.1	32 NEAR AKAGI, SHIMANE
1969 AUG 7	18	55	20.2	0.5	95.5	1.2	24.7	2.3	10 WESTERN PART OF SHIMANE
1969 AUG 8	7	27	38.5	0.1	111.8	0.4	43.3	1.0	32 NEAR AKAGI, SHIMANE
1969 AUG 8	17	12	25.6	0.1	112.9	0.3	73.2	0.5	32 NEAR AKAGI, SHIMANE
1969 AUG 9	3	15	43.8	0.2	98.2	0.7	84.1	1.0	40 MIYOSHI AND SHOBARA
1969 AUG 9	4	25	30.5	0.6	135.4	2.5	104.4	6.8	22 NITA, YOKOTA AND NICHINAN
1969 AUG 9	19	36	45.6	0.2	70.4	0.7	108.1	1.2	42 EASTERN PART OF HIROSHIMA
1969 AUG 9	22	32	32.6	0.2	110.0	0.3	73.4	0.6	33 NEAR KUTSUGAHARA
1969 AUG 10	10	39	32.1	0.2	101.1	0.5	81.5	1.2	33 NEAR KUTSUGAHARA
1969 AUG 10	13	53	28.2	0.2	112.7	0.5	67.0	0.6	32 NEAR AKAGI, SHIMANE
1969 AUG 10	13	56	20.2	0.3	113.5	0.5	67.9	0.9	32 NEAR AKAGI, SHIMANE
1969 AUG 10	17	45	31.5	0.4	105.9	1.2	77.1	2.0	33 NEAR KUTSUGAHARA
1969 AUG 10	17	52	23.6	0.1	112.0	0.4	85.0	0.8	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 AUG 11	6	56	3.6	0.1	4.0	1.0	56.2	1.0	58 NEAR KURAHASHI, JIMA
1969 AUG 12	0	40	8.5	0.2	101.6	0.7	79.5	1.3	33 NEAR KUTSUGAHARA
1969 AUG 12	4	11	34.5	0.1	134.8	0.3	99.1	0.4	22 NITA, YOKOTA AND NICHINAN
1969 AUG 13	0	14	34.3	0.1	140.6	0.5	111.2	0.6	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 AUG 13	3	35	17.2	0.2	33.4	0.9	97.9	0.8	47 NEAR IKUCHIJIMA
1969 AUG 13	4	56	2.0	0.1	115.2	0.4	73.0	0.4	32 NEAR AKAGI, SHIMANE
1969 AUG 13	23	40	52.6	0.5	133.4	1.7	96.0	1.7	22 NITA, YOKOTA AND NICHINAN
1969 AUG 14	3	47	48.7	0.2	67.7	0.3	81.5	0.4	50 CENTRAL PART OF HIROSHIMA
1969 AUG 14	12	36	55.5	0.1	107.3	0.4	74.2	0.5	33 NEAR KUTSUGAHARA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME		X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M S	±/-	±/-	±/-	±/-		
1969 AUG 14	12 54	41.1	0.1	113.6	0.1	76.0	0.3	32 NEAR AKAGI, SHIMANE
1969 AUG 14	12 55	18.5	0.2	133.7	1.1	75.5	0.8	7 NEAR KAKEYA, SHIMANE
1969 AUG 14	1 45	5.8	0.1	116.2	0.4	119.7	0.5	42 NEAR HACHIHONMATSU, HIROSHIMA
1969 AUG 15	13 50	5.5	0.3	56.1	2.3	106.3	1.5	32 NEAR FUJUCHI, HIROSHIMA-OKAYAMA BORDER
1969 AUG 15	14 16	26.6	0.1	116.8	0.4	100.2	0.6	25 NEAR EROSHI-YAMA
1969 AUG 15	16 15	11.3	0.1	122.3	0.3	67.5	0.6	30 NEAR TONBARA, SHIMANE
1969 AUG 15	23 29	11.3	0.2	112.9	0.8	77.3	0.7	32 NEAR AKAGI, SHIMANE
1969 AUG 16	1 4	26.7	0.3	109.5	1.0	79.1	1.1	33 NEAR KUTSUGAHARA
1969 AUG 16	3 55	49.8	0.1	108.8	0.3	76.2	0.3	33 NEAR KUTSUGAHARA
1969 AUG 16	8 35	52.9	0.1	111.9	0.2	85.7	0.3	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 AUG 16	8 35	25.5	0.1	111.3	0.4	86.3	0.3	42 EASTERN PART OF HIROSHIMA
1969 AUG 16	12 52	20.5	0.1	176.6	0.4	108.8	0.6	33 NEAR KUTSUGAHARA
1969 AUG 16	13 27	11.5	0.1	109.8	0.6	79.8	0.2	33 NEAR KUTSUGAHARA
1969 AUG 16	15 13	19.1	0.2	105.8	0.4	78.5	0.3	33 NEAR KUTSUGAHARA
1969 AUG 17	2 54	36.9	0.1	105.9	0.8	76.5	0.3	22 NITA-YOKOTA AND NICHINAN
1969 AUG 17	6 21	16.7	0.1	133.2	0.8	100.9	0.0	22 NITA-YOKOTA AND NICHINAN
1969 AUG 17	6 23	55.0	0.1	133.4	1.4	102.4	2.2	22 NITA-YOKOTA AND NICHINAN
1969 AUG 17	6 31	52.3	0.1	133.8	0.3	101.4	0.9	33 NEAR KUTSUGAHARA
1969 AUG 17	7 32	0.9	0.1	101.6	0.7	81.2	0.9	33 NEAR KUTSUGAHARA
1969 AUG 17	10 10	51.0	0.2	118.1	0.7	109.7	2.8	25 NEAR EROSHI-YAMA
1969 AUG 18	15 17	20.5	0.5	83.8	1.5	82.2	0.9	10 WESTERN PART OF SHIMANE
1969 AUG 18	20 56	16.7	0.2	113.5	0.7	79.7	0.7	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 AUG 18	21 16	1.4	0.0	50.4	0.2	84.7	0.1	53 NEAR HACHIHONMATSU, HIROSHIMA
1969 AUG 19	7 52	31.7	0.4	146.7	2.4	176.6	3.5	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 AUG 19	20 49	9.2	0.1	123.7	0.4	72.9	0.8	30 NEAR TONBARA, SHIMANE
1969 AUG 20	3 32	31.6	0.2	107.2	0.1	72.7	0.1	33 NEAR KUTSUGAHARA
1969 AUG 20	5 35	23.3	0.0	109.2	0.1	72.7	0.1	33 NEAR KUTSUGAHARA
1969 AUG 20	19 23	23.0	0.2	105.8	0.6	81.2	0.5	33 NEAR KUTSUGAHARA
1969 AUG 21	12 56	53.9	0.2	110.1	0.8	71.7	0.7	33 NEAR KUTSUGAHARA
1969 AUG 21	14 37	57.2	0.3	110.1	0.8	71.7	0.9	33 NEAR KUTSUGAHARA
1969 AUG 21	16 37	20.6	0.1	91.6	0.3	86.2	0.4	40 MIYOSHI AND SHORARA
1969 AUG 22	1 49	25.9	0.1	48.7	1.1	58.6	1.2	53 NEAR HACHIHONMATSU, HIROSHIMA
1969 AUG 22	10 49	25.9	0.1	85.7	0.4	90.0	0.5	42 EASTERN PART OF HIROSHIMA
1969 AUG 22	4 41	41.2	0.1	108.1	1.2	92.3	1.4	27 HIWA, HIROSHIMA
1969 AUG 22	4 15	36.2	0.1	120.9	0.4	79.9	0.4	30 NEAR TONBARA, SHIMANE
1969 AUG 24	6 15	36.2	0.1	113.9	0.3	74.8	0.3	32 NEAR AKAGI, SHIMANE
1969 AUG 24	16 54	8.0	0.3	108.0	1.2	37.7	2.0	8 CENTRAL PART OF SHIMANE
1969 AUG 24	16 31	4.6	0.2	103.0	1.2	76.2	0.5	33 NEAR KUTSUGAHARA
1969 AUG 24	19 31	23.9	1.1	54.3	8.7	28.4	18.4	65 WESTERN PART OF HIROSHIMA
1969 AUG 28	13 10	12.8	0.1	98.4	0.6	88.4	0.9	40 MIYOSHI AND SHORARA
1969 AUG 31	12 25	10.3	0.1	36.3	0.3	10.0	0.4	70 HIROSHIMA-YAMAGUCHI BORDER
1969 AUG 31	15 57	51.4	0.2	118.0	0.6	98.7	0.8	25 NEAR EROSHI-YAMA
1969 SEP 3	7 42	52.2	0.3	79.6	1.0	12.9	3.9	10 WESTERN PART OF SHIMANE
1969 SEP 4	16 45	16.0	0.3	51.4	1.1	65.6	1.0	53 NEAR HACHIHONMATSU, HIROSHIMA
1969 SEP 5	11 53	20.3	0.1	132.2	0.3	72.6	0.5	7 NEAR KAKEYA, SHIMANE
1969 SEP 6	12 29	29.0	0.1	132.7	0.4	70.5	0.4	7 NEAR KAKEYA, SHIMANE
1969 SEP 6	15 45	21.5	0.6	89.1	1.9	17.4	3.9	10 WESTERN PART OF SHIMANE
1969 SEP 6	17 15	14.6	0.2	58.9	0.5	61.9	0.5	53 NEAR HACHIHONMATSU, HIROSHIMA
1969 SEP 6	23 53	54.6	0.2	100.9	0.4	82.6	0.7	33 NEAR KUTSUGAHARA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-			
1969 SEP 12	17	0	31.7	0.2	100.8	23.1	1.2	1.5	10 WESTERN PART OF SHIMANE
1969 SEP 15	2	4	28.3	0.6	83.5	38.8	3.1	2.2	65 WESTERN PART OF HIROSHIMA
1969 SEP 15	2	20	21.1	0.6	83.8	1.2	1.7	3.1	65 WESTERN PART OF HIROSHIMA
1969 SEP 15	7	42	38.4	2.0	84.6	4.0	10.8	2.2	65 WESTERN PART OF HIROSHIMA
1969 SEP 15	17	31	43.2	0.1	59.4	0.3	118.0	1.7	42 NEAR FUCHU
1969 SEP 16	20	53	0.4	0.3	76.7	1.1	23.8	1.7	45 WESTERN PART OF HIROSHIMA
1969 SEP 17	10	10	30.7	0.5	35.4	2.2	138.8	2.7	91 KAKURA
1969 SEP 17	22	19	16.1	0.1	106.0	0.5	60.6	0.4	34 NEAR TSUGA, SHIMANE
1969 SEP 18	16	8	48.1	0.2	95.5	0.4	69.2	0.5	38 NEAR SAKUGI, HIROSHIMA
1969 SEP 18	16	9	56.8	0.3	95.6	0.8	68.5	0.8	38 NEAR SAKUGI, HIROSHIMA
1969 SEP 18	16	13	6.1	0.1	96.9	0.4	67.5	0.8	38 NEAR SAKUGI, HIROSHIMA
1969 SEP 20	7	13	28.8	0.2	84.3	0.5	92.6	0.7	42 EASTERN PART OF HIROSHIMA
1969 SEP 22	2	56	22.9	0.6	65.8	1.7	118.6	2.6	44 NEAR FUCHU
1969 SEP 22	6	21	26.5	0.2	141.7	1.0	101.1	1.0	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 SEP 22	10	42	12.4	0.1	61.9	0.3	77.4	0.2	50 CENTRAL PART OF HIROSHIMA
1969 SEP 22	16	19	23.8	0.1	120.1	0.2	50.1	0.4	8 CENTRAL PART OF SHIMANE
1969 SEP 23	14	37	23.9	0.1	62.5	0.2	98.8	0.2	42 EASTERN PART OF HIROSHIMA
1969 SEP 24	7	15	34.9	0.2	114.6	0.6	73.1	1.1	32 NEAR AKAGI, SHIMANE
1969 SEP 24	17	49	32.7	0.3	78.6	0.4	66.0	1.4	50 CENTRAL PART OF HIROSHIMA
1969 SEP 25	18	25	47.3	0.1	114.7	0.5	73.0	0.9	32 NEAR AKAGI, SHIMANE
1969 SEP 26	13	58	57.6	0.3	110.2	1.2	75.8	0.8	33 NEAR KUTSUGAHARA
1969 SEP 29	9	44	18.5	0.5	36.7	2.4	103.4	2.1	47 NEAR KUCHIJIMA
1969 OCT 3	22	8	6.9	0.3	70.5	1.3	-1.2	2.2	10 WESTERN PART OF SHIMANE
1969 OCT 4	12	53	31.4	0.1	112.9	0.2	85.1	0.3	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 OCT 5	8	4	43.4	0.2	4.2	1.1	129.5	1.0	95 EHIME
1969 OCT 7	7	36	18.5	0.6	69.4	1.9	76.2	0.7	33 NEAR KUTSUGAHARA
1969 OCT 7	17	53	38.9	0.2	89.8	0.6	13.0	1.2	42 EASTERN PART OF HIROSHIMA
1969 OCT 11	8	24	58.8	0.3	132.8	1.3	73.4	1.9	10 WESTERN PART OF SHIMANE
1969 OCT 11	21	10	7.9	0.4	125.0	1.2	65.9	1.9	7 NEAR KAKEYA, SHIMANE
1969 OCT 20	9	34	12.3	0.2	86.8	0.3	66.8	0.7	30 NEAR TONBARA, SHIMANE
1969 OCT 22	12	15	46.8	0.1	122.4	0.4	77.5	0.6	50 CENTRAL PART OF HIROSHIMA
1969 OCT 22	13	59	45.4	0.2	108.0	0.7	33.6	1.5	30 NEAR TONBARA, SHIMANE
1969 OCT 24	0	4	9.9	0.1	102.0	0.7	82.2	1.0	8 CENTRAL PART OF SHIMANE
1969 OCT 24	3	26	20.6	0.3	44.4	1.3	64.3	1.0	33 NEAR KUTSUGAHARA
1969 OCT 24	22	52	6.6	0.3	113.9	0.7	76.0	1.3	33 NEAR KACHIONOMATSU, HIROSHIMA
1969 OCT 24	23	27	11.3	0.3	12.5	1.0	58.1	1.8	32 NEAR AKAGI, SHIMANE
1969 OCT 28	12	19	51.5	0.7	141.8	3.0	108.4	3.0	58 NEAR KURASHIJI
1969 OCT 28	17	12	10.9	0.5	116.7	1.9	48.2	3.5	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 OCT 28	17	44	34.2	0.2	46.4	0.7	67.7	0.5	8 CENTRAL PART OF SHIMANE
1969 OCT 29	17	49	51.3	0.3	47.8	2.0	66.9	1.7	53 NEAR KACHIONOMATSU, HIROSHIMA
1969 OCT 29	23	15	5.2	0.1	16.9	1.4	49.7	2.8	53 NEAR KACHIONOMATSU, HIROSHIMA
1969 OCT 31	3	15	36.2	0.1	72.6	0.3	77.5	0.3	58 NEAR KURASHIJI
1969 NOV 1	15	31	2.0	0.5	121.8	2.0	64.4	3.4	50 CENTRAL PART OF HIROSHIMA
1969 NOV 1	18	8	37.2	0.3	121.8	2.0	64.4	3.4	30 NEAR TONBARA, SHIMANE
1969 NOV 4	19	49	17.5	0.2	120.5	0.6	50.7	1.2	30 NEAR TONBARA, SHIMANE
1969 NOV 5	7	38	52.3	0.0	52.6	0.0	77.4	1.0	53 NEAR KACHIONOMATSU, HIROSHIMA
1969 NOV 6	0	39	45.6	0.5	78.5	1.7	15.5	3.6	10 WESTERN PART OF SHIMANE

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	±/°	±/°	±/°			
1969 NOV 6	11	5	25.3	0.2	107.2	0.6			33 NEAR KUTSUGAHARA
1969 NOV 7	0	5	42.4	0.2	20.2	1.3		1.3	95 EHIME
1969 NOV 7	0	5	43.4	0.2	20.2	1.3		1.1	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1969 NOV 7	6	49	9.6	0.6	71.2	0.7		1.2	30 NEAR AKAGI, SHIMANE
1969 NOV 7	12	42	29.6	0.9	114.9	1.7		1.3	30 NEAR TONBARA, SHIMANE
1969 NOV 7	13	3	55.9	0.0	118.6	3.7		2.8 B	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 NOV 7	14	16	43.9	0.2	112.7	0.2		1.2	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 NOV 8	14	22	53.1	0.6	83.5	1.0		1.5	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1969 NOV 9	2	33	54.4	0.1	101.1	0.4		1.4	33 NEAR KUTSUGAHARA
1969 NOV 9	5	19	30.2	0.1	108.1	0.4		0.9	33 NEAR KUTSUGAHARA
1969 NOV 10	15	23	48.7	0.2	74.6	0.7		1.3	50 CENTRAL PART OF HIROSHIMA
1969 NOV 11	12	27	48.9	0.6	123.1	1.5		1.0	30 NEAR TONBARA, SHIMANE
1969 NOV 12	5	43	45.7	0.1	79.1	2.3		1.2	38 NEAR SAKUGI, HIROSHIMA
1969 NOV 14	8	57	11.2	0.3	102.3	2.1		1.3	33 NEAR KUTSUGAHARA
1969 NOV 16	8	58	42.7	0.5	82.3	4.0		1.7	58 NEAR KURASHIJIJIMA
1969 NOV 17	14	58	22.5	0.5	129.3	2.5		2.1	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 NOV 18	11	2	27.7	1.6	69.5	4.5		1.9	81 NEAR YAKAKE, OKAYAMA
1969 NOV 18	12	59	52.4	0.5	116.0	1.4		1.5	31 CENTRAL PART OF TAKANO, HIROSHIMA
1969 NOV 20	23	55	4.8	2.0	68.7	3.8		1.4	10 WESTERN PART OF SHIMANE
1969 NOV 21	0	5	53.0	0.5	80.8	1.2		1.1	33 NEAR KUTSUGAHARA
1969 NOV 21	2	16	55.7	0.4	83.2	0.8		1.3	42 EASTERN PART OF HIROSHIMA
1969 NOV 21	4	7	59.5	0.2	64.9	0.8		1.0	50 CENTRAL PART OF HIROSHIMA
1969 NOV 21	9	39	50.4	0.2	91.4	0.4		1.3	40 MIYOSHIMA, SHIMANE
1969 NOV 21	12	19	20.3	0.1	72.9	0.2		0.7	81 NEAR YAKAKE, OKAYAMA
1969 NOV 21	14	43	50.9	0.3	74.4	0.9		1.2	81 NEAR YAKAKE, OKAYAMA
1969 NOV 21	17	56	52.5	0.6	67.8	2.1		2.2	44 NEAR FUCHU, OKAYAMA
1969 NOV 22	14	45	51.2	0.1	75.1	0.4		1.8	81 NEAR YAKAKE, OKAYAMA
1969 NOV 22	15	57	57.5	0.2	73.8	0.7		1.6	81 NEAR YAKAKE, OKAYAMA
1969 NOV 23	14	27	34.3	0.2	104.7	1.3		1.1	33 NEAR KUTSUGAHARA
1969 NOV 24	5	48	29.2	0.1	124.6	0.2		1.9 B	30 NEAR TONBARA, SHIMANE
1969 NOV 24	15	1	17.3	0.1	75.9	0.2		2.8 B	81 NEAR YAKAKE, OKAYAMA
1969 NOV 24	15	4	20.2	0.2	73.0	0.6		2.0	81 NEAR YAKAKE, OKAYAMA
1969 NOV 24	15	30	36.6	0.2	72.6	0.7		1.5	81 NEAR YAKAKE, OKAYAMA
1969 NOV 24	18	57	41.5	0.1	100.6	0.2		2.3 B	40 MIYOSHIMA AND SHOPARA
1969 NOV 26	1	24	54.2	0.7	113.3	1.6		2.0	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1969 NOV 26	16	41	28.0	0.4	77.8	1.3		2.2	81 NEAR YAKAKE, OKAYAMA
1969 NOV 26	16	45	28.6	0.5	67.4	2.1		1.0	81 NEAR YAKAKE, OKAYAMA
1969 NOV 27	17	31	0.9	0.1	72.3	0.3		2.1	81 NEAR YAKAKE, OKAYAMA
1969 NOV 27	19	10	53.1	0.2	111.1	0.6		2.8 B	95 EHIME
1969 NOV 30	3	25	1.2	0.5	116.0	1.9		1.8 B	32 NEAR AKAGI, SHIMANE
1969 DEC 1	1	59	53.7	0.5	142.4	2.0		2.0	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 DEC 1	4	22	54.1	0.5	86.4	2.0		1.2	33 NEAR KUTSUGAHARA
1969 DEC 2	15	45	48.4	0.3	125.3	1.2		1.3	22 NITA-YUKOTA AND NICHINAN
1969 DEC 3	2	4	49.2	0.3	180.5	1.0		2.3	91 KAGAMA
1969 DEC 4	12	28	45.7	0.4	22.8	1.9		1.7	53 NEAR HACHIMONMATSU, HIROSHIMA
1969 DEC 5	10	9	33.1	0.4	30.4	1.5		2.9 B	10 WESTERN PART OF SHIMANE
1969 DEC 5	14	5	37.9	0.2	105.1	0.7		1.7	33 NEAR KUTSUGAHARA

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S						
1969 DEC 6	19	59	25.0	+0.3					50 CENTRAL PART OF HIROSHIMA
1969 DEC 7	0	8	34.9	0.1	71.5	0.8		0.6	65 WESTERN PART OF HIROSHIMA
1969 DEC 7	7	37	28.5	0.3	73.2	0.4		2.1 B	7 NEAR KAKAYA, SHIMANE
1969 DEC 7	7	37	38.9	0.1	131.3	1.1	38.6	0.09	7 NEAR KAKAYA, SHIMANE
1969 DEC 7	7	38	07	0.1	132.0	0.4	72.9	0.28	5 NORTHERN PART OF SHIMANE
1969 DEC 7	21	32	22.8	0.6	151.5	2.2	80.4	0.57	5 NORTHERN PART OF SHIMANE
1969 DEC 7	21	32	57.9	0.5	151.0	2.1	79.3	0.35	5 NORTHERN PART OF SHIMANE
1969 DEC 7	22	28	33.4	0.6	150.3	2.5	74.8	0.4	47 NEAR KUCHIJIMA
1969 DEC 8	4	54	29.3	0.8	25.8	2.7	115.2	0.61	10 WESTERN PART OF SHIMANE
1969 DEC 9	4	56	33.5	0.7	85.4	2.1	118.5	0.34	30 NEAR TONBARA, SHIMANE
1969 DEC 9	18	15	29.1	0.6	121.7	2.0	69.2	0.30	95 EHIME
1969 DEC 10	16	59	34.2	0.3	126.1	1.8	121.5	0.17	33 NEAR KUTSUGAHARA
1969 DEC 11	12	27	3.8	0.3	107.3	1.4	69.6	0.2	33 NEAR KUTSUGAHARA
1969 DEC 11	12	31	32.9	0.1	108.1	1.0	70.9	0.39	50 CENTRAL PART OF HIROSHIMA
1969 DEC 11	14	6	53.8	0.3	108.9	1.0	69.5	0.2	33 NEAR KUTSUGAHARA
1969 DEC 13	7	27	8.3	0.2	82.7	1.0	55.3	1.2	50 CENTRAL PART OF HIROSHIMA
1969 DEC 14	2	22	9.4	0.5	63.7	1.6	58.8	1.9	33 NEAR KUTSUGAHARA
1969 DEC 15	17	51	46.8	0.3	106.0	1.3	74.1	3.8	20 CENTRAL SHIMANE-TOTTORI BORDER
1969 DEC 15	18	54	21.1	0.1	106.9	0.9	71.1	0.6	33 NEAR KUTSUGAHARA
1969 DEC 15	19	33	34.1	0.2	147.5	0.6	107.2	0.5	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1969 DEC 16	27	59	40	0.4	106.9	0.2	171.3	0.3	8 NEAR FUCHU
1969 DEC 16	14	14	15.4	0.6	89.0	1.9	115.1	0.9	33 NEAR KUTSUGAHARA
1969 DEC 16	21	53	56.6	0.4	62.0	1.4	117.9	1.8	33 NEAR KUTSUGAHARA
1969 DEC 19	1	53	29.3	0.4	115.5	0.9	48.5	1.8	33 NEAR KUTSUGAHARA
1969 DEC 19	10	37	8.6	0.1	108.7	0.3	70.1	0.6	81 NEAR YAKAKE, OKAYAMA
1969 DEC 19	6	25	13.1	0.2	108.5	0.5	71.3	0.9	33 NEAR KUTSUGAHARA
1969 DEC 20	16	54	27.2	0.2	107.0	0.7	82.6	1.2	33 NEAR KUTSUGAHARA
1969 DEC 20	21	28	28.2	0.1	107.8	0.3	74.0	0.6	33 NEAR KUTSUGAHARA
1969 DEC 20	21	31	39.6	0.4	72.8	1.2	133.1	0.5	81 NEAR YAKAKE, OKAYAMA
1969 DEC 21	6	35	43.3	0.2	105.6	1.6	80.3	1.9	33 NEAR KUTSUGAHARA
1969 DEC 22	11	21	18	0.2	107.5	0.6	80.1	1.1	33 NEAR KUTSUGAHARA
1969 DEC 22	22	30	5.8	0.1	172.7	0.2	109.1	0.1	42 EASTERN PART OF HIROSHIMA
1969 DEC 25	23	53	35.6	0.3	115.7	0.9	112.9	1.8	42 EASTERN PART OF HIROSHIMA
1969 DEC 25	15	17	52.4	0.4	78.0	1.0	102.9	1.4	42 WESTERN PART OF HIROSHIMA
1969 DEC 26	14	11	33.0	0.1	98.1	0.3	96.3	0.5	70 HIROSHIMA-YAGUCHI BORDER
1969 DEC 27	4	29	1.4	0.5	14.6	2.4	13.0	2.8	42 WESTERN PART OF HIROSHIMA
1969 DEC 27	11	56	36.4	0.6	64.1	2.6	29.5	3.6	42 WESTERN PART OF HIROSHIMA
1969 DEC 27	18	30	21.7	0.2	72.4	0.7	108.7	0.9	42 EASTERN PART OF HIROSHIMA
1969 DEC 30	2	24	26.5	0.9	76.0	2.2	112.7	3.8	42 EASTERN PART OF HIROSHIMA
1969 DEC 30	18	59	6.6	0.2	70.9	0.7	109.4	0.9	81 NEAR YAKAKE, OKAYAMA
1969 DEC 30	22	32	56.6	0.2	72.5	0.7	145.3	1.2	33 NEAR KUTSUGAHARA
1969 DEC 31	0	11	53.6	0.3	107.5	0.9	75.2	1.7	33 NEAR KUTSUGAHARA
1970 JAN 1	20	36	15.6	0.2	10.9	1.6	52.6	1.6	58 NEAR KURASHASHI JIMA
1970 JAN 2	10	20	26.9	0.0	135.1	0.2	98.8	0.2	22 NITA-YOKOTA AND NICHINAN
1970 JAN 5	8	51	21.0	0.9	95.6	2.1	74.7	2.1	33 NEAR KUTSUGAHARA
1970 JAN 7	15	39	38.7	0.3	-0.7	2.1	57.7	2.0	95 EHIME
1970 JAN 8	0	58	10.2	0.2	105.8	0.6	75.5	1.1	33 NEAR KUTSUGAHARA
1970 JAN 9	14	37	43.9	0.4	99.8	0.9	115.4	1.8	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1970 JAN 11	11	42	30.9	0.4	116.7	0.5	70.0	2.7	32 NEAR AKAGI, SHIMANE

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME		X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	±/±	±/±	±/±		
1970 JAN 12	4 54	41.0	0.3	103.9	1.2	20.1	0.18	100 OUT OF THE MAP
1970 JAN 14	0 42	45.3	0.2	101.1	0.5	3.2	0.17	33 NEAR KUTSUGAHARA
1970 JAN 15	14 54	9.9	0.1	103.5	0.6	77.1	0.31	33 NEAR KUTSUGAHARA
1970 JAN 17	9 13	2.2	0.1	104.9	0.3	17.9	0.10	42 NEAR KUTSUGAHARA
1970 JAN 20	17 40	50.2	0.3	65.6	1.0	118.9	0.23	42 NEAR FUCHU
1970 JAN 22	11 31	3.5	0.1	105.5	0.5	8.7	0.23	33 NEAR KUTSUGAHARA
1970 JAN 23	8 26	9.0	0.2	91.8	0.7	88.2	0.27	44 MIYOSHI AND SHOBARA
1970 JAN 27	17 14	11.0	0.3	42.3	2.4	73.5	0.20	53 NEAR HACHITHONMATSU, HIROSHIMA
1970 JAN 28	14 13	18.2	0.2	104.2	1.3	81.0	0.21	33 NEAR KUTSUGAHARA
1970 JAN 30	8 9	53.9	0.3	51.0	2.0	70.1	0.20	53 NEAR HACHITHONMATSU, HIROSHIMA
1970 FEB 4	10 21	38.0	0.0	96.7	0.2	89.7	0.04	40 MIYOSHI AND SHOBARA
1970 FEB 4	10 49	37.6	0.2	97.6	1.1	87.3	0.11	40 MIYOSHI AND SHOBARA
1970 FEB 4	11 54	11.8	0.0	100.7	0.2	82.6	0.05	33 NEAR KUTSUGAHARA
1970 FEB 4	12 12	20.7	0.0	97.3	0.2	87.8	0.04	40 MIYOSHI AND SHOBARA
1970 FEB 4	12 25	28.5	0.1	98.2	0.7	84.9	0.27	40 MIYOSHI AND SHOBARA
1970 FEB 4	20 19	2.8	0.1	104.1	0.4	75.1	0.15	33 NEAR KUTSUGAHARA
1970 FEB 5	2 22	11.2	0.3	110.3	2.2	80.7	0.17	33 NEAR KUTSUGAHARA
1970 FEB 5	3 29	45.2	0.3	103.9	1.7	80.2	0.14	33 NEAR KUTSUGAHARA
1970 FEB 6	3 51	38.8	0.2	104.1	1.1	79.8	0.16	33 NEAR KUTSUGAHARA
1970 FEB 6	14 38	30.4	0.1	56.7	0.5	101.6	0.09	44 NEAR FUCHU
1970 FEB 7	12 35	56.3	0.3	116.6	0.6	129.1	0.19	85 NEAR ASHIDACHI, OKAYAMA
1970 FEB 8	16 27	32.2	0.1	103.7	0.8	75.5	0.35	33 NEAR KUTSUGAHARA
1970 FEB 10	10 27	0.7	0.4	93.1	1.3	74.1	0.27	10 WESTERN PART OF SHIMANE
1970 FEB 10	12 14	24.6	0.4	116.5	0.8	127.8	0.24	85 NEAR ASHIDACHI, OKAYAMA
1970 FEB 11	0 51	18.4	0.2	105.1	1.1	148.7	0.37	33 NEAR KUTSUGAHARA
1970 FEB 12	4 58	22.0	0.4	50.2	1.2	148.7	0.29	81 NEAR YAKAKE, OKAYAMA
1970 FEB 13	8 58	20.1	0.4	56.0	1.5	162.9	0.41	53 NEAR HACHITHONMATSU, HIROSHIMA
1970 FEB 14	0 18	40.2	0.3	80.8	0.9	147.7	0.59	10 WESTERN PART OF SHIMANE
1970 FEB 15	4 0	34.4	0.1	106.5	0.4	75.9	0.15	33 NEAR KUTSUGAHARA
1970 FEB 15	4 19	20.2	0.1	28.5	0.3	21.7	0.03	10 WESTERN PART OF SHIMANE
1970 FEB 15	20 6	29.1	0.3	107.8	1.2	21.7	0.14	70 HIROSHIMA-YAMAGUCHI BORDER
1970 FEB 16	17 43	15.0	0.1	94.8	1.6	72.3	0.04	33 NEAR KUTSUGAHARA
1970 FEB 17	7 43	20.8	0.2	92.3	0.2	83.1	0.37	40 MIYOSHI AND SHOBARA
1970 FEB 17	1 57	17.4	0.1	63.7	0.6	85.8	0.11	40 MIYOSHI AND SHOBARA
1970 FEB 20	9 3	33.2	0.2	106.7	0.7	71.8	0.25	50 CENTRAL PART OF HIROSHIMA
1970 FEB 20	10 54	4.5	0.2	107.2	0.9	70.8	0.13	33 NEAR KUTSUGAHARA
1970 FEB 20	11 8	58.0	0.2	105.9	1.6	75.0	0.10	33 NEAR KUTSUGAHARA
1970 FEB 20	21 58	52.2	0.1	116.1	0.3	82.4	0.10	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 FEB 21	10 8	26.2	0.2	120.0	0.6	101.6	0.18	25 NEAR EBOSHI-YAMA
1970 FEB 21	11 23	38.0	0.1	107.0	0.4	72.4	0.13	33 NEAR KUTSUGAHARA
1970 FEB 21	11 59	34.4	0.1	106.2	0.6	73.0	0.21	33 NEAR KUTSUGAHARA
1970 FEB 22	10 6	32.6	0.0	113.6	0.1	72.3	0.04	32 NEAR AKAGI, SHIMANE
1970 FEB 22	16 17	59.7	0.2	107.9	0.9	72.8	0.31	33 NEAR KUTSUGAHARA
1970 FEB 22	19 14	3.0	0.1	107.6	0.5	71.9	0.16	33 NEAR KUTSUGAHARA
1970 FEB 23	15 50	41.2	0.1	107.6	1.0	71.0	0.30	33 NEAR KUTSUGAHARA
1970 FEB 24	15 33	12.8	0.2	74.5	0.7	104.5	0.18	42 EASTERN PART OF HIROSHIMA
1970 FEB 25	12 56	5.1	0.1	114.6	0.9	84.9	0.07	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 FEB 25	13 6	32.3	0.2	113.8	1.9	85.0	0.15	31 CENTRAL PART OF TAKANO, HIROSHIMA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S			+/-			
1970 MAR 13	22	27	4.2	0.1	105.4	0.5	76.8	0.5	33 NEAR KUTSUGAHARA
1970 MAR 13	22	30	23.7	0.3	105.0	0.6	77.5	1.2	33 NEAR KUTSUGAHARA
1970 MAR 13	22	32	19.2	0.1	106.1	0.2	78.4	0.9	33 NEAR KUTSUGAHARA
1970 MAR 13	22	32	52.9	0.1	105.3	0.5	77.6	0.8	33 NEAR KUTSUGAHARA
1970 MAR 13	22	34	11.6	0.4	106.2	1.1	77.9	2.0	33 NEAR KUTSUGAHARA
1970 MAR 13	22	36	20.3	0.1	104.0	0.4	80.2	0.9	33 NEAR KUTSUGAHARA
1970 MAR 13	22	37	21.4	0.2	106.7	0.6	77.2	0.9	33 NEAR KUTSUGAHARA
1970 MAR 13	22	39	51.5	0.1	105.2	0.3	78.6	0.5	33 NEAR KUTSUGAHARA
1970 MAR 13	22	44	4.8	0.1	106.1	0.3	77.4	0.5	33 NEAR KUTSUGAHARA
1970 MAR 13	22	46	30.6	0.1	104.9	0.3	78.7	0.5	33 NEAR KUTSUGAHARA
1970 MAR 13	22	50	32.9	0.2	104.7	0.4	79.1	0.8	33 NEAR KUTSUGAHARA
1970 MAR 13	22	52	57.3	0.1	106.2	0.3	78.2	0.5	33 NEAR KUTSUGAHARA
1970 MAR 13	23	0	53.7	0.1	106.1	0.4	76.7	0.6	33 NEAR KUTSUGAHARA
1970 MAR 13	23	7	52.9	0.0	104.9	0.1	78.3	0.1	33 NEAR KUTSUGAHARA
1970 MAR 13	23	12	54.4	0.2	105.2	0.4	78.8	0.8	33 NEAR KUTSUGAHARA
1970 MAR 13	23	20	59.7	0.0	105.5	0.1	77.4	0.2	33 NEAR KUTSUGAHARA
1970 MAR 13	23	41	43.9	0.0	104.4	0.1	79.5	0.1	33 NEAR KUTSUGAHARA
1970 MAR 13	23	50	39.2	0.3	105.3	0.8	79.8	1.3	33 NEAR KUTSUGAHARA
1970 MAR 14	0	2	27.9	0.1	105.8	0.2	77.1	0.3	33 NEAR KUTSUGAHARA
1970 MAR 14	0	8	23.2	0.1	105.8	0.3	77.9	0.5	33 NEAR KUTSUGAHARA
1970 MAR 14	0	26	45.8	0.1	106.1	0.4	77.5	0.7	33 NEAR KUTSUGAHARA
1970 MAR 14	0	36	41.7	0.1	104.4	0.2	78.7	0.4	33 NEAR KUTSUGAHARA
1970 MAR 14	0	50	39.3	0.0	105.7	0.2	78.5	0.3	33 NEAR KUTSUGAHARA
1970 MAR 14	1	34	48.4	0.0	105.9	0.0	78.3	0.0	33 NEAR KUTSUGAHARA
1970 MAR 14	2	10	38.0	0.2	106.1	0.6	78.5	1.1	33 NEAR KUTSUGAHARA
1970 MAR 14	2	12	41.4	0.2	105.9	0.6	78.1	1.1	33 NEAR KUTSUGAHARA
1970 MAR 14	2	25	27.3	0.1	105.7	0.3	78.3	0.5	33 NEAR KUTSUGAHARA
1970 MAR 14	2	44	1.1	0.1	104.8	0.4	77.0	0.6	33 NEAR KUTSUGAHARA
1970 MAR 14	2	47	17.7	0.1	105.5	0.4	77.8	0.7	33 NEAR KUTSUGAHARA
1970 MAR 14	2	48	27.1	0.2	106.4	0.6	78.1	1.0	33 NEAR KUTSUGAHARA
1970 MAR 14	3	0	47.5	0.2	104.6	0.6	78.8	1.1	33 NEAR KUTSUGAHARA
1970 MAR 14	4	35	37.8	0.1	104.1	0.3	79.8	0.6	33 NEAR KUTSUGAHARA
1970 MAR 14	4	43	43.5	0.1	104.4	0.3	78.6	0.5	33 NEAR KUTSUGAHARA
1970 MAR 14	6	0	52.4	0.1	105.9	0.4	77.8	0.7	33 NEAR KUTSUGAHARA
1970 MAR 14	6	53	47.7	0.1	104.9	0.2	77.8	0.4	33 NEAR KUTSUGAHARA
1970 MAR 14	6	59	13.5	0.4	105.2	0.8	77.9	1.5	33 NEAR KUTSUGAHARA
1970 MAR 14	8	3	57.2	0.1	105.9	0.2	76.8	0.4	33 NEAR KUTSUGAHARA
1970 MAR 14	9	35	61.6	0.2	103.4	1.6	78.6	3.0	33 NEAR KUTSUGAHARA
1970 MAR 14	11	47	55.8	0.1	103.9	0.7	77.7	0.8	33 NEAR KUTSUGAHARA
1970 MAR 14	16	0	52.4	0.1	105.9	0.4	77.7	0.7	33 NEAR KUTSUGAHARA
1970 MAR 14	17	43	14.1	0.2	104.9	0.6	75.2	1.2	33 NEAR KUTSUGAHARA
1970 MAR 14	22	40	3.4	0.2	104.5	0.3	77.2	0.6	33 NEAR KUTSUGAHARA
1970 MAR 15	1	52	8.3	0.1	103.3	0.3	75.6	0.5	33 NEAR KUTSUGAHARA
1970 MAR 15	2	30	26.9	0.2	106.1	0.5	76.3	0.8	33 NEAR KUTSUGAHARA
1970 MAR 15	3	49	17.8	0.9	109.2	1.8	69.4	2.8	33 NEAR KUTSUGAHARA
1970 MAR 15	5	32	4.6	0.1	102.2	0.6	79.2	1.9	33 NEAR KUTSUGAHARA
1970 MAR 15	11	32	35.0	0.3	104.9	0.7	72.1	1.2	33 NEAR KUTSUGAHARA
1970 MAR 15	12	5	2.0	0.1	102.7	0.2	78.8	0.4	33 NEAR KUTSUGAHARA
1970 MAR 15	12	5	2.8	0.3	105.3	0.8	78.4	1.5	33 NEAR KUTSUGAHARA
1970 MAR 15	15	26	51.9	0.1	105.4	0.4	76.9	0.6	33 NEAR KUTSUGAHARA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	±/-	±/-	±/-			
1970 MAR 15	19	34	42.8	0.1	78.9	6.3	0.11	1.2	33 NEAR KUTSUGAHARA
1970 MAR 15	20	38	12.5	0.1	76.5	9.6	0.16	1.2	33 NEAR KUTSUGAHARA
1970 MAR 15	20	44	24.6	0.1	80.0	0.7	0.16	2.1	33 NEAR KUTSUGAHARA
1970 MAR 15	20	45	2.8	0.0	74.3	0.1	0.01	1.4	33 NEAR KUTSUGAHARA
1970 MAR 15	21	1	3.6	0.3	75.3	1.6	0.24	2.8	33 NEAR KUTSUGAHARA
1970 MAR 15	21	3	59.7	0.2	79.1	1.1	0.24	3.3	33 NEAR KUTSUGAHARA
1970 MAR 15	21	10	12.0	0.6	78.5	1.8	0.38	1.2	33 NEAR KUTSUGAHARA
1970 MAR 15	22	51	39.2	0.4	79.0	2.0	0.43	2.2	33 NEAR KUTSUGAHARA
1970 MAR 16	0	26	23.7	0.1	77.7	1.7	0.07	1.5	33 NEAR KUTSUGAHARA
1970 MAR 16	1	4	53.9	0.1	78.3	1.6	0.29	4.3	33 NEAR KUTSUGAHARA
1970 MAR 16	1	13	23.2	0.1	75.2	0.8	0.15	1.4	33 NEAR KUTSUGAHARA
1970 MAR 16	1	14	43.2	0.2	78.2	1.0	0.22	3.0	33 NEAR KUTSUGAHARA
1970 MAR 16	1	20	10.7	0.1	76.7	0.8	0.16	1.4	33 NEAR KUTSUGAHARA
1970 MAR 16	1	32	18.5	0.2	78.6	2.2	0.08	0.8	33 NEAR KUTSUGAHARA
1970 MAR 16	1	35	44.7	0.1	78.2	0.7	0.16	1.1	33 NEAR KUTSUGAHARA
1970 MAR 16	1	36	35.3	0.2	78.4	0.9	0.16	1.2	33 NEAR KUTSUGAHARA
1970 MAR 16	1	37	35.5	0.1	78.1	0.8	0.13	1.5	33 NEAR KUTSUGAHARA
1970 MAR 16	1	38	34.7	0.1	78.6	0.6	0.13	1.3	33 NEAR KUTSUGAHARA
1970 MAR 16	1	40	20.6	0.1	76.7	1.1	0.04	0.8	33 NEAR KUTSUGAHARA
1970 MAR 16	1	54	54.9	0.1	75.6	0.6	0.12	0.9	33 NEAR KUTSUGAHARA
1970 MAR 16	2	8	54.5	0.2	77.3	1.0	0.20	2.1	33 NEAR KUTSUGAHARA
1970 MAR 16	2	31	27.8	0.1	76.9	0.6	0.12	1.4	33 NEAR KUTSUGAHARA
1970 MAR 16	2	55	17.8	0.1	77.1	0.5	0.09	1.4	33 NEAR KUTSUGAHARA
1970 MAR 16	3	8	47.2	0.1	76.7	0.5	0.10	1.5	33 NEAR KUTSUGAHARA
1970 MAR 16	3	13	21.1	0.1	77.7	0.4	0.09	1.4	33 NEAR KUTSUGAHARA
1970 MAR 16	3	16	43.8	0.1	73.7	2.8	0.11	0.9	33 NEAR KUTSUGAHARA
1970 MAR 16	3	18	26.8	0.2	76.0	3.1	0.11	1.1	33 NEAR KUTSUGAHARA
1970 MAR 16	3	33	51.8	0.2	78.7	0.5	0.11	1.4	33 NEAR KUTSUGAHARA
1970 MAR 16	3	39	18.5	0.1	75.9	1.1	0.21	1.1	33 NEAR KUTSUGAHARA
1970 MAR 16	4	51	56.6	0.2	139.0	3.2	0.49	2.1	81 NEAR YAKAKE, OKAYAMA
1970 MAR 16	5	16	49.6	0.6	81.0	0.2	0.01	1.0	33 NEAR KUTSUGAHARA
1970 MAR 16	5	56	15.3	0.0	77.2	1.1	0.24	1.3	33 NEAR KUTSUGAHARA
1970 MAR 16	6	20	42.2	0.2	76.6	0.6	0.13	1.9	33 NEAR KUTSUGAHARA
1970 MAR 16	6	48	0.7	0.1	78.5	1.2	0.26	0.8	33 NEAR KUTSUGAHARA
1970 MAR 16	6	59	37.6	0.3	75.0	2.0	0.09	1.2	33 NEAR KUTSUGAHARA
1970 MAR 16	7	52	42.8	0.2	79.5	1.0	0.13	1.8	33 NEAR KUTSUGAHARA
1970 MAR 16	7	58	47.5	0.1	78.5	0.1	0.01	1.4	33 NEAR KUTSUGAHARA
1970 MAR 16	9	43	12.6	0.0	78.8	2.8	0.11	0.8	33 NEAR KUTSUGAHARA
1970 MAR 16	9	48	4.4	0.2	75.5	0.7	0.12	2.8	33 NEAR KUTSUGAHARA
1970 MAR 16	10	13	41.3	0.1	77.6	0.5	0.11	1.6	33 NEAR KUTSUGAHARA
1970 MAR 16	10	16	49.9	0.1	75.9	2.0	0.42	1.5	33 NEAR KUTSUGAHARA
1970 MAR 16	10	17	35.0	0.4	80.9	3.0	0.54	1.3	33 NEAR KUTSUGAHARA
1970 MAR 16	10	27	20.3	0.3	82.0	6.6	0.55	1.2	33 NEAR KUTSUGAHARA
1970 MAR 16	10	48	10.3	0.6	79.8	3.3	0.32	1.2	40 NEAR KUTSUGAHARA
1970 MAR 16	10	57	35.4	0.6	74.6	6.6	0.46	2.0	40 NEAR KUTSUGAHARA
1970 MAR 16	11	15	40.5	0.9	79.0	1.7	0.38	1.7	33 NEAR KUTSUGAHARA
1970 MAR 16	12	13	41.3	0.3	82.0	0.4	0.25	1.1	33 NEAR KUTSUGAHARA
1970 MAR 16	12	37	31.5	0.1	82.4	0.9	0.15	1.5	33 NEAR KUTSUGAHARA
1970 MAR 16	14	55	20.1	0.2	76.5	0.7	0.38	1.3	33 NEAR KUTSUGAHARA
1970 MAR 16	15	17	44.3	0.2	78.5	2.6	4.6		

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)		Y(KM)	DEPTH(KM)		S	MAG	REGION
	H	M	S	+/-	+/-		+/-	+/-			
1970 MAR 16	15	59	35.7	0.2	102.9	80.4	1.7	3.9	R	0.62	2.1 B
1970 MAR 16	16	6	54.5	0.1	103.9	79.6	1.4	2.8	4.4	0.05	33 NEAR KUTSUGAHARA
1970 MAR 16	16	13	28.5	0.1	100.3	82.2	0.9	5.2	R	0.24	1.1
1970 MAR 16	16	33	40.7	0.2	103.2	79.4	1.3	4.6	R	0.43	33 NEAR KUTSUGAHARA
1970 MAR 16	16	35	55.6	0.1	105.3	82.7	0.6	6.9	0.5	0.07	33 NEAR KUTSUGAHARA
1970 MAR 16	17	28	30.4	0.1	100.6	82.7	0.9	5.2	R	0.23	33 NEAR KUTSUGAHARA
1970 MAR 16	18	34	5.8	0.2	104.7	76.1	0.8	9.9	1.7	0.18	1.4
1970 MAR 16	19	45	11.4	0.1	104.3	71.8	0.8	9.9	1.2	0.12	2.3 B
1970 MAR 16	21	22	34.3	0.3	104.8	72.0	1.8	11.1	3.4	0.35	1.4
1970 MAR 16	22	59	50.7	0.1	107.0	74.8	0.7	4.5	1.1	0.14	0.9
1970 MAR 17	0	44	31.4	0.1	104.0	75.1	0.5	16.9	0.9	0.09	2.8 B
1970 MAR 17	0	55	27.7	0.0	101.8	75.4	0.2	15.2	0.4	0.04	2.1 B
1970 MAR 17	0	58	58.1	0.0	104.8	77.2	0.3	6.1	0.4	0.06	1.4
1970 MAR 17	2	13	39.6	0.2	105.1	77.2	0.3	11.6	1.6	0.17	1.5
1970 MAR 17	3	40	58.8	0.0	106.5	75.8	0.8	7.8	0.5	0.05	1.3
1970 MAR 17	4	25	22.2	0.2	104.1	71.1	1.1	13.1	2.3	0.21	1.1
1970 MAR 17	5	23	43.5	0.1	104.5	73.9	0.3	11.1	0.5	0.05	1.5
1970 MAR 17	5	34	1.8	0.1	105.5	73.8	0.5	5.2	0.8	0.10	1.5
1970 MAR 17	5	41	56.4	0.1	104.6	74.6	0.5	2.9	0.8	0.08	2.3 B
1970 MAR 17	5	44	15.1	0.1	104.3	73.3	0.7	11.5	1.4	0.15	1.1
1970 MAR 17	6	50	45.4	0.1	104.4	76.5	0.3	9.9	0.6	0.06	0.8
1970 MAR 17	10	3	26.6	0.1	105.6	75.2	0.8	9.2	1.5	0.16	1.5
1970 MAR 17	10	23	17.5	0.1	104.6	77.0	1.0	3.9	R	0.30	1.3
1970 MAR 17	20	1	21.8	0.1	105.2	78.4	0.8	4.8	2.0	0.16	1.5
1970 MAR 17	23	2	29.2	0.1	105.0	74.8	0.6	1.9	1.0	0.11	1.1
1970 MAR 18	0	4	21.0	0.3	109.9	70.2	2.0	4.5	R	0.30	0.9
1970 MAR 18	2	36	13.9	0.0	104.0	81.8	0.3	0.9	R	0.05	0.8
1970 MAR 18	4	29	20.1	0.2	105.4	78.6	1.3	4.6	3.0	0.21	3.0 B
1970 MAR 18	4	50	27.8	0.2	106.7	76.8	1.0	7.4	1.8	0.19	1.5
1970 MAR 18	5	16	42.0	0.0	104.7	78.5	0.0	3.1	0.0	0.00	2.4 B
1970 MAR 18	5	26	44.3	0.2	104.9	77.6	0.9	5.3	2.2	0.20	1.4
1970 MAR 18	5	44	31.3	0.2	106.0	77.7	1.4	4.5	3.2	0.29	2.4 B
1970 MAR 18	6	1	21.7	0.3	71.5	149.6	1.7	25.1	2.7	0.16	1.5
1970 MAR 18	6	3	14.1	0.2	103.7	80.5	2.9	2.9	7.3	0.12	0.8
1970 MAR 18	6	39	17.4	0.1	106.4	78.4	0.5	6.1	1.1	0.10	1.2
1970 MAR 18	8	48	26.7	0.2	107.5	77.6	1.4	0.8	R	0.37	1.6
1970 MAR 18	12	23	18.0	0.2	103.9	74.4	1.5	1.0	R	0.24	2.3 B
1970 MAR 18	12	25	27.4	0.2	106.0	74.7	1.5	3.5	1.2	0.30	1.2
1970 MAR 18	13	2	23.5	0.1	105.4	77.3	0.4	6.6	0.5	0.08	1.2
1970 MAR 18	14	3	49.9	0.1	104.1	75.1	0.6	1.6	R	0.15	2.2 B
1970 MAR 18	18	59	49.1	0.0	105.8	76.4	0.1	7.4	0.1	0.01	2.7 B
1970 MAR 18	19	49	6.4	0.0	104.3	75.5	0.2	4.9	0.2	0.03	1.2
1970 MAR 19	4	42	21.2	0.1	104.9	74.0	1.0	2.5	0.9	0.20	1.0
1970 MAR 19	5	33	37.0	0.2	104.8	75.1	1.1	4.6	2.0	0.23	1.8 B
1970 MAR 19	7	48	12.6	0.4	51.0	64.9	1.5	24.5	1.8	0.31	1.3 B
1970 MAR 19	8	55	55.2	0.1	104.8	77.2	1.8	3.4	2.5	0.06	0.8
1970 MAR 19	10	28	30.3	0.0	106.7	76.4	0.3	4.8	0.4	0.05	1.8
1970 MAR 19	11	47	3.5	0.2	104.4	76.9	1.0	6.0	2.1	0.21	1.3
1970 MAR 19	14	39	40.7	0.1	106.4	74.4	0.9	6.6	0.2	0.04	1.1
1970 MAR 19	20	15	51.3	0.4	103.4	79.6	1.4	18.8	3.5	0.31	1.6 B

33 NEAR HACHIMATSU, HIROSHIMA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME	H	S	X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
1970 MAR 19	20 16 22.2	0.0	0.0	103.8	80.4	3.9	1.3	0.02	33 NEAR KUTSUGAHARA
1970 MAR 19	20 21 22.8	0.0	0.0	105.0	78.0	5.7	0.7	0.06	33 NEAR KUTSUGAHARA
1970 MAR 19	20 53 1.7	0.1	0.1	105.4	78.0	4.5	R	0.37	33 NEAR KUTSUGAHARA
1970 MAR 19	21 6 34.4	0.0	0.0	105.2	76.4	6.1	0.5	0.05	33 NEAR KUTSUGAHARA
1970 MAR 19	22 6 7.7	0.1	0.1	106.4	76.2	7.8	1.3	0.14	2.7 B
1970 MAR 19	22 10 36.0	0.1	0.1	106.3	76.6	7.1	R	0.13	33 NEAR KUTSUGAHARA
1970 MAR 19	22 12 56.6	0.1	0.1	106.4	76.1	8.2	1.5	0.16	2.1
1970 MAR 20	0 59 39.9	0.2	0.2	106.6	72.5	6.7	1.8	0.20	2.7 B
1970 MAR 20	1 6 36.8	0.0	0.0	106.7	73.2	5.5	0.5	0.06	33 NEAR KUTSUGAHARA
1970 MAR 20	5 51 37.4	0.2	0.2	105.4	78.1	5.0	2.4	0.21	1.0
1970 MAR 20	7 42 59.9	0.0	0.0	106.5	76.0	4.0	0.3	0.04	33 NEAR KUTSUGAHARA
1970 MAR 20	14 1 26.0	0.1	0.1	103.1	76.3	5.1	0.7	0.06	2.2 B
1970 MAR 20	15 50 55.6	0.3	0.3	106.7	75.3	5.9	2.5	0.28	33 NEAR KUTSUGAHARA
1970 MAR 20	21 11 57.8	0.2	0.2	104.2	76.8	1.2	7.2	2.2	1.8 B
1970 MAR 21	12 33 58.4	0.0	0.0	104.4	77.4	0.3	1.0	R	33 NEAR KUTSUGAHARA
1970 MAR 21	12 35 50.5	0.1	0.1	104.0	76.7	0.9	0.5	R	33 NEAR KUTSUGAHARA
1970 MAR 21	12 52 50.5	1.1	1.1	105.3	75.7	1.1	2.0	R	33 NEAR KUTSUGAHARA
1970 MAR 21	14 53 50.5	0.2	0.2	106.2	71.6	1.7	2.0	R	33 NEAR KUTSUGAHARA
1970 MAR 21	18 19 33.6	0.1	0.1	106.9	75.5	0.4	7.7	0.7	1.2
1970 MAR 21	22 13 37.7	0.0	0.0	104.7	75.4	0.8	3.7	R	33 NEAR KUTSUGAHARA
1970 MAR 21	23 2 44.5	0.1	0.1	106.1	76.6	0.4	1.3	R	33 NEAR KUTSUGAHARA
1970 MAR 21	23 12 27.3	0.1	0.1	107.0	73.8	0.4	3.9	0.5	1.1
1970 MAR 22	0 12 11.5	0.1	0.1	105.0	76.4	0.9	1.4	3.5	33 NEAR KUTSUGAHARA
1970 MAR 22	1 32 55.6	0.1	0.1	105.2	76.2	0.5	3.5	0.9	33 NEAR KUTSUGAHARA
1970 MAR 22	3 48 17.5	0.1	0.1	105.2	77.5	0.4	9.5	2.9	33 NEAR KUTSUGAHARA
1970 MAR 22	5 35 57.1	0.2	0.2	112.5	66.6	1.0	10.1	2.3	32 NEAR AKAGI, SHIMANE
1970 MAR 22	8 32 54.4	0.4	0.4	106.0	74.3	2.8	0.0	R	33 NEAR KUTSUGAHARA
1970 MAR 22	11 46 16.4	0.1	0.1	109.3	69.1	0.5	0.3	R	33 NEAR KUTSUGAHARA
1970 MAR 22	11 46 20.9	0.1	0.1	106.5	74.9	0.5	1.1	R	33 NEAR KUTSUGAHARA
1970 MAR 23	4 39 21.5	0.3	0.3	122.5	51.5	1.7	2.8	R	8 CENTRAL PART OF SHIMANE
1970 MAR 23	4 39 21.5	0.3	0.3	122.5	51.5	1.7	2.8	R	33 NEAR KUTSUGAHARA
1970 MAR 23	15 13 5.5	0.0	0.0	105.4	77.2	0.7	1.3	R	33 NEAR KUTSUGAHARA
1970 MAR 23	19 18 49.9	0.1	0.1	106.2	75.3	0.2	0.8	0.8	33 NEAR KUTSUGAHARA
1970 MAR 23	19 22 13.5	0.0	0.0	106.2	75.3	0.3	1.7	R	33 NEAR KUTSUGAHARA
1970 MAR 24	1 45 30.4	0.1	0.1	105.5	78.8	0.8	1.7	R	33 NEAR KUTSUGAHARA
1970 MAR 24	8 6 38.6	0.1	0.1	105.5	75.5	0.5	2.2	R	33 NEAR KUTSUGAHARA
1970 MAR 24	14 46 57.6	0.6	0.6	47.5	153.3	15.3	76.2	20.9	31 KAGAWA
1970 MAR 24	18 28 1.4	0.1	0.1	105.4	77.3	0.9	0.7	R	33 NEAR KUTSUGAHARA
1970 MAR 25	0 43 55.1	0.0	0.0	106.5	76.3	0.3	3.9	0.6	33 NEAR KUTSUGAHARA
1970 MAR 25	13 20 27.4	0.0	0.0	106.0	78.4	0.2	0.7	R	33 NEAR KUTSUGAHARA
1970 MAR 25	21 8 48.3	0.1	0.1	108.5	70.6	0.6	2.3	R	33 NEAR KUTSUGAHARA
1970 MAR 27	0 44 9.2	0.0	0.0	104.0	75.3	0.2	7.4	0.2	33 NEAR KUTSUGAHARA
1970 MAR 27	16 16 35.5	0.2	0.2	104.5	78.5	1.3	2.2	R	33 NEAR KUTSUGAHARA
1970 MAR 27	16 37 13.0	0.0	0.0	116.7	129.8	0.1	17.8	0.1	85 NEAR ASHICHIKAWA
1970 MAR 28	2 24 1.3	0.4	0.4	109.7	75.3	1.2	5.5	14.5	33 NEAR KUTSUGAHARA
1970 MAR 28	3 25 23.4	0.3	0.3	60.8	94.4	0.8	14.1	1.8	42 EASTERN PART OF HIROSHIMA
1970 MAR 29	11 17 9.1	0.0	0.0	114.7	82.1	0.3	2.9	R	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 MAR 30	1 41 48.5	0.0	0.0	104.9	77.3	0.5	0.3	R	33 NEAR KUTSUGAHARA
1970 MAR 30	14 9 8.3	0.1	0.1	122.5	73.2	0.5	0.5	R	30 NEAR TONBARA, SHIMANE

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-	+/-		
1970 MAR 30	14	10	45.4	0.2	115.2	0.5	84.7	1.4	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 MAR 30	15	11	8.0	0.1	121.6	0.3	74.0	1.7	30 NEAR TONBARA, SHIMANE
1970 MAR 30	22	58	43.6	0.1	104.9	0.3	79.2	1.4	33 NEAR KUTSUGAHARA
1970 MAR 30	22	58	43.6	0.1	104.9	0.3	79.2	1.3	33 NEAR KUTSUGAHARA
1970 MAR 31	8	21	45.0	0.2	108.6	0.8	71.8	1.0	33 NEAR KUTSUGAHARA
1970 MAR 31	8	44	59.1	0.4	107.6	0.9	77.9	1.4	33 NEAR KUTSUGAHARA
1970 APR 1	13	45	17.4	0.1	104.2	0.3	78.1	0.9	33 NEAR KUTSUGAHARA
1970 APR 1	20	39	53.2	0.1	108.2	0.4	69.0	1.1	33 NEAR KUTSUGAHARA
1970 APR 2	0	35	8.2	0.1	103.4	0.3	76.4	1.5	33 NEAR KUTSUGAHARA
1970 APR 2	8	28	43.2	0.2	106.5	0.6	73.2	1.5	33 NEAR KUTSUGAHARA
1970 APR 2	14	1	17.5	0.3	94.2	0.7	91.4	1.3	40 MIYOSHI AND SHOBARA
1970 APR 3	7	58	9.8	0.4	34.4	1.8	154.3	1.9	91 KAGAWA
1970 APR 4	6	6	57.7	0.2	106.6	0.7	74.3	1.4	33 NEAR KUTSUGAHARA
1970 APR 4	10	24	57.8	0.3	106.2	1.2	72.6	1.0	33 NEAR KUTSUGAHARA
1970 APR 4	16	33	54.1	0.1	106.7	0.5	74.0	1.1	33 NEAR KUTSUGAHARA
1970 APR 4	16	52	8.6	0.0	107.3	0.2	74.3	1.5	33 NEAR KUTSUGAHARA
1970 APR 4	17	5	2.6	0.2	109.8	1.1	69.1	1.0	33 NEAR KUTSUGAHARA
1970 APR 4	20	28	57.1	0.2	106.9	0.9	76.7	1.4	33 NEAR KUTSUGAHARA
1970 APR 4	20	37	59.7	0.2	-17.0	1.5	55.4	2.5	95 EHIME
1970 APR 4	23	44	28.7	0.2	106.4	0.6	75.0	1.7	33 NEAR KUTSUGAHARA
1970 APR 4	23	50	39.8	0.1	106.1	0.2	75.9	1.4	33 NEAR KUTSUGAHARA
1970 APR 5	7	27	58.7	0.0	106.6	0.1	74.7	1.0	33 NEAR KUTSUGAHARA
1970 APR 5	12	20	38.0	0.0	105.1	0.2	76.0	1.7	33 NEAR KUTSUGAHARA
1970 APR 5	12	24	20.4	0.2	105.9	1.0	76.0	1.3	33 NEAR KUTSUGAHARA
1970 APR 5	13	2	34.9	0.1	105.9	0.6	75.1	1.1	33 NEAR KUTSUGAHARA
1970 APR 5	13	5	41.2	0.0	105.3	0.2	76.0	1.1	33 NEAR KUTSUGAHARA
1970 APR 5	14	59	42.6	0.4	108.3	2.3	70.1	1.0	33 NEAR KUTSUGAHARA
1970 APR 5	23	16	0.7	0.0	106.8	0.1	74.6	1.5	33 NEAR KUTSUGAHARA
1970 APR 6	4	21	44.5	0.2	104.5	0.7	75.0	1.2	33 NEAR KUTSUGAHARA
1970 APR 8	6	54	48.5	0.3	44.0	1.1	33.6	1.3	55 NEAR HIROSHIMA
1970 APR 9	18	14	40.2	0.3	104.3	1.0	78.1	1.8	33 NEAR KUTSUGAHARA
1970 APR 10	9	35	40.0	0.0	102.8	0.1	80.6	1.1	33 NEAR KUTSUGAHARA
1970 APR 11	11	28	59.8	0.2	102.3	0.8	79.7	1.4	33 NEAR KUTSUGAHARA
1970 APR 11	22	55	37.8	0.2	8.5	1.1	7.8	1.1	70 HIROSHIMA-YAMAGUCHI BORDER
1970 APR 12	8	50	10.5	0.2	105.1	0.5	75.9	1.7	33 NEAR KUTSUGAHARA
1970 APR 12	23	34	37.0	0.1	129.6	0.8	110.8	1.6	33 NEAR KUTSUGAHARA
1970 APR 13	2	26	14.1	0.1	132.7	0.6	108.4	1.6	22 NITA, YOKOTA AND NICHINAN
1970 APR 13	6	59	30.1	0.1	112.4	0.4	85.2	1.4	22 NITA, YOKOTA AND NICHINAN
1970 APR 13	10	9	41.8	0.2	131.2	1.0	104.7	2.2	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 APR 13	16	4	37.6	0.1	106.0	0.3	76.5	1.3	32 NEAR KUTSUGAHARA
1970 APR 13	18	38	21.0	0.2	110.1	0.6	63.6	0.9	32 NEAR KUTSUGAHARA
1970 APR 13	21	24	15.9	0.1	138.2	0.6	110.8	1.7	1 OFF COAST OF SHIMANE
1970 APR 14	22	19	4.0	0.1	104.5	0.3	77.2	0.5	33 NEAR KUTSUGAHARA
1970 APR 15	11	44	6.4	0.6	133.4	1.9	100.9	2.0	22 NITA, YOKOTA AND NICHINAN
1970 APR 15	13	17	24.1	0.2	103.9	0.5	77.3	1.4	33 NEAR KUTSUGAHARA
1970 APR 15	13	32	6.7	0.3	33.7	1.0	173.5	1.7	100 OUT OF THE MAP
1970 APR 15	13	59	3.4	0.3	4.2	2.1	17.4	2.2	70 HIROSHIMA-YAMAGUCHI BORDER
1970 APR 16	10	19	9.3	0.0	-24.8	4.2	43.3	1.7	95 EHIME
1970 APR 17	1	38	51.1	0.8	55.6	4.1	73.2	2.3	53 NEAR HACHIONWATSU, HIROSHIMA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME		X(KM)		Y(KM)		DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-	+/-			
1970 APR 17	3 27	37.3	0.1	101.9	0.7	82.9	1.0	5.9	0.25	33 NEAR KUTSUGAHARA
1970 APR 17	13 19	6.5	0.2	-0.6	1.4	29.4	1.4	49.8	2.2	70 HIROSHIMA-YAMAGUCHI BORDER
1970 APR 18	7 44	40.6	0.2	126.5	0.5	66.5	1.2	16.0	3.0	30 NEAR TONBARA, SHIMANE
1970 APR 18	12 27	50.7	0.4	125.8	1.2	69.1	2.0	13.1	6.3	30 NEAR TONBARA, SHIMANE
1970 APR 18	15 32	37.8	0.3	7.1	2.0	137.1	0.9	0	0.23	95 EHIME
1970 APR 18	16 52	59.5	0.7	7.9	3.9	131.5	3.3	28.0	9.8	95 EHIME
1970 APR 19	12 20	35.7	0.1	105.9	0.4	77.7	0.8	7.0	1.6	33 NEAR KUTSUGAHARA
1970 APR 20	20 23	29.7	0.1	106.0	0.4	77.2	0.7	5.5	1.3	33 NEAR KUTSUGAHARA
1970 APR 21	1 6	37.3	0.4	68.0	1.5	111.6	1.7	14.9	0.14	33 NEAR KUTSUGAHARA
1970 APR 21	16 17	55.7	0.2	105.8	0.7	77.6	1.2	10.3	2.6	33 NEAR KUTSUGAHARA
1970 APR 21	19 54	10.9	0.6	129.7	2.7	-3.3	5.1	21.8	20.4	1 OFF COAST OF SHIMANE
1970 APR 21	21 31	17.6	0.0	107.2	0.1	74.4	0.1	7.0	0.2	33 NEAR KUTSUGAHARA
1970 APR 21	21 32	51.8	0.1	107.3	0.5	74.3	1.0	5.9	1.6	33 NEAR KUTSUGAHARA
1970 APR 21	21 44	42.7	0.2	106.8	0.9	77.7	1.5	4.7	2.8	33 NEAR KUTSUGAHARA
1970 APR 21	22 43	51.9	0.4	79.2	0.8	84.0	1.2	7.6	6.3	50 CENTRAL PART OF HIROSHIMA
1970 APR 22	1 19	21.4	0.1	63.9	0.2	23.8	0.3	22.9	0.6	65 WESTERN PART OF HIROSHIMA
1970 APR 22	12 41	52.2	0.1	105.5	0.3	76.1	0.4	0.3	0	33 NEAR KUTSUGAHARA
1970 APR 23	2 51	25.6	0.2	108.3	0.7	70.2	1.1	2.5	0	33 NEAR KUTSUGAHARA
1970 APR 23	13 22	38.5	0.2	-13.4	0.8	137.6	0.9	10.7	0.09	95 EHIME
1970 APR 23	22 23	38.4	0.1	107.0	0.6	76.5	1.0	2.7	0	33 NEAR KUTSUGAHARA
1970 APR 25	13 29	16.7	0.2	102.8	0.8	163.8	0.4	16.3	3.9	100 OUT OF THE MAP
1970 APR 25	14 50	23.9	0.4	103.2	1.1	159.2	2.1	1.2	0	87 NEAR ASAHI, OKAYAMA
1970 APR 26	3 33	54.8	0.0	101.2	0.2	124.4	0.3	1.6	0.06	33 NEAR KUTSUGAHARA
1970 APR 26	14 22	23.9	0.5	133.8	1.9	103.3	1.8	5.9	9.2	22 NITTA, YOKOTA AND NICHINAN
1970 APR 26	18 12	15.4	0.4	11.3	1.1	101.4	1.2	10.6	4.5	42 EASTERN PART OF HIROSHIMA
1970 APR 26	22 10	15.2	0.3	119.5	1.0	11.3	1.8	1.1	0	30 NEAR TONBARA, SHIMANE
1970 APR 27	15 21	35.0	0.1	104.4	0.2	76.5	0.4	5.9	0.8	33 NEAR KUTSUGAHARA
1970 APR 27	15 13	21.0	0.2	120.8	0.7	71.6	1.3	2.4	0	30 NEAR TONBARA, SHIMANE
1970 APR 30	2 49	23.3	0.1	107.5	0.3	75.1	0.5	4.4	0.9	33 NEAR KUTSUGAHARA
1970 MAY 1	12 56	17.1	0.2	64.6	0.7	47.8	0.7	20.7	0.9	55 NEAR HIROSHIMA
1970 MAY 3	4 36	1.8	0.2	58.0	1.3	42.3	2.0	39.8	1.4	95 WESTERN PART OF HIROSHIMA
1970 MAY 3	21 26	36.5	0.2	115.7	0.6	82.0	1.0	7.4	1.7	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 MAY 4	0 59	58.1	0.2	115.2	0.8	43.7	1.7	16.3	1.0	33 NEAR KUTSUGAHARA
1970 MAY 4	23 33	44.1	0.1	97.5	0.5	63.7	0.7	2.2	0.13	50 CENTRAL PART OF HIROSHIMA
1970 MAY 5	20 47	26.8	0.1	55.5	0.5	137.5	0.6	22.1	0.8	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1970 MAY 6	15 6	47.2	0.1	133.7	0.6	102.1	1.9	7.2	0	22 NITTA, YOKOTA AND NICHINAN
1970 MAY 6	22 47	50.1	0.3	117.7	1.1	71.1	0.9	8.7	1.4	32 NEAR AKAGI, SHIMANE
1970 MAY 7	7 7	37.1	0.2	110.6	0.7	104.3	1.1	8.7	1.5	32 NEAR AKAGI, SHIMANE
1970 MAY 7	17 14	0.9	0.2	131.2	1.8	104.3	1.5	15.6	7.9	22 NITTA, YOKOTA AND NICHINAN
1970 MAY 7	18 32	46.9	0.1	130.2	0.5	98.1	1.5	16.2	2.1	22 NITTA, YOKOTA AND NICHINAN
1970 MAY 7	18 36	46.8	0.3	127.2	1.3	98.0	1.2	15.6	5.7	22 NITTA, YOKOTA AND NICHINAN
1970 MAY 8	10 45	50.3	0.5	129.5	2.3	99.2	0.9	24.2	1.4	22 NITTA, YOKOTA AND NICHINAN
1970 MAY 8	12 44	58.8	0.2	139.0	0.7	105.0	0.9	24.2	0	22 NITTA, YOKOTA AND NICHINAN
1970 MAY 8	15 53	38.5	0.3	132.3	1.4	100.7	1.1	2.6	5.7	33 NEAR KUTSUGAHARA
1970 MAY 9	6 6	47.7	0.6	107.9	2.7	79.8	1.8	0	0	40 MIYOSHI AND SHOBARA
1970 MAY 9	8 29	1.1	0.2	91.7	0.4	82.2	0.4	10.4	1.9	33 NEAR KUTSUGAHARA
1970 MAY 9	23 41	48.1	0.2	105.9	0.8	79.2	0.5	5.3	1.8	33 NEAR KUTSUGAHARA
1970 MAY 13	19 21	50.9	0.5	21.5	2.9	35.7	3.0	69.5	0	58 NEAR KURASHIJIIMA
1970 MAY 15	12 50	51.0	0.2	81.2	0.4	94.5	0.6	11.6	2.3	42 EASTERN PART OF HIROSHIMA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME		X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H	M	S	+/-	+/-	+/-		
1970 MAY 15	15	27	13.8	0.4	175.9	3.1	26.4	100 OUT OF THE MAP
1970 MAY 16	8	29	21.2	0.5	107.3	2.2	1.1	83 NORTHERN HIROSHIMA-OKAYAMA BORDER
1970 MAY 16	13	22	24.8	0.2	81.2	0.5	15.5	55 WESTERN PART OF HIROSHIMA
1970 MAY 17	13	55	13.5	0.4	100.6	1.5	7.4	22 NITAYOKOTA AND NICHINAN
1970 MAY 17	13	58	5.1	0.1	131.2	0.7	102.8	22 NITAYOKOTA AND NICHINAN
1970 MAY 17	14	7	29.9	0.3	127.1	1.3	99.0	22 NITAYOKOTA AND NICHINAN
1970 MAY 17	14	32	13.6	0.4	128.2	1.1	101.6	22 NITAYOKOTA AND NICHINAN
1970 MAY 17	17	52	58.6	0.3	132.3	1.1	102.7	22 NITAYOKOTA AND NICHINAN
1970 MAY 18	6	45	5.7	0.3	130.6	1.6	103.7	22 NITAYOKOTA AND NICHINAN
1970 MAY 18	8	28	36.5	0.5	128.1	2.4	100.1	22 NITAYOKOTA AND NICHINAN
1970 MAY 18	19	30	56.2	0.2	128.3	1.1	100.0	22 NITAYOKOTA AND NICHINAN
1970 MAY 18	20	19	17.9	0.2	129.8	1.0	100.9	22 NITAYOKOTA AND NICHINAN
1970 MAY 18	23	29	47.5	0.3	31.5	1.1	106.2	47 NEAR KUCHIJIMA
1970 MAY 19	9	23	7.0	0.1	99.5	0.9	0.0	33 NEAR KUTSUGAHARA
1970 MAY 19	9	34	27.9	0.3	101.4	1.1	81.3	22 NITAYOKOTA AND NICHINAN
1970 MAY 20	20	42	26.6	0.2	173.5	0.8	102.5	42 EASTERN PART OF HIROSHIMA
1970 MAY 20	13	40	31.2	0.4	33.4	1.4	35.7	55 NEAR HIROSHIMA
1970 MAY 21	13	25	23.2	0.3	60.9	1.0	66.1	53 NEAR HACHIHONMATSU, HIROSHIMA
1970 MAY 21	16	35	46.9	0.3	124.4	1.4	163.3	91 KAGAWA
1970 MAY 21	17	27	10.0	0.4	141.6	1.2	116.3	22 CENTRAL SHIMANE-TOTTORI BORDER
1970 MAY 22	11	1	11.5	0.2	133.0	0.5	93.7	22 NITAYOKOTA AND NICHINAN
1970 MAY 22	13	40	31.2	0.4	33.5	1.4	35.6	55 NEAR HIROSHIMA
1970 MAY 22	17	57	23.4	0.2	112.0	0.7	126.1	100 OUT OF THE MAP
1970 MAY 23	5	31	14.1	0.1	134.0	0.4	89.4	22 NITAYOKOTA AND NICHINAN
1970 MAY 24	16	25	51.4	0.1	112.0	0.2	86.0	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 MAY 24	6	27	12.9	0.5	158.7	3.3	100.0	22 NITAYOKOTA AND NICHINAN
1970 MAY 24	10	46	23.9	0.3	132.8	0.8	107.7	20 CENTRAL SHIMANE-TOTTORI BORDER
1970 MAY 24	22	15	35.9	0.5	132.8	0.3	101.5	53 NEAR HACHIHONMATSU, HIROSHIMA
1970 MAY 25	10	48	25.6	0.3	124.4	2.6	98.3	22 NITAYOKOTA AND NICHINAN
1970 MAY 26	9	43	14.2	0.1	105.7	1.0	43.9	55 NEAR HIROSHIMA
1970 MAY 27	8	32	11.1	0.1	105.9	0.3	76.4	33 NEAR KUTSUGAHARA
1970 MAY 28	1	27	31.6	0.6	151.0	2.2	72.0	33 NEAR KUTSUGAHARA
1970 MAY 28	8	20	10.3	0.4	132.8	1.4	102.0	20 CENTRAL SHIMANE-TOTTORI BORDER
1970 MAY 28	10	18	8.0	0.6	133.6	2.0	102.3	22 NITAYOKOTA AND NICHINAN
1970 MAY 28	11	19	56.0	0.4	48.7	2.0	43.0	55 NEAR HIROSHIMA
1970 MAY 28	13	34	46.1	0.1	55.4	0.6	130.4	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1970 MAY 28	13	9	0.6	0.1	84.2	0.2	94.4	42 EASTERN PART OF HIROSHIMA
1970 MAY 28	16	3	8.3	0.3	131.9	1.3	74.0	7 NEAR KAREYA, SHIMANE
1970 MAY 28	23	39	41.1	0.2	96.3	0.7	10.9	10 WESTERN PART OF SHIMANE
1970 MAY 28	23	40	55.1	0.2	42.6	0.9	42.1	55 NEAR HIROSHIMA
1970 MAY 29	6	58	20.0	0.3	136.3	0.8	118.3	20 CENTRAL SHIMANE-TOTTORI BORDER
1970 MAY 29	8	24	56.8	0.1	137.6	0.8	116.8	20 CENTRAL SHIMANE-TOTTORI BORDER
1970 JUN 1	16	1	2.0	0.6	87.6	1.1	74.5	50 CENTRAL PART OF HIROSHIMA
1970 JUN 1	17	8	36.6	0.2	108.7	1.1	69.6	33 NEAR KUTSUGAHARA
1970 JUN 1	22	43	52.2	0.1	105.6	0.7	79.4	33 NEAR KUTSUGAHARA
1970 JUN 2	9	2	34.0	0.1	105.4	0.3	76.3	33 NEAR KUTSUGAHARA
1970 JUN 2	10	54	5.9	0.2	106.6	0.4	74.8	33 NEAR KUTSUGAHARA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)	S	MAG	REGION
	H M S	+/-	+/-	+/-			
1970 JUN 2	10 56 38.2	0.2	106.7	1.8	0.10	1.1	33 NEAR KUTSUGAHARA
1970 JUN 2	13 20 0.3	0.2	107.5	0.6	0.17	3.1 B	33 NEAR KUTSUGAHARA
1970 JUN 2	13 26 24.2	0.1	104.5	0.5	0.18	1.0	33 NEAR KUTSUGAHARA
1970 JUN 2	14 25 28.0	0.1	104.5	0.5	0.17	1.6	33 NEAR KUTSUGAHARA
1970 JUN 2	14 37 14.3	0.1	106.0	0.2	0.07	1.0	33 NEAR KUTSUGAHARA
1970 JUN 2	14 38 35.6	0.1	105.8	0.4	0.16	1.4	33 NEAR KUTSUGAHARA
1970 JUN 2	15 0 33.4	0.1	106.0	0.3	0.10	1.3	33 NEAR KUTSUGAHARA
1970 JUN 2	16 58 8.1	0.1	106.3	0.3	0.10	1.5	33 NEAR KUTSUGAHARA
1970 JUN 3	19 9 29.3	0.0	88.9	0.1	0.01	1.0	65 WESTERN PART OF HIROSHIMA
1970 JUN 4	1 45 36.6	0.1	106.3	0.5	0.04	1.1	33 NEAR KUTSUGAHARA
1970 JUN 4	23 33 21.1	0.3	131.7	1.3	0.29	1.6	7 NEAR KAKEYA, SHIMANE
1970 JUN 4	9 56 5.2	0.4	94.4	1.2	0.12	1.3	33 NEAR KUTSUGAHARA
1970 JUN 5	14 57 36.4	0.3	50.2	1.2	0.32	1.3	10 WESTERN PART OF SHIMANE
1970 JUN 6	14 52 21.0	0.2	35.4	0.7	0.24	0.9	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1970 JUN 6	14 21 52.2	0.2	30.7	1.4	0.11	2.1	55 NEAR HIROSHIMA
1970 JUN 6	18 36 58.1	0.1	107.1	0.5	0.16	1.2	100 OUT OF THE MAP
1970 JUN 8	10 32 19.8	0.2	133.9	0.7	0.25	1.1	33 NEAR KUTSUGAHARA
1970 JUN 9	16 12 14.5	0.4	26.6	2.1	0.02	1.9	32 NEAR AKAGI, SHIMANE
1970 JUN 9	20 13 25.1	0.0	104.5	0.2	0.26	0.8	42 EASTERN PART OF HIROSHIMA
1970 JUN 11	9 39 13.5	0.3	107.7	1.2	0.19	1.4 F	47 NEAR KUTSUGAHARA
1970 JUN 11	18 35 27.7	0.1	30.0	0.6	0.45	2.3 B	33 NEAR KUTSUGAHARA
1970 JUN 11	18 35 27.7	0.1	30.0	0.6	0.00	1.0	47 NEAR KUTSUGAHARA
1970 JUN 12	15 13 26.1	0.0	32.8	0.0	0.00	1.2	47 NEAR KUTSUGAHARA
1970 JUN 13	12 20 38.9	0.3	112.4	2.2	0.16	1.5	32 NEAR AKAGI, SHIMANE
1970 JUN 13	12 20 38.9	0.3	117.6	0.3	0.10	1.5	85 NEAR ASHIDACHI, OKAYAMA
1970 JUN 14	12 58 58.9	0.1	108.4	0.4	0.17	1.1	33 NEAR KUTSUGAHARA
1970 JUN 14	12 58 58.9	0.1	113.6	0.6	0.18	1.1	32 NEAR AKAGI, SHIMANE
1970 JUN 14	15 37 27.3	0.2	118.2	2.9	0.23	0.5	31 CENTRAL PART OF TAKANO, HIROSHIMA
1970 JUN 15	21 32 24.2	0.4	85.0	0.0	0.32	1.1	47 NEAR KUTSUGAHARA
1970 JUN 17	11 10 22.6	0.4	80.7	1.0	0.40	1.9	80 SOUTHERN HIROSHIMA-OKAYAMA BORDER
1970 JUN 18	1 15 59.9	0.3	111.4	0.9	0.27	0.9	33 NEAR KUTSUGAHARA
1970 JUN 19	4 58 50.9	0.2	105.5	0.8	0.19	3.4 B	95 EHIME
1970 JUN 20	4 0 42.5	0.3	105.5	0.8	0.17	2.6 B	22 NITA, YOKOTA AND NICHINAN
1970 JUN 20	16 17 14.5	0.1	132.3	0.5	0.17	1.6	33 NEAR KUTSUGAHARA
1970 JUN 21	13 58 2.3	0.1	105.0	0.3	0.09	0.9	33 NEAR KUTSUGAHARA
1970 JUN 22	7 54 2.6	0.1	106.5	0.2	0.20	1.5	85 NEAR ASHIDACHI, OKAYAMA
1970 JUN 22	12 26 59.8	0.4	117.5	0.7	0.19	1.9	7 NEAR KAKEYA, SHIMANE
1970 JUN 22	12 50 57.4	0.2	138.8	0.9	0.36	1.2	30 NEAR KAKEYA, SHIMANE
1970 JUN 22	13 4 16.5	0.2	120.6	1.2	0.25	1.2	7 NEAR KAKEYA, SHIMANE
1970 JUN 22	14 57 1.0	0.4	138.9	1.5	0.35	2.2	44 NEAR KAKEYA, SHIMANE
1970 JUN 23	8 14 59.9	0.3	144.8	1.5	0.20	1.2	44 NEAR KAKEYA, SHIMANE
1970 JUN 23	9 57 40.7	0.3	57.8	0.9	0.25	1.2	22 NITA, YOKOTA AND NICHINAN
1970 JUN 23	16 0 44.4	0.1	134.4	1.0	0.25	1.2	22 NITA, YOKOTA AND NICHINAN
1970 JUN 23	16 17 18.6	0.5	124.7	1.8	0.46	2.0	30 NEAR KUTSUGAHARA
1970 JUN 25	13 46 10.2	0.1	107.9	0.3	0.12	1.5	33 NEAR KUTSUGAHARA
1970 JUN 25	15 6 35.6	0.6	113.2	1.3	0.18	1.4	25 NEAR EROSHI-YAMA
1970 JUN 25	15 6 58.6	0.2	113.5	0.4	0.20	2.3 B	33 NEAR KUTSUGAHARA
1970 JUN 26	21 18 16.1	0.2	105.9	1.0	0.15	1.3	33 NEAR KUTSUGAHARA
1970 JUN 26	21 53 31.6	0.5	55.4	2.1	0.55	2.2 B	53 NEAR HACHIMONMATSU, HIROSHIMA
1970 JUN 26	21 53 31.6	0.5	76.1	1.7	0.55	2.2 B	53 NEAR HACHIMONMATSU, HIROSHIMA

EARTHQUAKE ORIGINS DETERMINED BY SHIRAKI MICRO-EARTHQUAKE OBSERVATORY

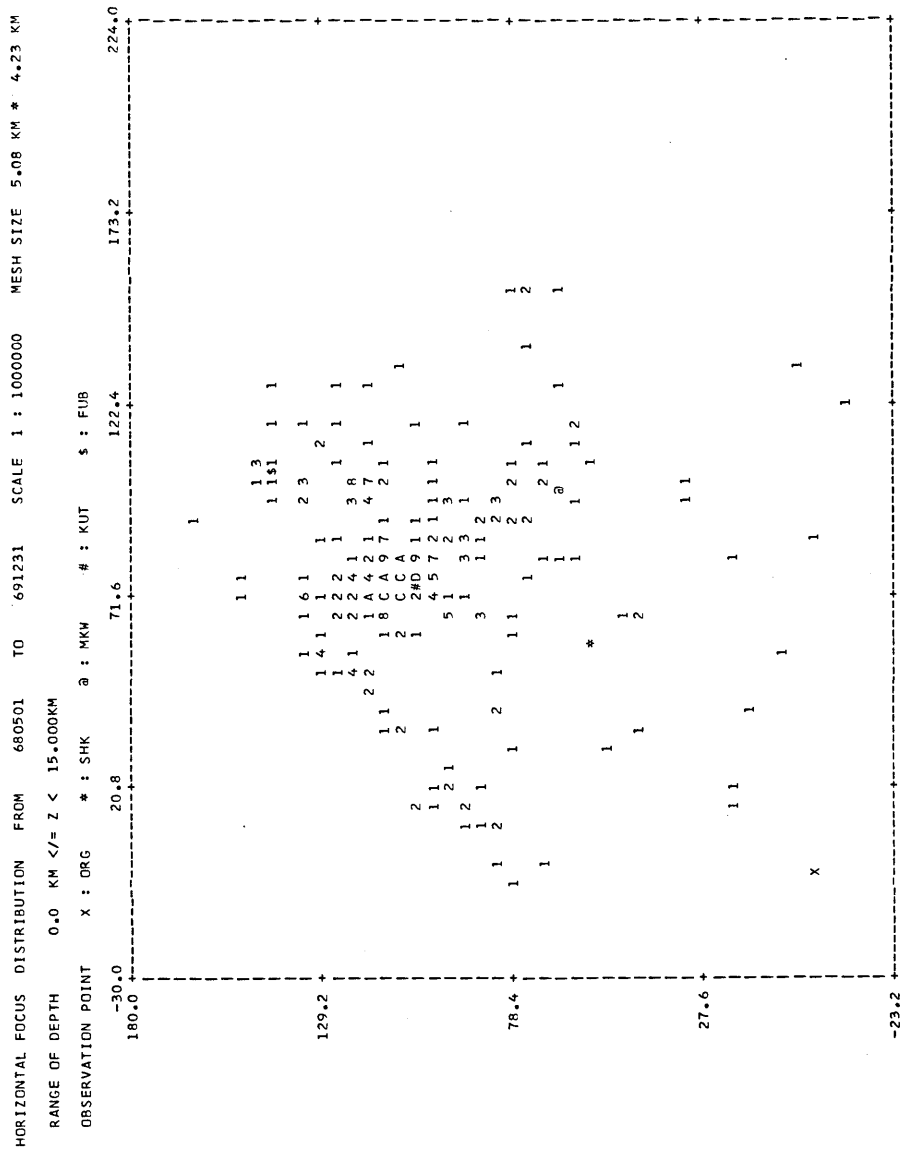
DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)		S	MAG	REGION
	H	M	S			+/-	+/-			
1970 JUN 26	23	17	54.6	59.8	150.6	21.5	5.8	0.32	2.1	81 NEAR YAKAKE, OKAYAMA
1970 JUN 27	5	54	8.5	29.8	107.7	11.2	2.6	0.14	1.8	47 NEAR IKUCHIJIMA
1970 JUN 28	4	23	7.0	105.7	76.7	0.1	R	0.08	1.5	33 NEAR KUTSUGAHARA
1970 JUN 29	12	14	4.8	105.5	77.6	5.5	0.8	0.13	1.5	33 NEAR KUTSUGAHARA

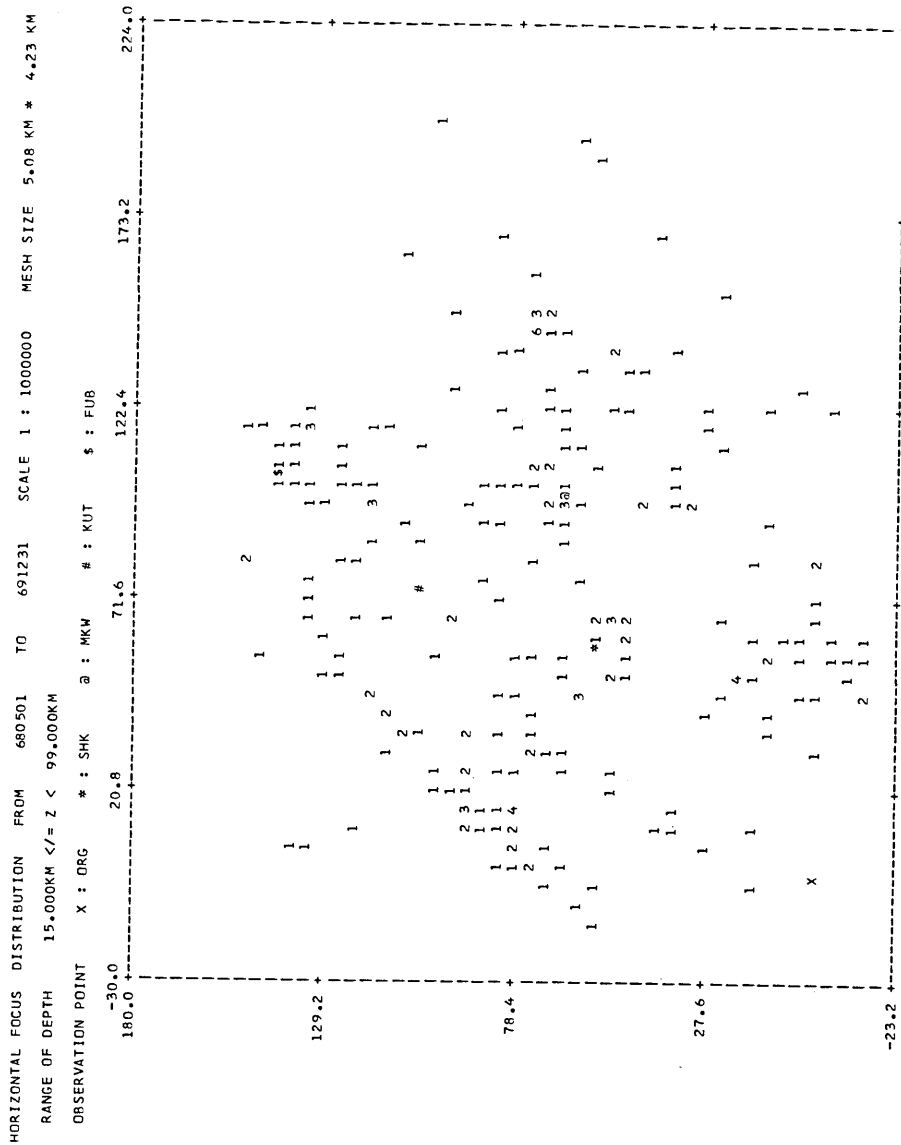
Fig. 5 (pp. 71-102). Focus and energy distributions. Earthquake frequency in every mesh is indicated by the numeral for less than ten and by the following symbols for more than ten.

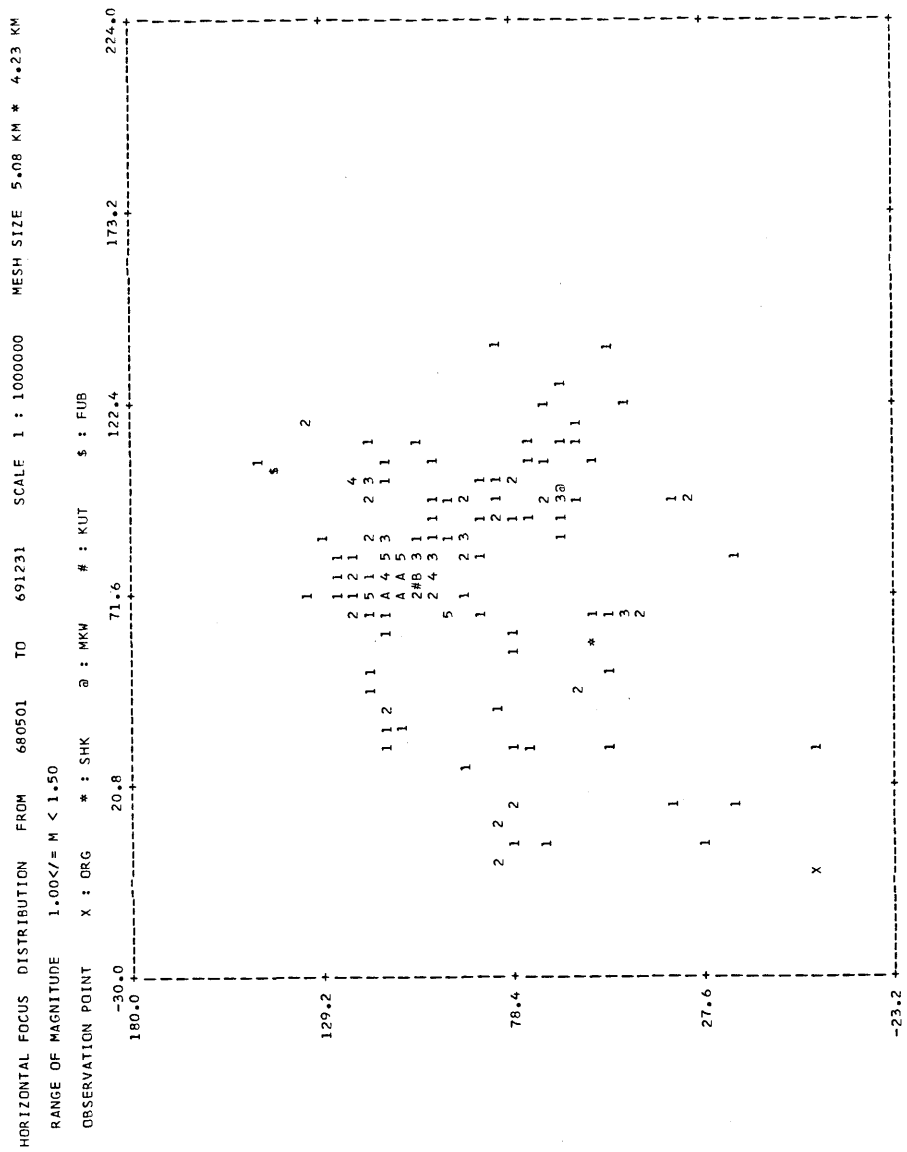
A : 10-14, B : 15-19, C : 20-29, D : 30-49, E : 50-99, F : 100-.

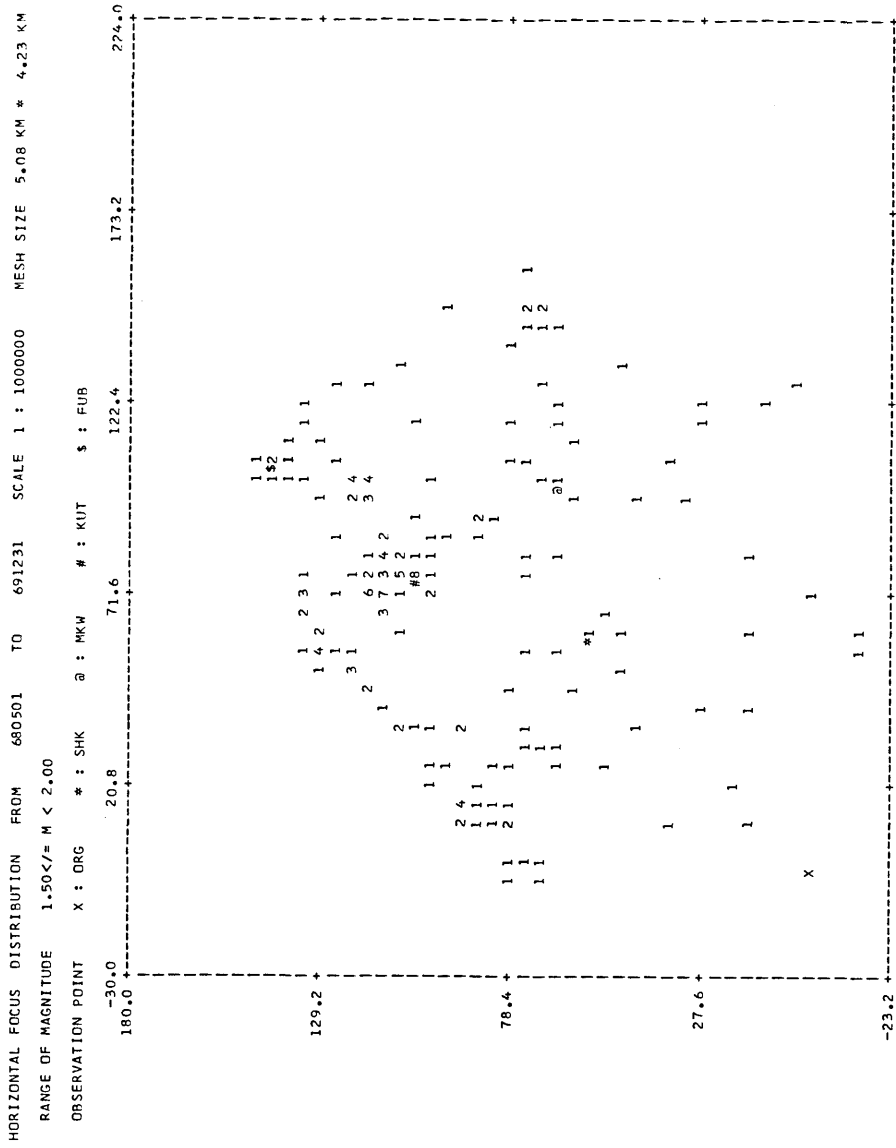
Energy release (10^x erg) in every mesh is indicated as follows:

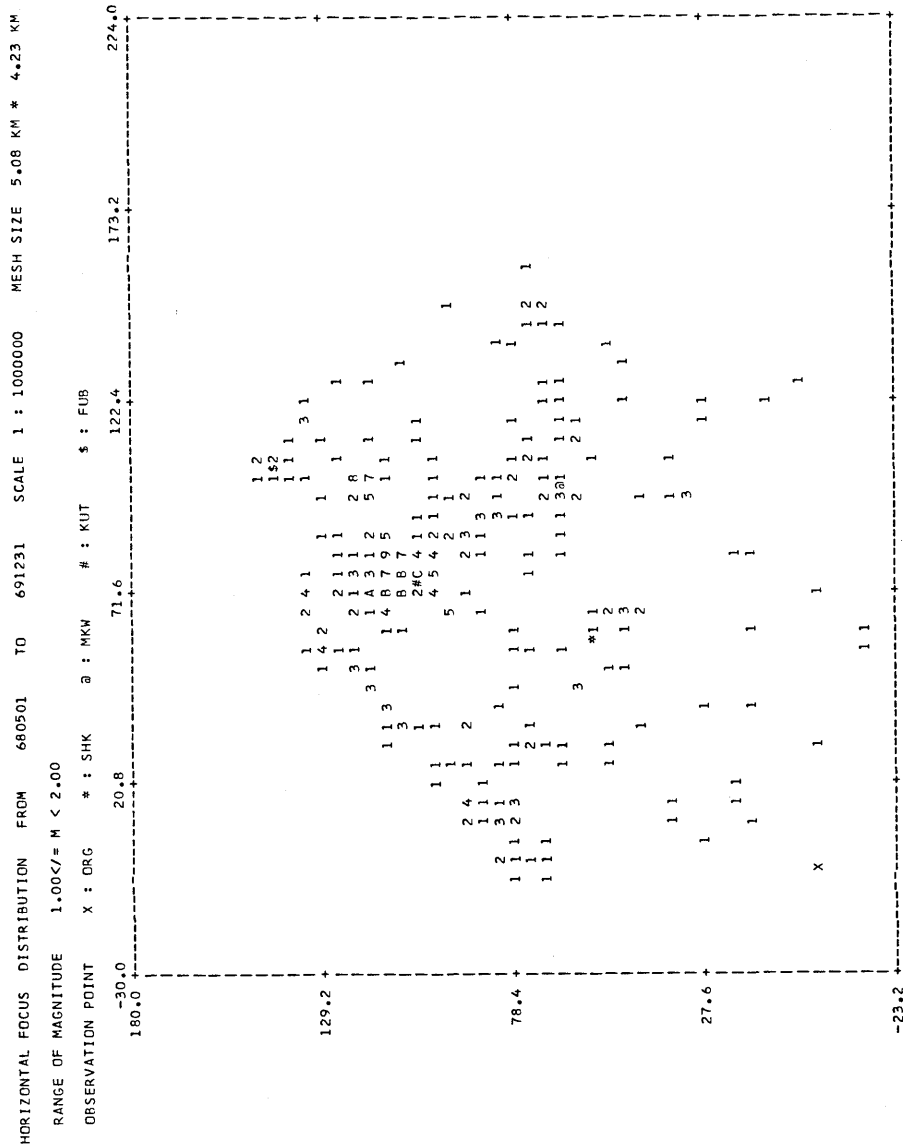
x	x	x
1 : 13.0-13.4,	6 : 15.5-15.9,	A : 17.5-17.9,
2 : 13.5-13.9,	7 : 16.0-16.4,	B : 18.0-18.4,
3 : 14.0-14.4,	8 : 16.5-16.9,	C : 18.5-18.9,
4 : 14.5-14.9,	9 : 17.0-17.4,	D : 19.0-19.4,
5 : 15.0-15.4,		E : 19.5-19.9.

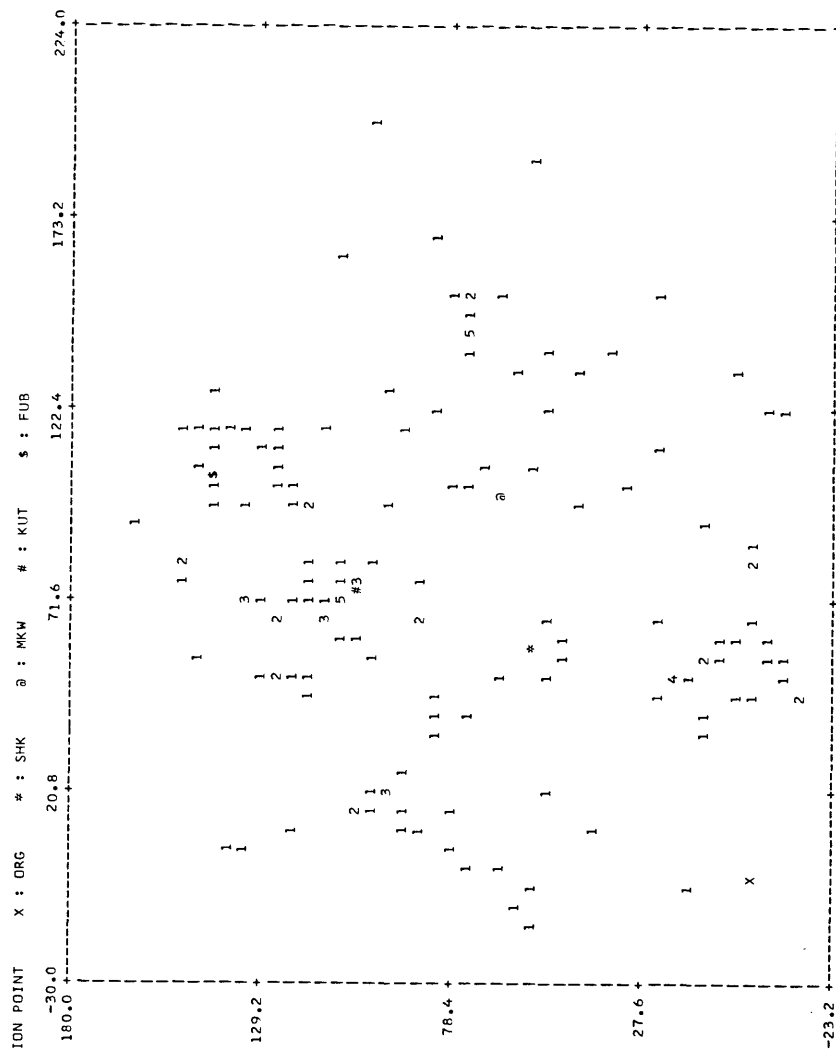


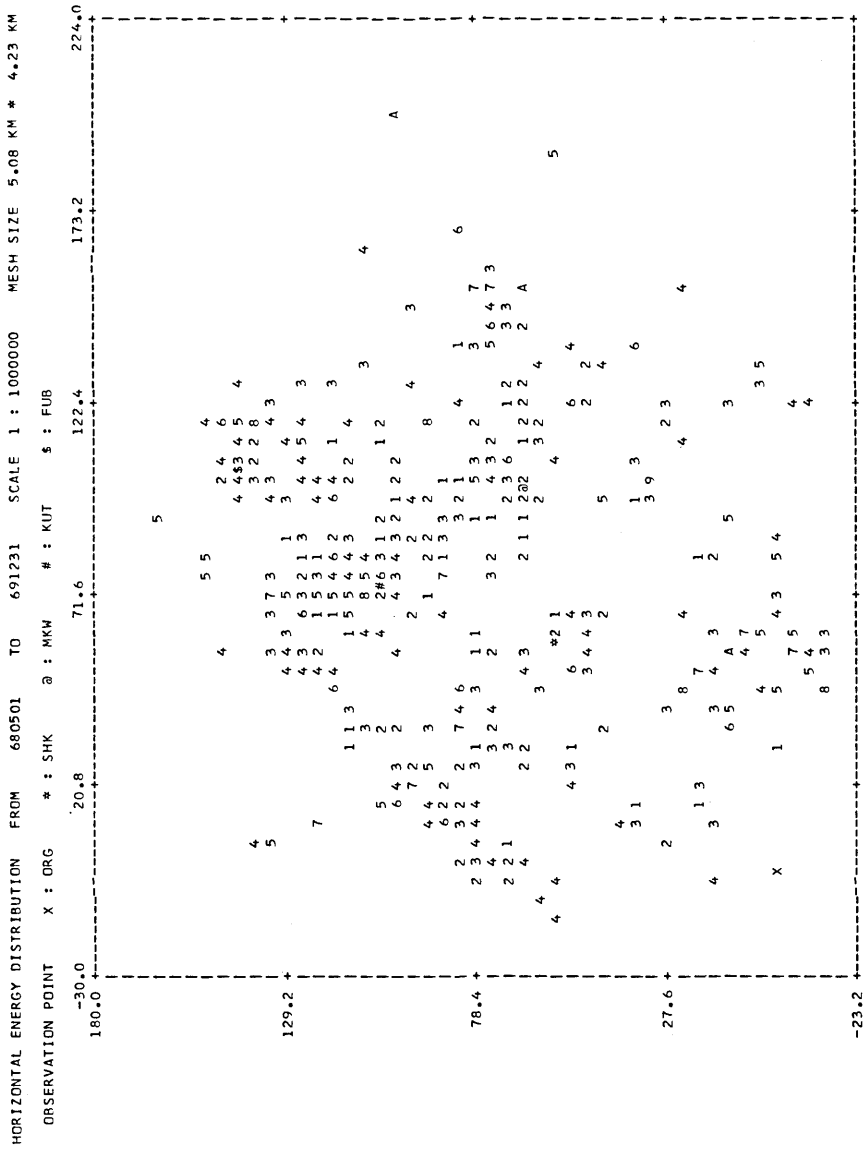


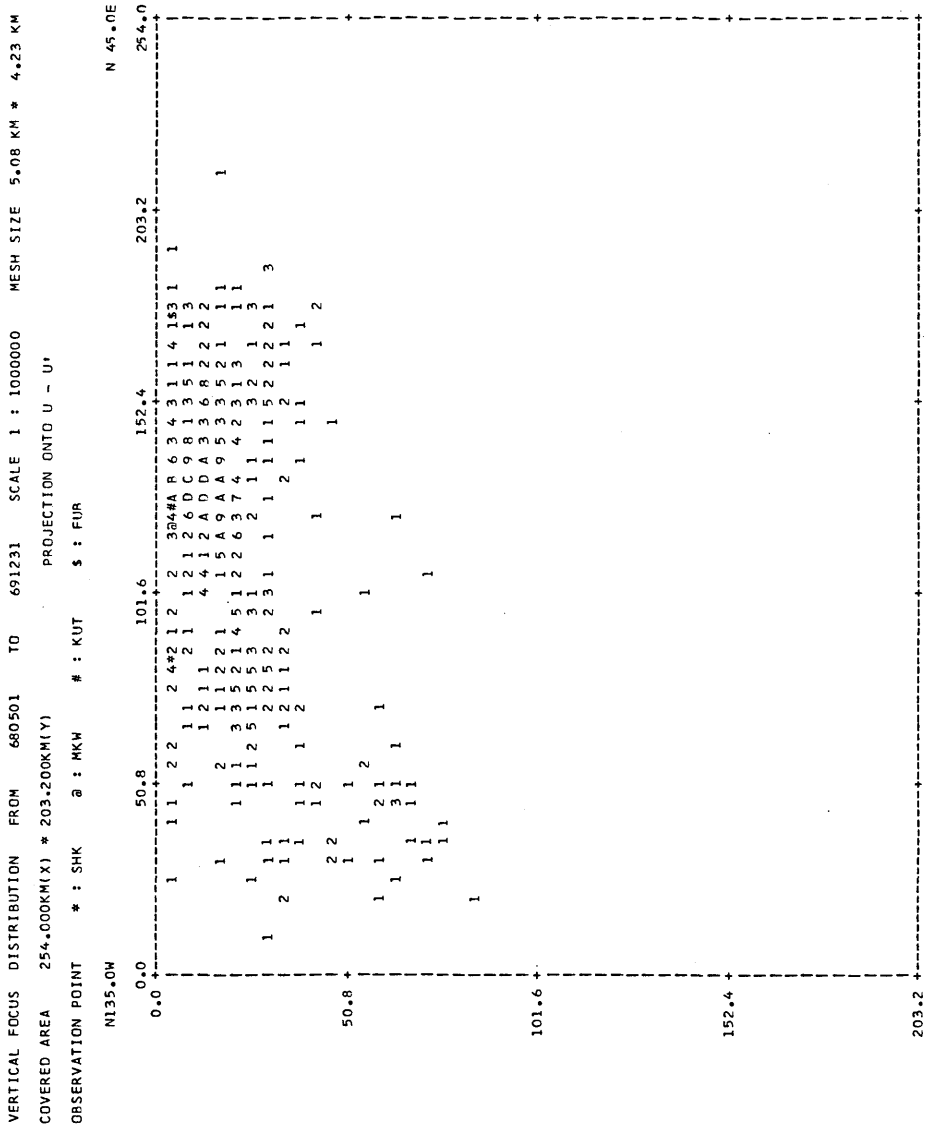




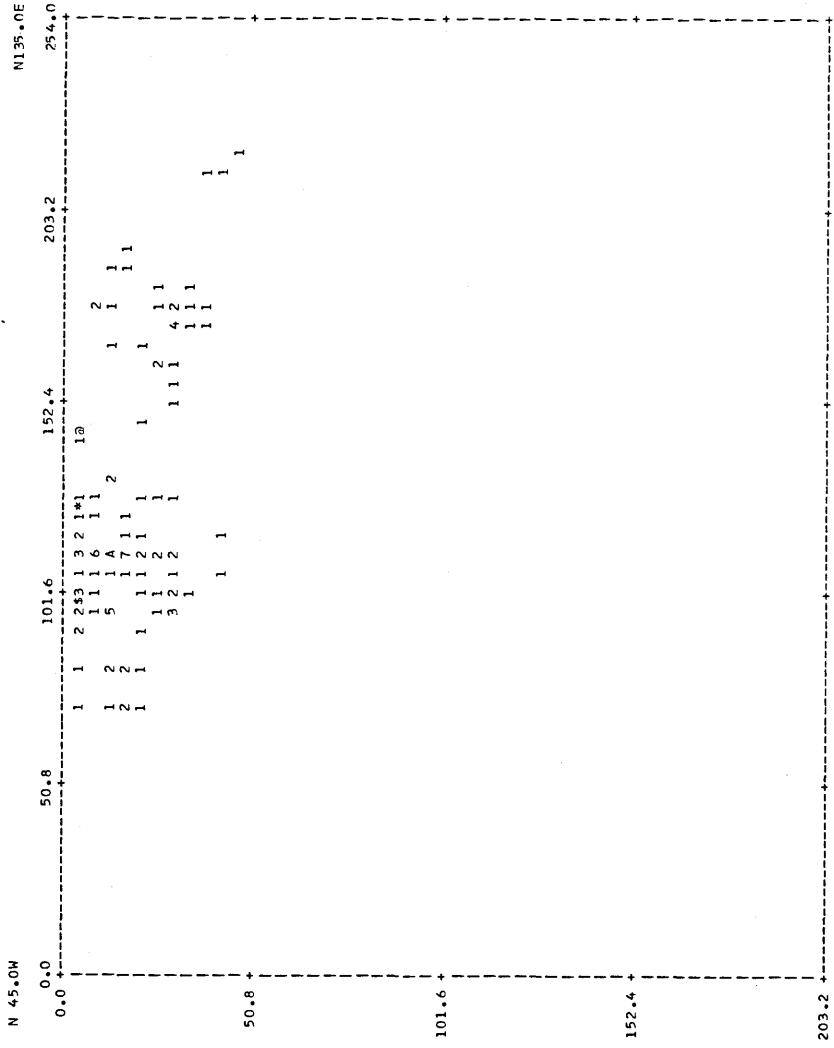


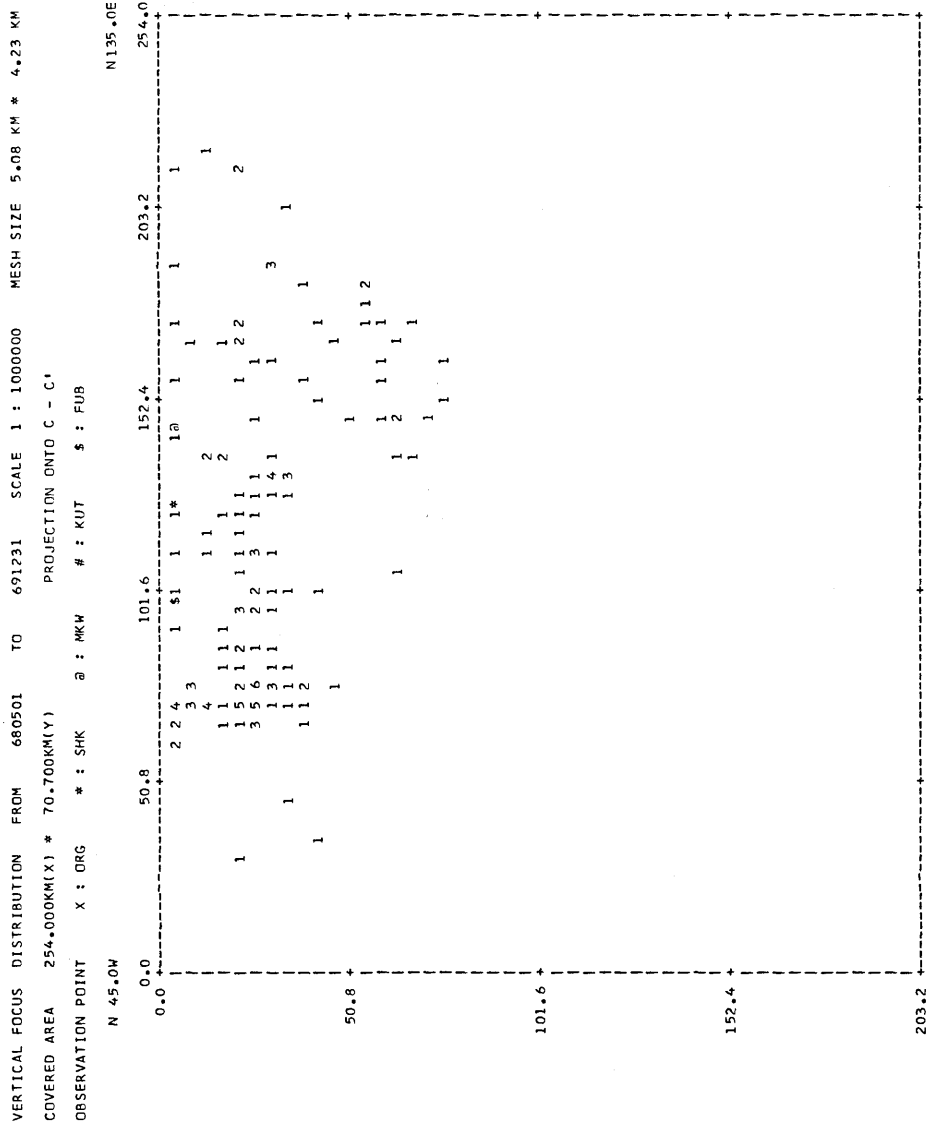


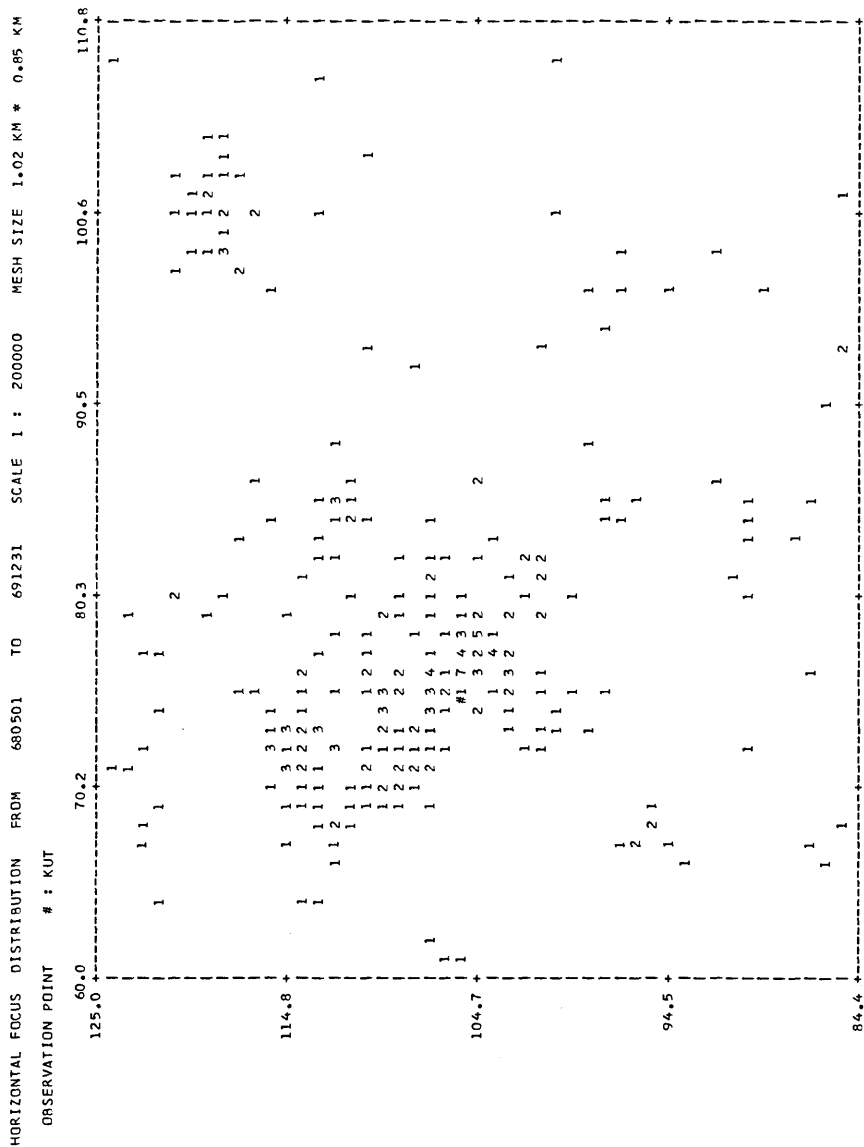




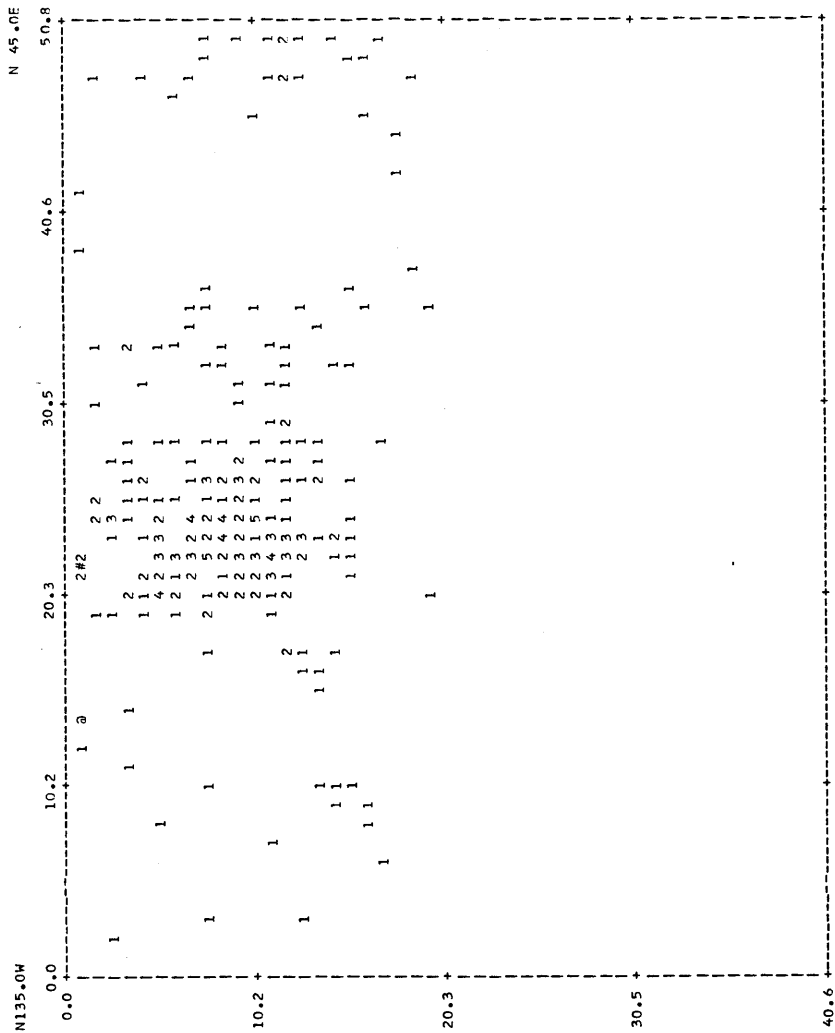
VERTICAL FOCUS DISTRIBUTION FROM 680501 TO 691231 SCALE 1 : 1000000 MESH SIZE 5.08 KM * 4.23 KM
 COVERED AREA 254.000KM(X) * 70.700KM(Y) PROJECTION ONTO A - A'
 OBSERVATION POINT X : ORG * : SHK @ : MKW # : KUT \$: FUB

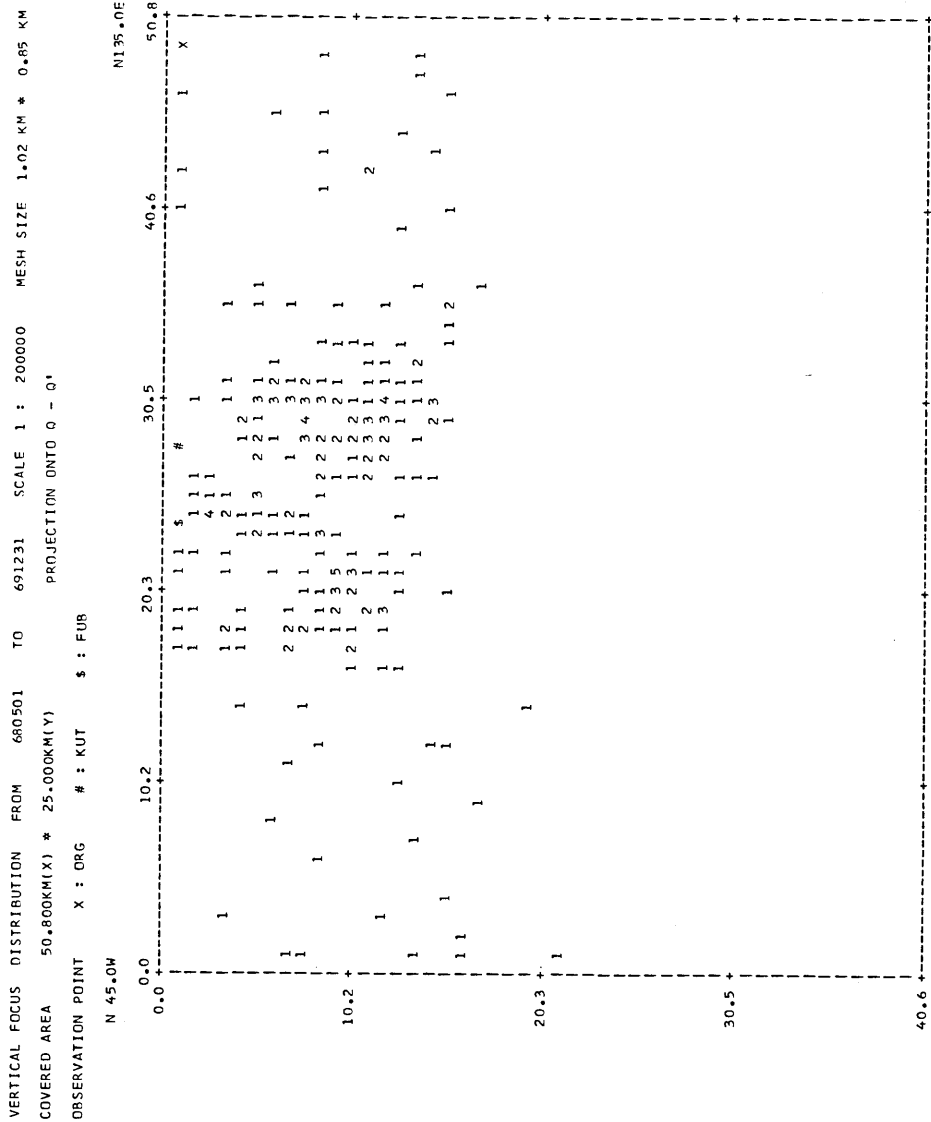


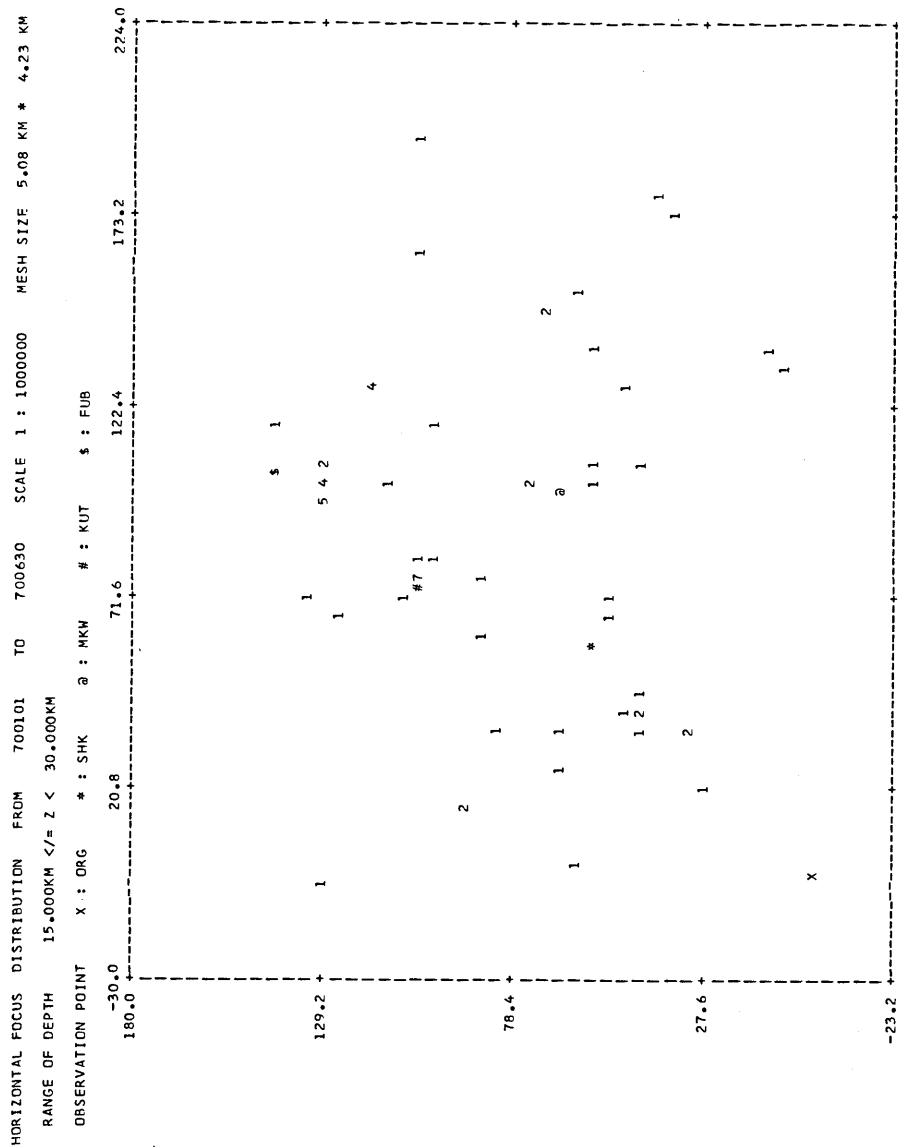


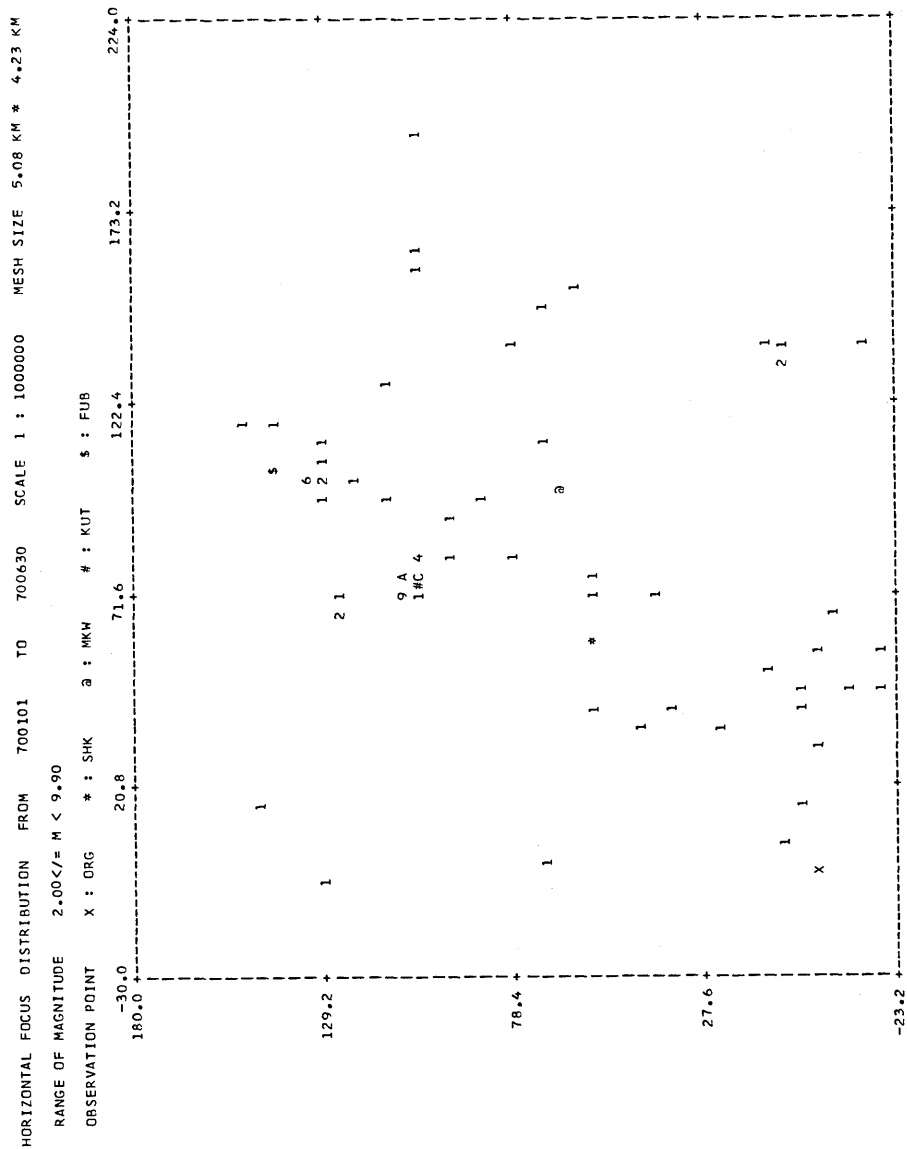


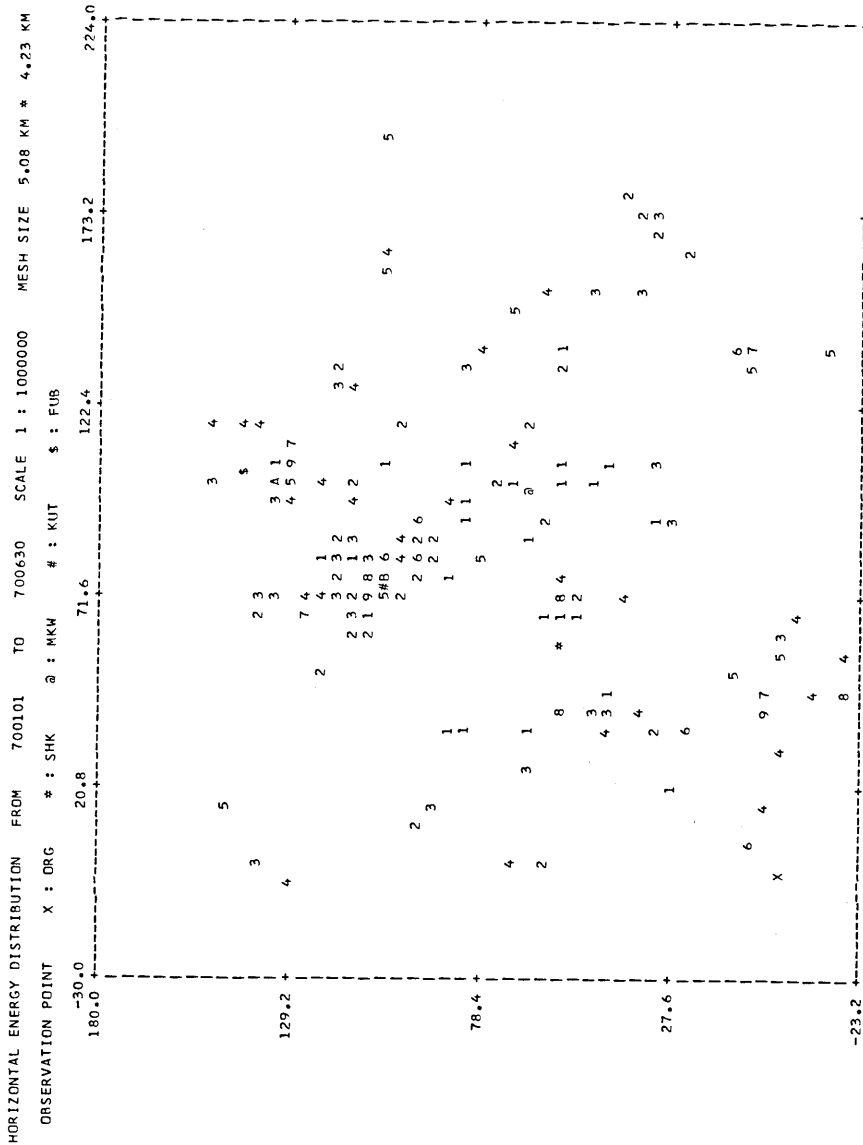
VERTICAL FOCUS DISTRIBUTION FROM 680501 TO 691231 SCALE 1 : 200000 MESH SIZE 1.02 KM * 0.05 KM
 COVERED AREA 50.800KM(X) * 25.000KM(Y) PROJECTION ONTO P - P'
 OBSERVATION POINT a : MKW # : KUT

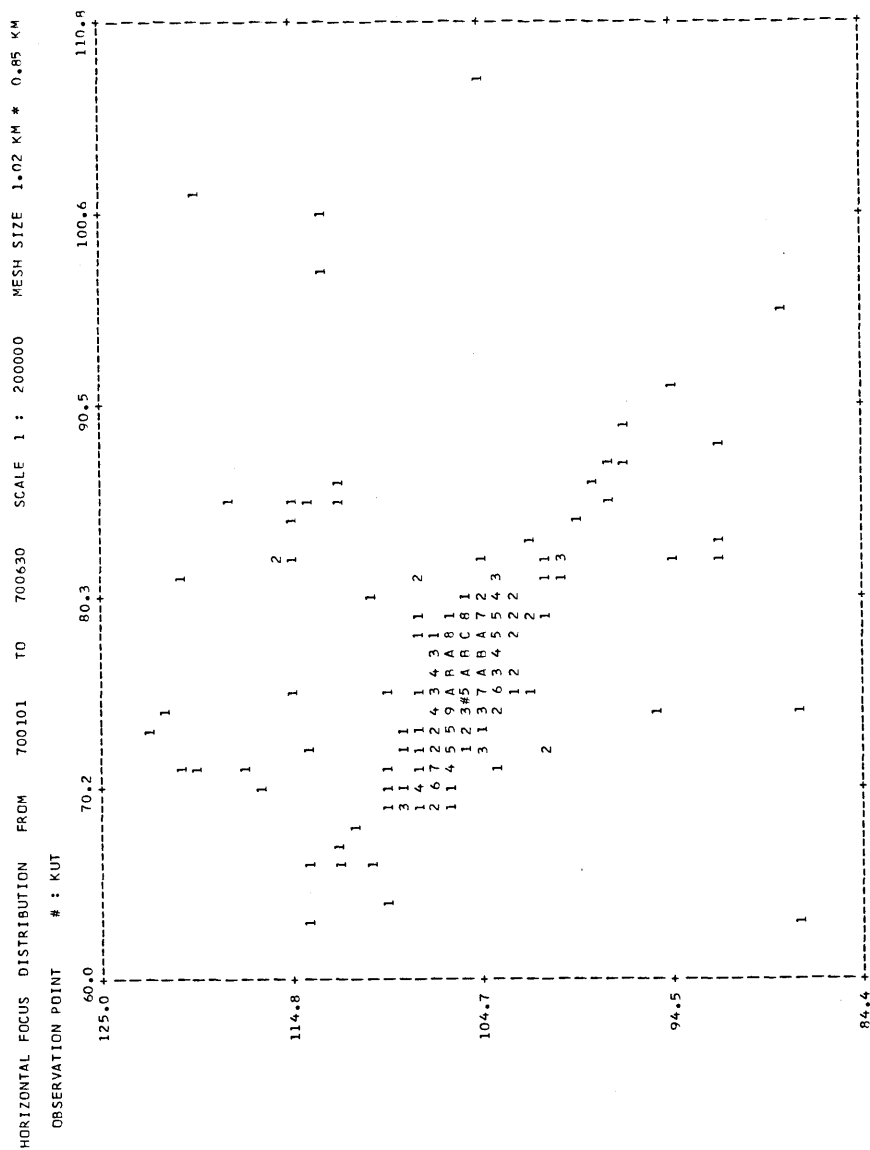


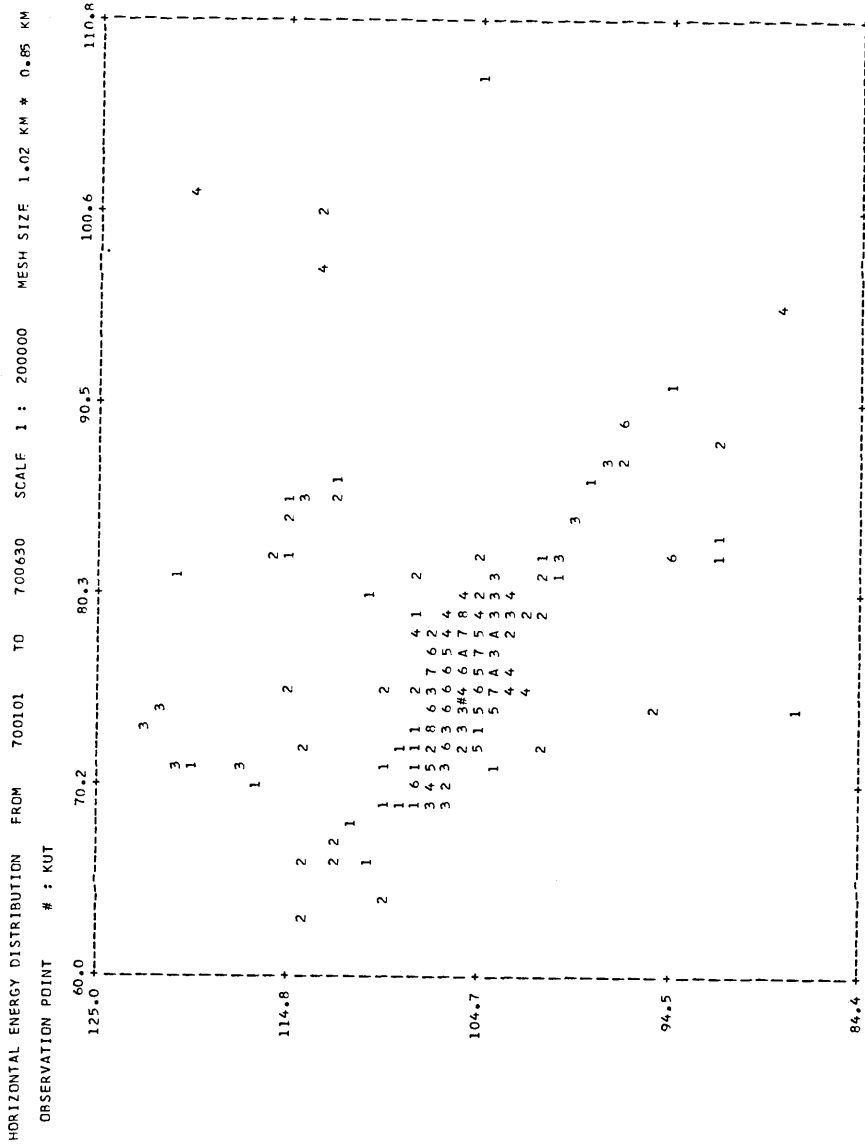


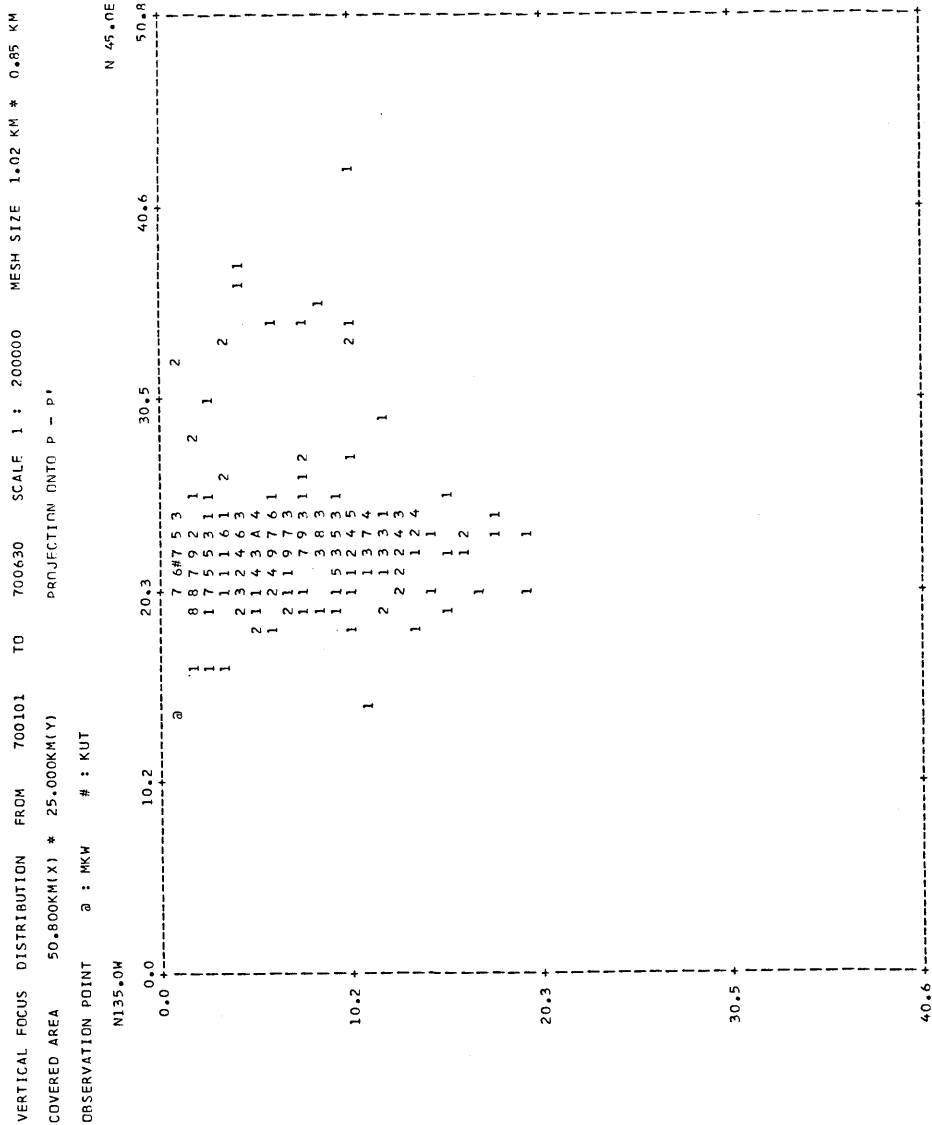




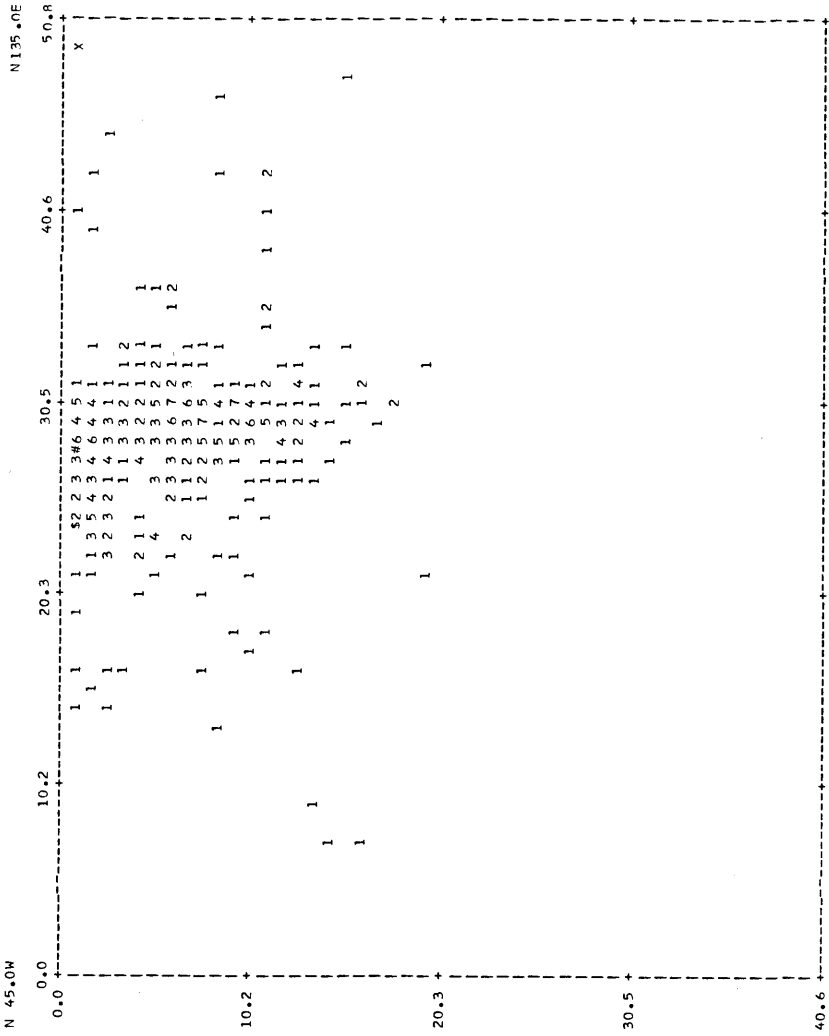


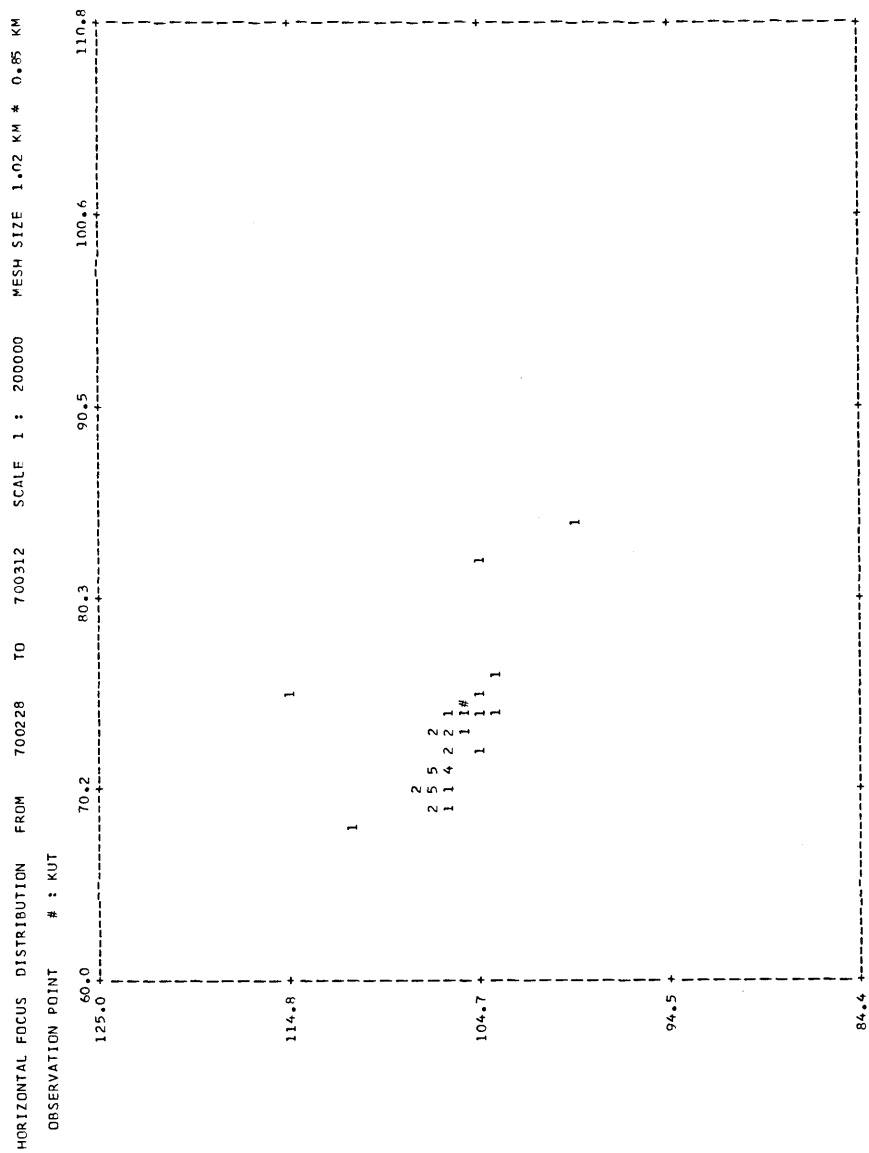


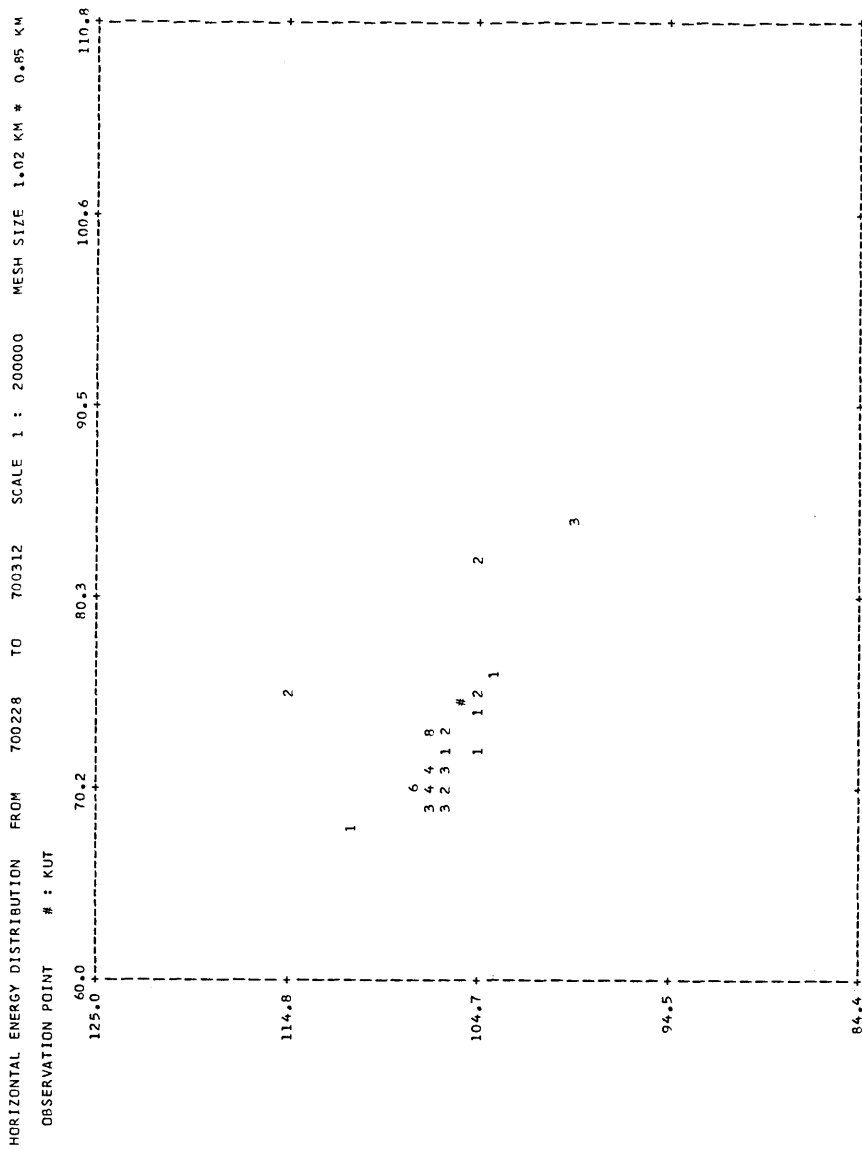


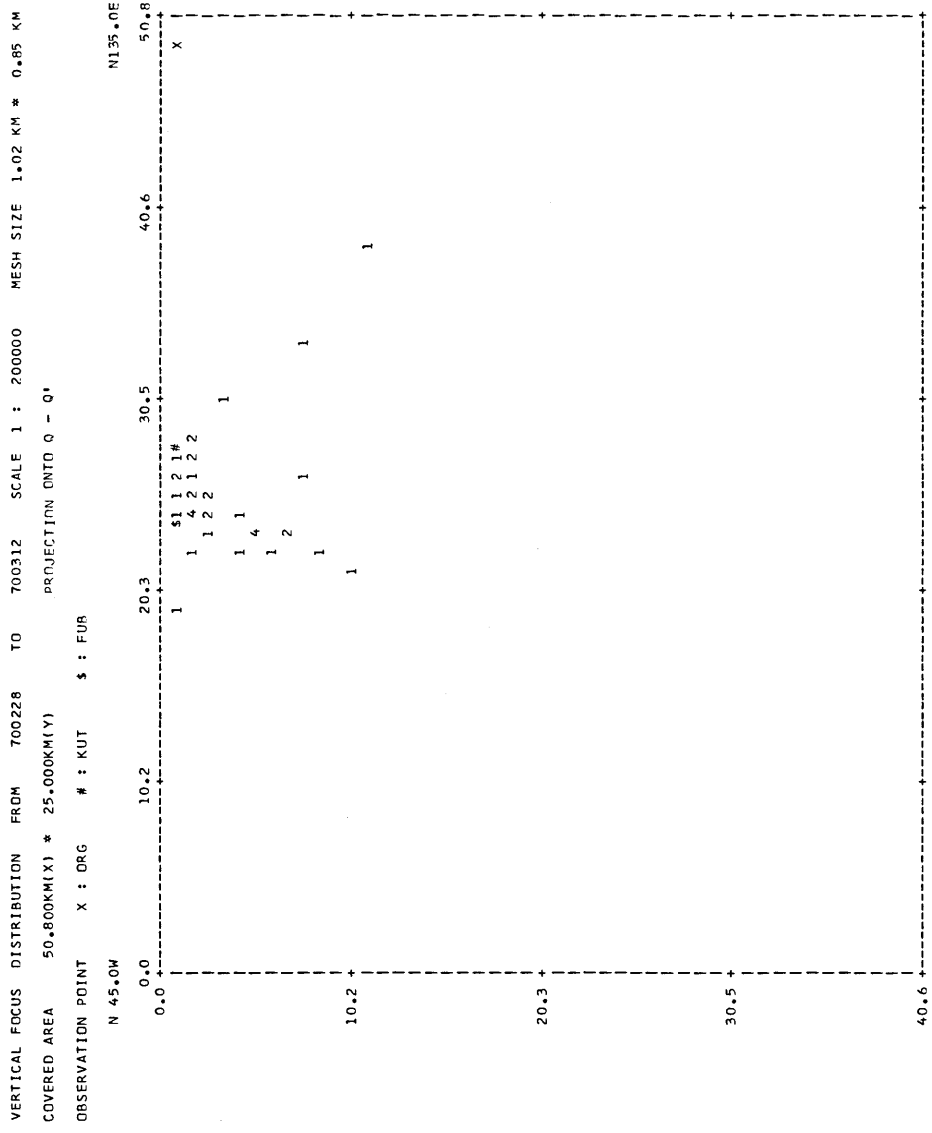


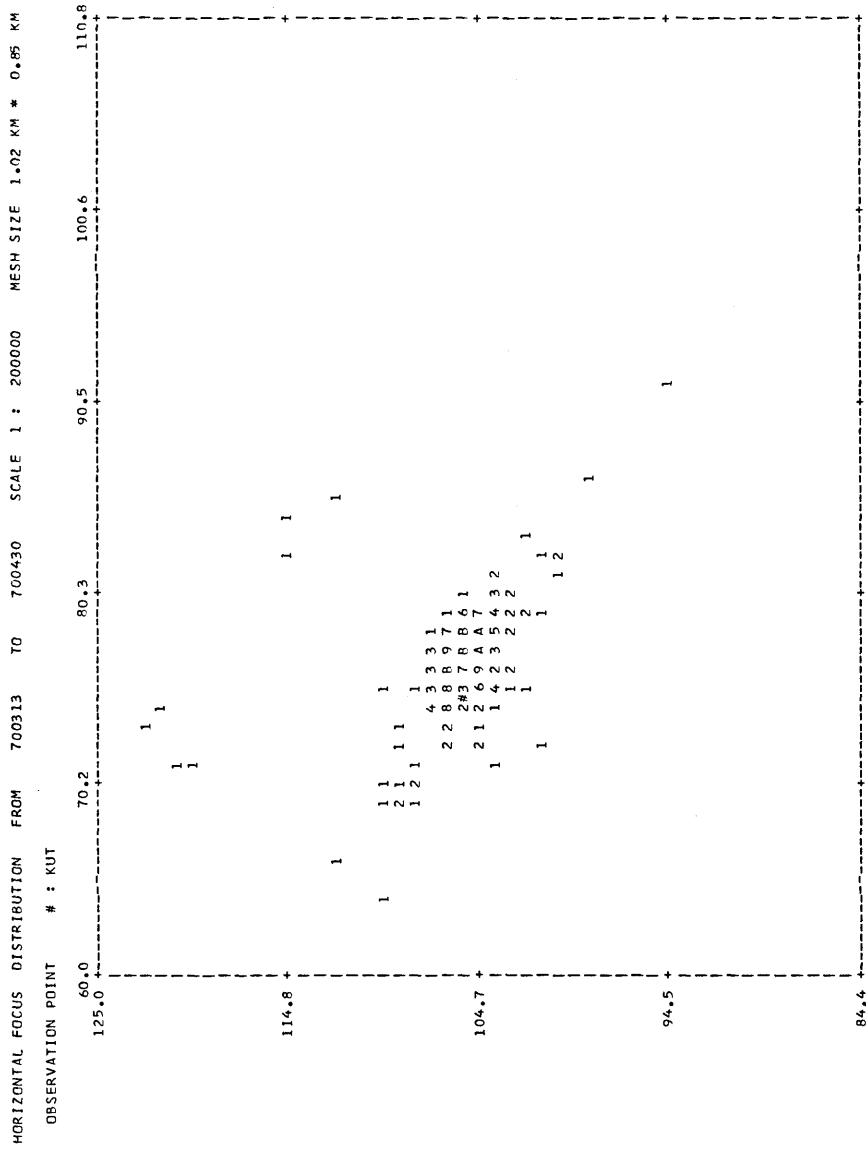
VERTICAL FOCUS DISTRIBUTION FROM 700101 TO 700630 SCALE 1 : 200000 MESH SIZE 1.02 KM * 0.95 KM
 COVERED AREA 50.600KM(X) * 25.000KM(Y)
 PROJECTION ONTO Q - Q'
 OBSERVATION POINT X : ORG # : KUT \$: FUR
 N 45.0W

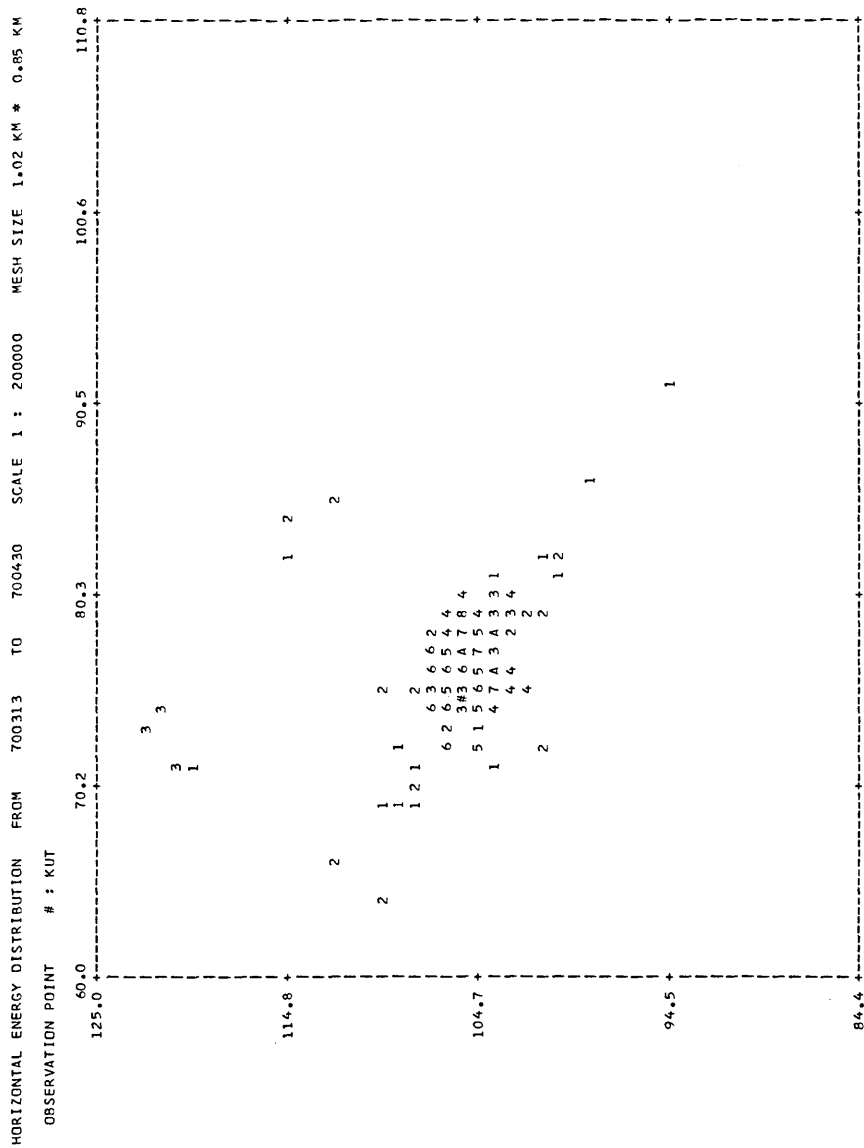


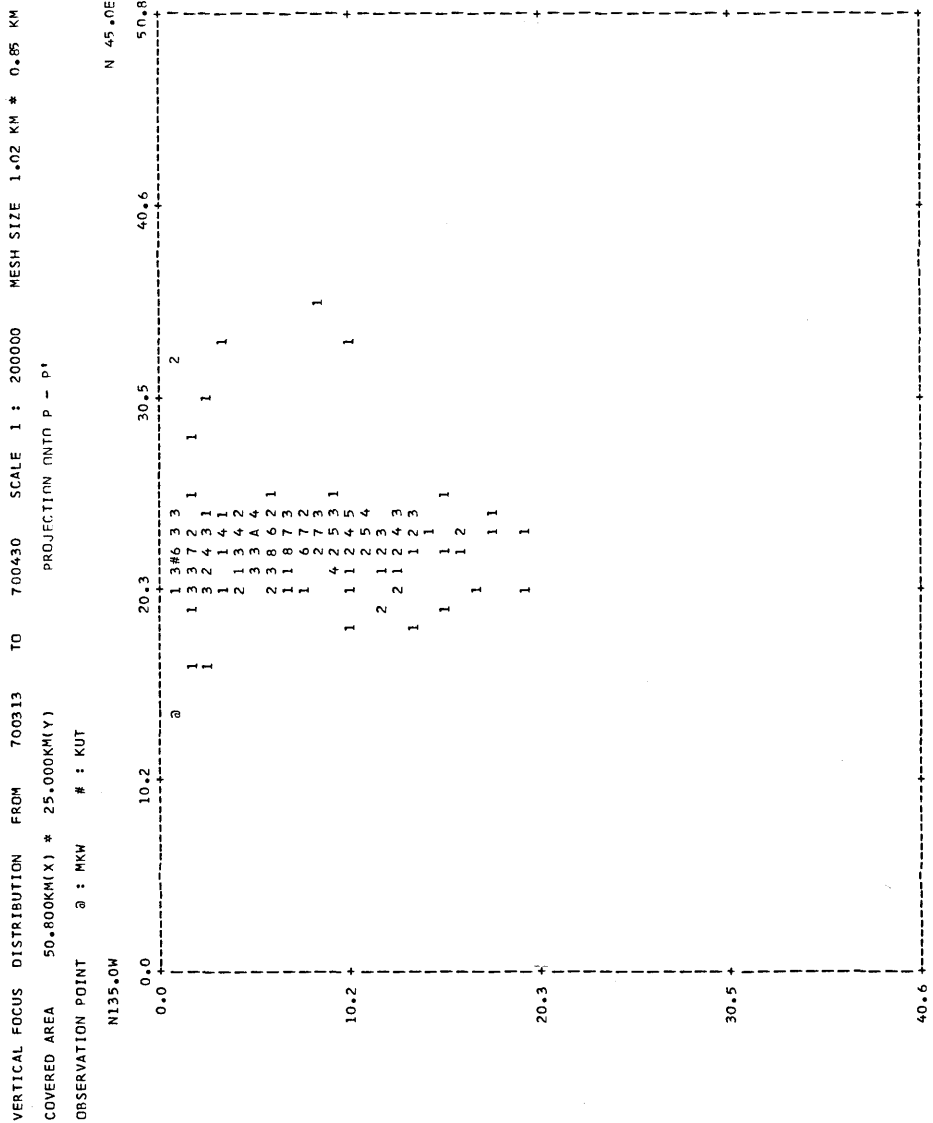


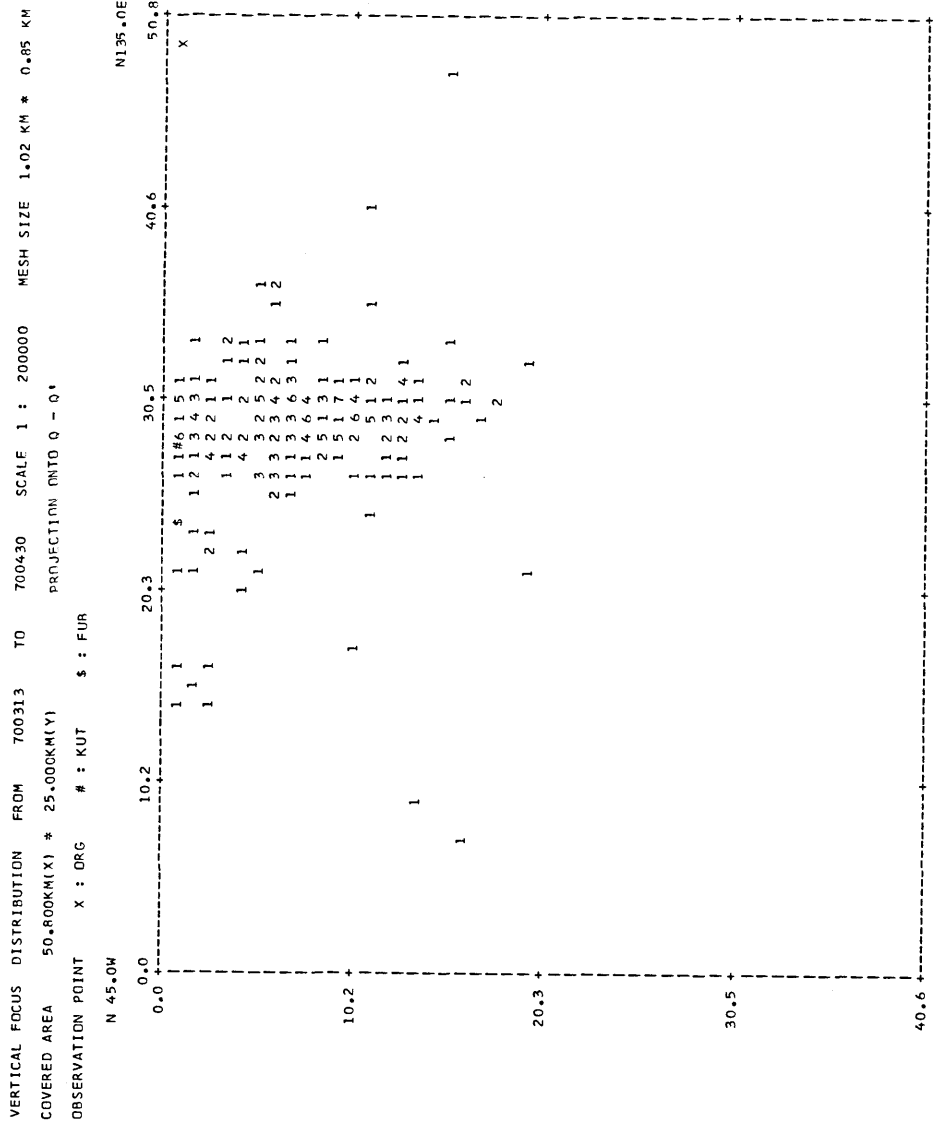


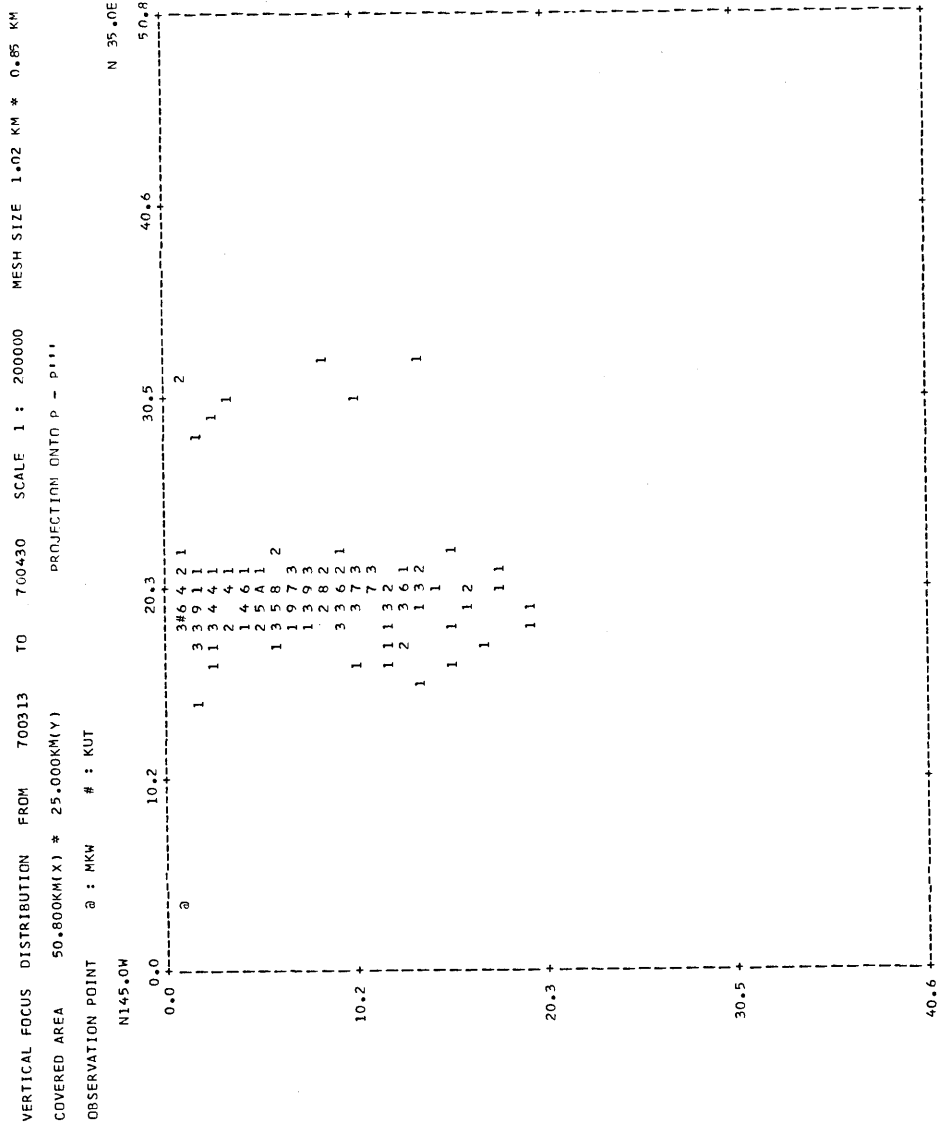












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VERTICAL FOCUS DISTRIBUTION FROM 700313 TO 700430 SCALE 1 : 200000 MESH SIZE 1.02 KM * 0.85 KM
COVERED AREA 50.800KM(X) * 25.000KM(Y) PROJECTION ONTO P - P1111
OBSERVATION POINT # : KUT

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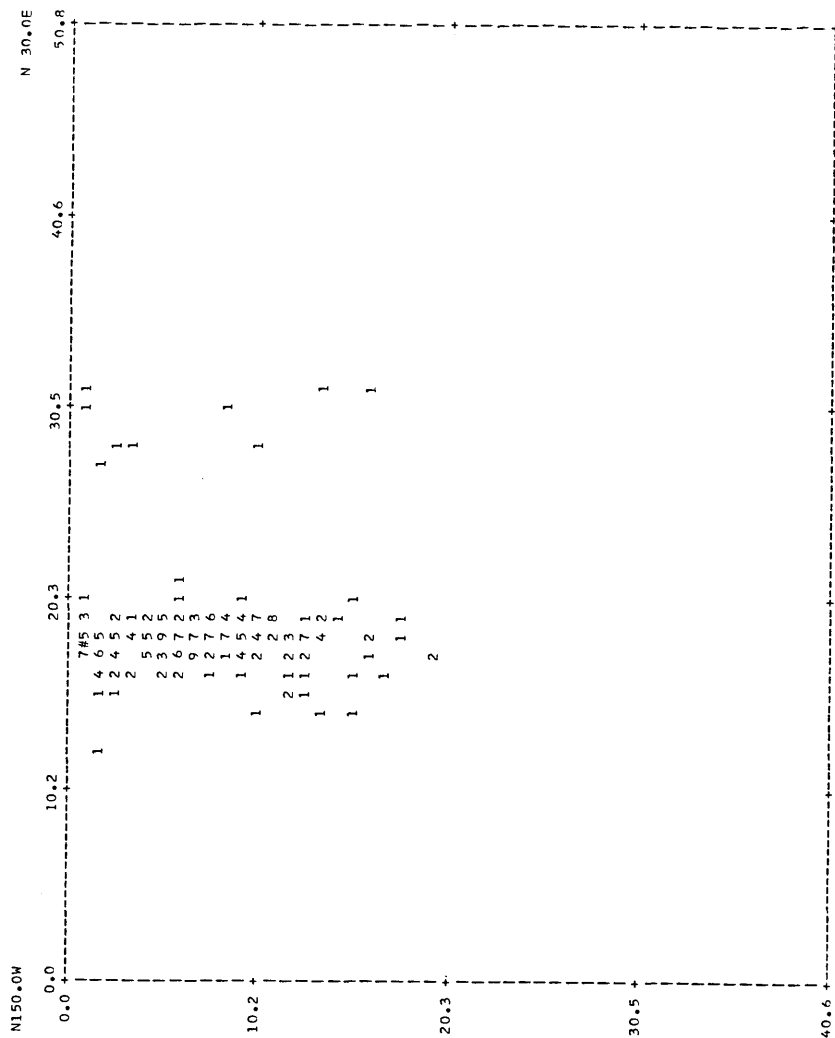


Table 4 (pp. 103-260). Observational data.

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 1	3	11	9.0	0.1	87.4 0.9	11.0 0.6 9.4 1.4
101) WESTERN PART OF SHIMANE						
MAG=2.7 S=0.08						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
HMD	11.6	13.6	2.0	-0.0	0.1	12.6 340
SHK	18.9	26.2	7.3	-0.0	0.0	58.8 118
MKW	24.7	36.0	11.3	0.1	-0.0	93.2 102

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 3	3	32	40.2	0.1	103.3 0.6	14.3 0.4 1.9 3.4
101) WESTERN PART OF SHIMANE						
MAG=2.5 S=0.05						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
HMD	41.6	42.7	1.1	-0.1	-0.0	8.5 242
SHK	51.1	59.0	7.9	-0.0	-0.1	65.4 132
MKW	55.9	67.5	11.6	-0.1	-0.0	94.7 111

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 3	3	46	6.1	0.2	104.2 1.6	15.1 0.4 2.3 R
101) WESTERN PART OF SHIMANE						
MAG=2.2 S=0.16						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
HMD	7.6	9.0	1.4	-0.2	0.0	9.7 239
SHK	17.2	24.9	7.7	0.2	-0.1	65.4 133
MKW	21.8	33.2	11.4	-0.0	-0.1	94.3 112

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 3	22	26	30.3	0.1	30.1 1.1	100.4 1.1 1.6 R
47) NEAR IKUCHIJIMA						
MAG=3.5R S=0.32						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
MKW	36.6	44.1	5.9	-0.1	0.0	37.9 2
SHK	38.2	48.1	7.2	-1.8X	2.3X	55.5 210
MKY	21.4	48.8	7.9	-0.7X	-0.2	60.9 279
IHR	29.9	47.7	8.6	0.0	-0.4*	74.1 150
IHR	42.1	51.3	10.6	-0.0	-0.5*	88.9 141
URS	43.7	56.6	10.9	0.4*	0.4*	89.8 155

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 7	4	33	14.2	0.2	129.9 1.1	52.1 1.2 0.8 73.6
81) CENTRAL PART OF SHIMANE						
MAG=1.9B S=0.15						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
KUT	18.7	23.8	4.1	-0.0	-0.0	33.2 136
SHK	26.0	34.9	8.9	-0.1	0.1	71.5 171
MKW	27.6	37.1	9.5	0.1	-0.1	79.6 141

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 7	18	58	38.6	0.7	134.3 3.2	117.0 3.8 25.7 8.4
20) CENTRAL SHIMANE-TOTTORI BORDER						
MAG=2.0 S=0.41						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
KUT	48.3	56.8	6.5	0.2	-0.2	50.6 235
MKW	50.3	59.8	9.5	-0.4*	0.2	68.0 192
SHK	54.8	66.3	11.5	0.1	-0.1	92.8 215

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 7	22	32	33.0	0.3	100.6 0.9	108.7 1.2 0.6 R
83) NORTHERN HIROSHIMA-OKAYAMA BORDER						
MAG=1.4 S=0.19						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
MKW	38.7	42.5	3.8	0.1	-0.1	33.3 191
KUT	38.5	42.9	4.4	-0.2	0.1	34.0 278
SHK	44.9	50.9	6.0	1.6X	-0.0	62.1 228
MZ	52.3	66.7	13.4	0.0	-0.7X	115.7 85

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1968 MAY 8	3	25	12.0	0.2	108.6 0.7	75.8 0.6 9.9 0.7
33) NEAR KUTSUGAHARA						
MAG=1.6R S=0.11						
STATION	TP		TS		P-S TP(O-C)	TS(O-C)
	TP	TS	TP	TS		
KUT	13.7	14.8	1.1	-0.1	-0.3	2.8 194
MKW	20.1	26.3	6.2	-0.2	0.0	48.5 147
SHK	20.7	27.0	6.3	-0.0	-0.1	51.2 195

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 8 15 2 18.1 0.2 65.2 0.6 103.4 0.8 17.6 0.9
42) EASTERN PART OF HIROSHIMA
MAG=1.5 S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.0 23.2 2.2 -0.1 -0.1 3.0 334
MKW 25.5 31.1 5.6 -0.1 0.0 41.3 261
SHK 27.0 33.2 6.2 0.1 -0.1 49.6 325

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 9 2 10 44.5 0.6 120.9 2.6 100.9 2.6 5.9 16.3
25) NEAR EROSHI-YAMA
MAG=1.7 S=0.38
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.4 53.3 3.9 -0.2 0.0 29.8 239
MKW 53.1 60.0 6.9 -0.3 0.1 53.0 178
SHK 57.0 65.3 8.3 0.3* -0.3 72.7 211

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 9 10 51 42.3 0.2 115.6 1.0 72.1 0.9 11.7 0.9
32) NEAR AKAGI, SHIMANE
MAG=1.5 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 44.8 46.7 1.9 -0.1 -0.1 10.1 162
MKW 52.0 58.8 6.8 0.1 -0.1 56.3 147
SHK 51.9 59.2 7.3 -0.1 0.0 57.3 189

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 9 23 46 43.6 0.3 61.7 0.9 95.5 0.9 14.3 1.6
42) EASTERN PART OF HIROSHIMA
MAG=1.1 S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 46.3 48.5 2.2 -0.2 -0.1 9.1 46
SHK 49.8 53.9 4.1 0.2 -0.1 33.1 265
KUT 52.0 58.3 6.3 -0.1 0.0 48.7 335

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 10 6 15 47.9 0.2 105.6 1.1 76.4 0.8 4.7 1.3
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.48
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 48.6 49.3 0.7 -0.2 -0.1 1.3 283
MKW 55.5 61.2 5.7 -0.0 0.1 45.6 145
SHK 56.2 61.9 5.7 0.2 -0.1 48.5 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 10 18 1 56.5 0.2 91.0 0.5 15.3 1.0 21.3 2.5
10) WESTERN PART OF SHIMANE
MAG=1.7 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 66.7 74.0 7.3 0.0 -0.1 57.0 123
KUT 67.4 75.3 7.9 0.0 -0.1 61.6 76
MKW 71.8 83.2 11.4 -0.1 0.0 89.8 104

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 11 5 21 54.5 0.1 51.9 0.5 66.1 0.4 29.3 0.6
53) NEAR HACHITHONWATSU, HIROSHIMA
MAG=2.0K S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 59.6 63.2 3.6 -0.0 -0.2 8.1 333
MKW 62.6 68.7 6.1 -0.1 -0.2 39.4 66
KUT 64.9 72.4 7.5 0.0 -0.1 54.8 9

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM) +/-
H M S +/-
1968 MAY 11 13 50 55.9 0.1 106.4 0.3 75.0 0.2 8.2 0.4
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 57.2 58.2 1.0 -0.1 -0.2 0.5 167
MKW 69.7 69.7 0.0 -0.0 -0.0 47.1 144
SHK 64.2 70.2 6.0 0.0 -0.0 48.9 194

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 13 12 20 25.8 0.3 122.3 1.2 52.6 0.9 4.3 R
8) CENTRAL PART OF SHIMANE
MAG=1.9R S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.4 33.9 3.5 -0.1 -0.1 27.8 126
SHK 44.2 44.2 7.6 0.1 -0.1 63.9 171
MKW 36.6 47.2 0.1 73.5 137

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 13 19 8 32.4 0.4 9.6 1.6 90.7 2.5 35.7 3.9
95) EHIME
MAG=2.5 S=0.38
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 43.8 51.6 7.8 0.2 -0.3 57.0 330
MKW 44.3 52.3 8.6 0.5* -0.2 59.4 11
THR E 44.8 E 53.3 8.9 0.2 -0.3 63.7 134
WMY E 46.9 56.3 10.0 -0.3 -1.1X 81.4 127
KUT 49.2 61.2 12.0 -0.5X -1.2X 97.6 350

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 13 23 24 48.7 0.1 102.0 0.4 72.4 0.4 11.5 0.7
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.8 52.2 1.4 -0.0 -0.2 4.8 34
SHK 26.3 61.8 5.5 0.0 -0.0 44.0 192
MKW 50.4 62.2 5.8 -0.1 0.0 45.2 138

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 13 23 37 48.3 0.2 84.8 0.4 93.5 0.7 8.6 2.8
42) EASTERN PART OF HIROSHIMA
MAG=1.8 S=0.15
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 51.8 54.2 2.4 0.0 -0.1 19.0 152
MKW 53.0 56.8 3.8 -0.2 0.0 28.0 318
SHK 55.2 60.1 4.9 0.0 -0.1 40.2 230

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 15 3 8 32.0 0.3 85.5 0.5 94.0 0.8 7.5 3.9
42) EASTERN PART OF HIROSHIMA
MAG=1.4 S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 35.3 38.1 2.8 -0.2 0.1 19.4 155
KUT E 36.9 40.3 3.4 0.1 -0.0 27.8 317
SHK E 39.1 44.0 4.9 0.1 -0.1 41.0 230

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 15 11 1 57.0 0.0 104.2 0.2 77.5 0.2 9.9 0.2
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.02
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.7 59.9 1.2 -0.1 -0.2 2.9 305
MKW 64.5 1 70.0 5.5 -0.0 0.0 43.8 145
SHK 65.1 0.0 47.5 198

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 15 19 35 57.1 0.2 101.7 0.6 79.1 0.5 10.3 1.2
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.9 60.4 1.5 -0.2 -0.2 5.8 316
MKW 69.2 70.5 5.6 -0.0 -0.1 40.9 145
SHK 64.9 70.5 5.6 -0.0 -0.1 45.7 201

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 17 5 21 51.8 0.2 101.6 0.5 23.0 0.9 23.9 2.0
10) WESTERN PART OF SHIMANE
MAG=2.0 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 61.5 68.4 6.9 0.1 -0.0 52.3 85
SHK E 62.2 70.0 7.8 -0.1 0.1 58.0 137
MKW 66.7 77.6 10.9 0.0 0.0 86.0 113

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 19 4 33 44.0 0.3 127.8 1.5 53.0 1.8 18.2 3.1
8) CENTRAL PART OF SHIMANE
MAG=2.0 S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 50.1 54.2 4.1 0.1 -0.3 31.1 134
SHK E 55.9 64.6 8.7 0.1 -0.1 69.3 172
MKW 57.0 67.0 10.0 -0.3 0.0 77.4 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 19 7 16 41.4 0.3 119.2 2.2 9.3 1.0 31.1 1.7
1) OFF COAST OF SHIMANE
MAG=3.2B S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
HMD E 47.8 52.0 4.2 0.2 -0.1 20.1 187
KUT E 53.6 62.9 9.3 -0.2 0.1 67.1 101
SHK 55.9 67.7 11.8 0.1 1.4X 80.2 138
MKW I 59.7 73.3 13.6 -0.1 -0.0 106.0 118

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 19 14 44 9.9 0.2 112.0 1.0 84.2 0.9 14.9 R
31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.9 S=0.17
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 13.1 15.1 2.0 0.1 -0.2 10.9 236
MKW E 18.0 24.4 6.4 -0.2 0.1 47.6 157
SHK 19.7 26.9 7.2 -0.1 -0.1 57.1 202

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 21 12 33 30.9 0.5 21.1 2.7 21.6 2.7 13.5 R
70) HIROSHIMA-YAMAGUCHI BORDER
MAG=1.7 S=0.32
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 40.1 47.0 6.9 -0.4X -0.5X 55.9 47
MKW 46.6 56.1 11.5 0.0 0.0 93.1 59
KUT 48.0 60.0 12.0 0.2 -0.1 100.3 32

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 21 14 55 53.0 0.3 -13.6 1.2 57.9 1.8 47.9 3.0
95) EHIME
MAG=1.9 S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 67.6 78.1 10.5 0.0 -0.1 72.9 3
IHR E 68.8 80.1 11.3 0.0 -0.2 81.3 105
MKW E 70.2 83.2 13.0 -0.2 0.0 92.7 28

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 22 16 12 0.2 0.2 108.7 0.8 75.5 0.6 7.9 0.7
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1.6 2.5 0.9 -0.1 -0.2 2.8 188
MKW E 8.3 14.5 6.2 -0.1 0.0 48.7 146
SHK I 8.9 15.1 6.2 0.1 -0.1 51.2 194

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 22 16 23 0.9 0.5 -16.0 2.2 61.2 3.3 46.4 5.4
95) EHIME
MAG=1.9 S=0.35
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK I 15.8 1 26.1 10.3 0.2 -0.3* 75.2 1
IHR E 16.1 26.9 10.8 0.1 -0.1 77.5 103
MKW E 18.2 31.0 12.8 -0.1 -0.0 93.4 25
WHY E 18.4 -0.5* 97.1 104

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 MAY 23 21 55 6.0 0.3 105.8 1.3 79.1 0.9 4.4 2.2
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 7.0 7.7 0.7 -0.0 -0.1 4.0 271
MKW I 13.3 1 19.0 2.7 -0.1 0.1 44.3 148
SHK I 14.5 20.3 5.8 0.2 -0.1 49.5 199

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 MAY 24 17 23 40.1 0.4  81.7 0.7  92.9 1.0  13.1 3.0
42) EASTERN PART OF HIROSHIMA      MAG=1.0      S=0.22
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
MKW      43.4  I 46.3      2.9  -0.3      18.6  146
KUT      I 45.7  49.5      3.8  0.1      30.0  323
SHK      46.9  51.6  4.7  0.1      -0.1  37.8  233
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 MAY 25 22 30 22.2 0.3  27.3 0.9  121.0 1.0  25.7 4.0
47) NEAR IKUCHIJIMA      MAG=1.7      S=0.08
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
MKW      30.8  37.0  6.2  -0.0      -0.2  44.8  335
SHK      E 34.1  I 42.8      8.7  -0.0      -0.0  66.6  298
KUT      49.5
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 MAY 28 5 0 17.2 0.3  58.5 1.2  65.3 1.1  33.2 1.6
53) NEAR HACHIONWATSU, HIROSHIMA  MAG=1.1      S=0.22
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
SHK      I 22.9  I 26.6      3.7  0.1      -0.3*  2.9  283
MKW      25.4  31.8  6.4  -0.2      -0.0  38.0  75
KUT      26.9  34.1  7.2  -0.1      -0.1  48.4  11
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 MAY 29 7 27 4.8 0.1  77.4 0.3  100.2 0.5  6.9 1.3
42) EASTERN PART OF HIROSHIMA      MAG=1.1      S=0.09
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
MKW      6.8  8.2  1.4  -0.0      -0.1  9.7  168
KUT      11.3  15.9  4.6  0.1      -0.1  38.0  318
SHK      E 11.8  17.1  5.3  -0.1      0.0  41.9  244
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 MAY 29 16 0 25.9 0.4  70.0 1.0  102.1 1.6  6.5 1.9
42) EASTERN PART OF HIROSHIMA      MAG=1.8      S=0.23
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
MKW      26.9  27.9  1.0  -0.2      -0.1  2.1  179
SHK      I 33.1  I 37.8  4.7  0.3      -0.1  41.0  254
KUT      I 33.4  I 39.1  5.7  -0.1      0.1  44.9  323
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 MAY 29 16 38 25.2 0.5  90.0 1.0  72.0 1.2  4.6 10.6
50) CENTRAL PART OF HIROSHIMA      MAG=1.1      S=0.30
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 27.8  I 30.1  2.3  -0.2      0.0  16.2  11
SHK      I 30.9  34.4  3.5  0.3      -0.2  32.3  197
MKW      31.3  36.1  4.8  -0.2      0.0  37.3  126
*****

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DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 1 15 39	10.6 0.2	117.2 0.7	97.9 0.7	9.4 2.4
25) NEAR EROSHI-YAMA				
MAG=1.9 S=0.11				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
KUT	I 15.0	18.4	3.4 -0.1	25.4 243
MKW	E 18.9	25.1	6.2 -0.1	49.5 175
SHK	I 22.1	30.3	8.2 0.1	68.0 211

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 1 20 9	33.1 0.2	106.2 1.1	161.1 1.5	27.3 4.2
87) NEAR ASAHI,OKAYAMA				
MAG=2.2 S=0.13				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
MKW	45.6	54.8	9.2 -0.1	70.3 237
KUT	E 48.2	59.0	10.8 0.0	86.0 269
SHK	E 51.7	65.6	13.9 -0.2	109.2 244

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 2 18 42	30.1 0.2	12.9 1.4	61.4 1.5	57.2 R
58) NEAR KURASHIJIMA				
MAG=1.9 S=0.16				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
SHK	E 42.3	51.1	8.8 -0.1	46.3 1
MKW	E 44.8	55.8	11.0 -0.2	68.5 36
KUT	E 48.6	61.8	13.2 0.1	94.0 8

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 4 2 19	51.9 0.5	74.2 1.4	36.9 2.4	25.4 3.4
65) WESTERN PART OF HIROSHIMA				
MAG=1.5 S=0.30				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
SHK	I 58.4	E 63.1	4.7 -0.0	-0.1 29.7 120
KUT	E 61.4	I 67.8	6.4 0.2	-0.2 49.6 50
MKW	63.3	72.3	9.0 -0.3*	0.1 65.5 95

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 4 9 4	53.0 0.2	68.7 0.6	4.3 1.0	27.3 2.1
10) WESTERN PART OF SHIMANE				
MAG=1.1 S=0.08				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
SHK	16.1	E 24.1	8.0 -0.1	-0.0 59.0 99
KUT	E 29.7	34.6	12.3 0.1	-0.0 80.0 62
MKW	E 22.3	E 34.6	12.3 0.1	-0.0 97.8 90

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 5 3 59	28.6 0.1	76.5 0.2	17.3 0.4	33.4 0.6
65) WESTERN PART OF HIROSHIMA				
MAG=1.3 S=0.04				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
SHK	38.4	45.5	7.1 -0.0	-0.1 48.4 110
KUT	E 40.7	I 49.6	8.9 -0.1	-0.1 64.9 63
MKW	43.8	53.0	11.2 -0.1	-0.1 85.3 95

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 5 4 0	57.4 0.4	99.1 1.1	96.1 1.2	12.8 3.3
40) MIYOSHI AND SHORARA				
MAG=1.2 S=0.24				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
KUT	61.8	I 64.6	2.8 0.1	-0.2 22.1 287
MKW	63.1	67.2	4.1 -0.0	-0.1 31.8 169
SHK	E 66.1	73.0	6.9 -0.3	0.1 52.2 220

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 6 12 51	40.5 0.5	71.0 1.7	30.8 2.9	18.4 5.5
65) WESTERN PART OF HIROSHIMA				
MAG=1.7L S=0.34				
STATION	TP	TS	P-S TP(O-C) TS(O-C)	DIST AZM
SHK	I 47.2	I 51.5	4.3 0.3	-0.2 33.9 110
KUT	E 50.5	57.6	7.1 0.1	-0.1 56.4 51
MKW	52.5	62.0	9.5 -0.3*	0.2 71.4 92

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 7 4 9 12.6 0.0 108.7 0.2 78.8 0.1 4.0 0.2
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.02
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 13.6 14.3 0.7 -0.1 -0.1 4.6 232
MKW I 26.2 26.2 0.0 -0.0 -0.0 47.0 150
SHK I 21.3 1 27.7 6.4 -0.0 -0.0 52.2 198
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 8 1 53 41.0 0.4 106.3 1.8 72.5 2.0 4.6 R
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.39
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 42.0 42.7 0.7 0.1 0.1 2.6 158
SHK I 48.8 1 55.3 6.5 -0.3 0.3* 48.2 171
MKW I 48.7 55.1 6.4 -0.4* 0.0 48.5 142
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 8 1 54 12.0 0.6 106.8 2.7 73.1 2.7 4.6 R
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.41
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 13.0 13.7 0.7 0.1 0.1 2.2 113
MKW I 26.0 26.0 0.0 -0.1 -0.1 48.5 143
SHK I 19.8 1 26.4 6.6 -0.4* 0.2 48.8 192
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 8 7 51 8.4 0.5 109.5 2.1 73.1 1.6 7.9 1.8
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.26
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 10.0 1 10.8 0.8 0.1 -0.3 4.1 150
MKW I 23.2 23.2 0.0 -0.0 -0.0 50.7 145
SHK I 16.9 1 23.5 6.6 -0.2 0.1 51.4 191
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 9 18 3 58.9 0.4 108.5 2.0 70.9 1.6 4.6 R
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.31
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 60.2 1 60.9 0.7 0.1 -0.0 4.9 121
SHK I 67.2 73.5 6.3 -0.1 0.1 50.1 169
MKW E 67.0 73.7 6.7 -0.5* -0.0 51.2 142
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 9 19 1 12.1 0.4 92.7 1.1 27.0 1.9 23.5 4.7
10) WESTERN PART OF SHIMANE
MAG=1.4 S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK I 21.0 1 27.8 6.8 -0.2 0.0 48.9 133
KUT E 21.4 27.9 6.5 0.1 -0.2 49.9 74
MKW 35.9 35.9 -0.0 79.1 108
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 9 21 30 44.1 0.3 109.4 1.3 69.6 1.1 3.1 2.7
33) NEAR KUTSUGAHARA
MAG=0.7 S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 45.4 46.1 0.7 0.1 -0.1 6.5 122
SHK I 52.4 58.9 6.5 -0.2 0.1 50.7 188
MKW E 53.0 59.3 6.3 0.1 -0.0 52.7 141
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 10 11 14 36.8 0.5 3.4 2.1 130.3 2.4 3.0 R
95) EHIME
MAG=2.4R S=0.29
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 48.3 56.9 8.6 -0.2 -0.2 70.4 336
SHK I 51.3 62.1 10.8 -0.1 -0.1 87.8 309
KUT E 56.5 1 70.6 14.1 0.3 0.2 116.4 331

```

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)	DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)	
H M S	H M S	+	-	+	H M S	H M S	+	-	+	
1968 JUN 10 18 1 11.9 0.5	3.8 3.4	46.3 4.1	72.2 R		1968 JUN 13 17 25 12.5 0.3	-0.0 1.8	45.6 1.7	56.8 2.2		
58) NEAR KURASHIJIMA					58) NEAR KURASHIJIMA					
MAG=2.3 S=0.37					MAG=2.5 S=0.16					
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					
SHK 27.0 I 38.1 11.1 -0.3* -0.5X 57.7 16					SHK E 26.3 36.8 10.5 -0.2 0.1 61.5 15					
MKW 30.4 44.0 13.6 -0.1 -0.2 85.0 41					MKW 30.1 I 42.8 12.7 0.1 -0.1 88.4 39					
KUT E 33.7 48.9 15.2 0.4* -0.1 106.1 15					KUT 33.2 E 48.2 15.0 0.0 -0.1 109.9 15					
*****					*****					
DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)					DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)					
H M S	H M S	+	-	+	H M S	H M S	+	-	+	
1968 JUN 11 9 0 25.1 0.3	119.0 1.2	104.4 1.2	10.9 4.3		1968 JUN 14 18 48 15.7 0.5	111.6 2.3	68.9 1.5	0.8 R		
25) NEAR EROSHI-YAMA					32) NEAR AKAGI, SHIMANE					
MAG=1.7 S=0.18					MAG=2.0 S=0.32					
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					
KUT I 30.7 I 34.9 4.2 -0.1 -0.0 32.1 245					KUT I 17.1 17.7 0.6 -0.0 -0.5* 8.4 132					
MKW 34.0 40.1 6.1 0.2 -0.1 51.1 182					SHK 24.3 30.9 6.6 -0.2 -0.1 52.8 186					
SHK 37.3 46.5 9.2 -0.1 0.1 73.0 214					MKW 25.0 I 31.8 6.8 0.2 0.3 54.9 142					
*****					*****					
DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)					DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)					
H M S	H M S	+	-	+	H M S	H M S	+	-	+	
1968 JUN 11 18 5 17.3 0.3	131.4 1.6	95.9 1.7	26.1 2.6		1968 JUN 14 18 50 28.6 0.1	111.8 0.2	70.2 0.2	9.2 0.2		
22) NITA,YOKOTA AND NICHINAN					32) NEAR AKAGI, SHIMANE					
MAG=2.0 S=0.22					MAG=1.1 S=0.03					
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					
KUT I 24.5 I 29.3 4.8 0.2 -0.2 32.9 219					KUT I 30.6 I 32.0 1.4 -0.0 -0.1 7.7 140					
MKW 28.8 37.2 8.4 -0.0 -0.0 64.8 174					SHK E 37.6 44.2 6.6 -0.0 0.0 53.2 188					
SHK E 31.1 41.6 10.5 -0.2 0.1 79.6 204					MKW 44.5 44.5 -0.0 0.0 54.3 143					
*****					*****					
DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)					DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)					
H M S	H M S	+	-	+	H M S	H M S	+	-	+	
1968 JUN 11 23 26 0.9 0.3	111.8 1.2	68.3 1.1	9.7 1.3		1968 JUN 15 4 34 49.2 0.5	27.4 2.6	42.8 2.8	65.5 2.9		
32) NEAR AKAGI, SHIMANE					58) NEAR KURASHIJIMA					
MAG=1.2 S=0.18					MAG=1.9 S=0.28					
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM					
KUT I 2.9 I 4.7 1.8 -0.2 -0.1 9.0 130					SHK 61.9 70.8 8.9 0.1 -0.2 37.4 31					
SHK I 10.0 16.3 6.3 0.1 -0.2 53.0 186					MKW 65.2 77.3 12.1 -0.2 -0.0 71.8 55					
MKW 10.2 17.1 6.9 -0.1 -0.1 55.4 142					KUT E 80.1 80.1 -0.1 0.1 84.9 22					

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 17 0 18 33.7	0.6	80.0	2.3	3.5 R
10) WESTERN PART OF SHIMANE				
MAG=1.6M S=0.30				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	45.0	E 32.2	8.2	-0.1
KUT	57.2			-0.1
MKW	51.4	64.4	13.0	0.2
DIST AZM				
				68.1 107
				81.6 71
				105.1 96

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 17 6 41 28.8	0.5	100.1	1.7	11.1 3.4
33) NEAR KUTSUGAHARA				
MAG=1.2 S=0.33				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	30.5	I 32.5	2.0	-0.4*
MKW	36.3	I 41.3	5.0	0.2
SHK	36.2	41.4	5.2	0.0
DIST AZM				
				5.9 7
				42.5 139
				42.6 196

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 17 8 4 13.9	0.6	113.8	2.7	81.6 2.3 14.0 3.0
31) CENTRAL PART OF TAKANO-HIROSHIMA				
MAG=1.3 S=0.41				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	17.0	I 18.7	1.7	0.2
MKW	22.2	29.2	7.0	-0.4*
SHK	24.0	31.0	7.0	0.2
DIST AZM				
				10.2 219
				50.3 155
				57.9 199

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 17 13 25 24.3	0.4	73.5	1.1	32.7 1.9 24.5 2.6
65) WESTERN PART OF HIROSHIMA				
MAG=1.3B S=0.20				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	31.0	36.2	5.2	-0.2
KUT	I 41.2			-0.1
MKW	36.7	45.5	8.8	0.1
DIST AZM				
				33.1 115
				53.4 52
				69.6 94

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 18 10 54 2.7	0.5	64.9	2.2	0.2 3.3 37.0 6.0
10) WESTERN PART OF SHIMANE				
MAG=2.0G S=0.29				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	15.1	23.5	8.4	0.3
KUT	E 18.1	29.6	11.5	-0.1
MKW	E 20.6	34.1	13.5	-0.2
DIST AZM				
				62.6 95
				85.4 61
				102.0 88

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 18 13 47 11.8	0.3	87.8	1.1	11.7 1.8 31.0 3.4
10) WESTERN PART OF SHIMANE				
MAG=1.7 S=0.17				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	22.7	30.9	8.2	-0.1
KUT	E 24.1	32.7	8.6	0.1
MKW	28.0	40.0	12.0	-0.1
DIST AZM				
				58.3 119
				65.9 74
				92.6 102

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 18 15 57 8.9	0.5	-9.2	2.4	120.9 2.9 8.6 R
95) EHIME				
MAG=2.0 S=0.34				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	21.8	32.0	10.7	-0.4*
SHK	23.9	34.7	11.0	-0.0
KUT	30.0	44.7	14.7	0.4
DIST AZM				
				79.4 346
				89.9 319
				123.9 338

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 18 21.43	15.6 0.3	16.8 1.5	-4.5 1.8	28.1 4.8
70) HIROSHIMA-YAMAGUCHI BORDER MAG=2.0R S=0.14				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	29.5	35.9	10.4	-0.1
MKW	35.9	50.6	14.7	0.0
KUT		E 51.0		
DIST	57	79.3		
AZM	57	118.2		
DIST	41	119.5		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 19 20.41	3.3 0.6	105.5 3.5	117.7 4.9	12.6 12.1
83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.5 S=0.32				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	10.2	15.7	5.5	-0.2
KUT	10.9	16.0	5.1	0.2
SHK	15.5			-0.0
DIST	202	40.7		
AZM	202	42.6		
DIST	229	72.1		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 22 0.38	36.0 0.1	101.6 0.6	76.6 1.1	5.2 R
33) NEAR KUTSUGAHARA MAG=1.1 S=0.24				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	31.2	I 38.0	0.8	0.0
MKW	43.0	48.4	5.4	-0.1
SHK	43.2	49.2	6.0	-0.3*
DIST	142	42.3		
AZM	142	44.7		
DIST	198			

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 22 23.3	34.6 0.2	-21.3 1.7	48.0 1.7	83.6 1.9
95) EHIME MAG=3.6R S=0.13				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	54.1	E 69.4	14.3	-0.0
MKW	56.8	73.3	16.5	-0.1
KUT	60.5	79.2	18.7	0.1
DIST	10	81.8		
AZM	10	104.4		
DIST	3	130.1		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 23 3.4	6.0 0.2	131.9 1.8	118.5 2.1	23.7 5.0
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.3 S=0.23				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	15.9	22.6	6.7	-0.0
MKW	18.0	26.9	8.9	-0.3*
SHK	E 22.5	33.8	11.3	0.1
DIST	239	50.6		
AZM	239	66.0		
DIST	217	91.8		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 24.7	24.55.4 0.2	93.3 0.6	126.8 1.0	19.7 1.8
83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=2.0 S=0.12				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	I 62.0	67.1	5.1	-0.2
KUT	64.9	71.7	6.8	0.0
SHK	68.0	77.1	9.1	0.0
DIST	224	35.4		
AZM	224	53.2		
DIST	283	72.8		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 25.12	43.31.5 0.2	59.3 1.7	192.5 2.0	14.9 12.2
100) OUT OF THE MAP MAG=2.2R S=0.15				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	47.0	58.0	11.0	0.2
KUT	52.6	68.3	15.7	-0.1
SHK	53.3	69.3	16.0	-0.0
DIST	275	90.8		
AZM	275	126.3		
DIST	291	130.0		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 JUN 25.21	43.47.6 0.4	132.1 2.1	124.5 2.5	18.2 8.6
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.9 S=0.27				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	57.5	64.4	6.9	0.1
MKW	59.0	68.0	9.0	-0.3*
SHK	63.9	75.6	11.7	0.1
DIST	242	55.9		
AZM	242	68.0		
DIST	199	95.7		

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 28 3 28 41.0 0.0 68.2 0.0 107.2 0.0 21.0 0.0
42) EASTERN PART OF HIROSHIMA
MAG=1.3 S=0.00
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 44.5 47.1 2.6 -0.2 -0.2 45.1 161
SHK 49.3 55.4 6.1 -0.1 -0.1 45.6 268
KUT E 49.9 57.6 7.0 -0.1 -0.1 45.3 319
MAG=1.3 S=0.00
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 28 22 52.8 0.1 113.4 0.2 73.4 0.2 9.1 0.2
32) NEAR AKAGI, SHIMANE
MAG=1.0 S=0.03
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 54.8 56.2 1.4 -0.0 -0.1 7.7 167
MKW E 61.9 68.6 6.7 -0.0 0.0 53.8 167
SHK 62.2 69.0 6.8 0.0 0.0 55.3 191
MAG=1.0 S=0.03
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 30 7 0 36.6 0.1 110.5 0.5 75.3 0.3 2.7 1.1
33) NEAR KUTSUGAHARA
MAG=1.8 S=0.06
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 37.5 45.0 51.2 6.2 -0.0 0.0 50.3 147
MKW 45.0 51.9 6.4 0.1 0.0 52.9 193
SHK 45.5
MAG=1.8 S=0.06
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUN 30 23 12 18.0 0.4 122.3 1.8 52.3 1.4 1.7 R
8) CENTRAL PART OF SHIMANE
MAG=1.7 S=0.24
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.6 25.9 3.3 -0.1 -0.2 28.1 125
SHK 28.7 36.3 7.6 0.0 0.2 64.0 170
MKW 39.5 73.7 137
MAG=1.7 S=0.24
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 1 4 7 19.0 0.1 116.0 0.3 71.8 0.3 3.8 0.6
32) NEAR AKAGI, SHIMANE
MAG=1.2 S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.8 22.2 1.4 -0.1 -0.1 10.6 161
MKW 35.4 35.4 0.1 0.1 56.8 147
SHK E 28.6 35.6 7.0 -0.0 -0.1 57.6 189
MAG=1.2 S=0.04
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 2 13 2 12.7 0.4 43.3 1.9 38.2 1.8 1.9 R
55) NEAR HIROSHIMA
MAG=1.5M S=0.27
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 17.3 21.2 3.9 -0.3 0.1 29.0 56
MKW 24.5 32.4 7.9 0.4* -0.1 68.5 68
KUT E 24.8 I 33.8 9.0 -0.0 0.1 72.7 30
MAG=1.5M S=0.27
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 2 18 51 10.2 0.2 82.5 0.3 92.3 0.5 11.1 1.8
42) EASTERN PART OF HIROSHIMA
MAG=1.0 S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 13.5 16.2 2.7 -0.2 -0.1 17.6 146
KUT 15.4 19.1 3.7 -0.0 -0.1 29.0 323
SHK 16.8 21.5 4.7 0.0 -0.1 37.8 231
MAG=1.0 S=0.12
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 3 12 29 54.0 0.3 104.3 1.0 74.3 0.8 7.4 1.3
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 55.3 I 56.1 0.8 -0.0 -0.2 1.8 26
MKW 61.6 I 67.5 5.9 -0.1 0.1 45.8 142
SHK 62.0 I 67.6 5.6 0.1 -0.0 46.7 194
MAG=1.1 S=0.16

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DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 4 21 23	1.1 0.1	127.3 0.4	58.9 0.4	13.3 0.8			
8) CENTRAL PART OF SHIMANE MAG=1.5 S=0.05							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
KUT	6.0	9.7	3.7	-0.1	26.8	142	
SHK	E 12.7	21.1	8.4	0.0	-0.1	68.2	176
MKW	13.5	22.6	9.1	-0.0	-0.1	73.4	143

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 5 14 13	23.9 0.3	126.0 1.5	58.0 1.6	15.7 2.7			
8) CENTRAL PART OF SHIMANE MAG=1.9 S=0.21							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
KUT	29.2	32.6	3.4	0.2	-0.2	26.4	139
SHK	35.3	43.8	8.5	-0.1	0.0	67.0	176
MKW	36.2	I 45.5	9.3	-0.1	0.0	72.9	142

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 5 16 30	12.2 0.1	127.5 0.6	60.4 0.7	15.6 1.1			
8) CENTRAL PART OF SHIMANE MAG=1.8 S=0.09							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
KUT	17.3	20.9	3.6	-0.0	-0.1	26.1	145
SHK	23.9	32.4	8.5	0.0	-0.1	68.4	178
MKW	24.5	33.7	9.2	-0.1	0.0	72.7	144

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 6 9 51	53.2 0.3	150.8 1.5	116.1 1.8	29.3 4.1			
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=2.3 S=0.17							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
KUT	64.6	72.6	8.0	0.1	-0.1	60.8	222
MKW	67.9	79.0	11.1	-0.2	0.1	84.0	189
SHK	71.6	85.0	13.4	0.0	-0.0	106.2	210

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 8 5 38	9 0.2	67.1 0.5	99.0 0.5	19.8 0.8			
42) EASTERN PART OF HIROSHIMA MAG=1.2 S=0.10							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
MKW	42.3	I 44.6	2.3	0.0	-0.2	3.2	75
SHK	46.0	I 51.1	5.1	0.0	-0.0	37.3	257
KUT	47.1	53.3	6.2	-0.1	0.0	45.6	328

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 9 17 3	42.1 0.2	111.1 0.9	84.0 0.8	11.1 1.2			
31) CENTRAL PART OF TAKANO-HIROSHIMA MAG=1.3 S=0.12							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
KUT	44.7	46.4	1.7	0.0	-0.1	10.3	239
MKW	56.0	56.0	5.0	0.0	-0.0	46.8	157
SHK	51.6	58.7	7.1	-0.1	0.0	56.2	202

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 9 17 58	15.5 0.0	110.8 0.2	84.2 0.1	8.8 0.3			
31) CENTRAL PART OF TAKANO-HIROSHIMA MAG=1.9 S=0.03							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
KUT	17.7	19.3	1.6	-0.1	-0.2	10.3	241
MKW	23.3	29.1	5.8	-0.1	-0.1	46.5	157
SHK	24.9	31.8	6.9	-0.1	-0.1	56.0	202

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-			
1968 JUL 10 0 59	32.4 0.1	104.3 0.4	74.3 0.3	9.8 0.5			
33) NEAR KUTSUGAHARA MAG=1.5 S=0.06							
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM							
KUT	I 34.0	I 35.1	1.1	-0.1	-0.3	1.8	26
MKW	40.1	45.9	5.8	-0.1	-0.0	45.8	142
SHK	I 40.3	46.1	5.8	-0.1	-0.1	46.7	194

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 10 1 20 11.2 0.1 104.5 0.4 75.9 0.3 9.5 0.5

33) NEAR KUTSUGAHARA MAG=0.8 S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 12.7 I 13.9 1.2 -0.2 -0.2 1.6 330
MKW 18.9 I 24.4 5.5 0.0 -0.1 45.0 144
SHK 19.2 25.1 5.9 -0.0 -0.0 47.3 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 10 15 0 11.1 0.2 114.0 1.0 71.7 0.8 11.4 0.9

32) NEAR AKAGI, SHIMANE MAG=1.4 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 13.6 15.1 1.5 0.1 -0.2 8.8 157
MKW 20.4 I 27.4 7.0 -0.1 0.0 55.2 146
SHK E 20.5 27.5 7.0 -0.1 -0.0 55.6 189

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 10 16 25 31.1 0.3 108.3 1.3 70.9 1.0 8.2 1.3

33) NEAR KUTSUGAHARA MAG=1.1 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.7 33.7 1.0 -0.0 -0.2 4.8 190
SHK 39.6 45.6 6.0 0.1 -0.1 47.9 189
MKW 39.5 I 46.1 6.6 -0.2 0.1 51.0 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 11 10 51 46.6 0.1 120.8 0.5 58.9 0.5 7.9 1.5

8) CENTRAL PART OF SHIMANE MAG=1.6 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.5 53.3 2.8 -0.0 -0.1 22.0 132
SHK I 56.9 64.6 7.7 -0.1 0.0 61.8 176
MKW 58.1 66.4 8.3 0.0 -0.1 68.3 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 12 23 27 33.6 0.1 57.8 0.3 107.6 0.3 14.0 0.3

44) NEAR FUCHU MAG=2.0 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 36.6 38.7 2.1 -0.1 -0.2 11.5 331
SHK 41.4 I 47.2 5.8 -0.1 -0.1 45.1 271
KUT 43.5 50.8 7.3 -0.1 -0.1 58.1 325

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 13 10 43 32.3 0.1 63.2 0.3 44.8 0.4 20.5 0.5

65) WESTERN PART OF HIROSHIMA MAG=1.3 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 36.8 40.2 3.4 -0.1 -0.1 18.2 102
KUT E 41.7 48.5 6.8 0.0 -0.1 52.4 35
MKW 42.5 E 49.9 7.4 0.0 -0.1 57.5 85

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 13 11 16 32.5 0.6 7.6 3.2 60.1 3.6 57.9 R

58) NEAR KURAHASHIJIMA MAG=3.08 S=0.39

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 45.5 54.4 8.9 0.0 -0.68 51.6 2
MKW I 48.3 I 59.3 11.0 0.2 -0.3 73.5 34
KUT 51.7 66.1 14.4 -0.0 0.3* 99.4 8

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 JUL 15 11 21 50.2 0.2 61.6 0.5 44.0 0.8 22.0 0.9

65) WESTERN PART OF HIROSHIMA MAG=1.1M S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 55.0 58.4 3.4 -0.0 -0.2 18.7 97
KUT E 60.0 66.0 6.0 -0.1 -0.1 54.1 35
MKW E 60.5 66.2 7.7 -0.1 -0.1 58.5 83

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 15 20 31 30.7 0.1 113.9 0.6 29.3 0.8 24.9 1.4
      8) CENTRAL PART OF SHIMANE      MAG=1.2      S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 45.9 16.2 3.2 -0.1 46.5 99
SHK E 42.2 I 50.5 8.3 0.0 -0.1 64.0 148
MKW E 45.6 56.6 11.0 -0.1 -0.0 86.1 122
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 15 22 15 41.2 0.1 103.1 0.5 79.7 0.4 10.3 0.9
      33) NEAR KUTSUGAHARA      MAG=1.8      S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 43.0 I 44.5 1.5 -0.2 -0.1 5.4 301
MKW E 48.4 53.5 5.1 0.0 -0.1 41.7 147
SHK E 49.2 55.1 5.9 -0.1 -0.1 47.2 201
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 18 5 16 16.9 0.1 107.2 0.5 79.8 0.4 7.3 0.7
      33) NEAR KUTSUGAHARA      MAG=1.1B      S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 18.3 I 19.3 1.0 -0.1 -0.2 4.9 284
MKW E 56.4 I 30.1 5.7 -0.1 -0.0 45.2 150
SHK E 25.5 31.7 6.2 -0.0 -0.1 51.1 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 19 15 3 59.3 0.1 107.1 0.5 62.3 0.4 3.3 2.3
      36) NEAR TSUGA, SHIMANE      MAG=2.28      S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 61.6 63.1 1.5 0.1 -0.1 12.9 58
SHK I 67.3 73.2 5.9 -0.0 0.0 47.9 179
MKW E 68.6 75.5 6.9 -0.0 0.0 55.9 134
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 20 23 17 8.0 0.1 85.2 0.2 102.1 0.3 19.2 0.5
      42) EASTERN PART OF HIROSHIMA      MAG=1.1L      S=0.05
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 13.0 16.2 3.2 -0.1 -0.1 17.3 179
KUT E 15.3 I 20.0 4.7 -0.0 -0.1 34.0 307
SHK 17.3 23.5 6.2 -0.0 -0.1 47.4 236
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 23 1 53 20.2 0.2 101.3 0.5 57.1 0.6 16.7 1.0
      36) NEAR TSUGA, SHIMANE      MAG=2.1      S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 24.3 27.4 3.1 -0.1 -0.1 18.6 75
SHK 27.9 33.3 5.4 0.1 -0.1 42.5 172
MKW 29.9 I 37.1 7.2 -0.1 -0.0 56.0 126
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 23 2 25 26.4 0.5 115.3 2.2 71.8 1.7 2.8 5.2
      32) NEAR AKAGI, SHIMANE      MAG=1.0      S=0.26
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 28.0 29.5 1.5 -0.1 0.1 10.0 160
MKW 42.7 42.7 0.0 0.0 56.2 147
SHK 36.1 42.8 6.7 0.2 -0.1 56.9 189
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 24 8 0 36.8 0.2 90.1 0.6 16.5 1.1 4.0 15.3
      10) WESTERN PART OF SHIMANE      MAG=2.0      S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 46.1 E 52.8 6.7 0.0 -0.1 55.5 123
MKW 46.8 I 58.4 10.7 -0.1 0.0 60.7 74
MKW E 51.6 I 62.3 10.7 0.0 -0.1 88.4 104

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 JUL 30 12 9 44.4 0.2  58.9 1.4  -12.9 2.0  33.5 4.6
10) WESTERN PART OF SHIMANE      MAG=2.3B  S=0.15
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
SHK  58.3      68.2  9.9  0.1  -0.1  75.4  89
KUT  62.0      74.8 12.8  0.0  -0.0  99.8  61
MKW  64.3      79.2 14.9 -0.1  0.1 115.4  85
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 1  6 43 21.8 0.3 103.5 1.1  78.2 0.9 10.6 1.7
33) NEAR KUTSUGAHARA      MAG=1.6B  S=0.19
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT  23.6      25.0  1.4 -0.1  -0.2  3.9 307
MKW  29.0      34.6  5.6 -0.2  0.0  42.9 146
SHK  30.0      35.6  5.6  0.2  -0.1  47.0 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 2  2 53 13.3 0.6  73.9 2.4  1.4 2.5 19.8 R
10) WESTERN PART OF SHIMANE      MAG=2.0  S=0.36
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
SHK  24.4      31.9  7.5  0.1  -0.5*  62.9 103
KUT  27.0      31.1 10.1 -0.1  -0.1  80.4  66
MKW  30.5      43.4 12.9  0.1  0.4* 100.9  93
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 4  4 30 38.4 0.4 109.5 1.9  74.3 1.3  4.5 1.5
33) NEAR KUTSUGAHARA      MAG=0.7  S=0.23
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT  39.2      40.1  0.9 -0.2  0.1  3.7 167
MKW  42.3      52.3 10.0  0.0  0.0  50.0 166
SHK  47.2      53.3  6.1  0.1  -0.1  51.7 193
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 4 10 46 16.0 0.2 113.0 0.6 107.6 0.7 13.0 2.0
25) NEAR EROSHI-YAMA      MAG=1.4  S=0.10
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT  22.0      26.3  4.3  0.0  -0.0  33.3 257
MKW  23.8      29.7  5.9 -0.1  0.0  45.4 186
SHK  28.0      36.6  8.6  0.1  -0.0  70.2 219

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 AUG 4 12 48 58.6 0.0 49.4 0.2 62.3 0.2 21.8 0.2
53) NEAR HACHIONWATSU, HIROSHIMA MAG=2.0L S=0.03

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 62.5 65.4 2.9 -0.1 -0.2 9.8 1
MKW 66.7 72.7 6.0 -0.1 -0.1 43.9 65
KUT 68.9 76.4 7.5 -0.0 -0.1 57.9 12

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 AUG 6 20 42 37.6 0.1 61.8 0.4 114.1 0.5 10.9 0.6
44) NEAR FUCHU MAG=1.5 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 40.5 42.5 2.0 -0.0 -0.2 13.5 297
MKW 45.4 52.8 6.4 -0.0 -0.1 51.6 267
KUT 47.5 54.9 7.4 -0.1 -0.0 58.9 318

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 AUG 8 5 33 55.0 0.2 87.0 0.4 85.3 0.4 7.9 2.9
40) MIYOSHI AND SHOBARA MAG=1.8R S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.9 61.5 2.6 0.1 -0.1 21.5 331
MKW 59.3 62.7 3.4 -0.2 -0.0 25.4 158
SHK 61.1 65.6 4.5 -0.0 -0.1 36.0 219

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 AUG 8 17 47 21.5 0.1 80.9 0.3 104.5 0.5 18.3 0.7
42) EASTERN PART OF HIROSHIMA MAG=1.1 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 25.2 28.0 2.8 -0.1 -0.1 13.2 190
KUT 33.8 33.8 0.0 -0.1 -0.1 38.6 310
SHK 30.0 36.1 6.1 0.0 -0.1 47.3 242

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 AUG 10 3 40 37.0 0.2 110.8 0.8 71.2 0.5 0.6 R
33) NEAR KUTSUGAHARA MAG=0.9 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.0 38.8 0.8 -0.1 -0.0 6.3 141
SHK 45.7 52.2 6.5 -0.0 0.1 52.4 189
MKW 46.0 52.3 6.3 0.2 0.0 52.9 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 AUG 12 2 43 56.4 0.3 80.3 0.9 14.4 1.6 19.8 3.8
10) WESTERN PART OF SHIMANE MAG=1.4 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 65.8 72.5 6.7 0.0 -0.1 52.6 113
KUT 76.2 76.2 0.0 -0.1 -0.1 65.9 67
MKW 71.4 82.6 11.2 -0.1 -0.0 88.6 98

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 AUG 13 7 18 14.8 0.3 94.1 0.6 67.0 0.8 15.6 1.7
38) NEAR SAKUGI, HIROSHIMA MAG=1.1 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 18.4 28.7 2.3 0.0 -0.3 14.3 34
SHK 21.1 28.9 4.8 -0.1 -0.1 35.2 187
MKW 22.4 28.2 5.8 -0.2 -0.1 43.8 126

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 13 15 10	49.2 0.3	109.6 1.1	75.5 0.8	8.2 0.9
33) NEAR KUTSUGAHARA				
MAG=1.1 S=0.14				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
KUT	I 50.6	1.2	-0.2	-0.1 3.7 186
MKW	63.7		0.0	49.5 147
SHK	58.1	6.3	0.1	-0.0 52.1 194

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 13 19 4	43.7 0.2	95.8 0.4	66.7 0.5	14.2 1.1
38) NEAR SAKUGI, HIROSHIMA				
MAG=1.0 S=0.10				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
KUT	47.0	2.2	0.0	-0.2 13.1 39
SHK	50.3	4.8	-0.0	-0.0 36.9 186
MKW	51.5	5.9	-0.1	0.0 45.1 128

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 13 19 47	22.5 0.4	-10.3 2.3	57.2 2.2	66.0 3.3
95) EHIME				
MAG=2.2M S=0.19				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
SHK	38.6	11.5	0.1	-0.2 69.7 4
MKW	41.0	54.8	-0.2	90.2 29
KUT	45.6	61.4	15.8	0.6X -0.1 117.6 8

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 14 6 10	24.1 0.5	70.6 2.3	-7.1 2.2	18.2 R
10) WESTERN PART OF SHIMANE				
MAG=1.6 S=0.31				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
SHK	35.9	45.1	9.2	-0.4* -0.1 70.6 99
KUT	29.5	50.3	10.8	0.2 -0.2 89.5 66
MKW	42.8	56.3	13.5	0.2 109.3 91

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 16 11 19	34.3 0.1	80.5 0.2	92.1 0.3	10.0 1.3
42) EASTERN PART OF HIROSHIMA				
MAG=0.9R S=0.08				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
MKW	E 37.4	39.7	2.3	-0.1 16.1 141
KUT	39.7	1 43.5	3.8	0.0 -0.1 30.6 326
SHK	40.5	1 45.2	4.7	-0.1 -0.0 36.5 234

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 16 13 21	10.9 0.3	78.6 0.5	54.7 1.0	18.3 1.7
50) CENTRAL PART OF HIROSHIMA				
MAG=1.3M S=0.16				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
SHK	15.4	19.0	3.6	-0.2 0.0 21.0 158
KUT	17.5	1 22.0	4.5	0.1 -0.1 34.1 36
MKW	19.6	25.9	6.3	0.0 -0.0 48.6 102

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 16 5 3	35.3 0.2	137.6 0.8	111.3 1.2	38.6 1.4
20) CENTRAL SHIMANE-TOTTORI BORDER				
MAG=1.6 S=0.10				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
KUT	45.6	1 53.0	7.4	-0.2 48.1 228
SHK	E 51.9	64.2	12.3	-0.1 70.3 187
MKW	51.9	64.2	12.3	-0.1 92.4 211

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 16 8 5	56.4 0.3	124.7 1.1	106.7 1.3	26.4 2.2
22) NITA,YOKOTA AND NICHINAN				
MAG=2.0 S=0.16				
STATION	TP TS	P-S TP(O-C)	TS(O-C)	DIST AZM
KUT	64.0	69.4	5.4	0.0 -0.1 36.8 239
MKW	66.7	74.6	7.9	-0.2 0.0 57.0 184
SHK	70.4	80.4	10.0	0.1 -0.1 79.0 213

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 17 0 24 45.7 0.1 23.7 0.6 68.6 0.4 19.7 1.1
58) NEAR KURASHIJIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 52.4 57.5 5.1 -0.2 36.0 350
MKW 55.5 62.6 7.1 -0.2 36.0 350
KUT 59.8 70.1 10.3 -0.0 -0.1 55.5 37
      82.5 4
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 18 18 37 11.9 0.5 -0.2 3.4 81.0 3.0 54.6 4.3
95) EHIME
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 25.9 35.7 9.8 0.2 -0.1 34.2
MKW 27.0 37.8 10.8 0.1 -0.1 34.2
KUT 31.5 46.6 15.1 -0.3* 0.2 106.3 336
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 19 22 10 55.0 0.2 114.9 1.1 71.0 0.9 7.1 1.3
32) NEAR AKAGI, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 56.8 58.5 1.7 -0.3 -0.1 9.9 155
SHK 64.5 71.3 6.8 0.0 -0.1 56.4 188
MKW 64.5 71.3 6.8 0.0 -0.1 56.4 146
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 20 2 48 26.5 0.2 98.6 0.6 73.0 0.5 13.0 1.2
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 29.0 30.7 1.7 -0.1 -0.2 7.6 16
SHK 33.5 38.9 5.4 -0.2 0.0 40.8 194
MKW 33.9 39.2 5.3 0.0 -0.1 42.3 136
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 23 3 36 41.0 0.2 104.7 0.6 78.0 0.5 8.0 0.9
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.4 43.3 0.9 -0.1 -0.3 3.1 292
MKW 48.3 53.9 5.6 -0.2 0.0 44.0 146
SHK 49.1 55.0 5.9 -0.0 -0.1 48.1 198
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 23 4 9 17.0 0.1 105.6 0.4 76.4 0.3 7.5 0.4
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.0 3.8 0.8 -0.0 -0.2 1.3 283
MKW 9.4 15.1 5.7 -0.0 0.0 45.6 145
SHK 9.9 15.9 6.0 0.0 0.0 48.5 196
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 23 7 58 37.9 0.1 102.7 0.5 77.3 0.4 7.7 0.9
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.4 40.3 0.9 0.0 -0.2 3.9 325
MKW 45.1 50.5 5.4 -0.0 0.1 42.7 144
SHK 45.7 51.4 5.7 0.0 0.0 46.0 198
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 23 8 25 42.6 0.2 116.0 1.0 97.0 1.0 17.2 2.0
25) NEAR EBOSHI-YAMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 47.7 51.1 3.4 0.1 -0.1 24.1 245
MKW 51.0 57.4 6.4 -0.2 -0.0 48.3 173
SHK 54.0 62.5 8.5 -0.1 0.1 66.5 211
*****

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 25 8 37 21.2 0.3 104.7 1.0 77.9 0.8 7.4 1.5
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.6 I 23.4 0.8 0.0 -0.2 3.0 293
MKW 28.5 I 34.2 5.7 -0.2 0.1 44.0 146
SHK 29.4 I 35.2 5.8 0.1 -0.1 48.1 198
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 23 15 27 28.8 0.2 102.7 0.7 77.3 0.5 8.5 1.8
331 NEAR KUTSUGAHARA
MAG=2.3M S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.3 41.3 5.2 0.0 -0.1 42.7 144
MKW I 36.1 42.3 5.8 -0.1 -0.0 46.0 198
SHK 36.5
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 23 15 38 19.0 0.1 112.3 0.4 72.3 0.4 9.3 0.4
32) NEAR AKAGI, SHIMANE
MAG=1.7 S=0.06
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.9 22.3 1.4 -0.1 -0.1 7.0 156
MKW 28.0 34.7 6.7 -0.1 0.0 53.5 146
SHK 28.2 34.8 6.6 0.1 -0.0 54.0 190
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 24 6 16 0.9 0.1 105.7 0.3 77.7 0.2 7.5 0.6
33) NEAR KUTSUGAHARA
MAG=2.5R S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 2.2 14.1 5.6 -0.0 0.0 45.0 147
MKW 8.5 15.2 6.0 0.0 -0.0 49.0 198
SHK I 9.2
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 25 5 15 18.4 0.1 102.9 0.2 76.4 0.1 4.8 0.4
33) NEAR KUTSUGAHARA
MAG=0.6 S=0.03
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 19.3 I 20.0 0.7 -0.1 -0.2 3.3 336
MKW 26.1 31.0 5.6 0.0 -0.0 43.4 143
SHK 26.1 31.7 5.6 0.0 -0.0 45.9 197
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 27 21 15 14.1 0.6 52.8 3.0 18.4 4.1 38.5 5.4
65) WESTERN PART OF HIROSHIMA
MAG=2.3 S=0.41
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 24.1 30.9 6.8 0.2 -0.3 44.6 81
MKW 28.1 39.3 11.2 -0.5* 0.1 77.7 46
SHK 29.8 40.9 11.1 0.1 -0.2 85.1 79
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 28 5 23 48.7 0.1 124.3 0.6 71.5 0.6 13.8 0.7
30) NEAR TONRARA, SHIMANE
MAG=1.2 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 52.6 55.3 2.7 -0.0 -0.2 18.7 168
MKW E 59.6 67.6 8.0 -0.0 -0.1 64.2 151
SHK 59.8 68.1 8.3 -0.1 -0.0 65.8 187
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1968 AUG 29 3 4 37.0 0.0 104.2 0.1 75.7 0.1 10.9 0.2
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.02
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.8 40.1 1.3 -0.1 -0.2 1.8 340
MKW 44.7 50.3 5.6 -0.0 -0.1 44.9 143
SHK 45.0 50.9 5.9 -0.0 -0.0 46.9 196

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DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 AUG 31	1 42 30.1 0.7	25.1 4.2	44.8 4.4	42.0 4.1
58) NEAR KURASHIJIMA				
MAG=3.6B S=0.46				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	I 42.2	51.3	9.1	0.1
MKW	45.6	57.7	12.1	-0.3*
KUT	48.3	60.6	12.3	0.4*

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 1	13 8 28.7 0.2	128.3 1.1	54.9 1.2	10.6 3.3
8) CENTRAL PART OF SHIMANE				
MAG=1.6 S=0.15				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	33.9	37.9	4.0	-0.1
SHK	E 40.3	49.0	8.7	-0.1
MKW	E 41.7	50.9	9.2	0.1

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 2	0 49 55.2 0.4	52.1 1.3	52.0 1.6	21.3 1.6
55) NEAR HIROSHIMA				
MAG=1.1 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	59.2	62.4	3.2	-0.2
MKW	64.8	71.5	6.7	0.1
KUT	E 73.2			-0.0

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 2	19 3 24.9 0.1	103.4 0.5	74.4 1.0	3.9 R
33) NEAR KUTSUGAHARA				
MAG=0.9 S=0.20				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	25.6	26.2	0.6	-0.1
MKW	31.9	37.9	6.0	-0.1
SHK	32.3	36.3	6.0	-0.3

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 3	10 21 6.7 0.4	51.1 1.7	135.4 2.0	29.8 2.7
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER				
MAG=2.1 S=0.23				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	14.7	20.3	5.6	0.0
SHK	19.6	29.6	10.0	-0.3*
KUT	21.2	31.6	10.4	0.0

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 3 10 28 44.9 0.2 50.9 0.8 138.4 1.0 30.3 1.4
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.2 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 53.3 59.3 6.0 -0.0 -0.2 40.1 233
SHK 58.5 68.6 10.1 -0.1 -0.0 76.3 276
KUT 70.6 83.9 310

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 4 12 38 45.4 0.3 75.9 1.1 140.2 1.6 20.2 3.1
81) NEAR YAKAKE, OKAYAMA MAG=2.3 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 52.5 58.1 5.6 -0.2 0.0 38.9 258
KUT 57.9 66.8 8.9 0.1 -0.1 71.7 294
SHK 59.1 69.0 9.9 0.0 -0.1 79.5 257

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 4 16 44 58.2 0.1 62.5 0.2 133.4 0.3 35.5 0.3
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER MAG=2.2 S=0.03

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 1 66.1 71.9 5.8 -0.1 -0.1 31.7 279
SHK 71.4 81.1 9.7 -0.0 -0.0 71.0 267
KUT E 71.7 81.5 9.8 -0.0 -0.1 72.7 306

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 9 4 8 1.4 0.4 118.5 1.6 104.6 1.7 8.1 8.2
25) NEAR EROSHI-YAMA MAG=0.8 S=0.25

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 7.1 10.8 3.7 0.2 -0.2 32.1 246
MKW E 9.7 16.3 6.6 -0.3 0.1 50.6 182
SHK E 13.6 E 22.5 8.9 -0.0 -0.0 72.7 215

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 10 11 16 18.2 0.0 104.2 0.1 77.0 0.1 6.2 0.2
33) NEAR KUTSUGAHARA MAG=0.6 S=0.02

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 19.3 20.1 0.8 -0.1 -0.1 2.5 312
MKW 31.1 31.1 0.0 0.0 44.1 145
SHK 26.2 32.0 5.8 0.0 0.0 47.3 197

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 11 4 50 28.2 0.3 129.0 1.6 111.1 1.8 13.9 6.2
22) NITA, YOKOTA AND NICHINAN MAG=1.8 S=0.22

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 35.7 41.2 5.5 -0.0 -0.0 42.8 237
MKW 38.6 46.6 8.0 -0.2 0.1 61.7 188
SHK 42.8 53.0 10.2 0.2 -0.1 85.1 214

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 13 1 49 52.7 0.2 94.7 0.8 145.4 1.2 28.1 2.3
86) NEAR TAKAHASHI MAG=1.9 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 62.4 1 69.4 7.0 -0.0 -0.1 50.9 238
KUT 65.5 74.7 9.2 0.0 -0.1 71.2 279
SHK 68.3 80.0 11.7 -0.2 0.0 90.2 246

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 14 14 44 9.2 0.3 65.9 0.8 97.7 1.0 19.1 1.6
42) EASTERN PART OF HIROSHIMA MAG=1.0 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 12.5 14.7 2.2 -0.0 -0.3 4.9 65
SHK E 15.8 20.9 5.1 -0.2 -0.1 35.8 259
KUT E 23.5 45.9 330

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 14 14 55	31.0 0.3	145.1 1.5	104.8 1.4	2.1 R
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.4 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	39.0	I 45.2	6.2	-0.2
MKW	43.7	53.3	9.6	-0.2
SHK	47.2	58.5	11.3	0.2
DIST				95.8
AZM				206

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 14 21 59	54.6 0.1	104.1 0.4	76.9 0.3	8.1 0.6
33) NEAR KUTSUGAHARA MAG=1.0 S=0.07				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	56.0	56.9	0.9	-0.1
MKW	62.0	67.5	5.5	-0.1
SHK	62.5	68.4	5.9	-0.1
DIST				47.2
AZM				197

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 14 22 0	49.8 0.1	104.3 0.2	77.4 0.2	5.8 0.3
33) NEAR KUTSUGAHARA MAG=0.9 S=0.03				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	50.8	51.6	0.8	-0.1
MKW	57.2	62.6	5.4	-0.0
SHK	57.8	63.6	5.8	0.0
DIST				47.5
AZM				198

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 15 3 12	20.9 0.5	147.6 2.3	103.4 2.3	1.4 R
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.5 S=0.32				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	39.0	35.4	6.4	-0.3*
MKW	34.3	43.8	9.5	0.1
SHK	37.5	49.3	11.8	0.4*
DIST				97.4
AZM				204

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 15 4 53	57.1 0.3	39.0 1.3	10.2 1.7	33.1 2.8
70) HIROSHIMA-YAMAGUCHI BORDER MAG=2.0 S=0.15				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	67.9	76.0	8.1	-0.1
KUT	85.7	85.7	0.0	0.0
MKW	74.2	86.5	12.3	0.1
DIST				96.4
AZM				72

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 15 18 2	57.6 0.2	139.6 0.9	100.3 1.0	26.9 1.8
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.7 S=0.11				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	65.9	71.9	6.0	-0.1
MKW	70.2	79.7	9.5	-0.2
SHK	73.1	86.3	11.2	0.0
DIST				88.9
AZM				205

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 15 18 3	48.0 0.3	141.4 1.7	102.2 1.9	26.3 3.6
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=2.1 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	56.6	I 62.9	6.3	-0.1
MKW	60.8	70.6	9.8	-0.2
SHK	64.0	75.3	11.3	0.1
DIST				91.3
AZM				205

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 SEP 16 23 1	19.0 0.1	113.8 0.6	74.1 0.5	7.6 0.6
32) NEAR AKAGI, SHIMANE MAG=0.7 S=0.09				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	20.8	22.1	1.3	-0.1
MKW	28.1	32.6	6.5	0.0
SHK	28.3	35.3	7.0	-0.1
DIST				55.9
AZM				191

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 22 10 31 42.7 0.1 112.1 0.3 84.9 0.2 11.2 0.4

31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.0 S=0.04

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 45.4 I 47.3 1.9 -0.0 -0.1 11.6 237
MKW 50.8 I 56.8 6.0 -0.0 0.0 47.4 158
SHK 52.5 59.6 7.1 0.0 -0.0 57.5 202

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 24 0 47 10.9 0.2 116.0 1.0 49.8 0.9 2.6 R

8) CENTRAL PART OF SHIMANE MAG=1.2 S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.4 18.7 3.3 -0.1 -0.1 27.2 111
SHK 20.7 27.6 6.9 0.1 -0.1 58.3 167
MKW 22.8 31.6 8.8 0.0 0.2 71.1 132

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 25 4 55 51.6 0.3 117.8 1.3 52.9 1.5 14.5 2.8

8) CENTRAL PART OF SHIMANE MAG=2.2 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 56.4 I 59.9 3.5 -0.1 -0.1 25.2 118
SHK 61.9 69.1 7.2 0.1 -0.2 59.4 170
MKW 63.3 72.3 9.0 -0.2 0.0 70.1 135

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 25 8 53 49.5 0.1 124.4 0.5 108.7 0.5 12.8 1.8

22) NITA,YOKOTA AND NICHINAN MAG=1.5K S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 56.2 61.2 5.0 -0.1 -0.0 58.3 241
MKW 59.3 66.3 7.0 0.1 -0.0 58.6 186
SHK 63.0 72.9 9.9 0.0 0.0 79.9 215

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 25 15 20 35.1 0.3 94.1 0.7 96.2 0.8 10.1 2.8

40) MIYOSHI AND SHOBARA MAG=1.3 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.5 42.6 3.1 0.0 -0.1 24.2 299
MKW I 40.0 43.3 3.3 0.1 -0.1 26.8 167
SHK 43.2 I 49.5 6.3 -0.2 0.1 48.5 223

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 SEP 26 15 11 12.6 0.4 133.0 2.1 67.7 2.3 26.5 2.5

7) NEAR KAKEYA, SHIMANE MAG=1.7 S=0.28

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 18.7 23.8 5.1 -0.4* -0.0 28.1 164
SHK 25.7 35.2 9.5 -0.0 -0.1 74.0 184
MKW 25.8 35.0 9.2 0.1 -0.2 73.6 152

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 3	15 54 38.2	0.1	98.0	0.3	75.7	0.3	12.5	0.6	
33) NEAR KUTSUGAHARA									
MAG=1.6 S=0.06									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
KUT	40.7	42.4	1.7	-0.0	-0.2	7.9	355		
MKW	45.2	50.3	5.1	-0.0	-0.0	40.0	138		
SHK	45.3	50.6	5.3	-0.1	-0.0	41.0	198		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 4	1 48.2	0.3	48.0	1.4	130.4	1.5	25.5	2.2	
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER									
MAG=1.5 S=0.18									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
MKW	55.3	60.5	5.2	-0.1	-0.2	34.6	305		
SHK	60.2	69.4	9.2	-0.2	-0.0	68.8	279		
KUT	62.3	72.3	10.0	0.1	-0.2	80.1	316		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 4	23 15.8	0.3	109.5	1.5	74.0	1.0	2.4	R	
33) NEAR KUTSUGAHARA									
MAG=1.3 S=0.19									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
KUT	16.3	30.3	6.0	0.1	-0.0	50.2	165		
MKW	24.3	30.7	6.2	0.1	-0.0	51.6	192		
SHK	24.5	30.7	6.2	0.1	-0.0	51.6	192		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 4	11 56 36.2	0.2	122.7	1.0	67.7	0.9	12.5	1.3	
30) NEAR TONBARA, SHIMANE									
MAG=1.1 S=0.12									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
KUT	39.8	42.6	2.8	-0.1	-0.1	18.4	156		
SHK	47.1	54.9	7.8	0.1	-0.1	63.8	184		
MKW	55.2	55.2			-0.0	64.7	147		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 5	1 36 11.2	0.0	110.9	0.0	78.1	0.0	1.9	0.2	
33) NEAR KUTSUGAHARA									
MAG=1.4 S=0.00									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
KUT	12.2	12.2		-0.0	-0.0	5.8	210		
MKW	19.4	25.4	6.0	-0.0	-0.0	49.2	150		
SHK	20.2	26.8	6.6	-0.0	-0.0	54.0	196		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 5	13 50 34.4	0.2	114.3	0.7	70.5	0.6	7.4	0.8	
32) NEAR AKAGI, SHIMANE									
MAG=1.8 S=0.10									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
KUT	36.3	37.9	1.6	-0.2	-0.1	9.6	151		
SHK	43.8	50.6	6.8	0.0	-0.0	55.7	188		
MKW	43.9	50.7	6.8	0.1	-0.1	56.1	145		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 6	2 24 0.2	0.1	112.4	0.5	68.3	0.5	6.4	0.8	
32) NEAR AKAGI, SHIMANE									
MAG=1.5 S=0.08									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
KUT	2.1	2.4	1.3	-0.0	-0.1	9.4	133		
SHK	9.1	15.8	6.7	-0.1	0.0	53.6	186		
MKW	9.6	16.4	6.8	0.0	-0.0	55.9	142		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 7	10 51 56.4	0.3	114.2	1.2	64.4	1.2	18.8	1.3	
32) NEAR AKAGI, SHIMANE									
MAG=1.6 S=0.18									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
KUT	60.3	62.9	2.6	-0.0	-0.3	13.5	127		
SHK	66.1	73.1	7.0	-0.0	-0.1	55.1	181		
MKW	66.6	74.5	7.9	-0.2	0.0	59.7	140		


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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 9 5 15 48.0 0.1 -1.9 0.4 83.4 0.6 52.4 0.9
MAG=2.3 S=0.09
95) ETIME
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 61.8 71.9 10.0 -0.1 -0.1 64.5 341
MKW E 62.8 73.7 10.9 -0.1 -0.1 64.5 341
KUT 68.0 82.6 14.6 -0.1 -0.1 108.1 355
MAG=2.3 S=0.09
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 9 21 50 6.3 0.5 15.4 2.7 81.8 2.7 56.6 R
MAG=1.5 S=0.33
95) ETIME
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 19.8 29.2 9.4 0.2 -0.2 56.3 21
KUT E 37.5 47.5 10.0 -0.1 -0.1 56.3 21
SHK 18.8 27.5 8.7 0.1 -0.3 47.8 336
MAG=1.5 S=0.33
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 16 20 58 53.9 0.1 96.3 0.3 85.2 0.3 8.3 1.1
MAG=1.2 S=0.06
40) MIYOSHI AND SHOBARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 56.5 58.5 2.0 -0.1 -0.1 13.9 313
MKW E 59.5 63.7 4.2 -0.1 -0.1 33.0 149
SHK 61.3 66.6 5.3 0.0 -0.1 43.5 211
MAG=1.2 S=0.06
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 17 1 50 23.3 0.6 80.6 3.5 170.4 2.0 16.8 3.6
MAG=2.9 S=0.42
100) OUT OF THE MAP
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
OKA 26.5 28.6 2.1 0.1 -0.1 7.8 128
MKW 35.7 44.2 8.5 0.5* 0.3 69.4 259
KUT 39.6 52.4 12.8 -0.4* 0.2 98.6 284
SHK 41.9 55.0 13.1 0.0 -0.4* 110.0 258
MAG=2.9 S=0.42
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 17 11 50 59.9 0.3 92.3 0.7 98.2 0.9 5.7 5.0
MAG=1.2 S=0.18
40) MIYOSHI AND SHOBARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 64.0 67.2 3.2 -0.1 -0.0 24.7 170
KUT 64.3 67.8 3.5 -0.2 -0.0 26.8 300
SHK 68.2 73.9 5.7 0.1 -0.2 48.7 227
MAG=1.2 S=0.18
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 17 22 7 14.7 0.5 114.6 2.2 78.8 1.4 1.1 R
MAG=1.4 S=0.30
32) NEAR AKAGI, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 16.1 E 17.2 1.1 -0.2 -0.3 9.4 203
MKW E 23.2 29.8 6.6 -0.2 0.0 52.2 153
SHK 24.7 31.5 6.8 0.4* 0.1 57.8 196
MAG=1.4 S=0.30
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 17 22 57 37.4 0.1 112.5 0.4 78.2 0.3 2.7 1.0
MAG=1.0 S=0.06
32) NEAR AKAGI, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.6 39.6 1.0 -0.1 -0.1 7.3 205
MKW E 45.8 52.0 6.2 -0.0 -0.0 50.6 151
SHK 46.7 53.4 6.7 0.0 -0.1 55.6 196
MAG=1.0 S=0.06
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1968 OCT 18 12 54 56.0 0.3 104.4 1.1 78.1 0.9 9.0 1.6
MAG=1.0 S=0.18
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 57.6 58.7 1.1 -0.1 -0.2 3.4 296
MKW E 63.3 69.0 5.7 -0.1 0.1 43.7 146
SHK 64.3 70.0 5.7 0.2 -0.1 47.9 199
MAG=1.0 S=0.18

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 19 4 18 55.2 0.2  81.7 0.9      9.6 1.6 22.5 4.1
10) WESTERN PART OF SHIMANE      MAG=1.4  S=0.15
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
SHK E 65.7  73.4  7.7  0.2      0.3*  57.5 113
KUT      67.7  76.7  9.0  0.3      0.3  69.8 69
MKW      71.7  83.2 11.5  0.5*  0.2  93.5 98
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 19 14 40 20.1 0.3  64.9 0.9  49.4 1.2 23.0 1.4
65) WESTERN PART OF HIROSHIMA    MAG=2.3K S=0.18
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
SHK      24.7  27.7  3.0  0.0      -0.3  14.3 113
KUT      28.9  35.5  6.6 -0.2      -0.1  48.4 32
MKW      29.5  36.7  7.2 -0.2      -0.1  52.8 86
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 20 22 27 6.0 0.3  80.4 0.8  30.7 1.6 14.9 4.0
65) WESTERN PART OF HIROSHIMA    MAG=1.2  S=0.19
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
SHK      13.0  17.7  4.7  0.1      -0.2  38.3 123
KUT      14.8  21.4  6.6 -0.1      -0.0  51.2 60
MKW      18.2  27.4  9.2 -0.1      0.0  72.5 99
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 23 9 45 8.3 0.2  86.1 0.4  66.2 0.7 2.2 12.7
50) CENTRAL PART OF HIROSHIMA    MAG=2.0  S=0.15
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
SHK      11.9  14.6  2.7 -0.0      -0.0  21.7 24
KUT      13.0  16.1  3.1  0.1      -0.1  27.2 187
MKW      14.9  20.0  5.1 -0.1      0.1  40.3 116
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 23 17 35 10.4 0.0 104.9 0.1  78.9 0.0 7.6 0.1
33) NEAR KUTSUGAHARA      MAG=1.1  S=0.01
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      11.8  12.8  1.0 -0.1      -0.2  3.9 284
MKW      23.2  24.6  6.0 -0.0      -0.0  43.7 147
SHK      18.6  24.6  6.0 -0.0      -0.0  48.6 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 24 14 23 27.2 0.4 125.6 1.8  53.4 2.0 16.4 3.7
8) CENTRAL PART OF SHIMANE    MAG=2.0  S=0.25
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      33.0  36.7  3.7  0.2      -0.2  29.3 132
SHK      38.5  41.2  8.7 -0.2      0.0  67.1 172
MKW      40.0  43.5  9.5 -0.1      -0.0  75.5 139
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 25 0 52 24.7 0.7 109.5 2.7  69.7 2.2 11.3 3.1
33) NEAR KUTSUGAHARA      MAG=1.5  S=0.35
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      27.0  28.2  1.2  0.1      -0.3*  6.5 123
SHK      33.1  39.8  6.7 -0.1      0.0  50.9 188
MKW      33.3  40.2  6.9 -0.4*  -0.1  52.7 142
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1968 OCT 25 15 20 50.1 0.1 133.6 0.7 117.6 0.7 24.2 1.6
20) CENTRAL SHIMANE-TOTTORI BORDER  MAG=1.8  S=0.07
STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      66.3  66.3  66.3  0.1      -0.1  50.7 236
MKW      62.0  70.8  8.8 -0.1      -0.0  67.5 193
SHK      66.1  77.7 11.6  0.0      -0.1  92.6 216

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DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 26 22 33	40.6 0.0	110.4 0.1	76.0 0.1	4.7 0.2
33) NEAR KUTSUGAHARA MAG=1.8 S=0.01				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	41.7		-0.0	4.6 191
SHK	49.0	55.1	6.1 0.0	49.9 148
MKW	49.5	56.0	6.5 0.0	53.0 194

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 27 3 17	48.9 0.0	63.4 0.0	82.3 0.0	10.9 0.1
50) CENTRAL PART OF HIROSHIMA MAG=0.9 S=0.01				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	52.7	55.5	2.8 -0.1	-0.1 20.2
MKW	52.7	55.5	2.8 -0.1	-0.1 20.3
KUT	56.3	61.7	5.4 -0.0	-0.1 43.1

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 28 2 2	50.2 0.1	96.6 1.1	21.5 0.5	0.9 R
10) WESTERN PART OF SHIMANE MAG=3.1B S=0.17				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
HMD	52.8	54.4	1.6 0.1	-0.1 15.0
KUT	59.3	66.2	6.7 0.0	-0.0 54.4
SHK	59.5	66.2	6.7 0.0	-0.0 55.5
MKW	64.2		-0.3	85.6 109

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 28 4 34	45.4 0.3	89.9 1.2	14.4 2.2	21.1 5.8
10) WESTERN PART OF SHIMANE MAG=1.7 S=0.22				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	55.6	62.9	7.3 0.0	-0.1 57.1
KUT	56.2	64.6	8.4 -0.3	0.0 62.8
MKW	61.0	72.1	11.1 0.1	-0.1 90.4

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 28 9 22	56.9 0.2	11.0 1.7	34.0 1.1	70.2 R
58) NEAR KURASHIJI MA MAG=2.9B S=0.10				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	71.9	82.7	10.8 -0.0	-0.2 56.0
MKW	75.7	86.6	13.9 -0.1	-0.0 88.8
KUT	77.8		0.0	103.4 23

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 28 11 40	6.0 6.6	92.4 2.0	22.6 5.9	23.1 9.8
10) WESTERN PART OF SHIMANE MAG=2.7K S=0.29				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	15.9	23.1	7.2 -0.2	0.1 52.0
KUT	16.6	23.5	6.9 0.2	-0.1 54.2
MKW	21.0		-0.0	83.2 107

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 29 7 32	26.9 0.3	66.1 1.1	119.9 1.5	21.3 1.5
44) NEAR FUCHU MAG=1.5 S=0.20				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	31.3	34.9	3.6 -0.3	-0.1 17.9
SHK	37.3	44.5	7.2 0.1	-0.2 57.8
KUT	37.4	45.2	7.8 -0.1	-0.1 59.9

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 OCT 30 6 32	23.2 0.0	114.0 0.2	69.1 0.1	6.1 0.2
32) NEAR AKAGI, SHIMANE MAG=1.5 S=0.02				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	25.2	26.6	1.4 0.0	-0.1 10.1
SHK	32.5	39.3	6.8 0.0	0.0 55.2
MKW		39.7		56.7 144

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1968 OCT 31 21 13 28.8 0.4  62.0 1.3 110.9 1.7 18.6 1.7
44) NEAR FUCHU
MAG=1.4 S=0.23
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 32.2 35.0 2.8 -0.2 -0.1 10.6 303
SHK 37.6 43.7 6.1 0.1 -0.1 48.5 266
KUT 46.0
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1968 OCT 31 23 57 31.2 0.4 102.6 1.4 79.5 1.2 9.0 2.6
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.25
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.8 34.3 1.5 -0.2 -0.0 5.5 306
MKW E 38.2 43.5 5.3 -0.1 0.0 41.4 146
SHK 39.4 44.8 5.4 0.3 -0.1 46.6 201
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1968 NOV 1 22 28 58.7 0.2 105.5 0.9 78.5 0.7 6.1 1.3
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 59.8 60.7 0.2 -0.1 -0.1 3.4 276
MKW E 66.1 71.7 5.6 -0.1 0.1 44.4 147
SHK I 67.1 72.9 5.8 0.2 -0.1 49.0 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1968 NOV 1 23 11 35.7 0.1 85.6 0.2 68.5 0.4 12.5 1.3
50) CENTRAL PART OF HIROSHIMA
MAG=2.18 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.7 42.8 3.1 -0.2 -0.1 21.4 18
SHK 40.7 44.2 3.5 0.0 -0.2 27.1 192
MKW 42.3 47.2 4.9 -0.1 -0.1 38.0 117
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1968 NOV 4 0 28 14.6 0.1 114.6 0.4 71.2 0.4 9.0 0.4
32) NEAR AKAGI, SHIMANE
MAG=1.1 S=0.06
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 16.8 18.3 1.5 -0.0 -0.2 9.5 155
MKW E 24.0 31.0 7.0 -0.1 0.0 56.0 146
SHK 24.1 31.0 6.9 0.0 -0.0 56.1 188
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1968 NOV 6 17 9 49.3 0.2 106.5 0.7 76.2 0.5 11.7 0.7
33) NEAR KUTSUGAHARA
MAG=1.5 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 51.3 52.6 1.3 -0.0 -0.2 1.2 241
MKW 57.2 63.2 6.0 -0.1 0.0 46.5 146
SHK E 57.8 63.9 6.1 0.0 -0.0 49.3 196

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 7 17 42 44.1 0.0 108.3 0.2 73.3 0.1 6.3 0.1
33) NEAR KUTSUGAHARA MAG=1.3 S=0.02
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 45.2 46.0 0.8 -0.1 -0.2 3.0 142
MKW 20.2 25.0 4.8 -0.2 0.1 33.6 148
SHK 52.5 58.7 6.2 -0.1 -0.0 50.3 192

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 8 0 18 14.3 0.4 96.7 1.0 84.8 1.0 14.9 2.6
40) MIYOSHI AND SHORARA MAG=1.5 S=0.24
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 17.8 19.9 2.1 0.1 -0.3 13.4 313
MKW 20.2 25.0 4.8 -0.2 0.1 33.6 148
SHK 22.0 27.6 5.6 -0.0 -0.0 43.7 210

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 11 13 56 49.7 0.1 116.5 0.5 100.5 0.5 10.2 1.7
25) NEAR EROSHI-YAMA MAG=1.8 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 54.6 58.1 3.5 -0.0 -0.1 27.5 247
MKW 58.0 64.0 6.0 0.0 -0.1 48.6 178
SHK 61.2 69.8 8.6 -0.1 0.0 68.8 213

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 12 17 21 3.5 0.1 76.8 0.6 4.8 0.9 16.7 3.4
10) WESTERN PART OF SHIMANE MAG=1.2 S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 14.0 E 21.5 7.5 0.0 -0.1 60.4 106
KUT 16.4 26.0 9.6 -0.1 -0.0 76.1 67
MKW 20.0 32.1 12.1 -0.0 -0.0 97.7 95

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 13 22 3 29.0 0.1 138.9 0.5 108.2 0.6 26.6 1.4
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.58 S=0.06
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 37.9 44.5 6.6 -0.1 -0.1 46.7 225
MKW 41.7 50.9 9.2 0.0 -0.1 71.2 184
SHK 56.6 56.6 -0.0 -0.0 91.9 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 15 12 40 27.8 0.1 93.9 1.2 20.3 0.6 0.0 R
10) WESTERN PART OF SHIMANE MAG=2.88 S=0.26
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
HMD E 30.2 32.0 1.8 -0.0 -0.0 14.6 291
SHK E 37.5 43.6 6.3 0.3* 0.0 54.7 129
KUT I 37.5 I 44.0 6.5 0.3* 0.0 56.1 77
MKW 42.0 52.5 10.3 -0.1 -0.3 85.8 107

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 16 20 28 52.3 0.3 80.8 0.5 97.6 0.7 14.0 1.9
42) EASTERN PART OF HIROSHIMA MAG=0.6 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 55.4 I 57.9 2.5 -0.2 -0.1 13.6 160
KUT 58.4 62.7 4.3 -0.0 -0.2 33.7 318
SHK 64.8 64.8 -0.1 -0.1 41.2 238

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 18 4 6 58.5 0.1 32.4 0.3 98.1 0.2 17.8 0.8
47) NEAR IKUCHIJIMA MAG=1.3 S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 65.1 I 70.0 4.9 -0.1 -0.1 35.7 6
SHK 66.5 72.3 5.8 -0.0 -0.1 44.5 306
KUT 81.3 81.3 -0.0 -0.0 77.0 342

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 20 3 23 30.2 0.4 104.7 1.4 34.9 2.3 22.7 4.3
8) CENTRAL PART OF SHIMANE MAG=1.5 S=0.27

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.1 43.3 5.2 0.2 -0.3 40.2 88
SHK E 39.7 I 46.9 7.2 -0.2 -0.0 53.3 148
MKW 43.3 53.3 10.0 -0.2 0.0 76.6 118

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 22 7 10 49.7 0.3 109.3 1.2 70.0 1.1 8.7 1.3
33) NEAR KUTSUGAHARA MAG=1.0 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 51.4 52.7 1.3 -0.1 -0.2 6.1 123
SHK 58.1 64.6 6.5 -0.2 0.0 50.7 188
MKW 58.7 64.9 6.2 0.1 -0.1 52.4 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 22 10 40 34.5 0.1 102.6 0.4 75.5 0.9 4.6 R
33) NEAR KUTSUGAHARA MAG=0.8 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 35.4 36.1 0.7 -0.1 -0.1 3.3 353
MKW 47.2 47.2 0.0 0.0 43.7 142
SHK 41.9 47.8 5.9 -0.2 0.1 45.3 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 22 14 35 1.4 0.3 73.2 0.9 32.7 1.7 20.9 2.8
65) WESTERN PART OF HIROSHIMA MAG=1.68 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK I 7.8 12.6 4.8 -0.1 -0.1 33.0 115
KUT 11.1 17.8 6.7 0.1 -0.2 53.6 52
MKW 13.3 22.4 9.1 -0.2 -0.0 69.6 94

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 23 13 0 19.4 0.2 120.9 1.0 97.1 1.0 11.5 2.9
25) NEAR EBOSHI-YAMA MAG=2.2R S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 24.1 27.8 3.7 -0.2 -0.0 26.6 235
MKW 28.6 35.0 6.4 0.1 -0.1 53.2 174
SHK 31.3 I 40.1 8.8 -0.1 -0.0 70.8 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 23 23 6 41.2 0.2 84.3 0.6 39.0 1.2 2.3 R
65) WESTERN PART OF HIROSHIMA MAG=1.0 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 47.0 51.0 4.0 0.0 -0.2 34.4 136
KUT 48.0 55.4 5.4 -0.2 0.0 42.1 59
MKW 52.2 60.0 7.8 0.1 -0.0 65.2 104

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 24 1 6 8.6 0.2 105.7 1.0 60.6 1.0 2.6 R
36) NEAR TSUGA, SHIMANE MAG=2.18 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.1 12.7 1.6 0.0 -0.2 14.5 89
SHK 16.5 21.9 5.4 0.1 -0.2 46.6 177
MKW 18.0 25.0 7.0 0.0 0.2 56.1 132

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 25 1 44 47.7 0.4 138.7 1.0 117.5 2.3 15.7 5.3
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=3.68 S=0.28

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MTS E 53.4 57.4 4.0 0.1 -0.1 30.0 350
KUT 57.2 63.9 6.7 0.2 0.1 59.6 252
MKW I 60.3 69.0 8.7 0.2 0.1 72.4 192
SHK 63.7 74.5 10.8 -0.3* -1.5X 96.7 214

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 25 9 35 13.1 0.6 123.2 2.8 110.8 3.3 41.3 4.2
22) NITA,YOKOTA AND NICHINAN MAG=2.5B S=0.39

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.8 29.4 6.4 0.1 -0.3 39.7 244
MKW 24.8 33.0 8.2 0.1 -0.2 56.0 188
SHK E 27.7 39.3 11.6 -0.5* 0.1 80.2 217

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 25 9 40 16.8 0.2 131.9 0.9 119.4 0.8 1.0 R
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.4 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 25.3 31.7 6.4 -0.1 0.1 51.4 239
MKW 27.8 36.0 8.2 -0.0 0.1 66.3 195
SHK 32.4 43.4 11.0 0.2 -0.1 92.3 218

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 26 20 32 47.5 0.4 133.7 1.8 55.8 2.0 8.6 7.1
8) CENTRAL PART OF SHIMANE MAG=1.9 S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.2 57.6 4.4 -0.1 0.0 33.8 145
SHK I 59.9 I 69.3 9.4 -0.2 0.0 74.8 174
MKW E 61.2 70.7 9.5 0.2 -0.2 80.5 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 26 21 37 49.8 0.2 126.7 0.9 53.8 1.1 10.6 2.9
8) CENTRAL PART OF SHIMANE MAG=2.1B S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.0 58.9 3.9 -0.1 0.1 29.8 134
SHK 61.4 69.6 8.2 0.1 -0.1 68.1 172
MKW 62.5 72.0 9.5 -0.1 0.0 76.1 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 27 5 44 0.4 0.1 91.1 0.3 36.4 0.5 17.3 1.4
65) WESTERN PART OF HIROSHIMA MAG=1.5M S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 7.8 13.3 5.5 -0.1 -0.0 41.3 140
KUT 7.9 13.3 5.4 -0.0 -0.1 41.4 69
MKW 21.1

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 28 9 1 2.7 0.1 113.2 0.4 63.7 0.3 7.2 0.8
32) NEAR AKAGI, SHIMANE MAG=1.1 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 5.3 7.1 1.8 0.0 -0.1 13.5 122
SHK 11.8 I 18.5 6.7 0.0 0.0 54.1 181
MKW 20.0

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 28 15 42 1.0 0.1 111.4 0.4 84.0 0.3 7.6 0.6
31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.5 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.2 4.7 1.5 0.0 -0.1 10.5 238
MKW 14.8 17.5 7.0 -0.0 0.0 47.1 157
SHK 10.5 14.8 7.0 -0.0 0.0 56.5 202

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 NOV 28 20 44 38.7 0.0 101.6 0.1 73.1 0.0 7.1 0.1
33) NEAR KUTSUGAHARA MAG=1.2 S=0.01

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.1 41.1 1.0 -0.1 -0.1 44.8 24
SHK 46.1 51.5 5.4 0.0 -0.0 43.7 193
MKW 46.2 51.7 5.5 -0.0 -0.0 44.5 139

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 NOV 29	2 47 45.4 0.1	101.2 0.5	75.4 1.0	5.9 R
33) NEAR KUTSUGAHARA				
MAG=1.4 S=0.22				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	46.7	47.6	0.9	-0.1
MKW	52.4	58.0	5.6	-0.2
SHK	52.6	58.4	5.8	-0.2
DIST AZM				
				4.7 356
				42.7 141
				44.0 197

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 NOV 29	11 42 14.9 0.2	102.9 0.6	76.6 0.5	11.8 0.9
33) NEAR KUTSUGAHARA				
MAG=0.9 S=0.11				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	17.0	18.3	1.3	0.0
MKW	22.3	27.9	5.6	-0.1
SHK	22.8	28.6	5.8	-0.0
DIST AZM				
				3.1 333
				43.3 143
				46.0 197

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 1	4 24 48.1 0.2	31.4 0.8	94.9 0.5	17.4 2.0
47) NEAR KUCHIJIMA				
MAG=1.4 S=0.10				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	55.0	59.9	4.9	0.0
SHK	55.7	61.4	5.7	-0.1
KUT		70.9		-0.0
DIST AZM				
				37.2 11
				42.6 310
				77.1 345

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 1	22 24 30.6 0.1	-4.1 0.9	66.1 0.8	65.9 1.2
95) EHIME				
MAG=2.1 S=0.33				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	45.8	57.0	11.2	-0.1
MKW	48.0	60.6	12.6	0.0
KUT	52.5	67.7	15.2	0.4
DIST AZM				
				63.4 356
				80.5 26
				110.4 4

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 3	11 33 29.3 0.0	97.6 0.1	23.8 0.1	22.8 0.2
10) WESTERN PART OF SHIMANE				
MAG=1.7 S=0.01				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	38.7	45.6	6.9	-0.1
SHK	39.1	46.3	7.2	-0.1
MKW	43.7	54.3	10.6	-0.1
DIST AZM				
				52.0 80
				54.6 134
				83.8 110

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 3	23 53 57.1 0.1	110.4 0.6	77.1 0.5	12.7 0.5
33) NEAR KUTSUGAHARA				
MAG=1.4 S=0.08				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	59.4	60.9	1.5	-0.0
MKW	65.5	71.8	6.3	-0.1
SHK	66.2	72.9	6.7	-0.0
DIST AZM				
				4.9 203
				49.3 149
				53.3 195


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DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 4 5 40 11.5 0.1 145.4 0.6 54.9 0.7 19.0 1.5
5) NORTHERN PART OF SHIMANE MAG=2.3 S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
YON I 44.4 1 46.1 1.7 -3.5X -5.8X 14.8 19
KUT 53.4 61.3 7.9 0.1 -0.1 58.5 227
MKW 56.5 66.8 10.3 0.0 -0.0 79.1 191
SHK 60.2 73.3 13.1 -0.0 0.0 102.7 212
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 4 8 18 20.1 0.2 110.9 0.8 68.9 0.7 10.6 0.8
32) NEAR AKAGI, SHIMANE MAG=2.1B S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.4 E 23.8 1.2 0.0 -0.2 8.0 128
SHK 28.9 35.5 6.6 -0.1 0.0 52.1 187
MKW 29.3 36.1 6.8 -0.0 0.0 54.3 142
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 5 20 26 46.0 0.3 112.2 1.1 71.8 0.9 10.0 1.0
32) NEAR AKAGI, SHIMANE MAG=1.7 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 48.0 49.4 1.4 -0.1 -0.2 7.1 152
MKW 54.9 61.8 6.9 -0.2 0.0 53.7 145
SHK 55.2 61.7 6.5 0.1 -0.1 53.9 189
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 8 16 22 50.0 0.2 10.4 1.3 40.3 1.5 71.5 R
58) NEAR KURAHASHIJIMA MAG=2.5 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 64.8 75.8 11.0 -0.1 -0.1 53.6 24
MKW E 68.6 81.8 13.2 0.1 -0.2 84.4 47
KUT 70.6 E 85.9 15.3 -0.1 -0.0 101.7 20
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 9 8 34 42.4 0.1 145.4 0.5 118.3 0.6 29.5 1.2
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=2.9B S=0.06
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
YON I 44.4 1 46.1 1.7 -3.5X -5.8X 14.8 19
KUT 53.4 61.3 7.9 0.1 -0.1 58.5 227
MKW 56.5 66.8 10.3 0.0 -0.0 79.1 191
SHK 60.2 73.3 13.1 -0.0 0.0 102.7 212
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 10 1 13 12.3 0.2 112.8 0.9 71.5 0.7 8.5 0.8
32) NEAR AKAGI, SHIMANE MAG=1.2 S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 14.2 15.5 1.3 -0.1 -0.2 7.8 152
MKW 21.3 28.2 6.9 -0.2 0.0 54.3 145
SHK 21.5 28.1 6.6 0.0 -0.1 54.4 189
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 10 2 54 58.5 0.1 112.1 0.5 71.7 0.4 9.8 0.4
32) NEAR AKAGI, SHIMANE MAG=1.2 S=0.06
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 60.4 61.9 1.5 -0.2 -0.2 7.1 151
MKW 67.6 74.2 6.6 -0.0 -0.1 53.6 145
SHK 67.6 74.2 6.6 -0.0 -0.1 53.7 189
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1968 DEC 12 12 19 5.6 0.9 18.5 5.1 49.7 6.3 62.1 9.9
58) NEAR KURAHASHIJIMA MAG=2.6+ S=0.48
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 18.2 33.3 12.1 -0.3 0.2 72.1 46
MKW 21.2 37.3 13.0 0.3 -0.2 91.0 16
KUT 24.3

```

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 14 20	7 27.2 0.3	91.5 1.1	23.4 1.9	19.8 4.7
10) WESTERN PART OF SHIMANE				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	36.3	42.9	6.6	0.0
KUT	36.9	43.6	6.7	0.1
MKW	E 41.1	51.7	10.6	-0.2
DIST AZM				
				50.8 129
				53.7 74
				82.2 106
MAG=2.68 S=0.21				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 16 1	43 12.3 0.3	150.3 1.4	73.4 1.9	1.7 R
5) NORTHERN PART OF SHIMANE				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	19.6	24.9	5.3	-0.1
MKW	26.9	37.6	10.7	0.1
SHK	27.7	39.0	11.3	0.1
DIST AZM				
				44.4 177
				87.2 160
				91.8 186
S=0.21				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 18 6	41 35.6 0.2	86.8 0.7	17.3 1.2	29.4 2.2
10) WESTERN PART OF SHIMANE				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	45.8	53.0	7.2	0.1
KUT	46.8	55.1	8.3	-0.1
MKW	50.8	62.1	11.3	-0.1
DIST AZM				
				53.0 121
				60.9 71
				86.9 102
MAG=1.6 S=0.12				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 19 3	4.2 0.2	82.8 0.9	0.2 1.5	25.1 4.7
10) WESTERN PART OF SHIMANE				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	16.0	24.8	8.8	-0.1
KUT	18.0	27.9	9.9	0.1
MKW	34.8			
DIST AZM				
				66.7 110
				78.4 72
				103.0 98
MAG=1.4 S=0.13				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 19 3	22 40.5 0.3	76.9 0.7	45.8 1.1	28.5 1.5
65) WESTERN PART OF HIROSHIMA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	46.7	51.2	4.5	-0.1
KUT	48.9	54.8	5.9	0.0
MKW	E 50.9	58.9	8.0	-0.2
DIST AZM				
				24.4 136
				41.2 45
				57.0 99
MAG=1.88 S=0.16				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 20 21	12 9.3 0.2	117.3 0.7	48.0 0.7	11.3 2.4
8) CENTRAL PART OF SHIMANE				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	14.5	18.3	3.8	-0.1
SHK	19.5	26.8	7.3	0.0
MKW	21.5	30.7	9.2	-0.2
DIST AZM				
				26.4 112
				39.9 165
				73.3 132
MAG=1.7M S=0.11				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 22 21	4 29.9 0.1	80.2 0.5	89.8 0.5	2.7 R
42) EASTERN PART OF HIROSHIMA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	33.0	34.8	1.8	0.2
KUT		38.4		
SHK	35.7	39.8	4.1	0.0
DIST AZM				
				17.4 154
				29.6 330
				34.5 232
MAG=1.28 S=0.18				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1968 DEC 23 7	46 2.5 0.4	11.4 1.4	55.4 2.5	39.8 2.4
58) NEAR KURASHIJIMA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
HIR	I 11.1	17.3	6.2	0.0
MTY	E 11.2	17.5	6.3	0.0
SHK	13.2		0.2	
MKW	16.4		-0.0	
KUT	19.6	E 29.5	9.9	-0.3*
DIST AZM				
				32.7 332
				33.7 149
				48.3 8
				73.3 39
				96.5 11
MAG=3.5C S=0.24				

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 DEC 23 7 50 57.9 0.3 20.7 1.6 52.4 1.7 49.4 R
MAG=2.2B S=0.20

58) NEAR KURASHIJIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 68.5 E 76.1 7.6 -0.0 -0.2 39.8 14
MKW 71.8 82.4 10.6 -0.2 0.0 68.6 46
KUT 75.0 87.0 12.0 0.2 -0.1 88.2 14

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 DEC 25 2 48 28.9 0.2 128.7 1.0 95.2 1.0 23.2 1.7
MAG=1.9 S=0.14

22) NITAYOKOTA AND NICHINAN
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 35.3 39.8 4.5 -0.0 -0.2 30.4 221
MKW 39.8 47.7 7.9 -0.0 -0.1 61.2 173
SHK 42.1 52.1 10.0 -0.2 0.0 76.8 205

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 DEC 27 16 9 48.8 0.3 72.1 0.5 94.2 0.8 12.7 1.9
MAG=1.1 S=0.14

42) EASTERN PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 51.3 53.3 2.0 -0.1 -0.1 9.0 117
SHK 55.0 59.3 4.3 0.1 -0.1 34.2 247
KUT 60.6 66.6 8.6 0.0 -0.0 38.8 350

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 DEC 27 20 37 57.0 0.2 72.8 0.4 93.2 0.5 11.0 1.5
MAG=0.9B S=0.10

42) EASTERN PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 59.5 61.2 1.7 -0.0 -0.2 10.2 118
SHK 62.8 67.2 4.4 -0.1 -0.0 39.6 246
KUT 68.3 73.7 8.9 0.0 -0.1 37.7 331

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 DEC 27 21 25 23.3 0.1 71.4 0.3 94.4 0.3 15.0 0.8
MAG=1.1 S=0.06

42) EASTERN PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 26.2 28.2 2.0 -0.0 -0.2 8.5 114
SHK 29.5 34.1 4.6 -0.0 -0.0 34.2 248
KUT 35.5 42.1 6.6 0.0 -0.0 39.5 330

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1968 DEC 30 6 46 31.1 0.2 87.7 0.3 83.8 0.3 14.6 1.2
MAG=1.1 S=0.08

40) MIYOSHI AND SHORARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 36.1 39.9 3.8 -0.1 -0.1 20.2 334
MKW 37.5 42.1 4.6 -0.0 -0.1 27.0 137
SHK 42.1 47.7 5.6 0.0 -0.1 35.6 216

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 4 9 45 3.1 1.1 175.8 4.6 114.6 7.2 43.4 4.7
3) NEAR NAKANOUNI, MIHO-WAN MAG=1.9 S=0.60

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB E 12.4 18.8 6.4 0.1 -0.3 34.1 194
MKW 30.0 30.0 0.5X 80.3 209
KUT 37.1 37.1 0.2 108.6 186
SHK 25.5 41.5 16.0 -0.1) -0.6) 127.7 204

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 5 18 16 47.6 0.1 107.2 0.4 81.2 0.8 6.0 R
33) NEAR KUTSUGAHARA MAG=1.2M S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 55.2 60.5 5.3 0.1 -0.1 44.5 151
FUB 54.9 60.2 5.3 -0.0 -0.1 43.4 35
SHK 56.4 62.4 6.0 0.1 -0.2 51.5 201

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 8 0 56 58.6 0.3 108.9 1.9 81.9 3.3 12.4 2.6
33) NEAR KUTSUGAHARA MAG=1.4 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 61.1 62.6 1.5 0.0 -0.3 7.4 246
FUB 65.7 71.2 5.5 -0.2 0.0 41.7 35
SHK E 67.7 74.4 6.7 -0.0 -0.0 53.4 201

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 12 22 35 48.0 0.2 80.0 0.7 14.2 1.5 24.1 3.3
10) WESTERN PART OF SHIMANE MAG=2.0G S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 57.6 64.6 7.0 -0.1 -0.1 52.6 113
KUT 59.8 68.5 8.7 0.1 0.1 66.2 66
MKW E 63.4 70.6 11.2 0.1 0.0 68.7 97
FUB 67.0 80.7 13.7 0.0 -0.2 111.4 55

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 14 20 7 59.7 0.4 62.9 1.7 191.2 3.3 41.5 8.2
100) OUT OF THE MAP S=0.28

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 75.9 88.0 12.1 -0.2 -0.1 89.2 273
FUB 80.5 1 95.4 14.9 0.2 -0.0 116.6 313
KUT 81.0 97.2 16.2 -0.5 -0.2 123.8 290
SHK E 82.4 98.8 16.4 0.1 0.0 128.7 268

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 15 7 23 40.6 0.4 110.0 0.7 74.8 1.3 2.4 37.4
33) NEAR KUTSUGAHARA MAG=1.5 S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 48.3 53.7 5.4 0.1 -0.0 45.4 43
MKW 49.0 54.9 5.9 0.0 -0.2 50.2 147
SHK 49.0 55.7 6.7 -0.3* -0.0 52.3 193

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 17 13 59 14.7 0.3 96.9 0.7 96.3 1.2 13.3 4.0
40) MIYOSHI AND SHORARA MAG=2.0B S=0.34

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 19.6 22.3 2.7 0.4* -0.1 23.0 293
MKW 20.0 E 24.2 4.2 -0.1 0.1 29.6 168
FUB 23.0 28.5 5.5 0.2 -0.3 46.9 12
SHK E 23.5 29.5 6.0 0.1 -0.3* 50.7 221

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JAN 18 5 33 31.6 0.2 104.1 1.0 76.8 1.7 5.2 R
33) NEAR KUTSUGAHARA MAG=0.9 S=0.47

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 33.0 33.8 0.8 0.4* 0.4* 2.5 316
MKW E 33.1 44.9 11.1 0.1 0.5* 44.2 145
SHK 39.1 44.9 5.8 -0.4* -0.4* 47.2 197
FUB 39.4 45.4 6.0 -0.3* -0.3 48.5 37

DATE	ORIGIN TIME			X (KM)	Y (KM)	DEPTH (KM)
	H	M	S			
1969 JAN 21	23	25	48.7	0.1	112.3	0.3
				+/-	+/-	+/-
				82.5	0.5	10.4
						0.9

31) CENTRAL PART OF TAKANO, HIROSHIMA MAG=1.2 S=0.11

STATION	TP	TS	P-S	TP(0-C)	TS(0-C)	DIST	AZM
KUT	51.1	52.7	1.6	-0.0	-0.2	9.8	229
FUB	55.4	60.2	4.8	0.0	-0.0	38.6	37
MKW	56.8	63.1	6.3	0.2	0.1	48.5	156
SHK	58.3	65.4	7.1	-0.0	0.0	56.8	200

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1969 JAN 22	5	47	28.8	0.2	108.5	0.6
					80.2	0.5
						11.0
						0.6

33) NEAR KUTSUGAHARA MAG=1.0F S=0.08

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	I 30.9	32.3	1.4	-0.0	-0.2	5.7	243
MKW		42.5			-0.0	46.1	151
SHK	37.7	44.3	6.6	-0.0	0.0	52.4	199

DATE	ORIGIN TIME		X(KM)	Y(KM)	DEPTH(KM)
	H	M S			
1969 JAN 24	17	21	39.3	170.5	42.9
		55.0	0.9	1.4	3.0

100% OUT OF THE MAP S=0.13

STATION	TP	TS	P-S	TP(0-C)	TS(0-C)	DIST	AZM
MKW	69.4	79.6	10.2	0.1	-0.2	74.1	292
SHK	74.6	88.9	14.3	-0.1	-0.2	109.8	280
KUT	75.6	90.9	15.3	-0.1	0.1	116.3	304
FUB	76.4	92.2	15.8	-0.1	-0.1	121.7	328

[illegible]

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1969 JAN 24 18 33	58.8	0.1		107.6	0.4	
				76.3	0.7	11.4
						0.7

33) NEAR KUTSUGAHARA MAG=1.1 S=0.13

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	60.5	62.1	1.6	-0.3	-0.1	2.1	215
FUB	66.8	72.4	5.6	0.1	-0.1	46.1	40
MKW		72.8			-0.1	47.3	146
SHK	67.4	73.6	6.2	-0.0	-0.1	50.4	195

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1969 JAN 19	5	34	11.5	0.0	109.9	0.1
					74.6	0.3
					2.1	0.9
33) NEAR KUTSUGAHARA						
					MAG=1.88	S=0.05

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	I 12.2					4.0	172
FUB	I 19.1	I 24.6	5.5	-0.0	-0.1	45.6	43
MKH	19.8	26.0	6.2	-0.1	-0.0	50.2	146
SHW	20.2	26.5	6.3	-0.0	-0.1	52.2	193

DATE	ORIGIN TIME		X(KM)	Y(KM)	DEPTH(KM)				
	H	M S				+/-	+/-		
1969 JAN 20	4 14	33.5	0.4	123.2	0.9	125.9	1.7	7.6	7.5

83) NORTHERN HIROSHIMA—OKAYAMA BORDER MAG=1.7 S=0.24

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
FUB	38.3	41.7	3.4	0.0	-0.1	27.7	314
KUT	42.7	49.3	6.6	0.2	0.1	53.7	251
MKW		51.1			0.1	60.2	203
SHK	48.5	59.3	10.8	-0.1	-0.3*	90.1	224

壹
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玖
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DATE		ORIGIN TIME		X(KM)	Y(KM)	DEPTH(KM)					
H	M	S	+/-	+/-	+/-	+/-					
1969	JAN 20	21	22	24.1	0.7	77.7	1.8	115.8	2.8	21.8	4.1

42) EASTERN PART OF HIROSHIMA

MAG=1.6K S=0.52

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	29.0	32.1	3.1	0.3	-0.0	16.8	234
KUT	34.4	40.3	5.9	1.3X	0.5X	49.5	304
SHK	34.4	41.1	6.7	0.2	-0.5*	56.4	250
FUR	35.8	43.7	7.9	0.2	-0.4*	65.7	351

[illegible]

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S			
1969 JAN 21	20	19	19.6	49.5	64.8	30.3
	0	3		1.0	0.8	1.1

531 NEAR HACHIONMATSU-HIROSHIMA

MAG=1.1M S=0.16

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
SHK	24.9	28.7	3.8	-0.1	-0.2	9.9	346
MKN	28.0	34.5	6.5	-0.2	-0.0	41.6	63
KUT	E 30.5	38.2	7.7	0.1	-0.2	57.3	10

DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 25 0 44 53.8 0.4 110.7 0.8 103.5 1.4 14.3 4.5
 25) NEAR EROSHI-YAMA
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 KUT E 59.5 63.3 3.8 0.3* 0.2 28.8 260
 FUB E 59.7 63.8 4.1 0.0 -0.2 32.1 4
 MKW E 61.6 66.9 5.3 0.3 0.0 42.8 181
 SHK 65.1 72.8 7.7 0.1 -0.5* 65.9 218

 DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 25 7 48 33.5 0.5 112.8 2.0 69.5 1.7 11.6 2.1
 32) NEAR AKAGI, SHIMANE
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 KUT 36.1 37.6 1.5 0.1 -0.2 8.9 140
 SHK E 42.6 49.6 7.0 -0.1 0.1 54.1 187
 MKW 49.9 49.9 0.0 0.0 0.0 55.5 143

 DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 25 10 12 27.2 0.4 96.9 0.9 99.0 1.6 7.8 11.3
 40) MIYOSHI AND SHORARA
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 KUT 32.0 34.8 2.8 0.3* -0.1 25.5 290
 MKW 32.3 34.3 0.1 0.0 0.0 29.1 173
 FUB I 34.9 40.8 5.9 -0.1 0.0 46.4 8
 SHK 42.4 42.4 -0.1 0.0 0.0 52.5 224

 DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 26 19 34.1 0.1 110.5 0.4 93.7 0.5 0.3 R
 27) HIWA, HIROSHIMA
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 KUT 39.6 44.0 4.1 0.0 -0.0 19.2 256
 FUB 39.9 44.0 0.1 0.0 -0.0 34.6 21
 SHK 51.4 51.4 0.0 0.0 -0.0 60.1 211

 DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 28 16 10 18.6 0.5 -6.5 1.6 58.0 3.0 43.7 2.5
 95) EHIME
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 MTW E 26.3 I 32.3 6.0 -0.2 18.8 128
 HIR E 30.1 I 37.7 7.6 0.4* -0.1 50.2 359
 SHK 31.6 41.1 9.5 -0.2 -0.3* 65.8 3
 MKW I 35.0 38.4 54.1 15.7 -0.5X 86.5 30
 KUT 38.4 54.1 15.7 -0.5X 113.7 8
 FUB E 43.9 54.1 15.7 -1.8 156.8 17
 MAG=3.18 S=0.39

 DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 28 22 26 41.4 0.4 51.7 1.4 31.9 1.4 1.3 0.0
 65) WESTERN PART OF HIROSHIMA
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 SHK 46.5 50.4 3.9 -0.2 -0.1 31.5 76
 MKW E 53.7 62.2 8.5 0.3 -0.0 72.1 76
 KUT 52.8 61.5 8.7 -0.2 0.1 69.3 38

 DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 29 6 10 25.3 0.1 106.5 0.2 75.6 0.6 4.4 0.6
 33) NEAR KUTSUGAHARA
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 KUT 26.0 33.1 38.9 5.8 -0.0 0.0 46.8 145
 MKW 33.1 39.1 39.1 0.0 0.0 47.4 40
 FUB 33.5 39.6 6.1 -0.0 0.1 49.1 195
 SHK 33.5 39.6 6.1 -0.0 0.1 49.1 195

 DATE ORIGIN TIME H M S +/- X(KM) Y(KM) DEPTH(KM) +/-
 1969 JAN 29 18 31 46.9 0.4 104.5 2.7 79.2 5.0 4.4 7.0
 33) NEAR KUTSUGAHARA
 STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
 KUT 48.1 48.7 0.6 0.1 -0.1 4.3 288
 FUB 60.5 60.5 0.0 0.0 0.0 46.8 35
 SHK 54.9 61.0 6.1 -0.1 0.1 48.3 200
 S=0.18

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1969 JAN 31 8 14 46.0 0.7 90.7 1.4 83.2 2.5 13.9 6.5
40) MIYOSHI AND SHORARA MAG=1.1 S=0.65

STATION TP TS P-S TPI(O-C) TS(O-C) DIST AZM
KUT 50.2 52.4 2.2 0.5* -0.1 17.2 331
MKW 55.6 57.3 2.2 0.5* -0.1 29.6 140
SHK E 57.3 59.0 2.2 0.5* -0.1 37.7 213
FUB 56.1 62.3 6.2 0.3* -0.6X 56.9 23

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1969 JAN 31 17 10 34.6 0.2 105.3 0.9 80.8 1.1 5.2 0.0
33) NEAR KUTSUGAHARA MAG=0.8 S=0.41

STATION TP TS P-S TPI(O-C) TS(O-C) DIST AZM
KUT 36.2 37.0 0.8 0.3 0.1 5.7 26
MKW 42.0 47.5 5.5 0.2 0.4* 43.0 150
FUB 47.5 48.6 6.0 -0.3* -0.2 43.2 34
SHK 42.6 48.6 6.0 -0.3* -0.4* 49.6 201

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1969 FEB 1 4 25 49.3 1.0 -2.6 5.6 32.1 5.7 30.5 14.0
70) HIROSHIMA-YAMAGUCHI BORDER MAG=1.3 S=0.51

STATION TP TS P-S TPI(O-C) TS(O-C) DIST AZM
SHK E 61.6 71.3 9.7 -0.3* 0.2 68.9 26
MKW E 67.0 79.2 12.2 0.3* -0.2 99.4 44
KUT 84.2 84.2 -0.0 116.8 21

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1969 FEB 1 23 10 33.2 0.3 119.2 1.1 78.9 1.7 10.6 2.5
30) NEAR TONBARA, SHIMANE MAG=0.9 S=0.32

STATION TP TS P-S TPI(O-C) TS(O-C) DIST AZM
KUT 36.6 38.2 1.6 0.5* -0.1 13.8 195
FUB 39.4 44.0 4.6 -0.1 -0.1 36.1 49
MKW 43.0 49.8 6.8 0.2 0.0 56.3 155
SHK 43.8 51.1 7.5 0.1 -0.3* 62.2 195

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1969 FEB 2 3 40 11.0 0.2 7.9 0.7 55.5 0.8 0.1 R
58) NEAR KURAHASHIJIMA MAG=2.08 S=0.09

STATION TP TS P-S TPI(O-C) TS(O-C) DIST AZM
SHK 19.7 23.9 6.2 0.1 -0.0 51.7 7
MKW 23.7 32.0 9.3 0.0 0.1 76.0 37
KUT 40.0 46.0 6.0 0.1 99.9 11
FUB 33.8 51.3 17.5 -1.2 -1.3 144.0 20

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1969 FEB 2 16 4 22.3 0.3 143.0 1.1 118.7 1.5 1.5 0.0
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=2.68 S=0.23

STATION TP TS P-S TPI(O-C) TS(O-C) DIST AZM
FUB 24.3 24.3 -0.1 12.5 268
KUT 31.8 39.0 7.2 -0.0 0.2 57.2 229
MKW 1 35.0 44.6 9.6 -0.1 0.1 76.9 192
SHK 39.3 51.1 11.8 0.2 -0.3* 100.9 213

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 4 13 25 4.8 0.3 105.4 0.7 76.7 14.4 11.6 2.8
33) NEAR KUTSUGAHARA
MAG=1.98 S=0.28
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 6.8 18.2 5.4 0.2 -0.1 1.7 287
MKW 12.8 18.2 5.4 0.2 -0.1 45.3 145
FUB 13.0 E 18.7 5.7 0.0 -0.3 47.6 38
SHK 13.2 18.8 5.6 0.1 -0.4* 48.4 197
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 4 13 31 13.2 0.0 105.0 0.1 78.2 0.2 11.3 0.4
33) NEAR KUTSUGAHARA
MAG=1.78 S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.1 26.3 5.5 -0.0 -0.1 3.2 286
MKW 20.8 27.1 5.9 -0.1 -0.1 44.1 147
FUB 21.2 27.1 5.9 -0.1 -0.1 47.0 36
SHK 21.5 27.5 6.0 -0.0 -0.1 48.5 198
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 7 21 1 34.2 0.4 126.7 1.1 103.8 1.5 17.0 4.0
22) NITA,YOKOTA AND NICHINAN
MAG=2.0 S=0.28
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 37.9 -0.2 -0.2 16.2 8
KUT I 41.0 I 45.5 4.5 0.2 -0.1 35.4 234
MKW 44.4 51.9 7.5 -0.0 0.0 58.8 181
SHK 47.6 57.2 9.6 -0.1 -0.4* 79.2 211
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 8 4 3 48.8 0.3 117.4 1.1 43.9 2.2 7.9 9.8
8) CENTRAL PART OF SHIMANE
MAG=1.3 S=0.28
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 54.5 58.8 4.3 -0.0 0.1 33.3 110
SHK 58.9 66.4 7.5 -0.2 -0.2 61.1 162
FUB 60.2 68.0 7.8 0.1 -0.4* 67.3 67
MKW 61.9 70.9 9.0 0.3 -0.1 76.4 130
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 8 11 42 54.5 0.1 113.7 0.5 70.8 0.9 1.2 R
32) NEAR AKAGI, SHIMANE
MAG=1.4 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 62.3 64.6 5.3 0.2 -0.1 45.8 50
SHK 63.8 70.3 6.5 0.1 -0.1 55.2 188
MKW E 63.7 70.6 6.9 -0.0 0.1 55.5 145
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 11 20 13 46.8 0.4 95.8 1.4 22.2 3.0 29.0 5.4
10) WESTERN PART OF SHIMANE
MAG=2.08 S=0.33
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 57.4 64.4 7.0 0.4* -0.1 53.9 79
SHK 57.1 74.3 7.2 -0.0 -0.4* 54.5 132
MKW E 61.1 72.8 11.3 -0.2 0.1 84.6 109
FUB 63.3 73.6 12.3 -0.3 -0.2 96.2 60
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 11 21 33 27.4 0.1 104.6 0.6 86.3 0.8 4.5 R
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 29.6 30.7 1.1 0.2 -0.2 11.3 276
FUB 32.8 39.8 3.0 0.1 -0.1 43.0 27
SHK 35.9 42.2 6.3 -0.1 -0.1 51.3 207
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 FEB 12 7 49 10.5 0.7 107.3 4.9 80.5 8.3 12.7 6.1
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.36
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 12.5 14.5 2.0 -0.4* -0.1 5.6 255
FUB 23.6 23.6 6.1 0.2 -0.2 51.4 200
SHK 19.5 25.6 6.1 0.2 -0.2 51.4 200

```


DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 FEB 17 5 43 21.8 0.2 9.8 1.0 120.1 1.1 31.7 2.4
MAG=1.9M S=0.13

95) EHTIME

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 33.2 41.6 8.4 -0.1 -0.0 60.8 342
SHK 35.5 45.4 9.9 -0.0 -0.2 75.8 310
KUT 53.9 53.9 0.1 106.1 334
FUB 44.7 61.3 16.6 0.0 -0.2 133.6 354

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 FEB 17 22 30 30.0 0.2 47.6 1.0 122.1 1.1 20.7 1.6
MAG=1.4 S=0.13

80) SOUTHERN HIROSHIMA-OKAYAMA BORDER

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 35.9 40.0 4.1 -0.0 -0.2 28.5 315
SHK 40.5 48.5 8.0 -0.2 -0.0 60.7 280
FUB E 46.4 58.4 12.0 -0.0 -0.1 96.4 350

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 FEB 18 6 57 11.9 0.4 98.8 1.2 199.7 1.2 15.3 6.0
MAG=4.3J S=0.50

100) OUT OF THE MAP

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
OKA I 18.5 I 22.0 3.5 0.6* -0.3* 32.7 265
HIM I 20.8 I 26.3 5.5 0.3 -0.6* 49.5 96
TKM I 23.0 I 31.1 8.1 0.1 0.1 64.5 186
TOT I 24.5 I 32.6 8.1 0.8* 0.2 102.3 252
MKW 28.7 28.7 0.0 102.3 205
FUB 28.9 28.9 -0.4* 124.8 273
KUT E 35.1 35.1 0.2* -2.9 142.8 253
SHK 34.5 E 50.5 16.0

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 FEB 13 6 42 22.2 0.3 81.9 0.7 72.0 1.1 16.1 2.9
MAG=0.9B S=0.30

50) CENTRAL PART OF HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 27.2 30.7 3.5 0.1 0.1 24.2 7
SHK 27.1 30.4 3.3 -0.0 -0.3* 24.6 202
MKW 28.5 32.8 4.3 0.1 -0.1 33.2 114
FUB 34.2 42.4 8.2 0.1 -0.5* 69.8 29

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 FEB 13 12 28 8.6 0.5 53.4 1.5 120.9 0.8 21.7 4.8
MAG=2.8B S=0.33

80) SOUTHERN HIROSHIMA-OKAYAMA BORDER

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 13.6 26.8 7.8 -0.4* 0.1 58.7 275
SHK 19.0 27.2 8.0 0.2 60.0 68
OKA 27.2 27.2 0.0 0.2 69.7 318
KUT E 21.0 E 30.0 9.0 0.2 0.3* 69.7 318
FUB 23.9 35.3 11.4 -0.2 -0.2 90.5 350

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 FEB 15 12 0 40.6 0.3 58.4 1.4 187.0 2.7 35.6 7.3
MAG=2.4B S=0.23

100) OUT OF THE MAP

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW E 55.8 67.5 11.7 -0.2 0.2 85.4 276
FUB E 60.9 75.8 14.9 -0.1 -0.0 116.7 186
KUT 62.0 77.2 15.2 0.3 0.0 121.6 293
SHK E 62.3 77.8 15.5 0.1 -0.2 124.5 270

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 FEB 15 16 8 23.0 0.3 109.6 1.2 75.5 2.6 1.7 0.0
MAG=1.0F S=0.41

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.7 34.3 5.6 -0.0 0.2 3.7 186
FUB E 30.7 36.3 5.6 0.2 45.2 142
MKW E 32.0 E 37.3 5.3 0.8* 45.5 147
SHK 31.8 52.1 194

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 20 1 43 26.8 0.1 73.5 0.4 80.5 0.3 18.6 10.0
50) CENTRAL PART OF HIROSHIMA
MAG=1.5B S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 31.6 35.1 3.5 -0.1 -0.1 22.3 194
SHK 31.6 35.1 3.7 -0.2 -0.1 23.0 231
FUB 39.5 48.7 9.2 0.0 -0.1 73.8 20
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 20 15 42 0.7 0.2 106.8 0.6 75.1 1.1 9.9 1.0
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 2.0 E 3.6 1.6 -0.4* -0.1 0.9 179
MKW 14.6 14.6 5.9 0.0 -0.1 47.3 145
FUB 8.8 14.7 5.9 0.0 -0.0 47.5 40
SHK 9.2 15.1 5.9 0.1 -0.1 49.3 194
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 20 16 56 1.2 0.1 105.2 0.4 76.8 0.7 12.5 0.7
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 3.3 4.8 1.5 -0.1 -0.1 1.8 292
MKW E 9.1 14.7 5.6 0.1 -0.0 45.1 145
SHK 9.6 15.4 5.8 0.1 -0.2 48.2 197
FUB 9.5 15.3 5.8 0.1 -0.1 47.7 38
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 25 0 34 39.5 0.3 36.7 1.2 16.2 1.6 27.5 2.8
70) HIROSHIMA-YAMAGUCHI BORDER
MAG=1.0 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 49.3 56.3 7.0 0.1 -0.1 51.5 64
KUT 66.9 67.1 11.8 -0.1 0.0 90.9 40
MKW E 55.3 67.1 11.8 -0.1 0.0 91.4 70
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 25 17 11 46.1 0.5 72.0 1.4 128.8 2.3 20.3 3.8
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER
MAG=1.6 S=0.35
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 51.8 55.9 4.1 0.0 -0.0 27.0 261
KUT 37.7 65.6 7.9 0.5* 0.2 63.5 302
SHK 37.7 65.2 8.5 -0.2 -0.3 67.5 259
FUB 59.0 68.0 9.0 0.1 -0.3* 74.2 342
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 26 5 51 4.0 0.1 79.3 0.4 8.9 0.9 21.8 2.3
10) WESTERN PART OF SHIMANE
MAG=1.9B S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 14.3 21.7 7.4 0.1 -0.0 57.3 110
KUT 16.5 25.5 9.0 0.0 -0.1 71.4 68
MKW E 20.0 21.9 11.9 -0.1 0.0 93.9 96
FUB 38.2 38.2 0.1 116.2 56
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 26 9 2 41.8 0.5 118.5 1.1 102.5 1.6 11.5 5.9
25) NEAR EBOSHI-YAMA
MAG=1.4 S=0.35
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 46.2 49.6 3.4 -0.1 -0.0 24.5 8
KUT 47.7 51.0 3.3 0.5X -0.1 30.1 245
MKW 53.8 56.9 8.7 -0.1 -0.2 50.6 180
SHK 53.8 62.5 8.7 -0.1 -0.2 71.6 213
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1969 FEB 26 11 26 14.7 0.6 118.6 1.1 98.3 1.9 18.4 6.5
25) NEAR EBOSHI-YAMA
MAG=2.6B S=0.32
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 19.8 19.8 -0.1 -0.1 25.4 18
KUT 20.3 20.3 0.2 0.2 26.4 241
MKW 24.0 30.2 6.2 0.3 -0.1 50.8 175
SHK 26.5 35.3 8.8 -0.2 -0.1 69.4 211

```

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 11 35 19.5 0.4 119.7 1.2 101.3 1.6 13.6 4.9
25) NEAR EROSHI-YAMA MAG=1.6 S=0.36

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 24.2 27.1 2.9 0.2 -0.3 23.5 12
KUT 25.3 29.0 3.7 0.3* 0.1 29.6 242
MKW 28.7 35.0 6.3 0.3 0.0 51.8 179
SHK 31.4 40.3 8.9 -0.3* -0.3* 71.9 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 11 57 5.0 0.6 117.6 1.1 97.7 1.9 15.3 7.7
25) NEAR EROSHI-YAMA MAG=2.18 S=0.34

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 10.2 10.2 0.2 -0.2 25.4 232
KUT 19.9 19.9 0.2 -0.2 25.4 232
MKW 13.9 120.0 6.1 0.2 -0.1 49.9 174
SHK 116.6 24.9 8.3 -0.1 -0.3 68.2 211

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 11 58 57.1 0.5 118.8 1.4 98.9 1.9 4.1 17.7
25) NEAR EROSHI-YAMA MAG=1.88 S=0.42

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 61.7 64.1 2.4 0.4* -0.3* 25.0 17
KUT 65.3 65.3 0.3 0.3 27.1 241
MKW 65.8 72.0 6.2 0.2 0.1 51.0 176
SHK 68.8 76.9 8.1 0.0 -0.4* 69.9 211

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 12 16 7.1 0.5 118.6 1.3 100.8 1.9 15.9 5.1
25) NEAR EROSHI-YAMA MAG=1.5 S=0.42

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 12.1 15.2 3.1 0.1 -0.4* 24.7 12
KUT 12.9 16.6 3.7 0.3* -0.0 28.7 243
MKW 16.2 22.4 6.2 0.2 -0.1 50.7 178
SHK 18.8 27.5 8.7 -0.4* -0.5X 70.7 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 12 18 19.4 0.3 118.5 4.5 103.9 0.7 11.1 3.8
25) NEAR EROSHI-YAMA MAG=1.1M S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 23.9 27.0 3.1 0.0 -0.1 24.3 5
KUT 24.8 29.0 4.2 -0.2 -0.1 31.4 246
MKW 34.3 34.3 0.0 0.0 -0.1 50.6 182

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 12 20 27.2 0.3 118.8 0.9 102.3 1.2 12.0 4.3
25) NEAR EROSHI-YAMA MAG=1.2 S=0.28

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 31.7 34.9 3.2 -0.0 -0.1 24.2 9
KUT 32.8 36.7 3.9 0.2 0.1 30.1 244
MKW 36.2 42.3 6.1 0.3 -0.0 50.9 180
SHK 39.3 47.8 8.5 -0.0 -0.4* 71.7 213

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 12 48 1.9 0.3 118.0 0.8 99.3 1.2 11.9 4.0
25) NEAR EROSHI-YAMA MAG=1.9 S=0.28

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 6.7 9.9 3.2 0.1 -0.2 25.7 15
KUT 7.0 10.6 3.6 0.2 0.1 27.0 243
MKW 13.7 16.8 3.1 0.2 0.1 50.2 176
SHK 13.6 21.8 8.2 -0.0 -0.4* 69.4 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 FEB 26 12 50 41.9 0.3 118.7 0.7 102.1 0.9 7.2 5.3
25) NEAR EROSHI-YAMA MAG=1.8 S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 46.2 49.1 2.9 0.1 -0.1 24.4 9
KUT 47.3 50.8 3.5 0.3 0.0 29.9 244
MKW 50.5 56.8 6.3 0.0 0.1 50.8 179
SHK 53.8 62.4 8.6 -0.1 -0.3 71.5 213

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 FEB 27 11 46 31.2	0.1	112.4	0.4	66.0
				0.7
				9.8
				1.7

32) NEAR AKAGI, SHIMANE MAG=2.08 S=0.12

STATION	TP	TS	P-S TP(O-C)	TS(O-C)	DIST	AZM
KUT	33.7	45.9	6.0	0.1	11.2	125
FUB	39.9	46.8	6.6	-0.1	50.4	53
SHK	40.2	48.0	7.1	0.0	53.4	183
MKW	40.9				57.3	140

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 FEB 27 11 46 58.3	0.2	112.7	0.6	67.9
				1.2
				0.7
				R

32) NEAR AKAGI, SHIMANE MAG=1.6 S=0.20

STATION	TP	TS	P-S TP(O-C)	TS(O-C)	DIST	AZM
KUT	59.7	72.3	5.8	0.1	9.9	133
FUB	66.5	73.7	6.3	0.1	48.7	51
SHK	67.4	74.7			53.8	185
MKW					56.4	142

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 FEB 27 21 48 24.7	0.3	89.3	1.0	9.9
				2.0
				34.9
				3.7

10) WESTERN PART OF SHIMANE MAG=1.88 S=0.20

STATION	TP	TS	P-S TP(O-C)	TS(O-C)	DIST	AZM
SHK	36.6	44.7	8.1	0.2	60.6	119
KUT	37.2	46.7	9.5	-0.2	67.3	75
MKW	41.6	53.8	12.2	0.1	94.7	103
FUB	43.8	58.1	14.3	-0.2	110.1	61

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 FEB 28 9 11 23.1	0.0	118.3	0.0	98.6
				0.1
				6.5
				0.5

25) NEAR EBOSHI-YAMA MAG=1.7 S=0.01

STATION	TP	TS	P-S TP(O-C)	TS(O-C)	DIST	AZM
FUB	27.5	30.7	3.2	-0.0	25.6	17
MKW		37.8		-0.0	50.5	176
SHK	34.7	43.2	8.5	-0.0	69.3	211

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 FEB 28 22 42 56.4	0.1	113.8	0.2	71.7
				0.4
				4.2
				R

32) NEAR AKAGI, SHIMANE MAG=2.28 S=0.08

STATION	TP	TS	P-S TP(O-C)	TS(O-C)	DIST	AZM
FUB	61.9	67.4	5.5	-0.0	55.0	50
MKW	63.6	70.3	6.7	-0.0	55.0	146
SHK	63.7	70.3	6.6	0.0	55.4	189

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 1 8 40 56.7 0.5 118.4 1.3 100.7 1.9 14.9 5.4
25) NEAR EROSHI-YAMA
MAG=1.04 S=0.43

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB I 61.6 64.8 3.2 0.0 -0.3* 24.9 12
KUT 62.5 66.1 3.6 0.4* 0.1 28.5 243
MKW 65.7 72.0 6.3 0.2 0.1 50.5 178
SHK E 68.6 76.9 8.3 -0.1 -0.6X 70.5 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 3 5 17 21.4 0.2 90.7 0.4 80.6 0.5 10.4 3.5
40) MIYOSHI AND SHOBARA
MAG=1.48 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 26.8 30.9 4.1 -0.1 -0.1 31.3 136
SHK 27.6 32.3 4.7 -0.1 -0.0 36.4 209
FUB 31.3 36.3 7.0 0.1 -0.1 58.0 26

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 4 2 37 13.7 0.2 127.3 0.8 61.6 1.3 11.6 2.9
8) CENTRAL PART OF SHIMANE
MAG=1.6 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 18.5 21.7 3.2 0.1 -0.1 25.3 147
FUB 21.7 27.6 5.9 -0.1 -0.1 47.2 70
SHK 25.2 33.4 8.2 -0.0 -0.3 68.2 179
MKW E 26.0 34.7 8.7 0.2 -0.0 71.9 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 4 22 49 2.9 0.0 105.2 0.1 76.2 0.3 7.1 0.5
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 4.0 16.1 5.6 -0.1 -0.1 45.4 145
MKW E 10.5 16.9 6.0 -0.1 -0.0 48.0 38
FUB 10.9 16.8 5.8 0.0 -0.1 48.0 196
SHK 11.0 16.8 5.8 0.0 -0.1 48.0 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 4 23 0 32.7 0.1 105.8 0.3 76.0 0.6 4.7 1.0
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.4 46.1 5.9 -0.2 0.0 0.9 276
MKW E 40.2 46.1 5.9 -0.2 0.0 46.0 145
FUB E 40.7 46.5 5.8 0.0 -0.0 47.7 39
SHK 40.8 46.8 6.0 -0.0 0.0 48.6 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 14 4 29 42.3 0.1 106.5 0.3 82.4 0.6 13.3 0.9
33) NEAR KUTSUGAHARA
MAG=1.5 S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 46.6 46.6 5.5 -0.1 -0.1 43.3 265
FUB 49.8 55.3 5.5 -0.1 -0.1 43.3 33
MKW 49.9 55.3 5.4 0.0 -0.1 43.3 152
SHK 51.2 57.4 6.2 0.0 -0.2 51.3 202

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 14 4 33 1.4 0.2 17.1 1.1 49.1 1.1 59.9 1.1
58) NEAR KURAHASHIJIMA
MAG=2.98 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 13.8 22.7 8.9 -0.0 -0.2 44.1 17
MKW 17.0 28.7 11.7 -0.2 -0.1 73.4 46
KUT 19.7 33.1 13.4 -0.1 -0.2 92.5 16
FUB E 25.7 43.2 17.5 -0.8 -1.6 138.0 24

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 15 20 33 47.7 0.1 59.6 0.7 -7.8 1.0 37.3 1.9
10) WESTERN PART OF SHIMANE
MAG=2.38 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 61.0 70.6 9.6 0.0 -0.1 70.3 90
KUT 64.7 77.1 12.4 -0.0 -0.1 95.0 60
MKW E 67.0 81.3 14.3 -0.1 -0.0 110.2 85
FUB E 71.5 88.9 17.4 -0.5 -0.9 141.1 53

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 15 20 42 54.9 0.3 59.3 1.4 -5.5 1.9 43.3 3.3
101 WESTERN PART OF SHIMANE MAG=2.2 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 68.3 78.1 9.8 -0.1 -0.1 68.0 90
KUT 72.1 84.4 12.3 0.1 -0.2 93.1 59
MKW 74.1 88.5 14.4 -0.2 -0.0 108.0 85
FUB E 80.4 96.2 15.8 1.21 -0.9 139.4 53

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 16 4 55 1.7 0.4 117.5 1.1 102.8 1.6 11.1 6.4
251 NEAR EROSHI-YAMA MAG=1.98 S=0.38

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 6.3 9.5 3.2 -0.0 -0.2 25.4 7
KUT 7.4 10.9 3.5 0.3* -0.1 30.0 247
MKW 10.3 16.4 6.1 0.1 0.0 49.6 180
SHK 13.5 1 21.8 8.3 -0.2 -0.6X 70.9 214

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 16 22 3 20.0 0.5 119.7 1.3 101.1 1.9 16.2 4.7
251 NEAR EROSHI-YAMA MAG=1.2 S=0.41

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB I 24.8 28.2 3.4 0.0 -0.1 23.6 12
KUT 26.0 29.7 3.7 0.4* -0.0 29.4 242
MKW 29.4 35.6 6.2 0.3* -0.1 51.8 178
SHK 31.8 40.4 8.6 -0.5* -0.9X 71.8 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 18 2 6 27.0 0.4 74.7 1.5 136.5 0.8 10.7 7.5
81) NEAR YAKAKE-OKAYAMA MAG=2.5 S=0.41

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 33.3 37.6 4.3 0.2 -0.0 35.0 258
KUT 39.1 43.4 4.2 0.2 -0.0 38.9 296
FUB 39.6 48.4 8.8 0.1 -0.3* 74.4 336
SHK 39.7 48.5 8.8 -0.0 -0.6X 75.6 258
OKA I 33.5 I 39.1 5.6 -0.4* 0.1 40.1 88

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 19 4 12 14.4 0.1 78.7 0.4 103.4 0.6 12.5 1.0
42) EASTERN PART OF HIROSHIMA MAG=2.68 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 17.1 E 19.1 2.0 -0.1 -0.1 10.9 186
KUT 21.2 27.9 5.6 0.1 -0.1 39.3 313
SHK 22.5 33.3 8.1 -0.1 -0.1 45.3 244
FUB 25.2 E 34.5 8.2 -0.5* -1.3X 73.2 92
OKA 26.3 E 34.5 8.2 -0.5* -1.3X 73.2 92

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 20 19 46 28.5 0.4 78.5 1.6 6.8 3.3 35.1 5.5
101 WESTERN PART OF SHIMANE MAG=2.08 S=0.29

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 40.0 48.0 8.0 0.0 -0.4* 59.0 109
KUT 45.0 53.3 8.3 0.0 -0.4* 73.6 68
MKW E 45.6 58.3 12.4 0.1 -0.0 95.9 96
FUB E 48.9 63.9 15.0 -0.2 -0.3 118.4 57

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 21 13 27 25.8 0.1 107.8 0.2 72.3 0.4 4.2 0.8
33) NEAR KUTSUGAHARA MAG=1.0 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 26.6 39.9 6.0 -0.0 -0.0 3.4 124
FUB 33.9 40.2 6.2 -0.1 0.0 48.7 144
SHK 34.0 40.2 6.2 -0.1 0.0 49.6 191
MKW 34.0 40.2 6.2 -0.1 -0.0 49.8 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 22 0 24 18.6 0.5 161.4 2.4 89.7 2.7 11.6 6.7
5) NORTHERN PART OF SHIMANE MAG=2.4 S=0.36

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 23.1 26.5 3.4 -0.1 -0.1 25.0 138
KUT 28.8 35.7 6.9 0.4* 0.2 57.4 194
MKW E 34.6 46.2 11.6 0.2 0.2 94.3 172
SHK E 36.0 49.0 13.0 -0.3* -0.3* 105.8 194

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 30 8 22 11.4 0.0 111.8 0.3 85.4 0.3 1.2 R

31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.7 S=0.11

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	13.3	14.9	1.6	-0.1	0.0	11.9	240
FUB	17.8	22.1	4.3	0.2	-0.1	37.3	33
MKW	19.2	25.0	5.8	-0.0	0.0	47.0	159
SHK	21.1	28.0	6.9	0.1	0.0	57.4	203

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 30 12 6 26.0 0.3 113.2 1.4 82.7 2.4 8.2 3.2

31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.5 S=0.25

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	27.9	29.9	2.0	-0.4*	-0.0	10.5	226
FUB	32.6	37.1	4.5	0.2	-0.1	37.7	38
MKW	34.2			-0.1		49.3	156
SHK	35.6	43.0	7.4	-0.1	0.2	57.7	200

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 30 17 3 53.3 0.1 109.4 0.4 69.8 0.8 8.8 1.5

33) NEAR KUTSUGAHARA MAG=1.1 S=0.14

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	55.2	67.7	5.9	0.1	-0.1	49.4	47
FUB	61.8	68.1	6.1	0.1	-0.1	50.8	188
SHK	62.0	68.8	6.7	-0.1	0.1	52.6	142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 24 6 19 24.4 0.1 111.5 0.3 80.8 0.5 11.6 1.0

33) NEAR KUTSUGAHARA MAG=1.2 S=0.11

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	26.7			-0.1		8.0	225
FUB	31.4	36.4	5.0	0.0	-0.1	40.3	39
MKW	32.8	38.7	5.9	0.1	-0.1	48.5	153
SHK	33.7	40.7	7.0	-0.2	-0.1	55.4	199

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 25 10 30 34.6 0.7 106.5 0.2 77.9 0.4 9.5 0.7

33) NEAR KUTSUGAHARA MAG=1.4 S=0.07

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	36.2			-0.1		2.9	258
MKW	42.3	48.0	5.7	-0.1	-0.1	45.6	147
FUB	42.4	48.1	5.7	-0.0	-0.1	46.0	38
SHK	43.1	49.1	6.0	0.0	-0.1	49.8	197

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 26 4 4 57.9 0.1 75.8 0.2 103.6 0.3 15.9 0.5

42) EASTERN PART OF HIROSHIMA MAG=2.28 S=0.07

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	60.9	62.9	2.0	-0.0	-0.2	8.0	190
KUT	65.3	70.7	5.4	-0.0	-0.1	41.5	316
SHK	65.7	71.4	5.7	-0.1	-0.1	44.3	247
FUB	69.3	77.7	8.4	-0.1	-0.1	67.0	2

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAR 28 12 19 45.9 0.1 105.7 0.4 75.6 0.6 6.8 1.1

33) NEAR KUTSUGAHARA MAG=1.98 S=0.13

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	47.0			-0.1		0.5	292
MKW	53.8	59.2	5.4	0.1	-0.2	46.2	144
FUB	54.0	59.9	5.9	0.0	-0.0	48.0	139
SHK	54.0	59.8	5.8	-0.0	-0.2	48.3	195

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 1 15 17 37.4 0.5 113.5 2.1 73.3 3.4 8.5 R
32) NEAR AKAGI, SHIMANE
MAG=1.4 S=0.59
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.9 41.2 1.3 0.5X 0.4* 7.8 166
FUB 50.1 50.1 0.3 0.4 0.4 44.0 48
MKW 53.0 53.0 0.2 0.2 0.2 53.9 147
SHK E 46.5 53.1 6.6 -0.2 -0.5* 55.4 191
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 4 1 23 43.2 0.1 106.8 0.2 76.6 0.4 9.2 0.4
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 44.8 45.8 1.0 -0.0 -0.2 1.7 239
MKW 56.9 56.9 5.8 -0.0 -0.0 46.5 146
FUB 51.1 56.9 5.8 -0.0 -0.0 46.6 39
SHK 51.7 57.7 6.0 0.1 -0.1 49.7 196
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 4 5 32 0.5 0.2 115.1 0.8 69.6 1.4 9.4 1.7
32) NEAR AKAGI, SHIMANE
MAG=1.6 S=0.24
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.1 4.5 1.4 0.2 -0.2 10.7 149
FUB 8.4 13.8 5.4 0.1 -0.2 45.9 53
SHK 10.1 16.7 6.0 0.1 -0.3* 56.4 187
MKW 10.3 17.3 7.0 0.1 0.0 57.3 145
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 4 5 42 46.4 0.5 60.6 1.7 48.4 2.5 19.0 2.8
65) WESTERN PART OF HIROSHIMA
MAG=1.8R S=0.39
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.2 53.1 2.7 -0.2 -0.2 14.2 95
SHK 54.1 62.8 6.7 0.4* 0.2 52.6 30
MKW 56.2 65.0 6.8 0.2 -0.0 54.2 82
FUB 63.0 75.6 12.6 -0.4* -0.3* 100.4 35
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 4 20 31 38.7 0.2 90.7 0.4 84.6 0.5 12.1 1.6
40) MIYOSHI AND SHORARA
MAG=1.4B S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.4 44.9 2.5 0.1 -0.1 18.9 328
MKW 43.9 47.7 3.8 -0.0 -0.0 28.7 142
SHK 45.6 50.2 4.6 0.2 -0.2 38.5 214
FUB 48.2 50.2 4.6 -0.1 -0.1 36.3 22
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 6 5 20 16.2 0.2 90.2 0.5 85.5 0.5 8.0 3.0
40) MIYOSHI AND SHORARA
MAG=1.2 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 19.6 22.1 2.5 -0.0 -0.0 18.8 326
MKW E 20.9 24.6 3.7 -0.1 -0.0 27.8 143
SHK 22.9 27.5 4.6 0.1 -0.1 38.6 216
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 8 6 22 15.4 0.2 107.1 2.0 75.5 3.8 6.7 1.0
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.15
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 16.5 17.3 0.8 -0.1 -0.2 1.3 198
FUB 23.2 29.2 6.0 -0.1 0.1 47.0 40
SHK 23.9 29.8 5.9 0.1 -0.1 49.7 195
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 8 13 33 8.0 0.1 100.5 0.2 73.3 0.3 14.3 0.4
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.4 13.1 1.7 -0.0 -0.2 5.7 18
SHK E 16.3 21.7 5.4 -0.0 -0.1 42.7 194
MKW E 16.4 22.0 5.6 -0.0 -0.0 43.5 138
FUB 18.0 24.7 6.7 -0.0 -0.1 53.5 37

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 8 15 3 17.5 0.1 90.1 0.1 34.6 0.3 19.4 0.6
65) WESTERN PART OF HIROSHIMA      MAG=1.6 S=0.04
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
SHK 25.1 30.7 5.6 -0.1 -0.1 41.7 137
KUT 25.4 31.2 5.8 -0.1 -0.1 43.5 68
MKW 29.8 38.7 8.9 0.0 -0.1 71.1 108
FUB 32.6 43.7 11.1 -0.1 -0.1 88.9 53
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 10 15 15 49.7 0.1 101.3 0.5 71.9 0.9 13.2 0.9
33) NEAR KUTSUGAHARA      MAG=1.9M S=0.18
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT 52.1 53.8 1.7 -0.0 -0.1 5.6 34
SHK 57.4 E 62.5 5.1 0.2 -0.3 43.2 192
MKW 57.7 63.2 5.5 0.2 -0.1 45.0 137
FUB 59.9 65.6 6.7 -0.0 -0.1 53.8 39
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 11 18 37 19.9 0.5 57.4 1.4 66.6 1.4 33.2 2.3
53) NEAR HACHITHONMATSU,HIROSHIMA      MAG=0.9 S=0.26
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
SHK 25.6 29.4 3.8 0.1 -0.3 4.4 293
MKW 28.0 I 34.3 6.3 -0.2 -0.0 37.0 73
KUT E 37.0 49.2 9
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 12 3 42 47.2 0.1 71.1 0.1 94.5 0.2 15.7 0.3
42) EASTERN PART OF HIROSHIMA      MAG=1.2 S=0.03
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
MKW 50.1 52.2 2.1 -0.1 -0.2 8.3 112
SHK 58.0 59.4 4.6 -0.1 -0.1 36.1 249
KUT 59.5
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 12 3 49 22.7 0.4 84.4 1.4 25.4 2.8 28.0 4.7
65) WESTERN PART OF HIROSHIMA      MAG=1.68 S=0.33
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
SHK 31.7 38.0 6.3 0.2 -0.0 44.9 124
KUT 32.5 40.0 7.5 -0.4* -0.3* 54.2 66
MKW 36.2 46.7 10.5 -0.4* -0.1 78.5 102
FUB 40.1 52.8 12.7 0.1 0.2 99.7 54
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 12 14 32 25.1 0.4 44.2 1.5 130.9 2.0 21.6 4.0
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER      MAG=2.1 S=0.27
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
MKW 32.1 37.6 5.5 -0.2 0.0 37.3 309
SHK 37.4 46.0 8.6 0.1 -0.3 70.0 202
KUT 50.1 54.8 12.3 0.1 0.2 83.2 311
FUB E 42.5 54.8 12.3 0.1 -0.3 101.5 345
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 12 21 12 40.4 0.1 105.0 0.4 76.7 0.8 10.6 0.8
33) NEAR KUTSUGAHARA      MAG=2.0M S=0.16
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.2 43.4 1.2 -0.0 -0.2 1.8 259
MKW 48.0 53.8 5.7 -0.1 -0.0 45.0 145
FUB 48.7 54.4 5.7 0.1 -0.2 47.9 38
SHK 48.7 54.4 5.7 0.1 -0.2 48.0 197
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1969 APR 13 1 22 34.5 0.1 104.9 0.4 76.4 0.7 11.7 0.7
33) NEAR KUTSUGAHARA      MAG=1.0 S=0.13
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.1 37.8 5.9 -0.2 0.0 1.6 307
MKW 42.1 I 48.0 5.9 -0.2 0.0 45.0 145
SHK 42.8 48.7 6.2 -0.1 0.1 47.8 196
FUB E 42.7 48.9 6.2 -0.1 0.1 48.2 38

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 13 5 17 52.4 0.1 28.0 0.6 6.2 0.8 21.3 2.2
70) HIROSHIMA-YAMAGUCHI BORDER      MAG=1.4 S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 63.7 71.9 8.2 -0.0 -0.1 64.4 61
MKW 70.0 83.0 13.0 -0.1 -0.0 103.9 67
KUT 83.0 83.0 104.0 41
FUB 77.7 95.9 18.2 -0.31 -0.9 152.2 41
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 13 12 5 12.9 0.2 112.2 0.7 75.4 1.3 6.0 3.0
32) NEAR AKAGI, SHIMANE      MAG=1.6 S=0.23
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 14.3 25.7 5.7 -0.2 0.2 43.4 182
FUB 20.0 28.0 6.6 -0.2 0.1 51.7 148
SHK 22.3 28.7 6.4 0.2 -0.1 54.6 193
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 15 6 16 59.9 0.6 45.0 2.4 96.5 2.0 26.1 3.2
47) NEAR IKUCHIJIMA      MAG=2.3B S=0.44
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 65.9 70.0 4.1 0.1 -0.1 23.6 13
SHK 67.5 72.6 5.1 0.1 -0.4* 36.8 292
KUT 72.3 80.5 8.2 0.8X 0.5* 64.6 340
FUB 76.8 88.8 12.0 -0.0 -0.4* 98.2 5
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 16 2 45 33.7 0.5 1.6 2.7 61.9 3.3 60.7 3.0
95) EHIME      MAG=2.5B S=0.35
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 47.9 57.4 9.5 0.2 -0.5X 57.6 0
MKW 50.0 62.2 12.2 -0.1 0.0 77.6 31
KUT 54.0 69.0 15.0 0.0 0.2 105.1 7
FUB 60.0 79.7 19.7 -0.4 -0.2 147.9 17
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 17 22 31 48.1 0.4 91.4 1.3 16.9 1.9 1.9 R
10) WESTERN PART OF SHIMANE      MAG=1.5 S=0.30
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 57.5 64.1 6.6 0.1 -0.1 55.9 125
KUT 58.2 65.1 7.0 0.1 0.1 60.0 76
MKW 63.0 73.7 10.7 0.4* 0.1 88.4 105
FUB 64.9 76.9 12.0 -0.4* -0.9X 103.0 60
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 18 12 48 42.2 0.3 103.8 2.2 83.4 3.9 9.0 5.8
33) NEAR KUTSUGAHARA      MAG=1.1 S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 44.4 45.6 1.2 0.1 -0.3 8.6 284
FUB 49.8 55.5 5.7 -0.1 0.0 45.1 30
SHK 50.4 56.7 6.3 -0.2 0.0 49.3 205
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 18 15 46 48.2 0.2 117.2 0.6 74.8 1.0 10.6 2.6
32) NEAR AKAGI, SHIMANE      MAG=2.1B S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.9 60.2 5.0 0.0 -0.1 40.5 50
FUB 57.9 64.8 6.9 0.1 0.0 56.3 150
SHK 58.4 65.4 7.0 0.1 -0.2 59.3 191
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 APR 18 19 4 8.1 0.1 116.1 0.5 74.3 0.8 9.7 0.9
32) NEAR AKAGI, SHIMANE      MAG=1.5 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 10.5 12.0 1.5 0.0 -0.2 10.2 175
FUB 15.2 20.3 5.1 0.0 -0.1 41.6 50
MKW 17.6 24.3 6.7 0.1 -0.1 55.6 149
SHK 17.7 25.1 7.4 -0.2 -0.0 58.2 191

```

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 19 2 42 47.1 0.1 133.4 0.5 103.9 0.8 3.1 R
MAG=1.9 S=0.14
22) NITA,YOKOTA AND NICHINAN

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 48.7 82.6 12.0 -0.1 39.8 226 14
KUT 53.9 58.5 4.6 0.1 -0.1 39.8 226 14
MKW 58.0 46.0 8.6 -0.0 0.1 -0.0 65.5 181
SHK E 60.3 70.5 10.2 -1.0X -1.2X 85.0 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 21 8 16 55.5 0.2 -14.2 1.5 48.0 1.4 62.0 2.0
MAG=3.1B S=0.12
95) EHIME

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 71.6 82.6 12.0 -0.1 0.0 74.8 11
KUT 75.9 82.0 14.0 0.1 -0.1 98.4 33
MKW E 76.5 95.3 16.8 -0.0 -0.0 123.1 12
FUB 106.2 -0.8 167.4 20

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 23 19 2 21.0 0.5 -12.8 3.9 43.7 3.8 56.4 5.6
MAG=3.1B S=0.33
95) EHIME

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
HIR E 34.2 42.8 8.6 0.3 -0.6X 53.3 356
SHK E 36.8 47.7 10.9 0.2 -0.3 74.4 14
MKW 40.0 54.0 14.0 -0.1 -0.1 99.6 35
KUT E 43.2 60.1 16.9 -0.3 0.1 122.8 14
FUB E 49.1 70.4 21.3 -1.4 -1.7 167.6 21

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 23 22 35 24.7 0.3 128.3 1.0 110.1 1.3 11.4 3.5
MAG=2.0 S=0.24
22) NITA,YOKOTA AND NICHINAN

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB I 27.9 E 29.9 2.0 0.1 -0.3 14.9 344
KUT 31.9 37.3 5.4 0.0 0.1 41.5 237
MKW 35.1 I 42.6 7.5 0.1 -0.0 60.9 187
SHK E 38.6 I 48.8 10.2 -0.2 -0.4* 83.9 214

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 24 7 23 46.3 1.0 66.9 2.4 27.8 5.0 24.7 6.9
MAG=1.5L S=0.51
65) WESTERN PART OF HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 53.5 58.5 5.0 -0.0 -0.3* 35.6 102
KUT 65.8 65.8 0.4* 61.3 50
MKW 59.4 69.0 9.6 0.0 0.1 74.3 89
FUB 78.1 -0.5* 109.1 45

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 27 4 57 59.6 0.4 84.3 1.2 9.1 2.4 9.4 15.5
MAG=1.5 S=0.24
101) WESTERN PART OF SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 69.4 76.9 7.5 -0.2 0.0 59.0 115
KUT 71.1 79.9 8.8 -0.2 0.1 69.5 71
MKW E 75.7 86.8 11.1 0.3 -0.2 94.5 99
FUB 92.4 -0.0 113.3 58

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 29 2 22 23.1 0.3 113.8 0.7 73.2 1.4 12.2 1.4
MAG=1.1 S=0.22
32) NEAR AKAGI, SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 25.7 27.2 1.5 0.1 -0.2 8.1 166
FUB 30.8 36.1 5.3 0.1 -0.2 43.9 48
MKW 39.2 39.2 0.0 54.2 147
SHK I 39.4 -0.2 55.7 191

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 29 6 52 54.9 0.1 107.6 0.3 72.4 0.5 5.6 0.5
MAG=0.8 S=0.10
33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.9 56.7 0.8 -0.1 -0.1 3.2 122
FUB 63.2 69.0 5.8 0.1 -0.1 48.8 43
SHK E 63.1 69.3 6.2 -0.1 0.0 49.4 191
MKW E 69.3 -0.0 49.6 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 APR 30 3 47 58.8 0.7 74.7 1.6 58.3 2.7 22.6 3.9
50) CENTRAL PART OF HIROSHIMA MAG=1.5M S=0.50

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 63.4 66.5 3.1 -0.1 -0.4* 16.1 164
KUT 66.4 71.2 4.8 0.6X 0.2 35.4 28
MKW 67.3 73.3 6.0 0.2 0.1 44.3 98
FUB E 72.9 83.1 10.2 -0.3 -0.6X 83.2 35

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAY 3 0 56 27.0 0.2 104.3 0.6 77.9 0.9 13.7 1.2
33) NEAR KUTSUGAHARA MAG=1.3 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 29.5 30.9 0.4 0.1 -0.3 3.2 299
MKW E 34.7 40.2 5.5 0.1 -0.0 43.7 146
SHK 35.3 41.1 5.8 0.0 -0.2 47.7 198
FUB 41.2 -0.1 47.7 36

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAY 6 19 28 16.9 0.0 108.8 0.1 75.6 0.3 8.0 0.2
33) NEAR KUTSUGAHARA MAG=1.2 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 18.3 19.2 0.9 -0.1 -0.3 2.9 189
FUB 24.6 30.2 5.6 -0.0 -0.1 45.7 42
MKW 25.1 31.1 6.0 -0.0 -0.1 48.7 147
SHK 25.5 31.8 6.3 -0.1 -0.1 51.3 194

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAY 7 6 48 52.4 0.2 72.2 0.7 157.0 1.3 30.9 2.6
81) NEAR YAKAKE,OKAYAMA MAG=1.8 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 62.8 70.7 7.9 -0.1 0.0 55.0 265
FUB 67.7 79.0 11.3 -0.1 -0.0 85.0 285
KUT E 68.2 79.5 11.3 0.1 -0.0 88.6 324
SHK 69.2 81.2 12.0 0.1 -0.2 95.4 262

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 MAY 11 1 53 11.4 0.2 -1.2 1.1 88.3 0.8 4.0 17.8
95) EHIME MAG=2.1 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 22.3 30.4 8.1 -0.1 0.0 65.6 336
MKW 23.1 31.8 8.7 -0.1 0.0 70.5 11
KUT 29.5 42.5 13.0 0.1 -0.1 107.9 352
FUB 35.2 52.7 17.5 -0.4 -0.6 145.0 7

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 11 21 12 3.8 0.1 38.0 0.7 99.5 0.5 19.0 1.0
MAG=1.1 S=0.09
47) NEAR IKUCHIJIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 9.8 14.0 4.2 0.0 -0.1 30.0 5
SHK 11.5 17.3 5.8 -0.1 0.0 42.6 299
FUB E 21.6 34.6 13.0 0.0 0.0 104.9 3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 12 15 57 31.1 0.0 105.6 0.2 77.3 0.3 3.4 0.4
MAG=0.9 S=0.05
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 31.7 32.2 0.5 -0.1 -0.2 2.2 277
MKW E 38.7 44.1 5.4 0.1 -0.1 45.1 146
FUB 44.7 46.7 2.0 0.0 -0.0 47.1 37
SHK 39.2 45.2 6.0 -0.0 -0.0 48.7 197
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 16 2 0 28.6 0.2 101.7 0.6 93.4 0.6 8.0 2.2
MAG=1.5 S=0.12
40) MIYOSHI AND SHORARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.0 34.5 2.5 -0.0 -0.0 18.8 282
MKW 34.5 39.0 4.5 -0.1 0.0 34.9 165
SHK E 37.6 43.9 6.3 0.1 -0.1 52.6 215
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 16 21 2 7.3 0.1 107.7 0.3 70.3 0.3 7.1 0.4
MAG=0.9 S=0.04
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 8.7 9.7 1.0 -0.1 -0.2 5.1 110
SHK 15.5 21.6 6.1 -0.1 -0.1 49.2 189
MKW 22.1 28.1 6.6 -0.1 -0.1 50.9 141
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 21 16 27 4.4 0.2 54.1 0.6 53.8 0.6 19.3 0.6
MAG=2.7 S=0.10
55) NEAR HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 8.1 E 10.6 2.5 0.0 -0.2 10.1 59
HIR F 7.6 9.8 2.2 -1.3X -2.5X 19.2 224
MKW 13.3 E 20.0 6.7 -0.1 0.0 50.3 74
KUT 14.3 21.5 7.2 0.0 -0.0 56.0 22
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 22 0 26 31.4 0.3 131.5 1.6 4.8 2.3 39.3 4.6
MAG=2.48 S=0.18
1) OFF COAST OF SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 45.6 55.6 10.0 0.1 -0.2 74.8 110
SHK E 48.0 60.4 12.4 -0.2 -0.1 92.5 141
MKW E 51.7 66.8 15.1 -0.2 -0.1 116.2 123
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 22 0 27 48.4 0.2 136.0 1.1 3.4 1.7 20.0 6.7
MAG=2.2 S=0.13
1) OFF COAST OF SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 61.6 71.6 10.0 -0.2 -0.0 77.8 112
SHK 64.9 76.9 12.0 -0.0 -0.1 97.0 142
MKW 68.7 83.4 14.7 0.0 -0.1 119.9 124
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 23 19 53 36.9 0.4 110.4 1.8 71.1 1.5 12.3 1.7
MAG=1.4 S=0.27
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.3 40.6 1.3 0.1 -0.3* 6.0 138
SHK 45.5 52.4 6.9 -0.3* 0.1 52.0 189
MKW 45.9 52.4 6.5 -0.0 -0.1 52.6 143

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 28 11 53 1.8 0.1 107.2 0.2 77.4 0.2 10.9 0.3
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.03
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.6 4.9 1.3 -0.1 -0.2 2.6 260
MKW 15.5 28.2 4.0 -0.1 -0.1 46.4 167
SHK E 10.3 16.6 6.3 -0.1 -0.1 50.3 197
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 30 11 31 18.9 0.2 84.3 0.3 97.5 0.5 8.7 1.7
42) EASTERN PART OF HIROSHIMA
MAG=0.7 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.0 24.4 2.4 -0.1 -0.1 17.0 164
MKW 24.2 28.2 4.0 -0.1 -0.1 31.1 313
SHK 26.3 31.5 5.2 0.1 -0.1 43.1 234
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 MAY 30 21 50 10.4 0.0 100.0 0.0 75.0 0.0 12.0 0.0
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.00
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 12.6 14.2 1.6 -0.1 -0.1 5.9 1
MKW 23.0 23.0 -0.0 42.0 139
SHK 17.8 23.2 5.4 -0.0 -0.0 42.7 196
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUN 1 9 56 32.8 0.1 143.9 0.3 107.1 0.4 25.1 0.8
20) CENTRAL SHIMANE-TOTTORI BORDER
MAG=1.5 S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.0 48.8 6.8 -0.1 -0.1 49.7 220
MKW 46.1 55.9 9.8 -0.1 -0.1 76.1 183
SHK 49.3 61.3 12.0 -0.0 -0.1 95.8 207
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUN 1 11 33 46.2 0.1 49.3 0.3 50.7 0.3 19.3 0.3
55) NEAR HIROSHIMA
MAG=1.9R S=0.05
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.3 53.2 2.9 -0.1 -0.2 15.4 50
MKW E 55.8 62.6 7.1 -0.1 -0.1 54.7 70
KUT 56.9 64.8 7.9 -0.1 -0.1 61.6 23
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUN 2 10 50 48.7 0.4 132.9 2.2 64.8 2.2 6.3 9.0
7) NEAR KAKEYA, SHIMANE
MAG=1.7 S=0.28
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.4 57.4 4.0 -0.2 0.1 28.9 159
SHK E 61.1 70.1 9.0 0.1 0.0 73.8 181
MKW E 61.5 70.3 8.8 0.3 -0.1 74.9 150
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUN 2 23 48 28.8 0.1 83.9 0.5 124.8 0.7 28.1 0.9
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER
MAG=2.1R S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 35.4 I 40.1 4.7 -0.0 -0.2 27.7 234
KUT 39.0 46.4 7.4 -0.0 -0.1 54.3 293
SHK 40.8 49.8 9.0 -0.1 -0.0 67.0 248

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DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 3 11 12	41.2 0.0	110.9 0.2	70.0 0.2	6.9 0.2
32) NEAR AKAGI, SHIMANE				
MAG=1.1 S=0.02				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	42.8	1.2	4.0	-0.1
SHK	56.4	6.4	0.0	-0.0
MKW	56.8			-0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 4 6 59	47.4 0.4	79.9 1.4	135.6 2.0	23.9 2.9
81) NEAR YAKAKE-OKAYAMA				
MAG=1.8 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	54.4	50.8	5.4	-0.2
MKW	67.6			-0.1
SHK	60.8	70.3	9.5	0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 7 19 10	42.8 0.2	96.1 0.4	66.8 0.9	16.0 1.2
38) NEAR SAKUGI, HIROSHIMA				
MAG=1.1 S=0.17				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	46.4	48.6	2.2	0.1
SHK	49.6	54.3	4.7	0.0
MKW	50.9	56.6	5.7	0.1
FUB	53.2	60.9	7.7	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 7 19 19	24.7 0.3	95.6 0.8	68.3 1.5	14.6 2.1
38) NEAR SAKUGI, HIROSHIMA				
MAG=1.1 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	28.2	30.1	1.9	0.3
SHK	31.1	36.1	5.0	-0.2
MKW	32.6	38.0	5.4	0.2
FUB	35.3	42.3	7.0	0.2

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 21 50	18.4 0.4	131.7 1.6	74.8 2.3	17.7 3.4
7) NEAR KAKEYA, SHIMANE				
MAG=1.8 S=0.37				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	24.0	27.4	3.4	0.4*
FUB	24.7	29.0	4.3	-0.0
MKW	30.4	39.2	8.8	0.1
SHK	30.9	39.7	8.8	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 10 4 48	16.9 0.3	118.7 0.7	101.5 0.9	9.2 4.2
25) NEAR EBOSHI-YAMA				
MAG=2.0 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
FUB	21.2	24.3	3.1	-0.1
KUT	22.1	25.8	3.1	0.1
MKW	23.5	31.8	8.3	-0.0
SHK	28.9	37.2	8.3	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 1 3	47.3 0.4	134.6 1.4	71.8 2.0	9.1 5.6
7) NEAR KAKEYA, SHIMANE				
MAG=2.1 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	52.7	55.9	3.2	0.3*
FUB	53.1	57.8	4.7	-0.3
MKW	59.7	68.6	8.9	0.1
SHK	60.0	69.0	9.0	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 3 30	4.1 0.1	116.7 0.3	75.7 0.5	8.9 0.6
32) NEAR AKAGI, SHIMANE				
MAG=1.8 S=0.08				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	6.5	8.1	1.6	0.0
FUB	10.9	16.0	5.1	-0.1
MKW	13.6	20.3	6.7	0.1
SHK	14.1	21.3	7.2	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 21 50	18.4 0.4	131.7 1.6	74.8 2.3	17.7 3.4
7) NEAR KAKEYA, SHIMANE				
MAG=1.8 S=0.37				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	24.0	27.4	3.4	0.4*
FUB	24.7	29.0	4.3	-0.0
MKW	30.4	39.2	8.8	0.1
SHK	30.9	39.7	8.8	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 10 4 48	16.9 0.3	118.7 0.7	101.5 0.9	9.2 4.2
25) NEAR EBOSHI-YAMA				
MAG=2.0 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
FUB	21.2	24.3	3.1	-0.1
KUT	22.1	25.8	3.1	0.1
MKW	23.5	31.8	8.3	-0.0
SHK	28.9	37.2	8.3	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 1 3	47.3 0.4	134.6 1.4	71.8 2.0	9.1 5.6
7) NEAR KAKEYA, SHIMANE				
MAG=2.1 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	52.7	55.9	3.2	0.3*
FUB	53.1	57.8	4.7	-0.3
MKW	59.7	68.6	8.9	0.1
SHK	60.0	69.0	9.0	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 3 30	4.1 0.1	116.7 0.3	75.7 0.5	8.9 0.6
32) NEAR AKAGI, SHIMANE				
MAG=1.8 S=0.08				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	6.5	8.1	1.6	0.0
FUB	10.9	16.0	5.1	-0.1
MKW	13.6	20.3	6.7	0.1
SHK	14.1	21.3	7.2	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 21 50	18.4 0.4	131.7 1.6	74.8 2.3	17.7 3.4
7) NEAR KAKEYA, SHIMANE				
MAG=1.8 S=0.37				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	24.0	27.4	3.4	0.4*
FUB	24.7	29.0	4.3	-0.0
MKW	30.4	39.2	8.8	0.1
SHK	30.9	39.7	8.8	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 10 4 48	16.9 0.3	118.7 0.7	101.5 0.9	9.2 4.2
25) NEAR EBOSHI-YAMA				
MAG=2.0 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
FUB	21.2	24.3	3.1	-0.1
KUT	22.1	25.8	3.1	0.1
MKW	23.5	31.8	8.3	-0.0
SHK	28.9	37.2	8.3	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 1 3	47.3 0.4	134.6 1.4	71.8 2.0	9.1 5.6
7) NEAR KAKEYA, SHIMANE				
MAG=2.1 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	52.7	55.9	3.2	0.3*
FUB	53.1	57.8	4.7	-0.3
MKW	59.7	68.6	8.9	0.1
SHK	60.0	69.0	9.0	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 3 30	4.1 0.1	116.7 0.3	75.7 0.5	8.9 0.6
32) NEAR AKAGI, SHIMANE				
MAG=1.8 S=0.08				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	6.5	8.1	1.6	0.0
FUB	10.9	16.0	5.1	-0.1
MKW	13.6	20.3	6.7	0.1
SHK	14.1	21.3	7.2	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 21 50	18.4 0.4	131.7 1.6	74.8 2.3	17.7 3.4
7) NEAR KAKEYA, SHIMANE				
MAG=1.8 S=0.37				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	24.0	27.4	3.4	0.4*
FUB	24.7	29.0	4.3	-0.0
MKW	30.4	39.2	8.8	0.1
SHK	30.9	39.7	8.8	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 10 4 48	16.9 0.3	118.7 0.7	101.5 0.9	9.2 4.2
25) NEAR EBOSHI-YAMA				
MAG=2.0 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
FUB	21.2	24.3	3.1	-0.1
KUT	22.1	25.8	3.1	0.1
MKW	23.5	31.8	8.3	-0.0
SHK	28.9	37.2	8.3	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 1 3	47.3 0.4	134.6 1.4	71.8 2.0	9.1 5.6
7) NEAR KAKEYA, SHIMANE				
MAG=2.1 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	52.7	55.9	3.2	0.3*
FUB	53.1	57.8	4.7	-0.3
MKW	59.7	68.6	8.9	0.1
SHK	60.0	69.0	9.0	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 3 30	4.1 0.1	116.7 0.3	75.7 0.5	8.9 0.6
32) NEAR AKAGI, SHIMANE				
MAG=1.8 S=0.08				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	6.5	8.1	1.6	0.0
FUB	10.9	16.0	5.1	-0.1
MKW	13.6	20.3	6.7	0.1
SHK	14.1	21.3	7.2	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 21 50	18.4 0.4	131.7 1.6	74.8 2.3	17.7 3.4
7) NEAR KAKEYA, SHIMANE				
MAG=1.8 S=0.37				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	24.0	27.4	3.4	0.4*
FUB	24.7	29.0	4.3	-0.0
MKW	30.4	39.2	8.8	0.1
SHK	30.9	39.7	8.8	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 10 4 48	16.9 0.3	118.7 0.7	101.5 0.9	9.2 4.2
25) NEAR EBOSHI-YAMA				
MAG=2.0 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
FUB	21.2	24.3	3.1	-0.1
KUT	22.1	25.8	3.1	0.1
MKW	23.5	31.8	8.3	-0.0
SHK	28.9	37.2	8.3	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 1 3	47.3 0.4	134.6 1.4	71.8 2.0	9.1 5.6
7) NEAR KAKEYA, SHIMANE				
MAG=2.1 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	52.7	55.9	3.2	0.3*
FUB	53.1	57.8	4.7	-0.3
MKW	59.7	68.6	8.9	0.1
SHK	60.0	69.0	9.0	-0.1

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 3 30	4.1 0.1	116.7 0.3	75.7 0.5	8.9 0.6
32) NEAR AKAGI, SHIMANE				
MAG=1.8 S=0.08				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	6.5	8.1	1.6	0.0
FUB	10.9	16.0	5.1	-0.1
MKW	13.6	20.3	6.7	0.1
SHK	14.1	21.3	7.2	0.0

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1969 JUN 12 21 50	18.4 0.4	131.7 1.6	74.8 2.3	17.7 3.4
7) NEAR KAKEYA, SHIMANE				
MAG=1.8 S=0.37				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	24.0	27.4	3.4	0.4*
FUB	24.7	29		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 14 10 39 47.7	0.2	131.7	0.8	74.1 1.1 15.6 1.8
7) NEAR KAKEYA, SHIMANE				
MAG=1.7 S=0.18				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	52.8	56.4	3.6	0.0
SHK	54.0	58.3	4.3	0.1
MKW	59.7	68.3	8.6	0.1
FUB	60.1	69.1	9.0	-0.1
DIST AZM				
25.8 177				
34.0 171				
69.7 156				
73.5 189				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 16 9 33 56.8	0.6	64.4	2.2	96.7 2.1 20.0 3.3
42) EASTERN PART OF HIROSHIMA				
MAG=1.3 S=0.53				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	60.3	62.8	2.5	0.1
SHK	63.5	67.8	4.3	0.0
MKW	65.9	71.7	5.8	0.6X
FUB	70.1	79.7	9.6	-0.3
DIST AZM				
6.2 36				
34.6 261				
48.8 332				
78.9 6				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 16 22 44 27.9	0.1	79.0	0.3	0.3 0.6 19.5 2.2
10) WESTERN PART OF SHIMANE				
MAG=1.7R S=0.06				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	39.3	47.5	8.2	0.0
SHK	41.5	51.5	10.0	-0.1
MKW	45.2	58.0	12.8	-0.1
FUB	64.0	64.0		-0.0
DIST AZM				
65.3 107				
79.5 70				
102.4 96				
123.6 58				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 17 7 13 29.7	0.5	89.1	1.9	12.5 3.8 19.8 11.3
10) WESTERN PART OF SHIMANE				
MAG=2.0 S=0.40				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	39.7	47.3	7.6	-0.3
SHK	41.4	49.6	8.2	0.4*
MKW	45.7	57.0	11.3	0.3
FUB	47.9	61.0	13.1	-0.1
DIST AZM				
58.3 120				
64.8 74				
92.1 103				
108.0 60				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 18 20 27 7.5	0.6	-4.4	3.0	62.3 3.6 51.0 4.5
95) EHIME				
MAG=2.4R S=0.38				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	20.6	31.1	10.5	-0.5X
SHK	24.0	35.3	11.3	0.3
MKW	27.9	42.9	15.0	0.0
FUB	54.0	54.0		-0.2
DIST AZM				
63.6 0				
82.6 28				
111.0 6				
153.5 16				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 19 5 26 38.3	0.2	75.1	1.0	0.4 1.6 24.2 4.4
10) WESTERN PART OF SHIMANE				
MAG=1.5 S=0.14				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	49.8	58.0	8.2	0.1
SHK	52.2	62.7	10.5	-0.2
MKW	55.8	68.5	12.7	0.0
FUB				-0.1
DIST AZM				
64.1 104				
80.8 67				
102.0 94				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 23 3 23 33.2	0.1	98.3	0.6	85.2 0.9 0.2 R
40) MIYOSHI AND SHORARA				
MAG=1.6 S=0.26				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	35.6	36.7	1.1	0.3
SHK	40.3	46.0	5.7	1.3X
MKW	40.5	46.4	5.7	-0.2
FUB	41.5	47.3	5.8	0.1
DIST AZM				
12.6 307				
34.8 150				
45.2 210				
49.1 25				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 JUN 23 6 42 17.2	0.2	109.2	0.5	73.6 0.9 12.0 1.6
33) NEAR KUTSUGAHARA				
MAG=1.4 S=0.17				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	19.3	19.3		-0.0
SHK	25.3	31.0	5.7	0.0
MKW	26.0	32.0	6.0	-0.2
FUB	25.9	32.3	6.4	-0.1
DIST AZM				
3.6 155				
46.8 44				
50.2 145				
51.3 192				

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUN 29 22 52 31.7 0.2 24.2 1.1 111.8 1.2 26.9 2.2
MAG=2.1B S=0.17
47) NEAR IKUCHIJIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 40.5 46.8 6.3 0.1 -0.0 44.8 347
SHK 42.7 50.7 8.0 -0.0 -0.1 60.4 305
KUT 47.5 58.9 11.4 0.2 0.2 89.6 335
FUB 51.9 66.7 14.8 -0.1 -0.1 118.6 357

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUN 30 18 55 57.8 0.1 103.2 0.3 73.4 0.5 10.4 0.5
MAG=1.3 S=0.10
33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 59.5 60.9 1.4 -0.2 -0.1 3.2 32
SHK 65.7 71.2 5.5 0.1 -0.1 45.4 193
MKW 65.5 71.3 5.8 -0.1 0.0 45.5 140
FUB 66.5 73.0 6.5 -0.0 0.1 51.4 39

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUN 24 0 5 15.1 0.2 89.6 0.3 96.7 0.5 18.0 1.0
MAG=1.4 S=0.10
42) EASTERN PART OF HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW E 19.8 23.4 3.6 -0.1 -0.0 22.3 165
KUT 20.6 24.4 3.8 0.1 -0.1 27.1 307
SHK 23.3 29.3 6.0 -0.0 -0.0 45.8 228

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUN 28 17 22 32.8 0.4 128.3 1.5 56.8 2.6 14.7 5.3
MAG=1.8 S=0.35
8) CENTRAL PART OF SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.4 42.3 3.9 0.2 0.1 28.9 140
FUB 41.7 48.0 6.3 -0.0 -0.3 51.5 73
SHK 44.6 52.8 8.2 -0.0 -0.5* 69.4 175
MKW 46.0 55.0 9.0 0.4* -0.0 75.5 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUN 28 18 42 47.5 0.2 123.6 0.6 119.3 0.9 6.0 5.4
MAG=2.0 S=0.16
22) NITAYOKOTA AND NICHINAN

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 51.4 54.3 2.9 -0.1 -0.1 23.1 325
KUT 55.6 61.4 5.8 0.1 0.0 47.6 248
MKW 57.3 64.4 7.1 0.0 -0.0 58.3 197
SHK E 61.7 72.1 10.4 -0.2 -0.3 85.9 221

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUN 29 16 34 36.1 0.4 -0.8 2.6 71.7 2.2 40.6 4.1
MAG=1.9 S=0.25
95) EHIME

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 48.4 57.1 8.7 0.1 -0.1 60.7 351
MKW 50.1 60.9 10.8 -0.3 0.1 75.2 23
KUT 55.3 69.0 13.7 0.1 -0.1 106.8 1
FUB 60.7 79.0 18.3 -0.9 -1.3 147.6 13

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 1 16 34 43.8 0.1 129.2 0.6 56.5 0.7 13.5 1.5
8) CENTRAL PART OF SHIMANE MAG=1.8 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.3 53.2 3.9 0.0 -0.1 29.8 141
SHK 62.2 67.5 5.3 -0.2 -0.4* 37.8 295
MKW 55.7 64.5 8.8 -0.0 0.0 70.3 175
FUB 66.2 75.8 8.6 0.4* 0.6* 66.4 341
KUT 67.2 75.8 8.6 0.4* 0.6* 66.4 341
FUB 67.2 75.8 8.6 0.4* 0.6* 66.4 341

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 3 15 47 55.0 0.7 43.1 2.9 96.7 2.4 23.6 3.7
47) NEAR IKUCHIJIMA MAG=1.78 S=0.51
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 60.8 65.0 4.2 -0.0 -0.1 25.4 12
SHK 62.2 67.5 5.3 -0.2 -0.4* 37.8 295
MKW 55.7 64.5 8.8 -0.0 0.0 70.3 175
FUB 66.2 75.8 8.6 0.4* 0.6* 66.4 341
KUT 67.2 75.8 8.6 0.4* 0.6* 66.4 341
FUB 67.2 75.8 8.6 0.4* 0.6* 66.4 341

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 3 21 14 29.5 0.3 120.9 0.7 102.6 0.9 7.9 4.7
25) NEAR EROSHI-YAMA MAG=1.4 S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 33.3 36.3 3.0 -0.1 0.0 22.1 9
KUT 35.1 38.9 3.8 0.2 0.1 31.3 241
MKW 38.6 45.0 6.4 0.2 0.0 53.0 180
SHK 41.9 50.6 8.7 0.1 -0.3 73.6 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 5 8 22 56.0 0.5 84.3 1.5 17.9 2.7 31.3 5.7
10) WESTERN PART OF SHIMANE MAG=1.6 S=0.28
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 65.8 73.5 7.7 -0.2 0.1 51.2 119
KUT 67.6 75.6 8.0 0.1 -0.3 61.2 69
MKW 82.3 88.0 6.9 0.1 -0.1 85.8 101
FUB 88.0 88.0 6.9 0.1 -0.1 85.8 101

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 8 19 47 50.1 0.3 18.1 1.6 51.6 1.4 21.3 3.1
58) NEAR KURASHIJIMA MAG=2.68 S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 57.9 63.8 5.9 -0.1 -0.1 42.5 14
MKW 62.3 71.5 9.2 -0.2 -0.0 71.0 45
KUT 65.8 76.9 11.1 0.1 -0.2 90.9 14
FUB 72.2 88.7 16.5 -0.9 -1.2 136.1 23

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 9 13 48 7.6 0.3 108.3 0.6 134.0 1.5 2.2 R
83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.9 S=0.25
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB E 14.8 20.3 5.5 -0.2 -0.1 44.2 321
MKW E 16.4 22.4 6.0 0.2 -0.1 51.4 218
KUT 17.8 24.8 7.0 0.4* 0.2 58.9 267
SHK 22.0 32.4 10.4 -0.1 -0.3 86.7 235

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 11 4 56 18.5 0.1 121.4 0.3 74.6 0.4 11.2 0.6
30) NEAR TONBARA, SHIMANE MAG=1.7 S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.6 23.9 2.3 -0.1 -0.2 15.5 178
FUB 25.0 30.0 5.0 -0.1 0.0 38.1 56
MKW 28.6 36.1 7.5 -0.1 -0.1 60.1 152
SHK E 29.2 37.1 7.9 -0.0 -0.0 63.4 190

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 11 15 16 27.3 0.4 117.6 1.0 127.8 2.0 10.3 8.3
85) NEAR ASHIDACHI, OKAYAMA MAG=1.9 S=0.32
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 32.9 37.3 4.4 -0.2 -0.0 33.1 319
KUT 36.9 43.3 6.4 0.4* 0.1 54.0 257
MKW 43.8 49.8 6.9 0.1 -0.1 55.9 207
SHK 41.9 52.4 10.5 -0.1 -0.4* 87.6 228

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 13 8 30 40.7 0.2 121.3 0.7 52.8 1.3 7.4 5.1
8) CENTRAL PART OF SHIMANE MAG=1.5 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 45.3 48.8 3.5 -0.1 -0.1 27.1 124
FUB 50.2 57.6 7.4 -0.2 0.1 57.6 68
SHK 51.5 58.9 7.4 0.2 -0.1 62.9 171
MKW 52.8 61.8 9.0 -0.1 0.0 72.7 137

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 13 16 14 11.5 0.2 66.9 0.5 90.1 0.5 16.0 1.5
50) CENTRAL PART OF HIROSHIMA MAG=1.0 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 14.9 17.2 2.3 0.0 -0.2 12.1 85
SHK 16.9 21.0 4.1 -0.1 -0.0 28.6 254
KUT 24.4 24.4 0.0 -0.1 -0.1 41.8 338

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 14 13 43 21.3 0.1 99.9 0.2 80.2 0.4 14.5 0.7
33) NEAR KUTSUGAHARA MAG=1.0 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 24.1 25.9 1.8 0.0 -0.2 7.9 319
MKW E 28.2 33.2 5.0 -0.0 -0.1 38.8 145
SHK I 29.0 34.7 5.7 -0.1 -0.1 44.4 203
FUB 30.0 36.2 6.2 -0.0 -0.2 50.1 31

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 16 18 23 46.0 0.2 122.2 0.9 72.5 1.6 3.9 5.9
30) NEAR TONBARA, SHIMANE MAG=2.68 S=0.26

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.1 E 50.8 1.7 0.3 -0.1 16.5 170
FUB 52.6 E 57.3 4.7 -0.0 -0.2 39.5 58
MKW 56.3 64.0 7.7 -0.0 0.1 61.8 151
SHK 56.8 64.1 7.3 0.1 -0.4* 63.8 188

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 17 10 48 25.7 0.3 126.7 2.5 83.3 3.4 17.4 1.8
30) NEAR TONBARA, SHIMANE MAG=1.0 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.6 33.8 3.2 0.1 -0.1 22.3 201
FUB 31.0 35.3 4.3 -0.2 0.1 28.0 55
SHK 37.8 46.7 8.9 -0.0 -0.0 70.7 197

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 17 16 8 40.3 0.4 114.4 1.2 73.1 2.1 14.6 4.5
32) NEAR AKAGI, SHIMANE MAG=2.58 S=0.38

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 43.3 43.3 0.0 0.1 0.1 8.7 166
FUB 48.0 53.2 5.2 0.0 -0.4* 43.6 49
MKW 50.0 56.6 6.6 0.2 -0.1 54.8 148
SHK 50.0 56.6 6.6 0.0 -0.5* 56.2 190

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 17 17 27 57.5 0.4 71.9 1.2 100.9 1.4 13.1 2.3
42) EASTERN PART OF HIROSHIMA MAG=0.8 S=0.33

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 59.9 61.3 1.4 0.1 -0.3 4.2 162
SHK 64.6 69.4 4.8 0.0 -0.4* 40.4 251
KUT 65.3 70.5 5.2 0.3* 0.1 42.7 322
FUB E 69.4 78.0 8.6 -0.1 -0.4* 71.0 4

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 18 0 21 45.7 0.1 125.4 0.6 66.0 0.9 13.5 1.5
30) NEAR TONBARA, SHIMANE MAG=2.18 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.1 52.9 2.8 0.1 -0.2 21.5 154
FUB 53.2 58.9 5.7 -0.1 -0.0 43.8 66
SHK 57.0 65.1 8.1 0.0 -0.2 66.3 183
MKW 57.2 65.7 8.5 -0.0 0.0 67.9 147

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 18 1 27 52.6 0.2 114.6 0.6 71.1 0.9 9.1 1.1
32) NEAR AKAGI, SHIMANE
MAG=1.5 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.0 56.3 1.3 0.2 -0.1 9.6 155
FUB 65.8 65.8 -0.1 0.1 45.0 151
MKW 62.2 69.0 6.8 0.1 -0.0 56.0 146
SHK E 62.0 69.0 7.0 -0.1 -0.0 56.1 188
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 18 22 46 4.9 0.2 107.8 0.4 37.3 0.7 6.3 5.1
8) CENTRAL PART OF SHIMANE
MAG=1.3 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.3 15.9 4.6 -0.0 -0.1 37.9 92
SHK 14.0 20.8 6.8 -0.1 -0.0 54.8 152
MKW I 26.9 26.9 -0.1 0.1 76.1 121
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 19 6 20 12.9 0.3 71.0 1.0 144.3 1.7 31.9 2.8
81) NEAR YAKAKE, OKAYAMA
MAG=1.8 S=0.22
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 21.8 28.2 6.4 0.0 -0.0 42.3 265
KUT 27.2 E 37.2 10.0 0.3* 0.1 77.5 296
FUB E 27.3 38.0 10.7 -0.1 -0.1 81.2 332
SHK E 27.6 38.3 10.7 -0.1 -0.2 82.6 261
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 19 12 40 26.4 0.3 97.8 1.0 35.1 2.1 13.5 6.2
8) CENTRAL PART OF SHIMANE
MAG=1.6B S=0.27
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.7 39.0 5.3 0.1 0.2 40.8 78
SHK 34.7 40.3 5.6 0.1 -0.3* 47.4 144
MKW 39.0 48.0 9.0 0.2 0.0 73.4 114
FUB E 40.5 50.7 10.2 -0.1 -0.3* 84.1 57
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 19 19 28 48.2 0.1 107.5 0.4 76.0 0.7 10.4 0.7
33) NEAR KUTSUGAHARA
MAG=1.7 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.8 51.2 1.4 -0.2 -0.1 1.8 209
FUB 56.0 62.0 6.0 -0.1 0.1 46.4 40
MKW E 56.2 62.0 6.0 -0.1 -0.0 47.4 146
SHK 56.9 I 62.9 6.0 0.1 -0.1 50.2 195
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 20 23 43 39.6 0.3 115.4 1.1 73.4 1.9 11.8 2.0
32) NEAR AKAGI, SHIMANE
MAG=1.6 S=0.33
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.6 43.8 1.2 0.4* -0.3 9.6 169
FUB 47.0 E 52.2 5.2 0.0 -0.2 42.7 50
MKW 49.3 56.0 6.7 0.2 0.0 55.5 148
SHK 49.3 56.2 6.9 -0.1 -0.3* 57.3 190
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 21 9 56 3.6 0.2 36.0 1.0 109.6 1.0 52.2 1.1
47) NEAR IKUCHIJIMA
MAG=1.8 S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 13.9 21.3 7.4 -0.0 -0.2 32.8 366
SHK 15.8 25.0 9.2 -0.2 -0.0 52.5 296
KUT 19.3 30.6 11.3 0.0 -0.1 78.0 333
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 JUL 23 1 28 56.9 0.3 123.3 1.2 70.9 1.9 7.9 4.1
30) NEAR TONBARA, SHIMANE
MAG=1.6 S=0.31
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 60.4 62.6 2.2 0.2 0.0 17.9 166
FUB 63.9 68.5 4.6 0.1 -0.3 40.3 61
MKW 67.8 75.5 7.7 0.2 0.1 63.6 150
SHK E 67.9 75.3 7.4 0.1 -0.4* 64.7 187

```

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 26 16 41 17.4 0.7 114.2 2.4 37.8 2.6 7.2 R
8) CENTRAL PART OF SHIMANE MAG=1.1 S=0.40

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.9 28.4 4.5 0.0 -0.2 38.2 102
SHK 27.7 34.7 7.0 0.2 -0.3 60.3 155
MKW 40.8 55.0 14.2 0.4* 0.4* 79.2 125
FUB

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 29 12 13 31.8 0.1 109.2 0.4 33.7 0.7 11.1 2.6
8) CENTRAL PART OF SHIMANE MAG=1.5 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.9 44.2 5.3 -0.1 -0.0 41.5 94
SHK E 41.5 48.7 7.2 -0.1 -0.1 57.8 150
MKW E 45.3 55.0 9.7 0.0 -0.1 79.9 121
FUB 55.0 60.3 15.3 0.0 -0.1 79.9 65

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 30 18 51 35.7 0.4 131.8 1.3 74.0 1.9 12.9 3.8
7) NEAR KAKEYA, SHIMANE MAG=1.3 S=0.29

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.8 44.0 3.2 0.2 -0.1 25.9 177
FUB 41.8 46.0 4.2 0.0 -0.2 34.0 71
MKW 48.1 56.3 7.3 0.0 -0.1 49.8 156
SHK 48.1 56.9 8.8 -0.1 -0.4* 73.5 188

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 24 0 44 45.1 0.1 86.9 0.2 76.0 0.4 26.5 0.5
50) CENTRAL PART OF HIROSHIMA MAG=3.2 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.5 54.4 3.9 -0.1 -0.2 19.0 357
SHK 51.8 55.8 4.0 -0.1 -0.1 30.8 205
MKW 52.0 56.3 4.3 0.0 -0.1 32.3 126
FUB E 56.5 63.5 7.5 0.0 -0.1 63.5 28

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 25 2 34 12.9 0.1 112.3 0.2 30.8 0.3 1.7 R
8) CENTRAL PART OF SHIMANE MAG=1.2 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.2 29.6 6.4 0.0 -0.1 35.9 100
SHK E 22.5 29.6 7.1 -0.0 0.0 57.8 156
FUB 34.0 40.4 6.4 0.0 0.0 73.1 65
MKW I 35.0 41.4 6.4 0.0 0.0 76.5 125

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 25 10 34 54.0 0.4 113.9 1.1 40.3 1.9 17.6 4.8
8) CENTRAL PART OF SHIMANE MAG=1.1 S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 60.8 65.5 4.7 0.1 -0.0 39.7 162
SHK E 64.3 69.6 5.3 0.0 -0.2 59.1 157
FUB 71.6 75.2 4.6 0.0 -0.2 72.0 66
MKW 76.9 81.5 4.6 0.1 0.1 77.0 126

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 JUL 25 12 33 51.1 0.1 110.2 0.2 71.7 0.4 0.4 R
33) NEAR KUTSUGAHARA MAG=1.2 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 52.0 56.8 4.8 -0.0 0.0 5.5 141
FUB 59.0 64.8 5.8 -0.0 0.0 47.4 46
SHK 59.7 66.1 6.4 -0.0 0.0 51.9 190
MKW 59.9 66.1 6.2 0.1 -0.0 52.1 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- R
1969 AUG 3 22 58 12.7 0.5 119.9 2.3 98.5 1.7 6.8

25) NEAR EROSHI-YAMA MAG=1.5 S=0.35

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 17.2 20.6 3.4 -0.2 -0.2 27.3 239
MKW 21.3 27.7 6.4 -0.2 -0.2 52.1 176
SHK 25.0 33.3 8.3 0.5* 0.1 70.6 210

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 4 19 25 8.0 0.2 105.2 0.6 76.3 0.4 7.4 0.7

33) NEAR KUTSUGAHARA MAG=0.8 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 9.2 10.0 0.8 -0.1 -0.3 1.4 300
MKW 21.2 21.6 -0.1 45.3 145
SHK 16.0 22.0 6.0 -0.1 -0.1 48.1 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 5 4 37.6 0.1 113.3 0.6 69.7 0.5 8.2 0.6

32) NEAR AKAGI, SHIMANE MAG=1.8 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.7 41.1 1.4 0.0 -0.1 9.2 143
SHK 46.8 53.6 6.8 -0.0 0.0 54.6 187
MKW 55.9 55.9 0.0 55.8 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 5 17 14 47.1 0.2 113.8 1.0 70.9 0.8 6.2 1.2

32) NEAR AKAGI, SHIMANE MAG=1.5 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1 48.9 1 50.2 1.3 -0.0 -0.1 8.9 151
MKW 56.3 63.3 7.0 -0.1 0.1 55.5 145
SHK 56.5 63.1 6.6 0.1 -0.1 55.3 188

LIST OF STATIONS

ST-NO.	X	Y	Z	CODE	NAME
1	59.155	62.550	0.285	SHK	SHIRAKI
2	67.922	102.120	0.320	MKW	MIKAMA
3	105.907	75.106	0.336	KUT	KUTSU-GA-HARA
4	142.700	106.239	0.190	FUR	FURE
5	99.327	85.165	0.320	YUK	YUKI
6	97.569	61.925	0.165	KCA	KUCHIBA A
7	97.425	61.936	0.180	KCD	KUCHIBA D
8	97.397	61.914	0.188	KCE	KUCHIBA E
9	97.538	60.939	0.170	KCB	KUCHIBA B
10	96.729	60.987	0.210	KCC	KUCHIBA C
11	120.160	66.083	0.410	KJ1	KIJIMA 1
12	121.061	66.814	0.375	KJ2	KIJIMA 2
13	120.404	66.876	0.385	KJ3	KIJIMA 3
14	120.737	66.046	0.395	KJ4	KIJIMA 4
15	64.650	105.419	0.230	UZT	UZUTO

Nos. 5~14 are temporary stations.

From Aug. 6 to Aug. 24, 1969, origins of many ultra-micro earthquakes of magnitudes smaller than 1.0 were determined from data obtained by temporary ultra-microearthquake observation inclusive.

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 6	19	49	9.9	0.2	103.1 0.5	81.3 0.8 14.6 0.7
33) NEAR KUTSUGAHARA						
S=0.10						
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
KUT	12.5	14.5	2.0	-0.1	-0.1	6.8
KJ4	14.4	17.8	3.4	-0.1	-0.1	23.3
KCD	14.1	17.0	2.9	0.1	-0.1	20.2

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 7	3	4	33.7	0.3	83.4 1.4	138.3 2.0 22.2 4.2
81) NEAR YAKAKE-OKAYAMA						
MAG=1.3 S=0.25						
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
MKW	40.9	46.8	5.9	-0.4*	0.0	39.4
SHK	47.4	57.4	10.0	-0.1	-0.2	79.5
KCD	47.5	56.9	9.4	0.3*	-0.1	77.6
KJ4	47.6	57.9	10.3	-0.2	-0.2	81.3

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 7	13	41	53.5	0.0	114.5 0.1	72.5 0.1 7.7 0.2
32) NEAR AKAGI, SHIMANE						
S=0.02						
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
KJ1	55.3	56.7	1.4	-0.2	-0.2	8.6
KUT	55.4	56.8	1.4	-0.1	-0.2	9.0
KCD	57.0	59.6	2.6	-0.1	-0.1	20.1

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 7	18	55	20.2	0.5	95.5 1.2	24.7 2.3 4.5 R
10) WESTERN PART OF SHIMANE						
MAG=1.6 S=0.36						
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
KCD	26.7	29.8	3.1	0.2	-1.3X	37.3
KJ1	28.1	33.9	5.8	-0.2	-0.3	48.2
SHK	28.6	35.6	7.0	-0.4*	0.2	52.5
KUT	29.3	35.3	6.0	0.5*	0.2	51.5
MKW		43.7			-0.3	82.2

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 13 0 14 34.3 0.1 140.6 0.5 111.2 0.6 20.8 1.1
20) CENTRAL SHIMANE-TOTTORI BORDER MAG=2.3B S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 37.9 49.8 6.7 -0.0 -0.2 50.1 292
KUT 43.1 52.9 8.9 -0.3 -2.2X 49.3 246
KJ4 43.1 52.9 8.9 -0.1 -2.2X 48.3 212
YUK 43.2 52.9 8.9 0.1 0.1 65.5 228
KCE 45.8 52.9 9.2 -0.1 0.1 73.2 187
MKW 47.0 52.9 9.2 -0.1 0.1 94.9 210
SHK 50.4 62.4 12.0 -0.1 0.0 94.9 210

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 13 3 35 17.2 0.2 33.4 0.9 97.9 0.8 7.3 5.7
47) NEAR IKUCHIJIMA MAG=1.5 S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 23.0 27.4 4.4 -0.1 -0.1 34.8 6
SHK 24.5 30.0 5.5 -0.1 -0.0 43.7 306
YUK 28.3 36.8 8.5 -0.1 0.1 67.1 349
KCE 29.3 38.4 9.1 -0.2 -0.1 73.4 330
KUT 30.3 38.9 8.6 0.4* -0.4* 76.0 342
FUB 36.8 50.0 13.2 1.3X 1.1X 109.6 4

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 13 4 56 2.0 0.1 115.2 0.4 73.0 0.4 8.9 0.8
32) NEAR AKAGI, SHIMANE S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KJ4 4.1 5.5 1.4 -0.0 -0.2 8.9 308
KUT 4.1 5.7 1.6 -0.1 -0.1 9.5 167
KCE 5.9 8.5 2.7 0.1 0.1 21.0 211
YUK 5.5 8.4 2.9 -0.2 0.0 20.0 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 10 17 45 31.5 0.4 105.9 1.2 77.1 2.0 14.3 1.9
33) NEAR KUTSUGAHARA S=0.27

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.7 35.7 2.0 -0.3 -0.1 2.0 270
KUT 35.6 38.0 2.4 0.2 -0.3 18.5 523
KJ4 35.1 38.0 2.9 -0.1 0.0 17.4 240
KCD 35.1 38.0 2.9 -0.1 0.0 17.4 240

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 10 17 52 23.6 0.1 112.0 0.4 85.0 0.8 3.0 3.0
31) CENTRAL PART OF TAKANO,HIROSHIMA S=0.09

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 25.6 27.0 1.4 -0.0 -0.1 11.6 238
KJ4 27.0 29.7 2.7 -0.1 -0.0 20.9 294
KCB 28.3 31.7 3.3 0.0 -0.1 28.1 238

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 11 6 56 3.6 0.1 4.0 1.0 56.2 1.0 72.3 1.0
58) NEAR KURAHASHIJIMA S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 18.8 29.9 11.1 -0.0 -0.1 55.5 6
MKW 21.3 34.5 13.2 -0.1 -0.0 78.7 35
KCE 23.3 37.0 13.7 -0.0 -0.8X 93.6 3
KUT 24.8 40.0 15.2 0.1 -0.1 103.6 10
KJ4 26.6 45.6 19.0 -0.0 2.2X 117.2 4

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 12 4 11 34.5 0.1 134.8 0.3 99.1 0.4 10.5 0.5
22) NITA,YOKOTA AND NICHINAN S=0.04

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 37.0 38.8 1.8 -0.0 -0.1 10.6 42
YUK 41.1 45.9 4.8 0.0 -0.0 38.1 201
KCD 43.4 50.0 6.6 -0.0 0.0 52.7 224

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 13 23 40 52.6 0.5 133.4 1.7 96.0 1.7 11.2 4.9
S=0.36

22) NITA, YOKOTA AND NICHINAN

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
FUB	56.0	57.5	1.5	0.4	-0.3	13.8	47
YUK	57.6	65.4	5.8	-1.2*	0.0	35.8	197
KJI	58.0	62.8	4.7	-0.3*	0.2	32.7	246
KCE	61.0	67.3	6.3	-0.1	0.0	49.6	223

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 14 3 47 48.7 0.2 67.7 0.3 81.5 0.4 9.7 0.7
MAG=1.68 S=0.16

50) CENTRAL PART OF HIROSHIMA

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	52.4	55.3	2.9	-0.1	-0.0	20.6	89
SHK	52.4	55.4	3.0	-0.1	0.0	20.8	245
YUK	54.4	58.4	4.1	0.1	0.1	31.8	6
KUT	54.8	59.9	5.1	-0.6*	-0.4*	38.7	350
KCE	55.0	59.4	4.4	0.1	0.0	35.6	326
KJI	57.9	64.8	6.9	-0.0	0.0	54.7	343
FUB	64.4	73.8	9.4	2.4*	2.1*	79.0	18

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 14 12 36 55.5 0.1 107.3 0.4 74.2 0.5 11.0 0.8
MAG=1.2 S=0.16

33) NEAR KUTSUGAHARA

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	57.2	58.8	1.6	-0.2	-0.0	1.7	146
YUK	58.4	60.5	2.1	-0.1	-0.1	13.6	126
KJI	58.6	60.9	2.3	-0.1	-0.1	15.2	327
KCE	59.0	60.9	1.9	0.3	-0.2	15.8	231
SHK	64.0	70.2	6.2	0.0	0.0	49.5	193

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 14 12 54 41.1 0.1 113.6 0.1 76.0 0.2 8.4 0.3
S=0.03

32) NEAR AKAGI, SHIMANE

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	42.9	44.3	1.4	-0.1	-0.2	7.7	186
KJI	43.4	45.2	1.7	-0.1	-0.2	11.9	303
KCE	44.9	47.7	2.7	-0.0	-0.1	21.5	221

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 14 12 55 18.5 0.2 133.7 1.1 75.5 0.8 0.8 R
S=0.18

7) NEAR KAKEYA, SHIMANE

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KJI	21.2	23.2	1.9	-0.0	-0.1	16.5	214
KUT	23.1	26.8	3.7	-0.0	0.3	27.8	180
YUK	24.6	28.6	3.9	0.2	-0.2	35.7	164
KCE	25.0	29.8	4.8	0.1	0.1	38.8	200

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 14 14 1 45.8 0.1 116.2 0.4 119.7 0.5 23.3 0.7
S=0.04

83) NORTHERN HIROSHIMA-OKAYAMA BORDER

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
YUK	53.2	58.7	5.5	-0.1	-0.1	38.4	263
KCE	56.6	64.5	7.9	-0.0	-0.1	60.8	251
SHK		70.0			-0.1	80.7	225

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 16 1 4 26.7 0.3 109.5 1.0 79.1 1.1 8.7 2.0

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 28.6 29.7 1.1 0.1 -0.0 5.4 228
YUK 29.3 30.5 1.2 0.1 -0.5* 11.8 149
KJ1 29.8 31.9 2.1 -0.1 -0.3* 16.8 309
KCE 30.5 33.1 2.6 0.0 -0.2 21.0 234

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 16 3 55 49.8 0.1 108.8 0.3 76.2 0.3 1.1 R

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.2 50.7 0.5 -0.2 -0.1 3.1 200
YUK 52.0 53.7 1.7 0.0 0.1 13.0 136
KJ1 52.3 54.3 2.0 -0.0 0.1 15.2 318
KCE 52.8 55.2 2.4 -0.0 0.2 18.3 231

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 16 8 34 52.9 0.1 111.9 0.2 85.7 0.3 5.6 1.2

31) CENTRAL PART OF TAKANO-HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.0 56.6 1.6 -0.2 -0.2 12.2 240
YUK 55.1 56.8 1.7 -0.1 -0.1 12.6 182
KJ1 56.6 59.4 2.8 0.0 0.1 27.3 236
KCE 57.6 61.0 3.4 -0.0 -0.1 27.8 238
FUB 59.0 63.6 4.6 -0.1 -0.1 44.0 159
MKW 60.8 66.7 5.9 0.0 0.1 46.8 169
SHK 62.5 69.4 6.9 -0.1 -0.2 57.6 203

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 15 13 50 5.5 0.3 56.1 2.3 106.3 1.5 17.9 1.4

44) NEAR FUCHU

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 9.0 11.8 2.8 -0.2 -0.1 12.5 340
SHK 13.5 19.1 5.6 0.1 -0.1 43.9 273
YUK 14.0 -0.0 -0.0 -0.0 48.1 333

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 15 14 16 26.6 0.1 116.8 0.4 100.2 0.6 0.9 R

25) NEAR EROSHI-YAMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
YUK 30.6 32.9 2.4 0.2 -0.3* 23.1 220
FUB 31.0 34.2 3.2 -0.0 -0.1 26.6 13
KUT 31.7 35.4 3.7 0.5* 27.4 246
KJ1 32.3 36.6 4.3 0.0 0.1 34.3 275
KCE 33.8 39.2 5.5 0.0 0.2 42.9 243
MKW 34.8 41.0 6.2 0.0 0.3 48.9 177
SHK 37.8 46.1 8.3 -0.3 -0.4* 68.9 213

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 15 16 15 11.3 0.1 122.3 0.3 67.5 0.3 6.6 0.3

30) NEAR TOMARARA, SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KJ1 12.4 13.3 0.9 -0.2 -0.2 2.6 23
KUT 14.5 16.8 2.3 -0.0 -0.1 18.1 155
KCE 15.7 18.9 3.2 -0.0 -0.1 25.5 192

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 15 23 29 11.3 0.2 112.9 0.8 77.3 0.7 6.9 1.7

32) NEAR AKAGI, SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 12.8 14.2 1.4 -0.2 -0.1 7.3 197
KJ1 15.7 17.1 1.4 -0.1 -0.1 13.4 302
YUK 14.3 16.0 1.7 0.1 -0.3 15.7 149
KCE 15.1 17.8 2.8 -0.1 -0.1 21.8 224

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 16 8 35 25.5 0.1 111.3 0.4 86.3 0.3 2.6 4.2

31) CENTRAL PART OF TAKANO,HIROSHIMA
S=0.14

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	27.4	29.2	1.8	-0.2	0.0	12.4	244
YUK	27.7	29.0	1.2	0.2	-0.1	12.0	185
KJI	29.2	32.0	2.8	-0.0	0.1	22.1	293
KCE	30.2	33.6	3.4	-0.0	-0.1	28.1	240
FUB	31.8	36.2	4.4	0.1	-0.1	37.2	32

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 16 12 52 20.5 0.1 76.6 0.4 108.8 0.6 11.2 1.2

42) EASTERN PART OF HIROSHIMA
MAG=1.7 S=0.16

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	23.1	25.0	1.9	-0.0	-0.1	11.0	217
YUK	26.5	29.6	4.2	0.2	0.1	32.8	313
KJI	28.3	32.9	5.6	0.1	0.1	44.7	311
SHK	28.8	35.1	6.3	-0.2	-0.0	49.4	249
KCE	29.3	35.3	6.2	0.1	-0.1	51.3	293
KJI	31.1	38.4	7.3	0.2	-0.0	61.0	315
FUB	31.8	39.6	7.8	0.1	-0.3	66.1	357

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 16 13 27 11.5 0.1 109.8 0.6 79.8 0.2 5.2 0.6

33) NEAR KUTSUGAHARA
S=0.06

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	12.8	13.7	0.9	-0.1	-0.2	6.1	230
KCE	15.2	17.9	2.7	-0.0	-0.1	21.8	235
YUK	13.5	15.2	1.6	-0.1	-0.1	11.8	152

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 16 15 13 19.1 0.2 105.8 0.4 78.7 0.9 6.3 0.7

33) NEAR KUTSUGAHARA
S=0.11

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	20.2	21.2	1.0	-0.2	-0.1	3.6	271
KCE	22.4	24.8	2.4	0.0	-0.0	18.8	243
KJI	22.6	24.9	2.3	0.1	-0.1	19.1	318

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 17 2 54 36.9 0.1 105.9 0.8 76.5 0.3 10.0 0.7

33) NEAR KUTSUGAHARA
S=0.09

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	38.5	39.8	1.3	-0.1	-0.1	1.4	270
KCE	40.2	42.6	2.4	-0.0	-0.0	16.9	239
YUK	39.5	41.1	1.6	0.1	-0.1	10.9	127

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 17 6 21 16.7 0.1 133.2 0.8 100.9 1.0 7.6 R

22) NITA,YOKOTA AND NICHINAN
S=0.27

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
FUB	18.3	20.0	1.7	-0.3	0.1	10.9	29
KJ4	22.8	27.4	4.6	-0.1	0.0	37.0	250
YUK	23.2	27.3	4.1	0.3	-0.2	37.3	204
KCE	25.6	31.9	6.2	0.1	-0.1	52.9	227

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 17 6 23 55.0 0.1 133.4 1.4 102.4 2.2 1.4 R

22) NITA,YOKOTA AND NICHINAN
S=0.24

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
FUB	56.5	58.0	1.5	-0.2	0.1	10.1	22
KJ4	61.7	65.8	4.1	0.3*	-0.2	38.2	206
KUT	66.3	68.3	0.1	0.1	0.1	38.7	224
KCE	64.1	70.5	6.4	0.1	-0.1	54.2	228

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 17 6 31 52.3 0.1 133.8 0.7 101.4 0.9 1.2 R

22) NITA, YOKOTA AND NICHINAN S=0.20

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	53.9	55.2	1.3	-0.1	-0.1	10.1	28
KJ4	58.6	63.2	4.6	-0.0	-0.0	37.7	269
YUK	58.9	63.0	4.1	0.3	-0.3	38.1	205
KCE	61.4	67.7	6.2	0.2	-0.1	53.7	227

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 17 7 32 0.9 0.1 101.6 0.3 81.2 0.4 11.5 0.5

33) NEAR KUTSUGAHARA

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
YUK	2.9	4.4	1.5	-0.1	-0.1	4.6	119
KUT	3.0	4.7	1.7	-0.2	-0.2	7.5	305
KCE	4.6	7.4	2.8	-0.1	-0.1	19.7	257
KJ4	5.2	8.7	3.5	-0.2	0.0	24.4	321
SHK	8.9	14.6	5.7	0.0	-0.1	46.4	203

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 17 10 10 51.0 0.2 119.1 0.7 100.9 0.9 10.2 2.6

25) NEAR EROSHI-YAMA

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
YUK	55.6	58.8	3.2	0.0	-0.1	25.3	218
KUT	55.8	59.7	3.9	-0.3*	-0.2	29.0	242
KJ4	56.9	61.7	4.8	-0.2	0.2	34.9	272
KCE	58.7	64.3	5.6	0.0	0.0	44.6	240
MKW	59.8	66.1	6.3	0.1	0.0	51.2	178
SHK	62.9	71.7	8.8	-0.1	-0.1	71.2	212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 17 15 17 20.5 0.5 83.8 1.5 12.7 2.8 6.8 22.6

10) WESTERN PART OF SHIMANE

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KCE	29.0	35.1	6.1	-0.1	-0.3	51.1	74
KUT	31.6	40.1	8.5	0.0	0.4*	66.2	70
MKW	46.6	46.6	0.0	-0.2	0.0	90.8	100
SHK	29.9	36.8	6.9	0.1	0.1	55.6	116

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 18 20 56.1 6.7 0.2 113.5 0.7 83.2 0.9 7.9 2.7

31) CENTRAL PART OF TAKANG, HIROSHIMA

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KJ4	20.2	21.5	1.3	0.2	-1.0X	18.6	292
KCE	21.6	25.0	3.4	0.2	0.2	26.7	232
FUB	23.0	27.6	4.6	-0.0	-0.1	37.2	38
MKW	25.3	31.4	6.1	0.3	0.3	49.3	157
SHK	26.2	33.2	7.0	-0.3	-0.4*	58.1	200

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 18 21 16 1.4 0.0 50.4 0.2 64.6 0.1 29.6 0.2

53) NEAR HACHIONMATSU, HIROSHIMA

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KCE	10.6	17.4	6.8	-0.1	-0.1	47.1	356
MKW	9.8	16.0	6.2	-0.1	-0.1	41.4	64
SHK	6.5	10.2	3.7	-0.1	-0.2	9.0	346

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 19 7 52 31.7 0.4 146.5 2.9 106.7 3.5 7.5 2.0

20) CENTRAL SHIMANE-TOTTORI BORDER

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
FUB	32.8	34.2	1.4	-0.3*	0.0	3.8	186
YUK	40.4	46.7	6.3	-0.0	-0.2	51.9	204
KUT	40.5	47.0	6.5	0.1	0.3	51.4	217
KCE	42.9	50.6	7.7	0.0	-0.4*	66.5	222

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 19 20 49 9.2 0.1 125.7 0.4 74.6 0.3 4.5 1.1

30) NEAR TONRARA, SHIMANE S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KJ4 10.9 12.3 1.4 -0.1 -0.0 9.9 239
KUT 15.1 15.1 0.0 0.0 19.8 178
YUK 14.1 17.5 3.4 0.1 -0.0 28.4 158
KCE 14.5 18.3 3.8 0.0 0.0 31.0 204

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 20 3 32 31.6 0.2 107.8 0.4 72.9 0.8 6.3 1.2

33) NEAR KUTSUGAHARA S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.6 33.6 1.0 -0.2 -0.1 2.9 130
KCE 34.4 36.3 1.9 0.0 -0.1 15.1 226
KJ4 34.3 36.1 1.8 0.0 -0.1 14.6 332

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 20 5 35 2.3 0.0 109.2 0.1 72.7 0.1 5.1 0.3

33) NEAR KUTSUGAHARA S=0.02

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.3 4.1 0.8 -0.1 -0.2 4.1 143
KJ4 4.6 6.3 1.7 -0.1 -0.1 13.3 330
KCE 5.1 7.1 2.0 -0.0 -0.1 16.0 222

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 20 19 25 25.0 0.2 106.8 0.6 81.2 0.5 7.1 1.5

33) NEAR KUTSUGAHARA S=0.22

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 26.5 27.5 1.0 -0.1 -0.3 6.2 221
YUK 27.0 28.1 1.1 0.1 -0.1 8.5 182
KCE 28.7 31.2 2.5 -0.1 -0.3 21.5 242
KJ4 28.7 31.4 2.7 0.0 0.1 20.6 312
FUB 37.5 37.5 0.0 0.0 -0.3 43.8 34

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 21 12 56 58.9 0.2 105.6 0.8 78.7 0.7 7.7 1.3

33) NEAR KUTSUGAHARA S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KCE 62.3 64.6 2.3 0.0 -0.1 18.7 243
KUT 60.4 61.4 1.0 0.0 -0.0 3.6 274
KJ4 62.6 64.7 2.1 0.2 -0.3 19.7 320
YUK 61.0 62.1 1.1 0.1 -0.3 9.0 134

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 21 14 5 57.2 0.3 110.1 0.8 71.7 0.9 10.0 1.7

33) NEAR KUTSUGAHARA S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 59.3 60.6 1.3 0.2 0.0 5.4 140
KJ4 59.8 61.3 1.5 -0.0 -0.5 12.0 332
KCE 60.3 62.5 2.2 -0.1 -0.2 16.0 217
YUK 60.6 62.4 1.7 0.1 -0.6 17.2 128
SHK 66.0 72.3 6.3 0.0 -0.1 51.8 190

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 AUG 21 16 37 30.6 0.1 91.6 0.3 86.2 0.4 5.5 1.5

40) MIYOSHI AND SHORARA MAG=1.1 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
YUK 32.3 33.2 0.9 0.1 -0.2 7.8 352
KUT 33.4 35.9 2.5 -0.4 0.0 18.1 322
KCE 34.9 38.0 3.1 0.1 0.0 25.0 283
MKW 35.3 39.0 3.7 -0.2 -0.0 28.5 146
SHK 42.3 5.0 -0.1 -0.0 40.1 216
FUB 37.3 46.6 0.1 0.1 54.9 21

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 22 4 41 41.2 0.1 120.9 0.4 79.9 0.4 16.0 0.7
S=0.08

30) NEAR TONRARA, SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KJ4 44.7 47.2 2.5 -0.1 -0.2 13.9 269
KUT 45.0 47.7 2.7 0.0 -0.0 15.7 197
YUK 45.7 49.0 3.3 -0.1 -0.1 22.2 166
KCE 46.8 50.8 4.0 0.0 -0.1 29.6 217

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 22 6 15 36.2 0.1 113.9 0.3 74.8 0.3 2.9 2.7
S=0.08

32) NEAR AKAGI, SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KCE 39.7 42.4 2.7 -0.0 0.1 20.9 217
KJ4 38.1 39.5 1.4 -0.0 -0.0 11.1 307
YUK 39.3 41.4 2.1 0.1 -0.0 17.9 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 24 14 54 8.0 0.3 108.0 1.2 37.7 2.0 28.6 2.4
S=0.19

8) CENTRAL PART OF SHIMANE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KCE 14.4 19.2 4.8 -0.1 -0.1 26.4 113
YUK 17.5 24.0 6.5 0.1 -0.2 48.3 100
KUT 15.8 21.8 6.0 -0.1 0.1 27.5 93
SHK 25.9 34.8 153

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 24 16 31 4.6 0.2 103.0 1.2 76.2 0.5 10.6 1.2
S=0.15

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KCE 7.5 10.0 2.4 -0.2 -0.0 15.3 268
YUK 6.9 8.7 1.7 -0.1 -0.1 9.7 112
KUT 6.5 7.6 1.1 0.0 -0.3 3.1 339

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 21 16 37 59.4 0.3 48.7 1.1 56.6 1.2 22.9 1.3
S=0.24

53) NEAR HACHIHONMATSU, HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 63.5 66.7 3.2 -0.3 -0.2 12.0 29
MKW 68.4 75.3 6.9 -0.1 0.1 49.4 67
KUT 70.1 77.9 7.8 -0.0 -0.1 60.1 17
FUB 90.4 -0.4* 106.3 27
KCE 68.5 75.3 6.8 0.1 0.3 49.0 6
YUK 69.8 58.1 29

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 22 0 1 59.9 0.1 85.7 0.4 90.0 0.5 16.4 1.0
S=0.15

42) EASTERN PART OF HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
YUK 63.6 66.0 2.4 0.0 -0.3 14.5 340
MKW 64.3 67.8 3.5 -0.1 0.0 21.5 145
KUT 65.1 68.7 3.6 0.2 0.1 25.1 323
KCE 65.7 69.8 4.1 0.0 -0.1 30.4 292
SHK 66.8 71.9 5.1 -0.0 -0.0 38.2 225
KJ4 67.3 72.3 5.0 -0.2 -0.7X 42.4 325

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 AUG 22 1 49 35.9 0.3 108.1 1.2 92.3 1.4 19.0 1.7
S=0.20

27) HIWA, HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KCE 42.0 48.8 4.8 -0.2 0.1 32.2 250
KJ4 41.7 45.9 4.2 -0.0 -0.1 29.1 295
YUK 39.8 42.1 2.4 0.1 -0.2 11.3 219

LIST OF STATIONS

ST.NO.	X	Y	Z	CODE	NAME	DATE	ORIGIN TIME H M S +/-	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1	59.155	62.520	0.285	SHK	SHIRAKI	1969 AUG 26 13 31	23.9 1.1	54.3 8.7	28.418.4	59.5 10.8
2	67.922	102.120	0.320	MKW	MIKAWA					
3	105.907	75.106	0.336	KUT	KUTSU-GA-HARA					
4	142.700	106.239	0.190	FUB	FURE					
5	64.650	105.429	0.230	UZT	UZUTO					
6	0.0	0.0	0.0							
7	0.0	0.0	0.0							
8	0.0	0.0	0.0							
9	0.0	0.0	0.0							
10	0.0	0.0	0.0							
11	148.172	208.649	0.160	FO	FUNAKKA					
12	148.246	244.715	0.260	OY	OYA					
13	109.323	224.066	0.200	MZ	MIKAZUKI	1969 AUG 28 5 10	12.6 0.1	98.4 0.6	88.4 0.9	0.6 66.4
14	108.042	265.609	0.230	IZ	IZUMI					
15	136.304	279.698	0.250	HM	HIKAMI					
16	0.0	0.0	0.0							
17	-51.393	138.163	0.020	URS	UGURUSU					
18	-39.769	155.372	0.230	WMY	WAKAMIYA					
19	-34.681	136.427	0.510	IHR	ISHIHARA					
20	0.0	0.0	0.0							
21	168.020	199.856	0.017	TOT	TOTTORI					
22	159.325	123.303	0.007	YON	YONAGO					
23	161.737	98.359	0.017	MIS	MATSUE					
24	99.298	6.752	0.018	HPD	HAMADA					
25	40.381	40.333	0.029	HIR	HIROSHIMA					
26	75.760	176.561	0.004	OKA	OKAYAMA					
27	35.192	190.180	0.010	TKM	TAKAMATSU					
28	-17.784	72.270	0.032	MTY	MATSUYAMA					
29	170.413	259.151	0.004	TYK	TOYOKKA					
30	24.128	121.929	0.026	SAT	SAIGO					
31	-8.129	-81.929	0.046	SHN	SHIMONOSEKI					
32	-8.127	91.914	0.043	UMA	UMAJIMA					
33	-12.127	91.914	0.043	ASZ	ASHIZURI					
34	-12.005	142.806	0.030	KNC	KONCHU					
35	-83.523	202.515	0.185	PRC	PURTO-MISAKI					
36	-12.465	238.214	0.059	TSS	TSURUGI-SAN					
37	7.221	238.214	0.002	TOK	TOKOSHIMA					
38	37.221	268.683	0.109	SUM	SUMOTO					
39	92.978	268.683	0.037	HME	HIMEJI					
40	76.685	293.168	0.038	KOB	KONE					

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 26 13 31	23.9	1.1		54.3	8.7	28.418.4
65) WESTERN PART OF HIROSHIMA						
						MAG=1.7 S=0.56
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
SHK	35.0	43.9	8.9	-0.4*	0.1	34.5
KUT	E 39.5	E 50.1	10.6	0.3*	-0.3	69.6
FUB		62.0			-0.0	117.8

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 28 5 10	12.6	0.1		98.4	0.6	88.4 0.9
40) MIYOSHI AND SHOBARA						
						MAG=1.2 S=0.07
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
KUT	15.4	17.2	1.8	0.1	-0.0	15.3
SHK	20.6	26.4	5.8	-0.0	0.0	47.0
FUB		26.6			0.0	47.8

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 31 12 25	10.3	0.1		36.3	0.3	10.0 0.4
70) HIROSHIMA-YAMAGUCHI BORDER						
						MAG=1.9 S=0.03
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
SHK	20.7	28.3	7.6	-0.1	-0.1	57.3
KUT	29.8	38.7	8.9	3.0X	-0.1	95.3
MKW	E 27.0	39.3	12.3	-0.1	-0.1	97.4

DATE	ORIGIN TIME			X(KM)	Y(KM)	DEPTH(KM)
	H	M	S	+/-	+/-	+/-
1969 AUG 31 15 57	51.4	0.2		118.0	0.6	98.7 0.8
25) NEAR EROSHI-YAMA						
						MAG=1.4 S=0.18
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST
FUB	55.8	58.9	3.1	-0.0	-0.2	25.8
KUT	56.1	59.2	3.1	0.2	-0.1	26.5
MKW	59.8	66.0	6.2	-0.0	-0.0	50.2
SHK	62.9	71.1	8.2	-0.1	-0.3*	69.1


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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 3 7 42 52.2 0.3 79.6 1.0 12.9 1.7 22.9 3.9 +/-
10) WESTERN PART OF SHIMANE
MAG=1.6 S=0.17
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 61.8 69.2 7.4 -0.1 -0.1 53.7 112
KUT 64.2 72.8 8.6 0.1 -0.0 67.5 67
MKW E 67.8 79.0 11.2 0.1 -0.0 90.0 97
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 4 16 45 16.0 0.3 51.4 1.1 65.6 1.0 28.6 1.5 +/-
53) NEAR HACHIONMATSU,HIROSHIMA
MAG=1.4M S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 21.1 24.6 3.5 0.1 -0.1 8.3 338
MKW 24.1 30.3 6.2 -0.1 0.0 40.1 65
KUT 34.0 34.0 -0.0 -0.0 55.3 9
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 5 11 53 20.3 0.1 132.2 0.3 72.6 0.4 1.1 R +/-
7) NEAR KAKEYA, SHIMANE
MAG=3.0R S=0.06
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 26.2 40.8 8.7 0.0 0.1 35.2 72
MKW 32.1 40.8 8.7 0.0 0.1 70.7 155
SHK 32.7 E 41.6 8.9 0.1 -0.0 73.7 187
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 6 12 29 29.0 0.1 132.7 0.4 70.5 0.5 1.4 R +/-
7) NEAR KAKEYA, SHIMANE
MAG=1.7 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.4 36.9 3.5 -0.1 0.0 27.2 170
FUB E 35.2 39.7 4.5 0.0 -0.0 37.1 74
MKW 41.1 49.8 8.7 0.1 -0.0 72.1 153
SHK 41.4 50.3 8.9 0.1 -0.1 74.0 186
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 6 13 45 21.5 0.6 89.1 1.9 17.4 3.9 24.4 8.6 +/-
10) WESTERN PART OF SHIMANE
MAG=1.9R S=0.42
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 31.4 38.4 7.0 -0.0 -0.3 54.2 123
KUT E 32.5 38.5 8.3 0.0 -0.3 64.1 173
MKW 36.6 47.9 11.0 0.3 0.2 87.3 104
FUB 39.3 51.8 12.5 0.0 -0.5* 103.8 58
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 6 17 15 14.6 0.2 58.9 0.5 61.9 0.5 27.5 0.7 +/-
53) NEAR HACHIONMATSU,HIROSHIMA
MAG=1.5B S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 19.2 22.7 3.5 -0.0 0.1 0.7 67
MKW 22.9 29.0 6.1 0.0 0.0 41.2 77
KUT E 24.1 E 30.8 6.7 0.1 -0.0 48.8 15
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 6 23 53 54.6 0.2 100.9 0.4 82.6 0.7 12.7 1.4 +/-
33) NEAR KUTSUGAHARA
MAG=1.8 S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 57.4 59.1 1.7 0.2 -0.1 9.0 303
MKW 61.3 66.3 5.0 -0.0 0.0 38.3 149
SHK 62.6 68.3 5.7 -0.0 -0.2 46.3 205
FUB 63.0 68.7 5.7 0.1 -0.3 48.0 29
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S +/-
1969 SEP 12 17 0 31.7 0.2 100.8 0.7 23.1 1.2 6.2 R +/-
10) WESTERN PART OF SHIMANE
MAG=1.5 S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.3 46.7 6.4 -0.2 -0.2 52.3 84
SHK E 41.3 48.4 7.1 -0.0 0.0 57.3 136
MKW 46.2 56.5 10.3 0.2 0.0 85.6 112
FUB 47.2 58.9 11.7 -0.1 0.3 93.1 63

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 15 2 20 21.1 0.6 83.8 1.2 34.5 1.7 22.2 6.2
65) WESTERN PART OF HIROSHIMA MAG=3.1R S=0.31

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
HMD 27.8 32.2 4.4 0.2 -0.1 31.8 299
SHK I 28.3 37.3 37.3 131
KUT 30.1 46.3 61
MKW 33.3 69.5 103
FUB 36.8 E 45.8 9.0 -0.3 -2.9X 92.9 50
MIS E 42.7 50.9 8.2 4.4X -0.0 100.8 39

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 15 7 42 38.4 2.0 84.6 4.0 45.11 0.8 17.2 20.7
65) WESTERN PART OF HIROSHIMA MAG=2.9B S=0.72

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 44.0 -0.3 30.9 145
KUT 45.7 0.5X 36.8 54
MKW 49.0 0.5 -0.3 59.4 106
FUB 52.6 63.0 10.4 -0.2 -0.3 84.3 46

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 15 2 4 28.3 0.6 83.5 1.4 38.8 3.1 14.2 7.0
65) WESTERN PART OF HIROSHIMA MAG=2.2B S=0.43

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 34.5 38.6 4.1 0.0 -0.4X 34.0 135
KUT 36.2 41.6 5.4 0.4X 0.3 42.7 58
MKW 39.5 47.8 8.3 0.1 0.2 65.2 103
FUB 43.3 54.0 10.7 -0.1 -0.5X 89.7 48

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 15 17 31 43.2 0.1 59.4 0.3 118.0 0.3 13.7 0.5
44) NEAR FUCHU MAG=1.4 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 47.0 49.8 2.8 -0.0 0.0 18.0 298
SHK 52.7 59.7 7.0 -0.0 -0.0 55.5 269
KUT 54.1 61.9 7.8 0.1 -0.0 63.3 317
FUB 57.4 I 67.8 10.4 -0.0 -0.0 84.1 351

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 16 20 53 0.4 0.3 76.7 1.1 23.8 1.9 26.5 3.3
65) WESTERN PART OF HIROSHIMA MAG=1.7 S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 9.0 14.8 5.8 0.2 -0.1 42.5 114
KUT E 11.1 19.2 8.1 -0.1 0.1 59.0 60
MKW E 14.2 24.5 10.3 -0.1 0.1 78.8 96

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 17 10 10 30.7 0.5 35.4 2.2 138.8 3.3 62.1 3.6
91) KAGAWA MAG=2.7R S=0.35

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW I 43.9 53.8 9.9 -0.0 0.2 49.0 311
SHK 47.5 59.7 12.2 -0.1 -0.3 79.9 287
KUT 50.0 65.9 13.9 0.4X 0.4* 95.0 317
FUB 52.1 67.4 15.3 0.0 -0.3* 112.1 343

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 17 22 19 16.1 0.1 106.0 0.5 60.6 0.7 0.4 R
361) NEAR TSUGA, SHIMANE MAG=1.6 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 18.5 20.3 1.8 -0.0 0.0 14.5 80
SHK 23.7 29.7 6.0 0.0 0.0 17.7 177
MKW 25.7 32.3 6.6 0.2 -0.1 56.3 132
FUB E 26.0 32.9 6.9 0.1 -0.1 58.6 51

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 18 16 8 48.1 0.2 95.5 0.4 69.2 0.8 14.1 1.1

38) NEAR SAKUGI, HIROSHIMA

MAG=0.6 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 51.3 53.5 2.2 0.1 -0.0 12.0 29
SHK 54.7 59.4 4.7 -0.0 -0.1 37.0 190
MKW 61.2 65.7 4.5 0.0 0.0 42.9 129
FUB E 58.5 65.7 7.2 0.1 -0.2 60.0 38

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 18 16 9 56.8 0.3 95.6 0.8 68.5 1.5 13.0 2.3

38) NEAR SAKUGI, HIROSHIMA

MAG=0.8 S=0.32

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 60.2 62.0 1.8 0.4* -0.0 12.2 32
SHK 63.5 67.9 4.4 0.2 -0.2 36.3 189
MKW 70.1 74.4 4.3 0.2 0.2 43.5 129
FUB 67.2 74.4 7.2 0.1 -0.2 60.4 38

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 18 16 13 6.1 0.1 96.9 0.4 67.5 0.8 7.5 1.4

38) NEAR SAKUGI, HIROSHIMA

MAG=0.9 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 8.2 10.3 2.1 -0.3 0.1 11.8 40
SHK 12.6 17.3 4.7 0.0 -0.0 38.1 187
MKW 12.7 19.3 5.6 -0.0 -0.0 45.1 129
FUB 16.3 23.5 7.2 0.1 -0.1 60.0 40

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 20 7 13 28.8 0.2 84.3 0.5 92.6 0.7 19.0 1.7

42) EASTERN PART OF HIROSHIMA

MAG=1.1 RR S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 33.3 36.7 3.4 -0.0 0.1 18.9 149
KUT 34.7 38.6 3.9 0.3 0.0 27.8 321
SHK 36.2 41.2 5.0 0.1 -0.2 39.2 230
FUB 39.3 46.8 7.5 0.0 -0.2 60.0 13

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 22 2 56 22.9 0.6 65.8 1.7 118.6 2.6 18.9 2.8

44) NEAR FUCHU

MAG=1.6 S=0.38

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 27.2 30.2 3.0 0.1 -0.0 16.6 277
SHK 32.6 39.9 7.3 -0.2 -0.2 56.5 263
KUT 33.7 41.0 7.3 0.4* -0.1 59.2 312
FUB 45.7 52.2 7.3 -0.3* -0.3* 77.9 350

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 22 6 21 26.5 0.2 141.7 1.0 101.1 1.0 9.3 1.4

20) CENTRAL SHIMANE-TOTTORI BORDER

MAG=1.9 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 1 28.3 29.6 1.3 -0.0 -0.0 5.2 28
KUT 34.1 39.7 5.6 0.1 0.1 44.2 215
MKW 39.0 48.0 9.0 0.1 0.0 73.6 179
SHK 41.6 52.7 11.1 -0.2 -0.2 91.1 205

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 22 10 42 12.4 0.1 61.9 0.3 77.4 0.2 27.1 0.4

50) CENTRAL PART OF HIROSHIMA

MAG=0.9M S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 17.6 21.5 3.9 -0.0 0.1 15.1 259
MKW E 18.7 23.2 4.5 -0.1 0.0 25.4 76
KUT E 21.1 27.4 6.3 0.0 0.0 44.1 357

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 22 16 19 23.8 0.1 120.1 0.2 50.1 0.4 1.3 R

8) CENTRAL PART OF SHIMANE

MAG=2.08 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 28.5 E 32.0 3.5 -0.1 -0.1 28.8 119
FUB E 33.8 41.3 7.5 -0.1 0.0 60.5 68
SHK 34.2 41.7 7.5 0.0 -0.1 62.2 168
MKW 36.0 45.1 9.1 -0.1 0.0 73.7 135

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 23 14 37 23.9 0.1 62.5 0.2 98.8 0.2 16.0 0.3
42) EASTERN PART OF HIROSHIMA MAG=1.59 S=0.03

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 26.8 28.9 2.1 -0.0 -0.1 6.4 31
SHK 30.5 35.4 4.9 -0.1 -0.0 36.4 264
KUT 38.9 49.5 0.0 0.0 49.5 331

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 24 7 15 34.9 0.2 114.6 0.6 73.1 1.1 10.0 1.2
32) NEAR AKAGI, SHIMANE MAG=1.5 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 37.3 E 38.8 1.5 0.1 -0.0 8.9 167
FUB 42.2 47.8 5.6 -0.1 0.0 43.4 49
MKW 44.2 51.1 6.9 -0.0 0.1 55.0 148
SHK 44.7 51.2 6.5 0.2 -0.3 56.4 190

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 24 17 49 32.7 0.3 78.6 0.4 66.0 1.4 12.4 2.3
50) CENTRAL PART OF HIROSHIMA MAG=0.7 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 36.5 39.5 3.0 -0.1 0.0 19.8 190
KUT 38.0 41.7 3.7 0.1 -0.1 28.8 18
MKW 39.3 37.7 0.0 0.0 37.7 106

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 25 18 25 47.3 0.1 114.7 0.5 73.0 0.9 7.9 1.1
32) NEAR AKAGI, SHIMANE MAG=1.3 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.5 50.7 1.2 0.2 -0.1 9.0 166
FUB 54.5 60.0 5.5 -0.2 -0.1 43.5 49
MKW 56.7 63.3 6.6 0.1 -0.1 55.1 148
SHK 56.8 63.6 6.8 0.0 -0.2 56.5 190

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 26 13 58 57.6 0.3 110.2 1.2 75.8 0.8 1.2 1.8
33) NEAR KUTSUGAHARA MAG=0.9 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.3 59.0 0.7 -0.1 0.1 4.3 189
MKW 72.0 72.0 0.0 0.0 49.8 148
SHK 66.5 72.8 6.3 0.1 -0.0 52.7 194

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 SEP 29 9 44 18.5 0.5 34.7 2.4 103.4 2.1 20.5 4.0
47) NEAR IKUCHIJIMA MAG=0.8+ S=0.40

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 25.2 29.8 4.6 0.2 -0.0 33.2 357
SHK 27.1 33.2 6.1 -0.1 -0.3 47.6 300
KUT 32.1 41.8 9.7 0.4* 0.4* 76.6 338
FUB 36.5 49.9 13.4 -0.3* -0.4* 108.0 1

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 3 22 8 6.9 0.3 70.5 1.3 -1.2 2.2 7.9 17.2
10) WESTERN PART OF SHIMANE MAG=1.5 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 17.7 25.8 8.1 -0.1 0.1 66.7 100
KUT 21.2 31.2 10.0 0.2 -0.1 84.1 65
MKW 26.1 36.9 12.8 -0.1 0.1 103.4 91

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 4 12 53 31.4 0.1 112.9 0.2 85.1 0.3 4.3 1.3
31) CENTRAL PART OF TAKANO, HIROSHIMA MAG=1.1 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.5 35.2 1.7 -0.1 0.0 12.2 235
FUB 37.5 42.0 4.5 -0.0 -0.0 36.5 35
MKW E 39.5 45.3 5.8 0.0 -0.0 48.1 159
SHK 41.2 48.2 7.0 0.1 -0.1 58.3 202

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 5 8 4 43.4 0.2 4.2 1.1 129.5 1.0 17.9 4.4
95) EHIME MAG=1.9 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 55.3 64.2 8.9 -0.1 0.1 69.4 336
SHK E 58.2 69.0 10.8 0.0 0.0 86.6 309
KUT 63.0 77.1 14.1 0.1 -0.0 115.3 331
FUB 67.0 83.2 16.2 0.0 -1.1 140.4 350

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 5 8 12 23.2 0.1 107.5 0.4 76.2 0.7 10.5 1.3
33) NEAR KUTSUGAHARA MAG=2.1B S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 25.1 36.8 5.5 0.2 -0.1 46.3 40
FUB 31.3 37.3 6.0 0.0 -0.1 47.3 146
MKW 31.8 38.0 6.2 0.0 -0.0 50.2 195
SHK

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 7 7 36 18.5 0.6 69.4 1.9 99.0 2.1 18.3 3.3
42) EASTERN PART OF HIROSHIMA MAG=1.0 S=0.50

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 22.0 23.9 1.9 0.3* -0.1 3.5 115
SHK 25.8 30.3 4.5 0.3 -0.4* 37.9 254
KUT 32.7 32.7 0.0 0.5X 43.6 326
FUB 31.2 40.0 8.8 0.0 -0.4* 73.7 5

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 7 17 53 38.9 0.2 89.8 0.6 13.0 1.2 12.1 5.6
101) WESTERN PART OF SHIMANE MAG=1.9B S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 48.7 56.1 7.4 -0.1 0.0 58.2 121
KUT 49.9 57.8 7.9 0.1 0.0 64.2 75
MKW 54.3 65.7 11.4 -0.0 0.1 91.8 103
FUB 57.0 69.9 12.9 0.1 -0.1 107.2 60

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 11 8 24 58.8 0.3 132.8 1.3 73.4 1.9 9.7 4.4
71) NEAR KAKEYA, SHIMANE MAG=1.8M S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 64.0 67.1 3.1 0.4* -0.0 26.9 176
FUB 66.0 70.3 4.3 -0.0 -0.1 31.3 73
MKW 70.9 79.6 8.7 0.2 0.1 71.0 152
SHK 71.3 80.1 8.8 -0.0 -0.4* 74.4 188

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 OCT 11 21 10 7.9 0.4 125.0 1.2 65.9 1.9 5.1 12.5
301) NEAR TONBARA, SHIMANE MAG=2.8B S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.7 11.7 0.0 0.2 21.2 154
FUB 15.5 20.4 4.9 0.0 -0.3* 44.1 66
SHK 18.9 26.7 7.8 -0.0 -0.3 65.9 182
MKW 19.1 27.6 8.5 -0.1 0.1 67.6 147

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 24 0 4 9.9 0.1 102.0 0.7 82.2 1.0 6.5 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.9 12.9 1.0 0.2 -0.1 8.1 298
MKW 24.2 25.9 2.7X 39.5 149
SHK E 17.6 23.9 6.3 -0.3 0.2 47.2 204
FUB 17.8 23.8 6.0 -0.1 0.1 47.2 30
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 24 3 26 20.6 0.3 44.4 1.3 64.3 1.0 10.0 1.9
53) NEAR HACHIMONMATSU-HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 23.4 25.9 2.5 -0.2 0.1 14.9 353
MKW 28.3 33.7 5.4 0.1 -0.1 44.5 58
KUT 31.2 38.8 7.6 0.1 -0.1 62.4 9
FUB E 37.7 50.0 12.3 -0.8X -1.6X 106.9 23
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 24 22 52 6.6 0.3 113.9 0.7 76.0 1.3 11.6 2.8
32) NEAR AKAGI, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 9.1 19.0 5.2 -0.0 0.1 8.0 186
FUB E 13.8 15.8 22.2 0.2 -0.0 52.9 150
MKW 15.8 22.2 6.4 0.2 -0.0 52.9 150
SHK 16.3 22.9 6.6 0.1 -0.3* 56.4 193
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 24 23 27 17.3 0.3 12.5 1.0 58.1 1.8 37.8 2.3
58) NEAR KURAHASHIJIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
HIR I 25.7 I 31.8 6.1 0.0 -0.0 33.0 327
KUT E 25.8 I 31.8 6.0 0.1 -0.1 33.5 155
SHK 27.5 E 32.6 5.1 0.1 -2.1X 46.8 5
MKW 30.8 0.1 0.1 70.7 38
KUT 34.1 -0.3 94.9 10
FUB 39.0 -2.3) 138.8 20
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 14 23 29 32.8 0.1 101.2 0.6 82.2 0.8 4.6 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 34.7 35.4 0.7 0.3 -0.2 8.5 303
MKW 40.5 46.5 1.7X 38.8 149
SHK 40.7 46.7 5.7 -0.1 -0.1 46.4 205
FUB 40.7 46.7 6.0 -0.1 -0.0 48.0 30
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 20 9 34 12.3 0.2 86.8 0.3 66.8 0.7 7.1 2.5
50) CENTRAL PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 16.0 18.7 2.7 0.0 0.0 20.8 23
SHK 17.0 I 20.7 3.7 -0.1 0.0 28.0 188
MKW 19.0 24.1 5.1 -0.1 0.0 40.0 118
FUB 24.0 32.0 8.0 0.2 -0.2 68.4 35
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 22 12 15 46.8 0.1 122.4 0.4 77.5 0.6 9.5 1.1
30) NEAR TONBARA, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 50.0 E 52.4 2.4 -0.0 0.0 16.7 188
FUB 53.0 57.2 4.2 0.1 -0.1 35.2 54
MKW I 64.3 59.8 155
SHK E 57.7 65.7 8.0 -0.1 -0.1 65.0 193
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H  M  S  +/-      +/-      +/-
1969 OCT 22 13 59 45.4 0.2 108.0 0.7 33.6 1.5 18.6 3.2
8) CENTRAL PART OF SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.1 58.6 5.5 0.1 0.0 41.6 92
SHK 55.5 62.5 7.0 0.1 -0.2 56.8 149
MKW 59.0 69.0 10.0 0.0 0.0 79.4 120
FUB 59.0 68.1 9.1 -0.2 -1.2X 80.5 64
*****

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 OCT 28 12 19 51.5 0.7 141.8 3.0 7.5 5.5
1969 OCT 29 23 2 32.4 0.3 16.9 1.4 49.7 2.8 55.1 1.5

58) NEAR KURASHIJIMA MAG=2.3 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 44.3 52.8 8.5 0.1 -0.0 44.2 16
MKW 47.7 50.3 0.0 0.1 73.2 45
KUT 50.3 63.6 13.3 -0.1 0.1 92.6 15
FUB 56.1 73.8 17.7 -1.1 -1.5 137.9 24

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 OCT 31 3 15 5.2 0.1 72.6 0.3 77.5 0.3 10.4 1.4
50) CENTRAL PART OF HIROSHIMA MAG=1.7 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 8.9 11.9 3.0 -0.1 0.1 20.1 228
MKW 9.8 13.1 3.3 0.1 0.0 25.1 100
KUT E 11.2 E 15.3 4.1 0.2 -0.0 33.4 355
FUB 18.0 27.3 9.3 0.1 0.0 75.8 22

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 OCT 28 12 19 51.5 0.7 141.8 3.0 7.5 5.5
1969 OCT 29 23 2 32.4 0.3 16.9 1.4 49.7 2.8 55.1 1.5

20) CENTRAL SHIMANE-TOTTORI BORDER MAG=1.7 S=0.45

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 52.8 60.1 65.8 5.7 0.3* -0.0 49.0 292
KUT 60.1 73.0 8.9 0.2 -0.5X 74.1 182
MKW 64.1 73.0 8.9 0.2 -0.5X 74.1 182
SHK 66.8 77.6 10.8 -0.5X -1.3X 94.5 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 OCT 28 13 12 10.9 0.5 116.7 1.9 48.2 3.5 20.5 5.6
8) CENTRAL PART OF SHIMANE MAG=1.9 S=0.46

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 17.3 21.3 4.0 0.4* 0.1 29.0 111
SHK 21.2 26.5 7.3 -0.2 -0.5X 59.3 166
FUB 22.0 29.7 7.7 -0.0 -0.5X 63.6 65
MKW E 23.8 32.8 9.0 0.3 0.1 72.7 132

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 OCT 29 17 44 34.2 0.2 46.4 0.7 67.7 0.5 14.1 0.8
53) NEAR HACHIONMATSU,HIROSHIMA MAG=1.3M S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 37.6 I 39.9 2.3 0.1 -0.0 13.8 337
MKW 41.3 46.7 5.4 -0.1 0.1 40.6 57
KUT E 44.5 E 52.0 7.5 0.0 -0.0 60.0 7

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 OCT 29 17 46 21.5 0.5 47.8 2.0 66.9 1.7 13.8 2.6
53) NEAR HACHIONMATSU,HIROSHIMA MAG=1.4M S=0.37

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 24.5 26.8 2.3 -0.1 -0.1 12.2 338
MKW 28.7 34.0 5.3 0.0 0.1 40.6 60
KUT 31.9 39.3 7.4 0.3* 0.4* 58.7 8
FUB E 38.5 51.0 12.5 -0.3 -0.4* 102.7 22

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 1 15 31 2.0 0.5 121.8 2.0 64.4 3.4 16.6 4.3
30) NEAR TONBARA, SHIMANE MAG=1.0 S=0.51

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 7.0 9.3 2.3 0.7X -0.1 19.2 146
FUB 10.3 16.0 5.7 0.0 -0.3 44.8 63
SHK 12.6 20.3 7.7 -0.2 62.7 181
MKW 13.7 21.7 8.0 0.4* 65.8 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 1 18 8 37.2 0.3 120.5 0.8 80.7 1.2 6.9 5.2
30) NEAR TONBARA, SHIMANE MAG=1.2B S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.2 47.0 4.0 0.0 0.1 15.6 200
FUB 43.0 47.0 4.0 0.0 -0.2 33.8 49
MKW 46.9 53.7 6.8 0.2 -0.0 56.8 157
SHK 47.9 55.5 7.6 -0.0 -0.3 64.0 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 4 19 49 17.5 0.2 121.5 0.6 77.4 1.0 6.7 2.0
30) NEAR TONBARA, SHIMANE MAG=1.3 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.6 E 22.5 1.9 0.2 0.0 15.8 188
FUB 23.7 27.9 4.2 0.1 -0.1 35.8 53
MKW 27.6 34.7 7.1 0.2 0.0 59.0 155
SHK E 28.2 36.0 7.8 -0.0 -0.1 64.1 193

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 5 7 38 55.3 0.0 52.6 0.0 65.1 0.0 28.3 0.0
53) NEAR HACHIONWATSU-HIROSHIMA MAG=1.5M S=0.01

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 60.2 63.8 3.6 -0.0 0.0 7.0 338
MKW 63.5 69.5 6.0 -0.0 -0.0 40.1 67
KUT E 73.0 77.0 7.5 -0.0 -0.0 54.2 10

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 6 0 39 45.6 0.5 78.5 1.7 15.5 3.6 17.8 9.7
10) WESTERN PART OF SHIMANE MAG=1.5 S=0.36

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 54.3 61.2 6.9 -0.3 0.0 50.8 112
KUT 65.4 71.4 11.0 -0.1 0.2 65.6 65
MKW 60.4 71.4 11.0 -0.1 0.1 87.3 96
FUB 64.7 77.7 13.0 0.3* -0.4* 111.2 54

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 6 11 5 25.3 0.2 107.2 0.6 74.6 1.1 10.7 2.0
33) NEAR KUTSUGAHARA MAG=1.3 S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 27.2 33.4 39.2 5.8 -0.0 -0.2 47.6 158
FUB 33.4 39.4 5.7 0.2 -0.1 48.0 141
MKW 33.7 39.4 5.7 0.2 -0.1 48.0 144
SHK 33.8 39.7 5.9 0.0 -0.2 49.5 194

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 7 0 5 42.4 0.2 20.2 1.3 81.9 0.8 14.3 3.5
95) EHIME MAG=1.1 S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 50.0 55.7 5.7 -0.0 0.1 43.5 333
MKW 51.3 58.0 6.7 -0.1 0.1 51.8 22
KUT 57.1 67.5 10.4 0.2 -0.1 86.0 355
FUB 77.9 124.9 11

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 7 0 6 57.3 0.2 71.2 0.7 123.0 1.0 26.0 1.1
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.2 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 63.0 67.0 4.0 0.1 -0.0 21.1 261
KUT 76.0 76.0 0.0 0.0 0.0 59.1 305
SHK 68.4 76.7 8.3 -0.1 0.0 61.7 258

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 7 6 49 9.6 0.6 114.9 1.7 67.5 3.0 12.1 7.4
32) NEAR AKAGI, SHIMANE MAG=1.3 S=0.49

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 12.7 12.7 0.2 0.2 11.8 139
FUB 18.0 23.5 5.5 0.2 -0.3* 47.7 54
SHK 19.4 21.7 6.3 0.2 -0.4* 56.0 185
MKW 20.4 27.0 6.6 0.9X 0.2 58.4 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 7 12 42 29.6 0.9 118.6 3.7 80.6 6.3 13.5 9.6
30) NEAR TONBARA, SHIMANE MAG=2.8R S=0.50

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.0 33.0 0.1 0.1 13.8 203
FUB 35.7 39.2 -0.2 0.1 35.2 46
MKW 39.2 47.6 7.2 0.2 -0.4* 55.1 156
SHK 40.4 47.6 7.2 0.2 -0.4* 62.1 196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 7 13 3 55.9 0.0 112.7 0.2 88.0 0.3 7.5 0.5
31) CENTRAL PART OF TAKANO, HIROSHIMA MAG=1.2 S=0.01

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.7 60.7 2.0 0.0 0.0 14.6 242
FUB 61.9 66.3 4.4 0.0 0.0 35.1 31
SHK E 65.9 73.2 7.3 0.0 0.0 59.3 205

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 7 14 16 43.9 0.2 117.0 0.6 83.5 1.0 6.7 2.4
31) CENTRAL PART OF TAKANO, HIROSHIMA MAG=1.5 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 46.7 E 48.4 1.7 0.2 -0.0 13.9 217
FUB 49.6 54.1 4.5 -0.1 0.1 34.3 41
MKW 52.9 59.2 6.3 0.2 0.0 52.5 159
SHK 54.4 61.6 7.2 0.2 -0.2 61.5 199

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 8 14 22 53.1 0.6 65.2 1.8 128.5 4.1 14.8 6.0
801 SOUTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.4 S=0.61

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 58.3 61.9 3.6 0.1 -0.0 26.5 275
SHK E 64.1 71.2 7.1 -0.3* -1.5X 66.3 264
KUT 65.0 73.0 8.0 0.4* 0.0 67.1 307
FUB 76.6 80.6 -0.2 0.0 0.0 80.6 343

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 9 2 33 54.4 0.1 101.1 0.4 82.0 0.6 5.0 R
33) NEAR KUTSUGAHARA MAG=0.9 S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 56.2 57.2 1.0 0.1 -0.1 8.4 304
MKW 67.4 67.4 0.0 0.1 1.7X 38.8 148
SHK 62.3 67.7 5.4 0.1 -0.1 46.2 204
FUB 62.4 68.4 6.0 -0.1 0.0 48.1 30

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 9 5 19 30.2 0.1 108.1 0.4 78.1 0.7 8.4 0.8
33) NEAR KUTSUGAHARA MAG=1.3 S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.0 32.9 0.9 0.2 -0.0 3.7 233
FUB 37.7 43.4 5.7 -0.1 0.1 44.6 39
MKW 38.9 45.3 6.4 0.0 0.1 46.8 149
SHK 38.9 45.3 6.4 0.0 0.1 51.4 197

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 NOV 10 15 23 48.7 0.2 78.5 0.3 63.5 0.6 11.9 1.6
50) CENTRAL PART OF HIROSHIMA MAG=1.0 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 52.5 55.3 2.8 -0.0 -0.0 19.4 182
KUT 54.3 58.0 3.7 0.2 0.0 29.8 22
MKW 55.8 60.8 5.0 0.1 0.0 40.0 105
FUB 61.6 71.2 9.6 -0.1 -0.0 77.1 33

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 11 12 27 48.9 0.6 123.1 1.5 79.1 2.3 14.9 6.9
30) NEAR TONBARA, SHIMANE
MAG=1.3 S=0.39
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.0 59.3 4.3 -0.0 -0.2 17.7 193
FUB 55.0 54.8 0.0 0.0 0.0 33.5 54
MKW 66.8 66.8 0.1 0.1 0.1 59.8 157
SHK 60.3 68.0 7.7 0.1 -0.5# 66.1 194
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 12 5 43 45.7 0.1 93.6 0.2 66.1 0.4 10.6 0.9
36) NEAR SAKUGI, HIROSHIMA
MAG=1.2 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 51.1 56.2 4.4 0.0 0.0 15.3 36
SHK 51.8 58.9 5.7 -0.1 0.0 34.6 185
MKW 53.2 64.3 0.0 0.0 0.0 44.2 125
FUB 64.3 64.3 0.0 0.0 0.0 63.4 39
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 14 8 57 11.2 0.3 102.3 2.1 82.3 4.0 2.9 13.8
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.17
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 12.8 13.6 0.8 0.2 -0.1 8.0 296
MKW 24.3 24.3 0.0 0.0 0.0 39.7 150
SHK 19.0 25.8 6.0 -0.1 0.1 47.5 204
FUB 19.0 24.8 5.8 -0.0 0.0 47.0 30
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 16 8 58 42.7 0.5 15.3 2.0 42.3 2.5 2.9 R
58) NEAR KURASHIJIMA
MAG=1.7 S=0.27
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 50.8 56.4 5.6 0.0 -0.3 48.3 24
MKW 56.0 45.8 9.8 0.0 0.1 79.7 48
KUT 70.8 70.8 0.1 0.1 0.3 96.4 19
FUB 65.8 82.5 16.7 -0.7 -1.4 142.5 26
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 17 14 58 22.5 0.5 142.9 1.8 129.3 2.5 3.1 R
20) CENTRAL SHIMANE-TOTTORI BORDER
MAG=2.1 S=0.34
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 26.2 41.6 7.8 -0.2 0.3 23.1 269
KUT 33.8 33.8 0.0 0.0 0.1 65.6 235
MKW 36.1 45.4 9.3 0.3 -0.1 79.8 199
SHK E 40.1 52.3 12.2 -0.3 -1.1X 107.1 218
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 18 11 2 27.7 1.6 69.5 4.5 149.2 9.7 25.0 16.1
81) NEAR YAKAKE, OKAYAMA
MAG=1.9 S=0.86
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 43.3 43.3 0.0 0.2 0.2 47.1 268
KUT 42.8 53.1 10.3 0.7X 0.5# 82.6 296
FUB I 52.7 52.7 0.0 0.0 0.0 84.9 323
SHK 42.5 53.4 10.9 -0.3# -0.5X 87.3 263
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 18 12 59 52.4 0.5 116.0 1.4 84.5 2.1 12.4 3.8
31) CENTRAL PART OF TAKANO-HIROSHIMA
MAG=1.1 S=0.42
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.8 57.7 1.9 0.3 -0.1 13.8 222
FUB 62.8 62.8 0.0 0.2 -0.2 34.4 39
MKW 67.7 67.7 0.1 0.1 0.1 51.2 159
SHK 62.9 69.9 7.0 0.1 -0.5# 60.9 201
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 NOV 20 23 55 4.8 2.0 68.7 3.8 149.3 7.1 23.5 17.1
81) NEAR YAKAKE, OKAYAMA
MAG=1.5 S=0.74
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW E 13.8 20.0 6.2 0.2 -0.1 47.2 269
KUT 30.2 30.2 0.0 0.5# 83.0 296
FUB 30.5 30.5 -0.3# 85.6 329
SHK 30.5 30.5 -0.4# 87.3 263

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 21 0 5 53.0 0.5 80.8 1.2 1.1 2.4 13.4 11.6
10) WESTERN PART OF SHIMANE      MAG=1.4      S=0.20
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 64.1 72.1 8.0 0.0 -0.1 65.1 109
SHK 1 72.0 0.1 78.1 71
KUT 82.7 0.0 101.8 97
MKW 82.7 0.0 101.8 97
FUB 85.3 -0.1 122.0 59
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 21 1 49 38.8 0.2 103.4 0.5 75.2 1.0 11.1 2.0
33) NEAR KUTSUGAHARA      MAG=1.1      S=0.20
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.8 52.1 5.6 0.0 0.0 2.5 357
MKW 46.5 52.1 5.6 0.0 0.0 44.5 142
SHK 46.6 52.5 5.9 -0.1 0.0 46.0 195
FUB 47.6 53.4 5.8 0.2 -0.2 50.1 38
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 21 2 16 55.7 0.4 83.2 0.8 97.2 1.2 14.0 3.4
42) EASTERN PART OF HIROSHIMA      MAG=1.3      S=0.32
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 59.2 62.0 2.8 -0.1 0.1 16.1 162
KUT 61.9 65.7 3.8 0.4* -0.0 31.7 315
SHK 63.2 68.3 5.1 0.1 -0.3 42.2 235
FUB 73.3 -0.2 60.2 8
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 21 2 53 20.3 0.2 21.0 0.9 13.9 1.1 0.6 R
70) HIROSHIMA-YAMAGUCHI BORDER      MAG=1.0      S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 30.5 37.8 7.3 -0.1 -0.3* 61.8 51
MKW 37.0 49.1 12.1 0.0 -0.0 99.9 61
KUT 50.5 50.5 -0.0 104.7 35
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 21 4 7 59.5 0.2 64.9 0.8 87.0 1.0 70.7 0.9
50) CENTRAL PART OF HIROSHIMA      MAG=1.3      S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 80.5 81.3 9.3 -0.1 0.0 15.4 78
SHK 72.0 81.3 9.3 -0.1 0.1 25.1 256
KUT 73.4 83.4 10.0 0.1 -0.0 42.7 343
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 21 9 39 50.4 0.2 91.4 0.4 81.3 0.4 10.4 1.7
40) MIYOSHI AND SHORARA      MAG=0.7      S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.7 55.9 2.2 0.1 -0.0 15.8 336
MKW 56.0 60.0 4.0 0.1 0.0 31.4 138
SHK 56.8 61.7 4.9 -0.1 0.1 37.3 210
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 12 19 20.3 0.1 72.9 0.2 146.2 0.4 27.2 0.7
81) NEAR YAKAKE, OKAYAMA      MAG=1.7      S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 29.0 35.3 6.3 -0.0 -0.1 44.4 263
FUB 34.4 44.8 10.4 -0.1 -0.0 80.4 330
SHK 35.1 46.0 10.9 -0.1 -0.0 84.8 260
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-      +/-      +/-
1969 NOV 21 14 43 50.9 0.3 74.4 0.9 142.6 1.8 29.0 2.4
81) NEAR YAKAKE, OKAYAMA      MAG=2.2      S=0.17
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 59.2 65.5 6.3 -0.1 0.1 41.0 260
FUB 68.6 74.8 10.2 -0.1 -0.0 77.4 331
SHK 65.5 75.8 10.3 0.2 -0.1 81.5 259

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 21 17 56 52.5 0.6  67.8 2.1 114.7 2.8 17.4 3.3
44) NEAR FUCHU
MAG=1.2 S=0.50
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 56.3 58.8 2.5 0.2 0.0 0.0 12.6 270
SHK 62.0 68.2 6.2 0.2 -0.4* 52.9 260
KUT 69.7 74.4 8.8 0.2 0.5X 55.0 313
FUB 65.6 74.4 8.8 0.2 -0.4* 55.0 353
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 22 14 45 51.2 0.1  75.1 0.4 145.0 0.8 27.6 1.2
81) NEAR YAKAKE,OKAYAMA
MAG=2.2R S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 59.8 66.1 6.3 -0.0 -0.0 43.5 260
KUT 66.4 76.4 10.0 1.6X 1.7X 76.4 293
FUB 64.9 75.1 10.2 -0.1 0.0 77.9 330
SHK 66.0 76.7 10.7 0.0 -0.1 84.0 259
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 22 15 57 57.5 0.2  73.8 0.7 144.4 1.3 27.6 2.0
81) NEAR YAKAKE,OKAYAMA
MAG=1.8 S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 65.9 72.2 6.3 -0.1 -0.0 42.7 262
KUT 72.2 82.4 10.3 -0.1X 1.4X 76.4 294
FUB 71.3 81.6 10.3 -0.1 0.0 78.8 331
SHK 72.2 82.7 10.5 0.1 -0.1 83.2 259
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 23 14 27 34.3 0.2  104.7 1.3 82.1 1.9 9.7 R
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.58
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 36.8 38.3 1.5 0.5% 0.5X 7.1 279
MKW 47.3 47.3 0.6X 41.9 151
FUB 41.7 47.4 5.7 -0.3 -0.2 43.0 32
SHK 42.2 48.4 6.2 -0.5X -0.5* 49.6 203
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 24 5 48 29.2 0.1  124.6 0.2 85.0 0.4 0.5 R
30) NEAR TONBARA, SHIMANE
MAG=1.9B S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.7 33.9 E 37.2 3.3 0.0 -0.1 21.1 207
FUB 39.0 46.3 7.3 -0.1 0.0 27.9 49
MKW 39.5 46.3 7.3 -0.1 0.0 59.2 163
SHK 39.5 47.6 8.1 -1.2X -1.6X 69.2 198
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 24 15 1 17.3 0.1  75.9 0.2 151.9 0.1 10.2 0.8
81) NEAR YAKAKE,OKAYAMA
MAG=2.8R S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
OKA 21.8 I 25.0 3.2 0.1 -0.0 24.7 90
MKW 25.9 32.2 6.3 0.0 0.0 50.4 260
FUB 30.9 40.9 10.0 0.0 0.1 80.9 325
SHK 31.6 42.3 10.7 -1.0X -1.4X 90.9 259
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 24 15 4 20.2 0.2  73.0 0.6 141.9 1.1 37.1 1.3
81) NEAR YAKAKE,OKAYAMA
MAG=2.0 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 29.4 I 36.0 6.6 0.1 -0.0 40.1 262
FUB 34.7 45.2 10.5 0.0 -0.0 78.3 332
SHK 34.9 45.9 11.0 -0.1 0.1 80.6 260
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 NOV 24 15 30 36.6 0.2  72.6 0.7 147.4 1.4 29.0 2.1
81) NEAR YAKAKE,OKAYAMA
MAG=1.9 S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 45.7 52.1 6.4 0.1 -0.1 45.5 264
FUB 50.9 E 61.5 10.6 -0.1 -0.0 81.3 329
SHK 51.6 62.8 11.2 -0.1 -0.0 85.9 260

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 27 17 31 0.9 0.1 143.4 0.7 33.0 0.8
1969 NOV 27 17 31 0.9 0.1 143.4 0.7 33.0 0.8

81) NEAR YAKAKE, OKAYAMA MAG=2.1 S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 9.8 16.2 6.4 0.0 -0.1 41.5 263
KUT 15.8 26.2 10.4 1.1X 1.3X 76.1 296
FUB 15.2 25.8 10.6 -0.1 0.0 79.6 332
SHK 15.6 26.4 10.8 -0.0 -0.0 81.9 260

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 27 19 10 53.1 0.2 -11.1 0.6 52.4 1.5 46.3 1.1
1969 NOV 27 19 10 53.1 0.2 -11.1 0.6 52.4 1.5 46.3 1.1

95) EHIHNE MAG=2.68 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MTY E 61.7 1 67.7 6.0 0.1 -0.1 21.0 108
SHK 67.2 77.7 10.5 -0.1 0.1 71.0 8
MKW 70.6 83.2 12.6 0.1 -0.0 93.4 32
KUT 74.3 E 85.8 11.5 -0.1 -4.2X 119.2 10

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 30 3 25 7.2 0.5 116.0 1.9 70.3 3.3 1.6 R
1969 NOV 30 3 25 7.2 0.5 116.0 1.9 70.3 3.3 1.6 R

32) NEAR AKAGI, SHIMANE MAG=1.88 S=0.56

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 15.1 19.6 4.5 0.4# -0.5X 44.8 53
SHK 17.0 23.2 6.2 0.2 -0.6X 57.4 187
MKW 17.1 24.0 6.9 0.3 0.1 57.7 146

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 24 18 57 41.5 0.1 100.6 0.2 101.1 0.5 13.7 1.5
1969 NOV 24 18 57 41.5 0.1 100.6 0.2 101.1 0.5 13.7 1.5

40) MIYOSHI AND SHORARA MAG=1.5 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 47.4 51.8 4.4 -0.0 0.0 32.7 178
FUB 48.9 E 54.4 5.5 -0.0 0.0 42.4 6
SHK E 51.3 56.3 7.0 0.1 -0.0 56.6 222

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 26 1 24 54.2 0.7 113.3 1.6 116.7 2.7 17.0 8.6
1969 NOV 26 1 24 54.2 0.7 113.3 1.6 116.7 2.7 17.0 8.6

83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=2.3B S=0.50

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 59.8 67.6 7.8 0.3* -0.3* 31.2 340
KUT 62.2 67.6 5.4 0.4* 0.2 42.2 259
MKW 63.0 68.8 5.8 0.3* -0.0 47.7 197
SHK 67.3 76.3 9.0 0.0 -0.6X 76.6 225

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 26 16 41 28.0 0.4 77.8 1.3 152.3 0.8 7.6 8.0
1969 NOV 26 16 41 28.0 0.4 77.8 1.3 152.3 0.8 7.6 8.0

81) NEAR YAKAKE, OKAYAMA MAG=3.2B S=0.29

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
OKA I 32.4 35.4 3.0 0.1 0.0 24.3 94
MKW 36.4 42.9 6.5 -0.2 -0.0 51.1 258
FUB E 41.2 51.0 9.8 -0.1 -0.1 79.6 324
KUT 42.1 52.2 10.1 0.3* 0.4* 82.2 290
SHK 42.1 52.4 10.3 -1.2X -2.2X 91.7 258

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 NOV 26 16 45 24.6 0.5 67.4 2.1 143.1 2.7 34.2 5.6
1969 NOV 26 16 45 24.6 0.5 67.4 2.1 143.1 2.7 34.2 5.6

81) NEAR YAKAKE, OKAYAMA MAG=1.6 S=0.29

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 33.7 40.0 6.3 0.2 -0.1 41.0 280
KUT E 39.0 49.2 10.2 0.2 -0.1 78.1 299
SHK E 39.0 50.2 11.2 -0.3 0.2 81.0 264

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 1 1 59 53.7	0.5	142.4	2.0	3.1 10.2
201 CENTRAL SHIMANE-TOTTORI BORDER MAG=2.0 S=0.35				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
FUB	55.2	E 56.7	1.5	-0.2
MKW	61.0	66.1	5.1	0.2
MKW	66.4	75.3	8.9	0.2
SHK	E 68.4	79.2	10.8	-0.3

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 1 4 22 54.1	0.5	104.5	0.8	86.3 1.5 16.5 6.1
33) NEAR KUTSUGAHARA MAG=1.2 S=0.26				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	61.1	65.6	5.5	-0.2
FUB	63.2	67.4	6.3	0.1
SHK	E 69.5	69.5	6.3	0.1

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 2 15 45 48.4	0.3	129.3	2.2	88.9 2.7 11.6 2.3
22) NITA,YOKOTA AND NICHINAN MAG=1.3 S=0.18				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
FUB	52.4	55.7	3.3	-0.1
KUT	53.5	54.9	3.3	0.2
SHK	E 61.1	70.3	9.2	0.1

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 3 2 4 49.2	0.3	22.8	1.9	150.5 1.9 40.9 3.8
91) KAGAWA MAG=2.3 S=0.18				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
MKW	62.2	71.5	9.3	0.0
SHK	E 66.3	I 79.1	12.8	-0.2
KUT	71.2	83.6	-0.1	112.2
FUB	71.2	87.4	16.2	-0.4

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 4 12 28 45.7	0.4	50.4	1.6	59.3 1.8 30.6 1.8
53) NEAR HACHIDONMATSU,HIROSHIMA MAG=1.7K S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	50.9	54.7	3.8	-0.2
MKW	E 55.0	61.7	6.7	0.0
KUT	56.9	64.7	7.8	0.3
FUB	E 63.3	E 76.6	13.3	-0.4

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 5 10 9 33.1	0.4	98.0	1.2	14.5 1.8 2.3 13.0
10) WESTERN PART OF SHIMANE MAG=2.9B S=0.33				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
HMD	I 34.4	I 35.6	1.2	-0.1
SHK	43.4	50.6	7.2	-0.0
MKW	48.8	60.3	11.5	0.3
FUB	E 50.2	62.4	12.2	0.1

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 5 14 5 37.9	0.2	105.1	0.7	77.3 1.2 13.8 1.4
331) NEAR KUTSUGAHARA MAG=1.7B S=0.25				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	40.6	42.0	1.4	0.3
MKW	46.0	51.4	5.4	0.3
FUB	46.2	52.0	5.8	0.1
SHK	E 46.3	52.2	5.9	0.0

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1969 DEC 6 1 59 25.0	0.3	71.5	0.8	79.7 0.4 10.5 3.2
50) CENTRAL PART OF HIROSHIMA MAG=0.6 S=0.14				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
SHK	28.8	31.8	3.0	-0.2
MKW	29.2	32.1	2.9	0.0
FUB	29.2	I 47.1		

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 7 0 8 34.9 0.1 73.2 0.4 38.6 0.7 24.1 1.0
65) WESTERN PART OF HIROSHIMA      MAG=2.1B S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 41.0 45.5 4.5 -0.1 -0.1 27.7 120
FUB 44.1 50.6 6.5 0.1 -0.1 49.0 48
MKW 46.2 54.6 8.4 -0.1 -0.0 63.7 94
FUB E 50.2 62.7 12.5 -1.4X -1.1X 97.0 44
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 7 7 37 28.5 0.3 131.3 1.1 73.7 1.5 12.8 2.9
7) NEAR KAKEYA, SHIMANE      MAG=2.4 S=0.25
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.4 36.7 3.3 0.1 -0.1 25.4 176
FUB 34.7 E 38.9 4.2 0.1 -0.2 34.5 70
MKW 40.2 49.0 8.8 -0.1 0.1 69.5 155
SHK 40.9 49.5 8.6 0.0 -0.4* 73.0 188
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 7 7 38 0.7 0.1 132.0 0.4 72.9 0.6 7.9 1.9
7) NEAR KAKEYA, SHIMANE      MAG=2.1 S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 5.3 8.6 3.3 0.0 -0.0 26.2 175
FUB 6.8 11.0 4.2 0.1 -0.1 35.0 72
MKW 21.2 22.0 9.0 -0.0 -0.1 70.4 155
SHK E 13.0 22.0 9.0 -0.0 -0.1 73.6 188
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 7 21 22 22.8 0.6 151.5 2.2 80.4 2.8 16.8 5.9
5) NORTHERN PART OF SHIMANE      MAG=2.3 S=0.37
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 28.0 32.0 4.0 -0.2 -0.1 27.3 108
MKW 48.2 58.1 10.1 -0.3* -1.0X 94.1 190
SHK 38.4 48.4 11.0 -0.3* -1.0X 94.1 190
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 7 21 22 57.9 0.5 151.0 2.1 79.3 2.6 20.2 4.9
5) NORTHERN PART OF SHIMANE      MAG=2.0 S=0.35
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 63.7 67.8 4.1 0.0 -0.1 28.2 107
MKW 83.5 84.6 11.1 -0.3* -0.9X 93.4 190
SHK 73.5 84.6 11.1 -0.3* -0.9X 93.4 190
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 7 22 28 3.4 0.6 150.3 2.5 74.8 3.4 12.9 9.1
5) NORTHERN PART OF SHIMANE      MAG=2.6B S=0.43
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB I 9.0 11.7 16.8 5.1 0.6X 0.0 44.4 179
KUT 18.2 28.9 10.7 0.2 0.2 86.8 161
SHK E 18.7 29.9 11.2 -0.2 -0.3* 92.0 187
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 8 0 54 29.3 0.8 25.8 2.7 115.2 2.9 25.4 6.1
47) NEAR KUCHIJIMA      MAG=1.6 S=0.40
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW E 37.7 44.0 6.3 -0.1 -0.0 44.1 342
SHK 40.6 48.4 7.8 0.1 -0.4* 62.4 302
KUT 56.5 56.5 0.3 0.3 89.6 333
FUB 63.6 63.6 -0.3* -0.3* 117.2 355
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1969 DEC 9 4 56 33.5 0.7 85.4 2.1 18.5 3.7 4.4 46.5
10) WESTERN PART OF SHIMANE      MAG=1.5 S=0.34
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 41.9 48.5 6.6 -0.2 0.1 51.2 120
MKW 48.0 58.1 10.1 0.2 -0.1 85.4 101
FUB 63.8 63.8 0.0 0.0 104.8 56

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 9 18 15 29.1 0.6 121.7 2.0 69.2 3.0 14.7 3.8
30) NEAR TONRARA, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.3 35.4 2.1 0.4* -0.2 16.9 159
FUB 41.8 41.8 0.0 0.0 -0.3* 42.6 40
SHK 39.9 47.2 7.3 0.0 -0.6X 186
MKW 40.0 47.9 7.9 0.1 0.1 63.1 148
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 10 16 59 34.2 0.3 -6.6 1.8 121.5 1.6 19.1 7.5
95) EHIME
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 47.3 57.2 9.9 -0.1 0.1 77.0 345
SHK 49.3 60.3 11.0 0.0 -0.0 88.3 318
KUT 54.9 69.7 14.8 0.2 -0.1 121.7 337
FUB 58.3 76.2 17.9 -1.1 -1.7 150.1 354
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 11 12 27 3.8 0.3 107.3 1.4 69.6 2.2 1.0 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 12.1 E 17.6 5.5 0.2 -0.3 48.7 188
FUB 12.1 12.1 0.0 0.0 -0.2 50.9 45
MKW 12.7 18.4 5.7 0.4* -0.1 51.1 140
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 11 12 31 32.9 0.1 108.1 0.5 70.9 0.9 3.9 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 41.3 47.1 5.8 0.1 -0.1 49.5 45
SHK 41.2 47.2 6.0 -0.0 -0.1 49.7 189
MKW 41.6 47.6 6.0 0.2 -0.0 50.9 142
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 9 18 15 29.1 0.6 121.7 2.0 69.2 3.0 14.7 3.8
30) NEAR TONRARA, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.3 35.4 2.1 0.4* -0.2 16.9 159
FUB 41.8 41.8 0.0 0.0 -0.3* 42.6 40
SHK 39.9 47.2 7.3 0.0 -0.6X 186
MKW 40.0 47.9 7.9 0.1 0.1 63.1 148
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 10 16 59 34.2 0.3 -6.6 1.8 121.5 1.6 19.1 7.5
95) EHIME
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 47.3 57.2 9.9 -0.1 0.1 77.0 345
SHK 49.3 60.3 11.0 0.0 -0.0 88.3 318
KUT 54.9 69.7 14.8 0.2 -0.1 121.7 337
FUB 58.3 76.2 17.9 -1.1 -1.7 150.1 354
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 11 12 27 3.8 0.3 107.3 1.4 69.6 2.2 1.0 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 12.1 E 17.6 5.5 0.2 -0.3 48.7 188
FUB 12.1 12.1 0.0 0.0 -0.2 50.9 45
MKW 12.7 18.4 5.7 0.4* -0.1 51.1 140
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 11 12 31 32.9 0.1 108.1 0.5 70.9 0.9 3.9 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 41.3 47.1 5.8 0.1 -0.1 49.5 45
SHK 41.2 47.2 6.0 -0.0 -0.1 49.7 189
MKW 41.6 47.6 6.0 0.2 -0.0 50.9 142
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 11 14 6 53.8 0.3 108.9 1.0 69.5 1.9 5.2 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 62.3 68.0 5.7 0.1 -0.3 49.9 47
SHK 62.3 68.0 5.7 0.1 -0.4* 50.2 187
MKW 62.9 68.9 6.0 0.3* -0.1 52.4 141
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 13 7 27 8.3 0.2 82.7 0.5 53.3 1.2 0.2 R
50) CENTRAL PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 12.5 15.5 3.0 -0.0 -0.1 23.3 138
MKW 21.8 31.2 9.4 0.2 -0.2 80.0 41
FUB 21.8 31.2 9.4 0.2 -0.2 80.0 41
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 13 7 27 8.3 0.2 82.7 0.5 53.3 1.2 0.2 R
50) CENTRAL PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 12.5 15.5 3.0 -0.0 -0.1 23.3 138
MKW 21.8 31.2 9.4 0.2 -0.2 80.0 41
FUB 21.8 31.2 9.4 0.2 -0.2 80.0 41
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 14 2 22 9.4 0.5 63.7 1.6 58.8 1.9 15.1 2.4
50) CENTRAL PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 12.2 E 14.1 1.9 0.1 0.1 5.9 146
MKW 17.5 22.6 5.1 0.4* -0.1 43.5 84
KUT 17.4 23.4 6.0 0.0 0.2 45.2 21
FUB 24.6 35.3 10.7 -0.4* -1.1X 92.1 30
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 15 17 51 46.8 0.3 106.0 1.3 74.1 3.8 4.3 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW E 54.8 54.7 0.1 47.3 143
SHK 54.7 54.7 0.2 48.3 193
FUB 54.6 54.6 -0.4* 48.8 41
MTS E 57.3 64.3 7.0 0.3* -0.1 60.8 23
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1969 DEC 15 17 51 46.8 0.3 106.0 1.3 74.1 3.8 4.3 R
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW E 54.8 54.7 0.1 47.3 143
SHK 54.7 54.7 0.2 48.3 193
FUB 54.6 54.6 -0.4* 48.8 41
MTS E 57.3 64.3 7.0 0.3* -0.1 60.8 23
*****

```


DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 15 18 54 21.1 0.1 106.9 0.3 71.1 0.6 2.0 R

33) NEAR KUTSUGAHARA MAG=2.4R S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 29.3 35.0 5.7 0.1 -0.1 48.5 190
SHK 29.5 35.5 6.0 0.1 0.0 49.8 141
FUB 29.5 35.5 6.0 0.0 -0.1 50.2 44

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 15 19 33 34.1 0.2 147.5 0.6 107.2 0.9 8.5 1.0

20) CENTRAL SHIMANE-TOTTORI BORDER MAG=2.2R S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 35.7 47.5 12.8 0.1 -0.1 4.9 191
MKW 47.5 57.2 9.7 0.0 -0.1 79.7 183
SHK 50.6 62.8 12.2 -0.1 0.0 99.0 206

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 16 2 27 59.0 0.0 106.9 0.2 71.3 0.3 3.1 R

33) NEAR KUTSUGAHARA MAG=1.4 S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 67.2 I 73.0 5.8 0.1 -0.0 48.5 190
MKW 67.4 73.4 6.0 0.1 0.0 49.7 141
FUB 67.4 73.5 6.1 0.0 0.0 50.0 44

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 16 14 14 15.4 0.6 89.0 1.9 115.1 0.9 14.8 11.9

83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=3.6R S=0.42

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 20.4 24.8 4.4 0.2 0.0 24.8 211
KUT 23.4 29.2 5.8 0.3* 0.0 43.4 292
FUB 24.5 30.5 6.0 0.3* 0.0 54.4 350
SHK 25.4 32.4 7.0 -0.4* -1.0x 60.5 240
OKA I 26.1 I 34.0 7.9 -0.1 -0.0 62.9 102

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 16 21 25 56.6 0.4 62.0 1.4 117.9 1.8 12.9 2.7

44) NEAR FUCHU MAG=0.9 S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 60.4 62.6 2.2 0.2 -0.2 16.9 290
SHK 66.2 72.8 6.6 0.1 -0.3 55.5 267
KUT 75.0 80.3 5.3 0.3 0.3 61.3 315
FUB 70.3 80.3 10.0 -0.1 -0.1 81.5 351

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 19 1 3 29.3 0.4 115.5 0.9 48.5 1.8 16.7 5.8

8) CENTRAL PART OF SHIMANE MAG=2.6R S=0.24

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 35.0 46.5 7.0 0.1 -0.3 28.3 109
SHK 39.5 48.2 7.9 -0.0 -0.2 58.1 166
FUB 40.3 48.2 7.9 -0.0 -0.2 63.8 64
MKW 41.5 50.7 9.2 -0.1 0.1 71.7 131

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 19 10 27 8.6 0.1 108.7 0.3 70.1 0.6 7.8 1.1

33) NEAR KUTSUGAHARA MAG=1.3 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 10.2 23.0 6.0 0.0 -0.1 5.7 119
FUB 17.0 23.1 6.0 0.0 -0.2 49.6 46
SHK 17.1 23.1 6.0 0.0 -0.2 50.1 188
MKW 17.4 23.7 6.3 0.1 -0.0 51.8 141

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1969 DEC 19 10 31 9.1 0.2 108.5 0.5 71.3 0.9 8.6 1.7

33) NEAR KUTSUGAHARA MAG=1.4 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 10.7 23.3 6.0 -0.1 -0.1 4.6 124
FUB E 17.3 23.6 6.0 0.0 -0.2 48.9 45
SHK 17.6 23.6 6.0 0.0 -0.2 50.1 190
MKW 17.9 23.9 6.0 0.2 -0.1 51.0 142

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1969 DEC 20 6 25 13.5 0.2 107.0 0.7 82.6 1.2 13.2 1.9
33) NEAR KUTSUGAHARA      MAG=1.6R  S=0.26
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      16.3    17.7    1.4 0.2      -0.3      7.6 261
FUB      21.0    26.2    5.2 0.0      -0.3      42.8 33
MKW      21.1    26.7    5.6 -0.0      0.0      43.7 153
SHK      22.5    28.6    6.1 0.1      -0.4*     51.9 202
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1969 DEC 20 16 34 27.2 0.1 107.0 0.3 74.0 0.6 9.0 1.0
33) NEAR KUTSUGAHARA      MAG=2.0  S=0.12
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      28.7    35.3    6.1 -0.1      0.0      1.6 134
MKW      35.3    41.4    6.1 -0.1      0.0      48.1 144
FUB      35.3    41.4    6.1 -0.1      0.1      48.1 42
SHK      35.7    41.6    5.9 0.2      -0.1      49.2 193
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1969 DEC 20 21 16 28.5 0.2 68.6 2.9 152.0 0.9 4.3 R
81) NEAR YAKAKE,OKAYAMA    MAG=4.0J  S=0.39
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
DKA      32.7    36.0    3.3 -0.1      0.0      25.6 73
MKW      37.0    42.2    5.9 -0.7X   -1.0X     49.9 269
TKM      36.3    42.2    5.9 -0.7X   -1.0X     50.7 131
KUT      43.3    42.7    0.5X      0.5X     85.5 295
FUB      42.7    43.6    0.3*      0.3*     87.1 328
SHK      43.6    54.1   10.5 0.1      -0.4*     90.0 263
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1969 DEC 20 21 21 39.6 0.4 72.6 1.2 151.4 0.9 4.8 11.4
81) NEAR YAKAKE,OKAYAMA    MAG=3.0R  S=0.36
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
DKA      44.0    47.0    3.0 0.1      -0.1      25.1 82
MKW      48.0    54.3    6.3 0.1      0.3*      49.5 284
KUT      53.9    54.6    0.4*      0.4*      83.2 223
FUB      53.6    63.6   10.0 0.1      -0.1      83.2 327
SHK      54.5    65.2   10.7 -0.1      -0.4*      89.9 261
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1969 DEC 21 6 35 43.3 0.2 102.4 1.0 80.3 1.9 7.9 3.0
33) NEAR KUTSUGAHARA      MAG=0.7  S=0.08
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      44.9    51.2    5.7 -0.0      -0.1      6.3 304
SHK      51.2    56.9    5.7 -0.0      -0.1      46.8 202
FUB      51.3    57.3    6.0 -0.1      -0.0      47.9 32
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1969 DEC 22 11 47 21.8 0.2 107.5 0.6 84.1 1.1 11.6 2.6
33) NEAR KUTSUGAHARA      MAG=2.1R  S=0.25
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      24.6    25.9    1.3 0.3      0.3      9.1 259
FUB      29.0    34.2    5.2 -0.0      -0.1      41.6 32
MKW      29.3    34.9    5.6 -0.0      0.1      43.5 155
SHK      31.0    37.2    6.2 0.2      -0.3      52.9 204
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1969 DEC 24 22 30 5.8 0.1 72.7 0.2 108.0 0.3 18.9 0.3
42) EASTERN PART OF HIROSHIMA  MAG=1.6  S=0.04
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
MKW      9.1     11.6    2.5 -0.1      -0.2      7.6 230
KUT      15.6    22.1    6.5 1.4X     1.7X     46.7 315
SHK      14.3    20.5    6.2 -0.0      -0.1      47.5 253
FUB      17.9    26.7    8.8 0.0      -0.1      70.0 358

```

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 24 23 55.6 0.3 115.7 0.9 112.9 1.8 1.9 R

83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.1 S=0.26

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
FUB	40.0	43.7	3.7	-0.2	0.0	50.8	255
KUT	42.0	46.9	4.9	-0.1	0.0	49.0	192
MKW	44.2	50.0	5.8	0.4*	-0.3	47.7	221
SHK	48.5	57.2	8.7	0.3	-0.3	75.7	221

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 25 15 17 52.4 0.4 78.0 1.0 102.4 1.4 19.3 2.4

42) EASTERN PART OF HIROSHIMA MAG=1.4 S=0.33

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	56.0	58.7	2.7	-0.1	0.0	10.1	161
KUT	60.2	65.0	4.8	0.5*	-0.0	39.0	315
SHK	60.5	66.0	5.5	0.1	-0.3*	44.1	244
FUB	65.6	71.7	6.1	-0.1	-0.2	64.8	3

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 26 14 11 33.0 0.1 98.1 0.3 94.3 0.5 0.4 R

40) MIYOSHI AND SHOBARA MAG=1.4 S=0.17

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	36.2	39.0	2.8	-0.3	0.0	20.7	292
KUT	38.2	41.9	3.7	0.0	-0.1	31.2	165
MKW	40.5	46.5	6.0	-0.2	0.2	46.2	14
SHK	41.5	47.5	6.0	0.1	-0.0	50.3	219

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 27 4 29 1.4 0.5 14.6 2.4 13.0 2.8 31.5 5.8

70) HIROSHIMA-YAMAGUCHI BORDER MAG=1.8 S=0.23

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	13.5	22.7	9.2	-0.2	0.0	66.6	48
SHK	19.6	32.6	13.0	0.1	-0.2	103.9	59
KUT	34.5	47.2	13.0	0.1	-0.1	110.4	34
FUB	47.2	60.9	26.3	-0.8	-0.8	158.4	36

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 27 11 56 36.4 0.6 64.1 2.6 29.5 3.6 22.9 6.1

65) WESTERN PART OF HIROSHIMA MAG=1.68 S=0.40

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
SHK	43.1	48.1	5.0	-0.0	-0.0	33.4	88
MKW	48.8	53.6	4.8	0.3*	0.2	72.7	86
FUB	55.5	60.6	13.1	0.4*	-0.2	109.8	44

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 27 18 30 21.7 0.2 72.4 0.7 108.7 0.9 16.0 0.9

42) EASTERN PART OF HIROSHIMA MAG=1.3 S=0.12

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	24.5	26.8	2.3	-0.2	-0.1	8.0	235
SHK	30.2	34.2	4.0	0.0	-0.1	48.0	253
FUB	33.7	42.5	8.8	-0.0	-0.0	70.3	357

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 30 2 24 26.2 0.9 76.0 2.2 113.2 3.8 11.6 5.7

42) EASTERN PART OF HIROSHIMA MAG=1.4 S=0.58

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	29.5	31.2	1.7	0.3	-0.3	13.7	233
KUT	35.3	41.0	5.7	0.8*	0.4*	48.4	308
SHK	35.5	41.5	6.0	0.2	-0.5*	53.4	251
FUB	45.5	51.5	6.0	0.2	-0.4*	67.1	354

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1969 DEC 30 20 18 59.6 0.2 70.9 0.7 109.4 0.9 18.2 1.1

42) EASTERN PART OF HIROSHIMA MAG=0.9 S=0.17

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
MKW	62.9	65.2	2.3	-0.1	-0.2	7.9	247
SHK	68.2	74.3	6.1	-0.0	-0.2	48.3	255
KUT	74.8	80.8	6.0	0.0	0.1	49.0	315
FUB	72.0	80.8	8.8	0.0	-0.2	71.9	357

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 8 0 58 10.2 0.2 105.8 0.6 75.5 1.1 11.1 2.0

33) NEAR KUTSUGAHARA MAG=1.2 S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 12.1 I 24.0 5.8 0.1 -0.0 46.4 265
MKW 18.2 I 24.0 5.8 0.1 0.0 46.3 144
FUB 18.5 24.3 5.8 0.1 -0.1 48.0 39
SHK 18.7 24.3 5.6 0.2 -0.3 48.4 195

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 9 14 37 43.9 0.4 99.8 0.9 115.4 1.8 19.8 3.9

83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.4 S=0.33

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 55.3 202
KUT 57.1 20.8 278
FUB 51.2 56.9 5.7 -0.7X -0.5X 43.9 347
SHK 63.8 -0.2 66.7 232

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 11 11 42 30.9 0.4 116.7 1.5 70.0 2.7 3.0 R

32) NEAR AKAGI, SHIMANE MAG=1.3 S=0.45

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.3 43.8 5.2 0.2 -0.0 44.6 154
FUB 38.6 47.9 7.2 0.1 0.2 58.0 187
SHK 40.7 48.0 58.4 146

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 12 4 54 41.0 0.3 103.9 1.0 192.9 1.2 20.1 2.5

100) OUT OF THE MAP MAG=2.4 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
OKA I 47.5 I 51.9 4.4 0.1 -0.1 32.5 210
FUB 57.1 69.1 12.0 -0.1 0.1 95.0 294
MKW 57.7 69.8 12.1 0.1 0.0 97.6 248
KUT 60.7 73.8 13.1 -0.2 -1.7X 117.8 270
SHK 63.6 79.9 16.3 -0.6 -1.3 137.8 251

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 14 0 42 45.3 0.2 101.1 0.5 71.7 0.9 3.2 2.1

33) NEAR KUTSUGAHARA MAG=0.9 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 46.2 47.3 1.1 -0.2 0.0 5.9 35
SHK 52.5 57.8 5.3 0.0 0.1 42.9 192
MKW 58.3 -0.0 45.0 137
FUB 61.0 0.1 54.1 39

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 15 14 54 9.9 0.1 103.5 0.6 77.1 1.1 5.2 R

33) NEAR KUTSUGAHARA MAG=0.8 S=0.31

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.2 12.0 0.8 0.2 0.3 3.1 320
MKW 17.2 22.9 5.7 -0.0 0.3* 43.5 144
SHK 17.5 23.2 5.7 -0.2 -0.3 46.7 198
FUB 17.8 23.9 6.1 -0.3 -0.2 48.8 36

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 17 9 13 2.2 0.1 104.9 0.3 77.4 0.5 7.9 1.0

33) NEAR KUTSUGAHARA MAG=1.4 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.6 15.2 5.3 0.2 -0.1 44.5 146
MKW 9.9 16.1 5.8 0.1 -0.0 47.5 37
FUB 10.3 16.3 6.0 -0.0 0.0 48.1 198

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JAN 20 17 40 50.2 0.3 65.6 1.0 118.9 1.4 12.0 2.1

44) NEAR FUCHU MAG=1.6 S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MKW 53.7 56.2 2.5 0.0 -0.0 16.9 277
SHK 60.0 66.7 7.7 0.1 -0.3 56.7 263
KUT 60.6 67.9 7.3 0.3 0.2 59.5 312
FUB 63.3 72.9 9.6 -0.1 -0.1 78.1 350

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 JAN 22 11 31 3.5 0.1 105.5 0.5 77.8 0.7 3.3 R

33) NEAR KUTSUGAHARA

MAG=1.3 S=0.23

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	4.3	4.8	0.5	0.0	-0.0	2.7	278
MKW	11.0	16.7	5.7	0.0	0.2	44.8	147
FUB	11.1	17.0	5.9	-0.2	-0.1	46.8	37
SHK	11.5	17.3	5.8	-0.2	-0.3*	48.8	198

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 JAN 23 8 26 9.0 0.2 91.8 0.7 88.2 1.2 8.1 R

40) MIYOSHI AND SHOBARA

MAG=1.5B S=0.27

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	12.8	14.8	2.0	0.3	-0.3	19.2	317
SHK	16.1	21.0	4.9	0.0	-0.2	41.5	218
FUB	18.1	24.6	6.5	-0.0	-0.2	54.0	19

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 JAN 27 17 14 11.0 0.3 42.3 2.4 73.5 5.1 33.5 3.3

53) NEAR HACHIONMATSU,HIROSHIMA

MAG=2.1B S=0.20

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
SHK	17.6	22.3	4.7	0.0	-0.1	20.1	326
KUT	22.8	31.9	9.1	-0.2	0.1	63.6	1
FUB	29.6	42.9	13.3	0.1	-0.1	105.6	18

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 JAN 28 14 13 18.2 0.2 104.2 1.3 81.0 2.3 13.1 2.0

33) NEAR KUTSUGAHARA

MAG=1.6 S=0.11

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	20.6	22.3	1.7	0.1	-0.2	6.1	286
FUB	26.1	32.1	6.0	-0.1	0.1	46.0	33
SHK	26.7	32.7	6.0	0.1	-0.1	48.7	202

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 JAN 30 8 9 53.9 0.3 51.0 2.0 70.1 4.5 29.2 2.4

53) NEAR HACHIONMATSU,HIROSHIMA

MAG=1.5B S=0.20

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
SHK	59.0	62.8	3.8	-0.2	-0.2	11.1	317
KUT	64.4	71.7	7.3	0.1	-0.3	55.1	5
FUB	70.8	83.6	12.8	-0.2	0.0	98.6	21

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  4 10 21 38.0 0.0  96.7 0.3  1.7  R
MAG=2.9B S=0.04
40) MIYOSHI AND SHORARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.9 51.4 5.7 -0.0 0.0 17.3 302
SHK 45.5 52.1 5.9 0.0 -0.0 46.4 215
FUB 46.2 52.1 5.9 0.0 -0.0 48.9 19
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  4 10 49 37.6 0.2  97.6 1.1  10.2 5.2
MAG=1.8R S=0.11
40) MIYOSHI AND SHORARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.6 51.1 5.6 0.1 -0.0 14.8 304
SHK 45.5 52.1 6.2 -0.0 0.1 45.7 212
FUB 45.9 52.1 6.2 -0.0 0.1 48.9 22
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  4 11 54 11.8 0.0 100.7 0.2  82.6 0.3  3.8  R
MAG=1.8R S=0.05
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 13.4 25.1 5.6 -0.0 -0.1 9.1 304
SHK 19.5 25.1 5.8 0.0 -0.1 46.1 205
FUB 19.9 E 25.7 5.8 0.0 -0.1 48.2 29
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  4 12 12 20.7 0.0  97.3 0.2  87.8 0.3  1.6  R
MAG=1.5B S=0.04
40) MIYOSHI AND SHORARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.3 33.9 5.5 0.1 -0.0 15.3 304
SHK 28.4 33.9 6.0 0.0 0.0 45.8 213
FUB I 28.9 I 34.9 6.0 0.0 0.0 49.0 22
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  4 12 25 28.5 0.1  98.2 0.7  84.9 1.0  1.5  R
MAG=0.7 S=0.27
40) MIYOSHI AND SHORARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 31.1 32.1 1.0 0.5K -0.0 12.5 308
SHK 35.8 41.6 5.8 -0.2 0.1 45.0 209
FUB 36.6 42.8 6.2 -0.1 0.0 49.4 25
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  4 20 19 2.8 0.1 104.1 0.4  75.1 0.7  9.0 1.4
MAG=1.2 S=0.15
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 4.3 16.4 5.7 -0.0 -0.1 1.8 0
SHK 10.7 17.2 6.0 -0.0 -0.2 46.7 195
FUB 11.2 17.3 5.9 0.2 -0.1 49.6 38
UUT 11.4 17.3 5.9 0.2 -0.1 49.8 142
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  5  2 22 11.2 0.3 110.3 2.2  80.7 3.7 11.8 3.3
MAG=1.1 S=0.17
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 13.4 23.6 5.4 -0.2 -0.0 7.1 231
FUB 18.2 27.1 6.6 0.0 -0.2 41.3 38
SHK 20.5 27.1 6.6 0.0 -0.2 54.3 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB  6  3 29 45.2 0.3 103.9 1.7  80.2 3.2 11.2 3.4
MAG=0.7 S=0.14
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 47.3 59.1 6.0 -0.1 0.0 5.5 291
FUB 53.1 59.1 5.9 0.1 -0.1 46.7 33
SHK 53.5 59.4 5.9 0.1 -0.1 48.1 201

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 6 3 51 38.8 0.2 104.1 1.1 79.8 1.5 7.2 R
33) NEAR KUTSUGAHARA      MAG=0.5 S=0.46
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT      41.5      1.1 0.1      0.1 5.0 291
FUB      52.1      0.4*      -0.4* 46.8 34
UZI      52.9      0.4*      -0.4* 47.0 146
SHK      52.4      5.8 -0.3*      -0.5* 48.2 201
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 6 14 38 30.4 0.1 56.7 0.5 101.6 0.4 15.8 0.7
44) NEAR FUCHU      MAG=1.2 S=0.09
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
UZI      33.5      1 35.6 2.1 0.1      0.1 8.8 23
SHK      37.4      1 42.6 5.2 -0.1      -0.1 39.2 273
FUB      54.0      1 54.0      -1.7X 86.1 3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 7 12 35 56.3 0.3 116.6 0.6 129.1 1.2 18.2 3.3
85) NEAR ASHIDACHI,OKAYAMA      MAG=1.5 S=0.19
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT      62.6      67.6 5.0 -0.2      -0.0 25.7 318
FUB      73.1      73.1      0.0 25.0 258
UZI      66.4      73.5 7.1 0.1      -0.1 57.1 294
SHK      71.3      82.0 10.7 0.0      -0.2 87.9 229
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 8 16 27 32.2 0.1 103.7 0.8 75.5 1.7 0.0 R
33) NEAR KUTSUGAHARA      MAG=0.8 S=0.35
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT      32.1      33.2 1.1 -0.5*      0.3* 2.2 349
SHK      40.0      45.7 5.7 0.1      0.1 46.4 196
FUB      40.5      46.6 6.1 0.0      0.1 49.7 38
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 10 27 07 0.4 93.1 1.3 14.1 2.6 16.2 8.3
10) WESTERN PART OF SHIMANE      MAG=1.7B S=0.27
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
SHK      10.9      18.6 7.7 -0.0      0.2 59.1 125
KUT      11.2      19.3 8.1 -0.2      -0.0 62.3 78
UZI      16.8      28.7 11.9 -0.1      -0.0 95.7 107
FUB      18.7      32.7 14.0 0.3*      1.4X 104.6 61
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 10 12 14 24.6 0.4 116.5 0.8 127.1 2.1 19.8 3.7
85) NEAR ASHIDACHI,OKAYAMA      MAG=1.3 S=0.24
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
FUB      30.8      35.9 5.1 -0.3*      0.0 33.5 321
UZI      34.5      41.7 7.2 -0.0      -0.1 56.2 202
SHK      39.5      50.0 10.5 0.1      -0.2 86.4 228
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 11 0 51 18.4 0.2 105.1 1.1 76.9 1.5 2.3 R
33) NEAR KUTSUGAHARA      MAG=2.6B S=0.37
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT      18.6      18.6      -0.3* 2.0 294
FUB      26.5      26.5      0.1 47.7 37
SHK      26.8      32.3 5.5 0.4*      -0.0 48.1 197
UZI      26.9      32.4 5.5 0.2      -0.3* 49.5 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 FEB 12 4 28 22.0 0.4 70.2 1.2 148.7 2.2 27.4 4.1
81) NEAR YAKAKE,OKAYAMA      MAG=2.3B S=0.29
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT      30.7      30.8 6.1 0.1      -0.1 43.6 262
UZI      30.5      41.2 10.7 0.1      0.3 81.8 295
FUB      30.7      41.2 10.5 -0.0      -0.3* 84.0 329
SHK      37.0      46.0 11.0 -0.2      -0.3* 86.9 262

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 18 1 57 17.4 0.2 63.7 0.6 85.8 0.4 12.8 1.7
50) CENTRAL PART OF HIROSHIMA MAG=1.1 S=0.15
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.3 24.2 2.9 -0.0 0.0 19.7 87
SHK 21.8 25.2 3.4 -0.1 -0.1 23.7 258
KUT 25.0 30.6 5.6 0.0 0.1 43.5 345
FUB 31.3 41.0 9.7 0.1 -0.3 81.6 14

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 20 9 3 33.2 0.2 106.7 0.7 71.8 1.5 0.1 24.1
33) NEAR KUTSUGAHARA MAG=2.4R S=0.25
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.8 41.2 0.0 -0.1 -0.1 3.4 103
SHK 41.2 47.4 5.6 0.3 -0.2 48.4 191
FUB 41.8 47.4 5.6 0.3 -0.2 49.8 43
UZI 42.2 48.8 6.6 0.0 0.1 53.8 141

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 20 10 54 4.5 0.2 107.2 0.9 70.8 1.7 3.6 R
33) NEAR KUTSUGAHARA MAG=2.4R S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 5.5 18.5 5.8 0.0 -0.1 4.5 106
SHK 12.7 18.9 6.0 0.0 -0.1 48.8 189
FUB 12.9 18.9 6.0 0.0 -0.1 50.2 44

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 20 11 8 58.0 0.2 105.9 1.6 75.0 3.1 1.5 1.1
33) NEAR KUTSUGAHARA MAG=2.1R S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.3 66.1 1 71.9 5.8 0.0 -0.0 48.3 40
FUB 66.0 72.0 6.0 -0.1 0.0 48.4 194
SHK

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 20 23 58 52.2 0.1 116.1 0.3 82.4 0.5 7.5 1.1
31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.5 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 54.5 56.4 1.9 -0.2 -0.1 12.5 215
FUB 58.2 62.7 4.5 -0.1 -0.0 35.7 41
UZI E 61.8 66.5 6.7 0.1 -0.1 56.4 155
SHK 62.3 66.7 7.4 -0.0 -0.1 60.3 199

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 21 10 8 26.2 0.2 120.0 0.6 101.6 0.7 9.1 3.6
25) NEAR EROSHI-YAMA MAG=2.2R S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.5 33.2 2.7 0.1 -0.2 23.2 11
FUB 31.5 35.3 3.8 0.1 0.0 30.0 241
UZI 35.5 42.5 7.0 -0.1 0.1 55.5 176
SHK 38.3 47.0 8.7 -0.1 -0.2 72.3 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 21 11 23 38.0 0.1 107.0 0.4 72.4 0.7 0.4 R
33) NEAR KUTSUGAHARA MAG=1.6R S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 38.4 52.0 5.8 0.1 -0.1 2.9 111
SHK 46.2 52.0 5.8 0.1 -0.1 48.9 191
FUB 46.3 52.1 5.8 0.1 -0.1 46.2 43
UZI E 46.8 53.6 6.8 -0.2 0.1 53.7 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 21 11 39 36.4 0.1 106.2 0.6 73.0 1.1 1.7 R
33) NEAR KUTSUGAHARA MAG=1.6R S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 34.6 48.2 5.6 -0.3 -0.1 2.1 87
SHK 42.6 48.2 5.6 0.2 -0.1 48.2 192
FUB 42.8 48.6 5.8 0.2 0.1 49.4 42
UZI 43.3 49.7 6.4 0.1 0.1 52.7 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 24 9 33 12.8 0.2 74.5 0.7 104.5 0.8 24.4 1.3
42) EASTERN PART OF HIROSHIMA MAG=1.0 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 17.3 20.2 2.9 0.1 -0.3 9.9 174
KUT I 20.3 27.1 6.2 -0.2 -0.0 43.0 316
SHK E 21.3 27.3 6.0 -0.2 -0.2 44.7 249
FUB 27.7 32.6 7.9 -0.2 -1.1X 68.2 1

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 25 12 56 5.1 0.1 114.6 0.9 84.9 1.4 9.6 1.4
31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.2 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 7.8 9.7 1.9 -0.0 -0.1 13.1 228
FUB E 11.2 15.6 4.4 -0.0 -0.1 35.3 37
SHK 15.1 22.6 7.5 -0.1 0.0 59.8 201

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 25 13 6 32.3 0.2 113.8 1.9 85.0 3.0 5.1 5.8
31) CENTRAL PART OF TAKANO,HIROSHIMA MAG=1.8 S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 34.5 36.2 1.7 -0.1 -0.1 12.7 231
FUB I 38.2 42.8 4.6 -0.1 0.0 35.9 36
SHK 42.3 49.3 7.0 0.1 -0.1 59.1 202

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 28 12 14 23.3 0.1 107.3 0.9 72.9 0.9 1.9 R
33) NEAR KUTSUGAHARA MAG=3.6J S=0.35

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.7 25.7 2.0 -0.2 -0.2 2.6 122
FUB 31.1 33.1 2.0 -0.3X 48.6 43
SHK 31.0 33.0 2.0 -0.5X 49.3 192
UZI 32.4 34.4 2.0 0.2 53.6 142
MTS E 34.2 41.5 7.3 0.9X 60.1 25
HMD 34.8 42.2 7.4 0.4X -0.3* 66.6 263
YON 35.7 44.1 8.4 0.3* -0.1 72.4 44
HIR 36.0 44.8 8.8 0.3 74.4 205

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 22 0 6 32.6 0.0 113.6 0.1 72.3 0.2 7.3 0.2
32) NEAR AKAGI, SHIMANE MAG=1.5 S=0.04

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 34.5 35.8 1.3 0.0 -0.0 8.2 159
KUT I 40.1 45.7 5.6 -0.1 0.0 44.7 129
SHK 41.9 48.7 6.8 -0.0 -0.0 55.3 190
UZI 42.5 49.8 7.3 -0.0 -0.0 59.1 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 22 16 17 59.7 0.2 107.9 0.9 72.8 1.6 9.1 1.4
33) NEAR KUTSUGAHARA MAG=1.0 S=0.31

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 61.5 62.5 1.0 0.1 -0.1 3.0 130
FUB 67.8 73.7 6.6 -0.1 -0.1 48.3 43
SHK 68.2 74.0 5.2 0.1 -0.3* 49.8 191
UZI E 69.3 75.4 6.1 0.4* -0.2 54.2 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 23 7 14 3.0 0.1 107.6 0.5 71.9 0.9 2.4 2.0
33) NEAR KUTSUGAHARA MAG=0.9 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.8 5.8 2.0 0.0 0.0 3.6 117
KUT 11.4 17.1 5.7 0.2 -0.1 49.1 44
SHK 11.2 17.3 6.1 -0.0 0.0 49.3 190
UZI 18.8 54.5 35.7 0.1 0.1 54.5 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 23 15 50 41.2 0.3 107.6 1.0 71.0 1.6 1.0 R
33) NEAR KUTSUGAHARA MAG=0.9 S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 41.6 43.6 2.0 -0.4* 4.4 112
SHK 49.3 55.5 6.2 -0.1 0.1 49.2 189
FUB 55.7 55.7 0.1 0.1 49.7 45
UZI E 57.2 57.2 0.1 0.1 55.0 141

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 12 37 34.1 0.2 105.8 0.9 74.6 1.1 0.0 R
33) NEAR KUTSUGAHARA      MAG=0.7 S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 34.0 34.3 0.3 -0.2 0.0 0.5 78
SHK 42.0 48.1 6.1 -0.1 0.1 48.2 194
FUB 48.2
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 13 24 31.7 0.1 99.2 0.3 84.5 0.5 10.2 1.4
40) MIYOSHI AND SHORARA      MAG=1.9R S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 34.3 36.1 1.8 -0.0 0.1 11.5 305
UZI 38.7 43.7 5.0 0.0 -0.0 40.4 148
SHK 39.6 45.0 5.4 0.1 -0.2 45.7 208
FUB E 40.0 45.9 5.9 0.0 -0.2 48.6 26
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 13 27 38.3 0.1 107.0 0.4 71.5 0.7 2.1 R
33) NEAR KUTSUGAHARA      MAG=2.2R S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.1 52.3 5.7 -0.9X 0.1 3.7 106
SHK 46.6 52.7 6.0 0.1 0.0 47.9 190
FUB 47.3 54.1 6.8 -0.1 0.1 49.8 44
UZI 47.3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 14 6 5.2 0.1 106.5 0.5 69.8 1.0 4.7 2.3
33) NEAR KUTSUGAHARA      MAG=1.6 S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 6.4 19.0 5.7 0.1 -0.1 5.3 96
SHK 13.3 19.9 5.9 0.2 -0.2 47.9 188
FUB 14.0 21.2 6.8 0.0 0.1 51.4 45
UZI 14.4
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 14 9 55.2 0.2 106.0 0.6 72.1 1.1 0.5 R
33) NEAR KUTSUGAHARA      MAG=1.0 S=0.22
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.4 68.9 5.7 0.0 -0.3* 3.0 91
SHK 63.2 69.7 6.0 0.1 0.0 47.8 191
FUB 63.7 70.6 6.3 0.2 0.1 50.1 42
UZI 64.3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 14 13.8 0.3 107.1 1.0 70.4 1.9 6.1 3.6
33) NEAR KUTSUGAHARA      MAG=1.6 S=0.36
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.2 27.8 6.0 -0.2 0.1 4.9 104
SHK 21.8 28.1 5.5 0.3* -0.1 48.6 189
FUB 22.6 29.7 6.4 0.3 -0.1 50.5 45
UZI 23.3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 14 58 14.2 0.2 106.7 0.8 69.3 1.4 4.8 3.2
33) NEAR KUTSUGAHARA      MAG=1.7R S=0.26
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.6 28.0 5.7 0.1 -0.1 5.9 97
SHK 22.3 28.0 5.8 0.3 -0.3 48.0 188
FUB 23.1 30.3 6.6 0.2 0.0 51.6 45
UZI 23.7
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 FEB 28 14 58 14.2 0.2 106.7 0.8 69.3 1.4 4.8 3.2
33) NEAR KUTSUGAHARA      MAG=1.7R S=0.26
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.6 28.0 5.7 0.1 -0.1 5.9 97
SHK 22.3 28.0 5.8 0.3 -0.3 48.0 188
FUB 23.1 30.3 6.6 0.2 0.0 51.6 45
UZI 23.7
*****

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 28 17 26 45.5 0.3 106.5 1.1 73.3 2.0 1.6 R

33) NEAR KUTSUGAHARA

MAG=0.8 S=0.39

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 45.2 -0.8X 1.9 108
SHK 53.7 59.6 5.9 0.1 48.6 192
FUB 53.7 1 59.9 6.2 0.0 48.9 42
UZI E 54.3 61.0 6.7 0.0 52.8 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 28 15 47 54.0 0.0 103.6 0.1 76.6 0.1 2.8 0.1

33) NEAR KUTSUGAHARA

MAG=1.1 S=0.00

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 54.7 67.5 5.7 0.0 2.7 327
SHK 61.8 68.2 6.0 0.0 46.6 197
FUB E 62.2 68.2 6.0 0.0 49.1 37

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 28 15 48 10.2 0.3 105.1 2.1 72.3 4.1 7.0 0.8

33) NEAR KUTSUGAHARA

MAG=1.0 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.5 12.5 1.0 -0.0 2.9 73
SHK 18.0 24.0 6.0 -0.1 47.0 192
FUB 18.9 24.9 6.0 0.2 -0.1 50.7 42

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 28 16 17 51.6 0.2 105.5 1.6 73.6 2.6 1.0 R

33) NEAR KUTSUGAHARA

MAG=0.8 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 51.7 52.2 0.5 -0.2 1.6 74
SHK 59.6 65.3 5.7 0.1 47.7 193
FUB 65.9 65.9 0.0 0.0 49.5 41

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 FEB 28 17 24 19.6 0.2 107.6 0.7 70.5 1.2 4.6 2.8

33) NEAR KUTSUGAHARA

MAG=1.7 S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.7 33.7 6.0 -0.1 4.9 110
SHK 27.7 33.7 6.0 -0.1 49.1 189
FUB E 28.1 33.9 5.8 0.1 -0.2 50.1 45
UZI 29.1 35.5 6.4 0.2 -0.1 55.4 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 FEB 28 17 28 57.7 0.1 106.3 0.4 71.2 0.8 1.0 R

33) NEAR KUTSUGAHARA MAG=1.48 S=0.15

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	58.1	71.4	5.6	0.1	-0.1	3.9	95
SHK	65.8	72.2	6.0	0.1	-0.1	47.9	190
FUB	66.2	72.2	6.0	0.1	-0.1	50.5	43
UZI	173.3				0.0	53.9	140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 FEB 28 17 40 12.4 0.2 107.0 0.8 69.7 1.4 6.1 3.0

33) NEAR KUTSUGAHARA MAG=1.5 S=0.27

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	13.8	26.3	5.8	-0.0	-0.2	5.5	101
SHK	20.5	27.0	5.9	0.1	-0.3	48.4	188
FUB	21.1	27.0	5.9	0.1	-0.3	51.1	45
UZI	22.0	28.4	6.4	0.3*	-0.1	55.4	139

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 FEB 28 17 44 16.0 0.2 106.9 0.7 69.1 1.3 5.8 2.9

33) NEAR KUTSUGAHARA MAG=1.5 S=0.23

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	17.4	30.0	6.0	-0.0	-0.0	6.1	99
SHK	24.0	30.8	5.9	0.2	-0.2	48.2	187
FUB	24.9	32.2			0.0	51.6	46
UZI						55.7	139

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 FEB 28 18 7 38.7 0.3 106.8 1.3 72.9 2.5 2.1 R

33) NEAR KUTSUGAHARA MAG=1.1 S=0.47

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	38.6	53.0	6.0	-0.7X	0.2	2.4	112
SHK	47.0	53.2	6.3	0.0	0.3*	48.8	192
FUB	46.9	54.3			0.2	49.0	42
UZI						53.2	142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 FEB 28 18 8 27.2 0.1 106.8 0.5 71.4 0.8 1.0 R

33) NEAR KUTSUGAHARA MAG=1.2 S=0.20

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	27.7	28.2	0.5	-0.2	-0.2	3.8	103
SHK	35.2	41.2	6.0	-0.1	0.0	48.5	190
FUB	35.7	41.7	6.0	0.2	0.1	50.0	44
UZI		43.1			0.3	54.2	141

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 FEB 28 23 44 59.4 0.1 106.3 0.3 71.0 0.6 3.4 1.4

33) NEAR KUTSUGAHARA MAG=1.3 S=0.11

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	60.3	73.2	5.7	-0.0	-0.1	4.1	95
SHK	67.5	74.0	6.0	0.1	-0.1	47.9	190
FUB	68.0	75.1	6.7	-0.0	0.1	50.7	44
UZI	68.4					54.0	140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 0 28 37.6 0.2 104.9 0.5 82.0 0.9 7.6 2.0
33) NEAR KUTSUGAHARA MAG=1.5 S=0.22

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.9 40.6 1.7 -0.5* 7.0 278
SHK 45.1 50.8 5.7 -0.1 0.0 44.9 32
FUB E 45.3 51.2 5.9 -0.2 0.0 46.6 149
UZI I 52.1 6.0 0.1 -0.0 49.7 203

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 4 9 19.7 0.1 107.9 0.4 70.1 0.8 1.5 3.5
33) NEAR KUTSUGAHARA MAG=2.0B S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.7 20.7 0.1 0.1 5.4 111
SHK 27.9 33.9 6.0 -0.0 49.3 188
FUB 28.2 34.1 5.9 0.1 -0.1 50.2 46
UZI I 29.2 35.8 6.6 0.2 -0.0 55.8 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 6 48 23.0 0.1 107.4 0.5 70.3 0.9 4.5 2.0
33) NEAR KUTSUGAHARA MAG=2.1B S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 24.1 24.1 -0.1 5.0 107
SHK 31.1 37.1 6.0 -0.1 -0.1 48.9 189
FUB 31.6 37.4 5.8 0.2 -0.2 50.4 45
UZI I 32.3 39.0 6.7 0.0 -0.0 55.3 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 7 42 20.0 0.1 4.3 0.7 45.7 0.7 61.4 0.8
58) NEAR KURAHASHIJIMA MAG=3.1B S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 33.9 44.2 10.3 -0.1 -0.1 57.4 17
UZI E 50.2 12.8 -0.1 -0.1 84.9 44
KUT 40.4 E 55.2 14.8 -0.0 -0.2 105.8 16
FUB 46.2 66.0 19.8 -1.0 -1.1 151.1 23

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 13 46 21.6 0.3 108.2 1.2 70.0 2.0 4.2 R
33) NEAR KUTSUGAHARA MAG=2.6B S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.4 22.4 -0.4* 5.6 114
SHK 29.9 30.1 -0.0 49.6 188
FUB 30.1 30.1 0.1 50.0 46
UZI I 31.2 37.9 6.7 0.2 0.0 56.1 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 13 57 27.5 0.3 106.4 2.5 72.6 4.6 1.0 R
33) NEAR KUTSUGAHARA MAG=0.9 S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 27.8 27.8 -0.2 2.6 101
SHK 35.5 41.6 6.1 -0.1 0.2 48.3 192
FUB 35.8 41.9 6.1 0.0 0.1 49.5 42

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 16 9 58.8 0.2 106.0 1.3 71.4 2.5 1.5 3.4
33) NEAR KUTSUGAHARA MAG=1.0 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 59.5 59.5 0.0 3.7 91
SHK 66.7 72.6 5.9 -0.1 0.0 47.7 190
FUB 67.3 73.4 6.1 0.1 -0.0 50.6 43

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 1 16 21 8.4 0.1 107.3 0.3 70.3 0.6 1.7 2.3
33) NEAR KUTSUGAHARA MAG=1.3 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 9.3 9.3 -0.0 5.0 106
SHK 16.4 22.5 6.1 -0.1 0.0 48.8 189
FUB 16.9 22.9 6.0 0.1 -0.1 50.4 45
UZI E 17.7 24.3 6.6 0.1 -0.1 55.3 140

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 1 17 5	53.6 0.1	106.5 0.2	71.4 0.4	0.9 R
33) NEAR KUTSUGAHARA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	54.2	67.5	5.9 -0.1	-0.1
SHK	61.6	68.0	5.9 0.1	0.0
FUB	62.1	69.2	6.6 0.0	0.0
UZI	62.6			
MAG=1.2 S=0.08				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 1 17 37	0.3 0.0	105.1 0.2	75.4 0.3	1.0 R
33) NEAR KUTSUGAHARA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	0.6	14.1	5.8 0.0	0.0
SHK	8.3	14.4	6.0 -0.0	0.1
FUB	8.4			
MAG=1.4 S=0.03				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 1 18 7	38.7 0.2	105.1 1.7	74.6 3.3	1.6 1.3
33) NEAR KUTSUGAHARA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	39.1	52.5	5.9 -0.0	0.1
SHK	46.6	52.9	5.9 0.1	0.0
FUB	47.0			
MAG=1.2 S=0.10				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 1 22 3	18.4 0.1	107.2 0.2	71.1 0.4	0.3 R
33) NEAR KUTSUGAHARA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	19.0	32.5	6.0 -0.0	0.0
SHK	26.5	32.8	6.0 0.1	0.0
FUB	26.8			
UZI	27.6			
MAG=1.6 S=0.08				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 1 22 22	20.7 0.1	107.1 0.3	71.5 0.5	2.3 R
33) NEAR KUTSUGAHARA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	21.3	34.8	5.9 0.1	-0.0
SHK	28.9	35.1	6.0 0.1	0.1
FUB	29.1			
UZI				
MAG=0.8 S=0.10				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 3 15	14 34.7 0.1	106.4 0.5	74.1 0.9	0.5 R
33) NEAR KUTSUGAHARA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	34.7	48.8	6.0 0.0	0.1
SHK	42.8	48.8	5.9 0.1	0.1
FUB	42.9			
UZI				
MAG=0.9 S=0.17				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 5 0	53.0 0.1	106.2 0.5	72.9 0.8	0.5 R
33) NEAR KUTSUGAHARA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	53.3	66.8	5.7 0.1	-0.1
SHK	61.1	67.3	6.2 -0.1	0.0
FUB	61.1			
UZI	61.8			
MAG=1.4 S=0.11				

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAR 5 17	11 46.7 0.2	83.0 0.7	105.5 1.1	6.1 R
42) EASTERN PART OF HIROSHIMA				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	57.9	60.8	5.7 0.1	-0.2
SHK	55.1	63.9	7.2 -0.0	-0.1
FUB	56.7			
MAG=1.0 S=0.20				

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 MAR 9 0 44 22.0 0.2 114.5 0.7 74.9 1.1 10.0 2.5
32) NEAR AKAGI, SHIMANE
MAG=1.5 S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 29.3 34.5 5.3 -0.1 -0.0 42.2 178
KUT E 31.5 38.6 7.1 -0.1 -0.0 56.7 192
FUB 32.2 39.0 6.8 0.3* -0.1 58.5 148

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 MAR 9 19 0 40.8 0.3 -5.1 1.8 67.5 1.5 57.3 2.2
95) EHIME
MAG=2.1 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 55.0 65.8 10.8 -0.2 0.1 64.4 355
KUT 57.2 69.0 11.8 0.1 -0.1 79.4 28
FUB 61.7 74.9 15.2 0.0 -0.1 111.3 3
E 67.6 88.8 21.2 -0.4) 0.9) 152.8 14

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 MAR 10 15 42 16.7 0.6 -11.1 2.3 43.8 2.9 45.1 4.6
95) EHIME
MAG=2.1B S=0.29

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 31.0 41.5 10.5 0.0 0.1 72.7 14
KUT 34.6 47.7 13.1 -0.0 -0.1 97.7 39
FUB 53.7 66.6 0.2 0.2 121.1 14
E 66.6 66.6 0.2 0.2 166.0 22

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 MAR 10 21 6 18.9 0.3 5.8 1.7 133.6 1.4 13.3 8.0
95) EHIME
MAG=2.2 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 29.9 38.1 8.2 -0.1 -0.0 65.2 334
KUT E 34.0 44.7 10.7 0.1 -0.2 88.9 306
FUB E 38.2 52.6 14.4 -0.2 0.0 115.9 329
E 41.6 57.8 16.2 -0.7) -1.6) 139.6 348

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 MAR 5 20 52 17.9 0.1 71.9 0.6 2.8 1.0 35.5 1.7
101) WESTERN PART OF SHIMANE
MAG=2.0B S=0.09

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 29.8 38.3 8.5 0.1 -0.0 61.1 102
KUT E 32.5 43.2 10.7 0.0 0.0 79.9 64
FUB 36.0 49.4 13.4 -0.1 0.1 102.9 94
E 39.6 55.2 15.6 -0.0) -0.3) 125.3 55

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 MAR 6 8 44 28.2 0.8 2.4 2.9 42.9 5.1 59.1 2.9
58) NEAR KURASHIJIMA
MAG=3.9B S=0.41

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 39.7 48.5 8.8 -0.2 -0.0 38.1 356
KUT E 39.8 48.0 8.2 0.1 0.1 35.6 174
FUB 42.8 50.5 0.5X 60.1 14
E 45.9 58.2 3.3 88.2 15
KUT 48.4 58.2 0.4 118.4 17
FUB E 54.6 64.4 9.0 155.9 24

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/-
1970 MAR 7 14 10 52.3 0.2 106.9 0.6 70.8 1.1 1.0 R
33) NEAR KUTSUGAHARA
MAG=1.7B S=0.22

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 52.7 66.2 5.9 -0.4* -0.1 47.4 162
KUT 60.3 66.8 6.0 0.1 -0.0 48.5 189
FUB 61.6 68.1 6.5 0.2 0.0 50.2 164
E 61.6 68.1 6.5 0.2 0.0 54.6 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 13 5 39 45.8 0.7 64.0 2.2 33.6 3.7 23.5 5.1
65) WESTERN PART OF HIROSHIMA MAG=1.2 S=0.50

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 51.9 56.4 4.5 -0.2 -0.3 29.3 99
KUT E 56.6 I 64.7 8.1 0.2 0.5X 59.0 44
UZI E 58.6 67.7 9.1 0.2 0.1 71.8 89
FUB 63.8 76.8 13.0 -0.3 -0.7X 107.1 42

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 13 19 15 8.3 0.3 106.2 0.5 74.0 1.0 11.9 5.4
33) NEAR KITSUGAHARA MAG=1.3 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 9.9 22.8 6.2 -0.1 0.0 48.7 41
FUB 16.6 22.6 5.8 0.2 -0.1 48.4 193
SHK 17.1 23.8 6.7 -0.1 0.1 52.1 142
UZI 17.1 23.8 6.7 -0.1 0.1 52.1 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 13 22 27 4.2 0.1 105.4 0.5 76.8 0.5 13.5 1.5
33) NEAR KITSUGAHARA MAG=4.6J S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 16.4 22.8 6.2 -0.1 0.0 48.7 41
FUB 12.6 22.6 5.8 0.2 -0.1 48.4 193
SHK 12.7 23.8 6.7 -0.1 0.1 52.1 142
UZI 12.7 23.8 6.7 -0.1 0.1 52.1 142
MTS 13.4 21.8 7.4 -0.1 -0.2 60.3 20
HWD 16.2 22.8 8.6 0.1 -0.1 70.3 265
YON 16.5 25.2 8.9 0.2 0.1 71.2 40
HIR 16.6 25.1 8.5 -0.2 -1.0X 74.5 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 11 1 35 41.0 0.1 111.1 0.6 68.5 1.1 0.6 R
32) NEAR AKAGI, SHIMANE MAG=1.1 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1 42.4 55.2 6.1 -0.1 -0.0 8.4 128
FUB 45.1 56.0 6.2 0.1 -0.1 49.2 50
SHK E 49.8 56.0 6.2 0.1 -0.1 52.3 186

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 11 7 20 39.3 0.3 9.6 1.8 135.3 1.6 16.4 6.8
95) EHIME MAG=2.88 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 44.1 51.9 7.8 -0.0 -0.1 62.6 331
SHK 48.0 E 59.2 11.2 0.2 -0.0 115.0 307
KUT 52.5 66.3 13.8 0.2 -0.1 113.0 327
FUB 55.2 71.8 16.6 -1.0 -1.1 136.2 347

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 12 15 19 8.1 0.1 -2.2 0.5 59.9 0.4 53.7 0.7
95) EHIME MAG=1.9 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 21.8 31.7 9.9 0.1 -0.0 61.4 2
UZI 24.3 36.2 11.9 -0.0 0.0 80.9 34
KUT E 28.4 43.3 14.9 -0.0 0.0 109.2 8

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 12 16 56 19.9 0.2 107.5 0.5 69.6 1.0 7.8 2.0
33) NEAR KITSUGAHARA MAG=1.4 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1 21.5 34.0 5.8 0.0 -0.2 48.9 188
SHK 28.2 34.5 5.9 0.1 -0.2 50.8 46
FUB 28.6 36.2 6.9 -0.0 0.0 55.9 140
UZI E 29.3 36.2 6.9 -0.0 0.0 55.9 140

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 30 23.7 0.3 105.0 0.6 77.5 1.2 15.4 2.6
33) NEAR KUTSUGAHARA
MAG=1.7B S=0.25
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 26.4 37.9 5.8 0.1 -0.2 47.4 37
FUB 32.1 38.0 5.7 0.1 -0.3# 48.2 198
SHK 32.3 38.6 6.3 0.0 0.0 49.1 145
UZI E 32.5

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 32 19.2 0.1 106.1 0.2 78.4 0.4 10.7 1.0
33) NEAR KUTSUGAHARA
MAG=2.1B S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.1 32.8 5.7 0.0 -0.0 3.3 266
FUB 27.1 32.8 6.1 0.0 -0.0 46.0 37
SHK 27.7 33.8 6.1 0.0 -0.1 49.6 198
UZI 27.8 33.8 6.0 0.2 -0.0 49.5 146

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 32 52.9 0.1 105.3 0.5 77.6 0.8 7.7 1.5
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.15
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 54.3 67.0 5.8 0.1 -0.1 47.1 37
FUB 60.8 67.0 5.8 0.1 -0.1 48.5 198
SHK 61.2 67.3 5.8 0.1 -0.1 49.3 145
UZI 61.2 67.3 5.8 0.1 -0.1 49.3 145

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 34 11.6 0.4 106.2 1.1 77.9 2.0 12.9 4.3
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.42
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 14.0 25.1 5.3 0.2 -0.4# 2.8 264
FUB 19.8 25.1 5.3 0.2 -0.4# 46.2 37
SHK 20.2 26.0 5.8 0.1 -0.4* 49.5 198
UZI 20.6 26.4 5.8 0.4* -0.1 49.8 146

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 36 20.3 0.1 104.0 0.4 80.2 0.5 4.6 R
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.20
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.8 22.5 5.9 0.1 -0.2 5.4 290
FUB 28.2 32.1 5.9 0.1 -0.2 46.7 147
SHK 28.0 33.8 5.8 -0.1 -0.0 46.6 33
UZI 28.3 33.1 5.8 -0.1 -0.2 48.2 201

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 37 21.4 0.2 106.7 0.6 77.2 0.9 12.1 2.1
33) NEAR KUTSUGAHARA
MAG=0.6 S=0.18
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.4 34.0 6.0 0.1 -0.2 2.2 249
FUB 30.0 34.0 6.0 0.1 -0.2 49.8 197
SHK 30.0 35.1 6.0 0.1 -0.1 46.3 38
UZI 30.0 36.4 6.0 0.1 -0.0 50.6 146

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 39 51.5 0.1 105.2 0.3 78.6 0.5 9.2 1.1
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.1 65.1 5.6 0.1 -0.1 3.6 281
FUB 59.5 65.1 5.6 0.1 -0.1 46.6 36
UZI 59.7 65.8 6.1 0.1 0.0 48.6 146
SHK 59.8 65.7 5.9 0.0 -0.1 48.8 199

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 13 22 44 4.8 0.1 106.1 0.3 77.4 0.5 13.6 1.2
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 7.1 19.5 6.1 0.1 -0.1 2.3 265
FUB 13.4 19.5 6.1 0.1 -0.1 49.2 197
SHK 13.4 19.5 6.1 0.1 -0.1 46.6 38
UZI 13.4 19.8 6.1 0.1 0.0 50.0 145

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 22 44 21.6 0.3 104.2 1.7 80.7 3.0 7.2 4.6
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.0
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.2 35.8 6.0 0.0 0.0 48.6 201
SHK 29.8 35.1 -0.0 46.2 33
FUB
UZI
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 22 46 30.6 0.1 104.9 0.3 78.7 0.5 9.1 1.2
33) NEAR KUTSUGAHARA
MAG=1.98 S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.2 44.5 6.0 -0.0 0.1 46.8 36
FUB 38.5 45.0 6.2 -0.0 0.1 48.5 199
SHK 38.8 44.8 6.0 -0.0 -0.0 48.3 146
UZI
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 22 50 32.9 0.2 104.7 0.4 79.1 0.8 13.4 1.8
33) NEAR KUTSUGAHARA
MAG=1.58 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 35.3 46.8 5.8 -0.0 -0.1 46.7 35
FUB 41.0 47.3 6.2 -0.1 0.0 47.9 146
SHK 41.4 47.2 5.8 0.1 -0.2 48.5 200
UZI
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 22 52 57.3 0.1 106.2 0.3 78.2 0.5 10.2 1.2
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 59.1 70.9 5.7 0.0 -0.0 3.1 264
FUB 65.2 72.0 6.2 0.0 0.0 46.0 37
SHK 65.8 71.8 5.9 0.2 -0.1 49.7 146
UZI
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 23 0 53.7 0.1 106.1 0.4 76.7 0.6 11.9 1.3
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.7 68.2 6.0 0.1 -0.1 49.0 196
SHK 62.2 68.7 -0.0 47.0 38
FUB
UZI
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 23 7 52.9 0.0 104.9 0.1 78.3 0.1 0.4 +/-
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.02
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.5 66.5 5.7 0.0 0.0 47.0 36
FUB 60.8 66.5 5.9 0.0 0.0 48.4 199
SHK 61.0 66.9 5.9 0.0 0.0 48.4 199
UZI
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 23 12 54.4 0.2 105.2 0.4 78.8 0.8 10.5 1.8
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 56.3 68.1 5.7 0.0 -0.1 46.5 36
FUB 62.4 68.7 5.8 0.2 0.1 48.8 196
SHK 62.9 68.8 0.1 48.5 146
UZI
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 13 23 20 59.7 0.0 105.5 0.1 77.4 0.2 11.1 0.4
33) NEAR KUTSUGAHARA
MAG=2.1R S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 61.5 74.3 6.2 -0.1 -0.1 47.1 37
FUB 67.7 74.0 6.0 -0.0 -0.1 48.7 197
SHK 68.0 74.3 6.2 -0.1 -0.1 49.5 145
UZI
*****

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DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 13 23 41 43.9 0.0 104.4 0.1 79.5 0.1 12.2 0.4
33) NEAR KUTSUGAHARA      MAG=1.4      S=0.03

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 46.0 57.8 5.9 0.1 -0.1 4.9 286
FUB 51.9 56.0 6.0 -0.1 -0.1 4.7 34
UZI E 52.0 56.0 6.0 -0.1 -0.1 4.5 16
SHK 52.2 58.2 6.0 -0.0 -0.1 48.3 200
*****
DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 13 23 50 39.2 0.3 105.3 0.8 79.8 1.3 8.0 3.3
33) NEAR KUTSUGAHARA      MAG=2.3      S=0.27

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 40.7 47.1 4.7 0.1 -0.1 4.7 277
FUB 47.1 45.8 3.5 0.1 -0.1 45.8 35
SHK 47.3 49.3 200 0.3 -0.2 49.3 200
UZI 47.3 53.3 6.0 -0.0 0.0 48.1 147
*****
DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 14 0 2 27.9 0.1 105.8 0.2 77.1 0.3 10.7 0.6
33) NEAR KUTSUGAHARA      MAG=1.5      S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 29.8 41.8 5.8 0.0 0.0 2.0 273
FUB 36.0 42.3 6.0 0.1 -0.0 47.0 38
SHK 36.3 42.7 6.3 -0.0 0.0 48.9 197
UZI 36.4 42.7 6.3 -0.0 0.0 50.0 145
*****
DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 14 0 8 23.2 0.1 105.8 0.3 77.9 0.5 10.4 1.1
33) NEAR KUTSUGAHARA      MAG=1.5      S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 25.0 37.0 5.9 -0.0 -0.0 2.8 272
FUB 31.1 37.0 5.9 -0.1 0.0 46.5 37
SHK 31.7 37.6 5.9 0.1 -0.1 49.1 198
UZI E 31.7 37.8 6.1 0.1 -0.0 49.5 146
*****
DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 14 0 26 45.8 0.1 106.1 0.4 77.5 0.7 2.4 0.4
33) NEAR KUTSUGAHARA      MAG=1.6      S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.7 59.1 6.0 0.1 -0.2 4.5 38
FUB 54.0 60.0 6.0 -0.0 -0.0 46.3 197
UZI I 54.0 60.3 6.3 -0.1 0.1 50.0 146
*****
DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 14 0 36 41.7 0.1 104.4 0.2 78.7 0.4 12.6 0.9
33) NEAR KUTSUGAHARA      MAG=1.7      S=0.09

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 43.8 55.8 6.0 -0.0 -0.0 47.2 35
FUB 49.8 56.0 6.2 -0.2 -0.0 47.9 146
UZI 50.0 56.0 6.0 0.0 -0.1 48.1 199
*****
DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 14 0 50 39.3 0.0 105.7 0.2 78.5 0.3 9.9 0.5
33) NEAR KUTSUGAHARA      MAG=2.0R      S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 41.0 47.2 5.8 0.0 0.0 46.2 36
FUB 47.2 53.8 6.2 -0.1 0.0 49.1 146
UZI 47.6 53.8 6.1 0.0 -0.0 49.2 198
*****
DATE      ORIGIN TIME      Y(KM)      X(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 14 1 34 48.4 0.0 105.9 0.0 78.3 0.0 7.5 0.1
33) NEAR KUTSUGAHARA      MAG=1.2      S=0.01

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 49.8 61.9 5.7 -0.0 -0.0 46.2 37
FUB 56.2 62.8 6.1 -0.0 -0.0 49.3 198
SHK 56.7 62.8 6.1 -0.0 -0.0 49.4 146
UZI

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 2 10 38.0 0.2 106.1 0.6 78.5 1.1 9.9 2.3
33) NEAR KUTSUGAHARA      MAG=1.1      S=0.22

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      39.7      51.6      5.8      -0.1      0.0      3.4      266
FUB      45.8      52.8      6.6      -0.2      0.2      49.6      198
SHK      46.2      52.5      52.5      -0.1      -0.1      49.4      146
UZI

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 2 12 41.4 0.2 105.9 0.6 78.1 1.1 9.8 2.4
33) NEAR KUTSUGAHARA      MAG=1.88     S=0.23

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      43.2      54.8      5.3      0.0      0.0      3.0      270
FUB      49.5      55.7      5.9      0.2      -0.3      46.3      37
SHK      49.8      56.0      6.2      0.0      -0.2      49.3      198
UZI      49.8      56.0      6.2      0.0      0.0      49.5      146

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 2 25 27.3 0.1 105.7 0.3 78.3 0.5 8.9 1.1
33) NEAR KUTSUGAHARA      MAG=1.1      S=0.10

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      29.0      40.9      5.6      0.1      0.0      3.2      273
FUB      35.3      41.7      6.0      0.1      -0.0      46.4      37
SHK      35.7      41.8      41.8      0.1      0.1      49.1      198
UZI      41.8      41.8      41.8      0.1      0.1      49.2      146

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 2 44 1.1 0.1 104.8 0.4 77.0 0.6 11.6 1.2
33) NEAR KUTSUGAHARA      MAG=3.0R     S=0.12

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      3.0      9.2      -0.1      -0.1      0.0      2.2      300
FUB      9.2      15.2      5.9      -0.0      -0.1      47.9      37
SHK      9.3      15.6      6.0      0.1      -0.1      47.9      197
UZI      9.6      15.6      6.0      0.1      -0.1      49.2      144

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 2 47 17.7 0.1 105.5 0.4 77.8 0.7 13.4 1.5
33) NEAR KUTSUGAHARA      MAG=1.4      S=0.14

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      20.0      31.8      6.0      -0.0      0.0      2.7      278
FUB      25.8      32.5      32.5      0.0      0.0      46.8      37
SHK      26.3      32.2      5.9      0.2      -0.1      49.3      145
UZI      26.3      32.2      5.9      0.2      -0.1      48.8      198

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 2 48 27.1 0.2 106.4 0.6 78.1 1.0 13.2 2.2
33) NEAR KUTSUGAHARA      MAG=1.2      S=0.21

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      29.3      41.0      6.2      -0.1      0.1      3.0      260
FUB      34.8      41.8      6.0      0.1      -0.2      45.9      37
SHK      35.8      41.9      6.1      0.1      -0.1      49.7      198
UZI      35.8      41.9      6.1      0.1      -0.1      49.9      146

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 3 0 47.5 0.2 104.6 0.6 78.8 1.1 12.1 2.5
33) NEAR KUTSUGAHARA      MAG=0.7      S=0.22

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      49.6      61.3      5.7      -0.1      0.0      3.9      289
FUB      55.6      61.6      5.7      0.0      -0.2      47.0      35
SHK      55.9      61.8      5.7      0.1      -0.3      48.3      199
UZI      55.9      61.8      5.7      0.1      -0.0      48.0      146

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 14 4 35 37.8 0.1 104.1 0.3 79.8 0.6 12.4 1.5
33) NEAR KUTSUGAHARA      MAG=1.3      S=0.13

STATION  TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      40.0      51.9      6.1      -0.1      0.0      5.0      291
FUB      45.8      51.7      5.8      0.0      -0.1      47.0      146
SHK      46.2      52.0      5.8      0.1      -0.2      46.8      34
UZI      46.2      52.0      5.8      0.1      -0.2      48.2      201

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DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 9 35 61.6 0.2 103.4 1.6 78.6 3.0 6.4 3.9
33) NEAR KUTSUGAHARA MAG=1.3 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 62.8 75.3 5.9 -0.1 -0.0 47.1 199
SHK 69.4 75.5 5.8 0.0 -0.1 48.0 35
FUB 69.7 75.5 5.8 0.0 -0.1 48.0 35

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 11 47 55.8 0.1 103.9 0.4 77.5 0.8 5.6 1.9
33) NEAR KUTSUGAHARA MAG=1.6 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 56.8 69.8 6.0 -0.1 -0.0 48.3 36
FUB 63.8 69.8 6.0 -0.1 -0.0 48.2 144
UZI 63.9 69.3 5.4 0.2 -0.2 47.2 198
SHK 63.9 69.3 5.4 0.2 -0.2 47.2 198

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 16 0 52.4 0.1 105.9 0.4 77.7 0.7 8.9 1.4
33) NEAR KUTSUGAHARA S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1 54.0 66.1 5.9 -0.1 0.0 46.6 270
FUB 60.2 67.0 6.2 -0.0 0.0 49.7 146
UZI 60.8 66.7 5.8 0.2 -0.1 49.1 197
SHK 60.9 66.7 5.8 0.2 -0.1 49.1 197

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 17 43 14.1 0.2 104.9 0.6 75.2 1.2 9.0 2.2
33) NEAR KUTSUGAHARA MAG=1.1 S=0.24

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.7 28.0 6.0 -0.2 -0.1 47.3 195
SHK 1 22.0 28.2 5.6 0.2 -0.3 48.9 39
FUB 22.6 28.2 5.6 0.2 -0.3 48.9 39
UZI 22.8 28.8 6.0 0.2 -0.1 50.3 143

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 4 43 43.5 0.1 104.4 0.3 78.6 0.5 15.3 1.2
33) NEAR KUTSUGAHARA MAG=1.9B S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 46.1 3.8 293
FUB 51.8 0.0 35
UZI 51.8 58.1 6.3 -0.1 0.0 48.0 145
SHK 1 52.0 58.0 6.0 0.1 -0.1 48.0 199

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 6 53 47.7 0.1 104.9 0.2 78.5 0.4 9.2 1.0
33) NEAR KUTSUGAHARA MAG=1.1 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.3 61.5 5.8 0.0 -0.0 46.9 36
FUB 55.7 62.0 6.2 -0.1 0.1 48.4 196
UZI 55.8 62.0 6.2 -0.1 0.1 48.4 196
SHK 1 56.0 61.9 5.9 0.1 -0.1 48.5 199

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 6 59 13.5 0.4 105.2 0.8 77.9 1.5 17.0 3.5
33) NEAR KUTSUGAHARA MAG=0.9 S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 16.6 27.8 5.9 0.2 -0.1 47.0 37
FUB 21.9 28.1 5.8 0.2 -0.3 48.5 198
UZI 22.3 28.1 5.8 0.2 -0.3 48.5 198
SHK 22.3 28.1 5.8 0.2 -0.3 48.5 198

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 14 8 3 57.2 0.1 105.9 0.2 76.8 0.4 6.1 0.8
33) NEAR KUTSUGAHARA MAG=1.3 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.2 70.9 5.8 -0.0 -0.0 47.1 38
FUB 65.1 71.3 5.8 0.1 -0.1 48.9 196
SHK 65.5 71.3 5.8 0.1 -0.1 48.9 196
UZI E 65.6 71.8 6.2 -0.0 -0.0 50.2 145

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 14 22 40	3.4 0.2	106.5 0.7	77.2 1.2	11.9 2.6
33) NEAR KUTSUGAHARA				
MAG=0.7 S=0.25				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	E 5.5	17.3	5.5 0.2	-0.3*
SHK	11.8	17.3	5.5 0.2	-0.3*
UZI	E 11.8	18.0	6.2 0.0	0.1
FUB	11.8	17.5	5.7 0.2	-0.2
DIST AZM				
				2.5 308
				47.7 197
				48.8 144
				48.0 37

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 15 1 52 8.3	0.1	103.3 0.3	75.6 0.5	12.4 1.1
33) NEAR KUTSUGAHARA				
MAG=2.28 S=0.11				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	I 10.4	22.0	5.7 0.0	-0.1
SHK	16.3	22.8	6.0 0.1	-0.1
UZI	16.8	21.8	5.0 -0.1	-1.4X
FUB	I 16.8	21.8	5.0 -0.1	-1.4X
DIST AZM				
				2.7 369
				46.0 196
				48.8 142
				49.9 37

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 15 2 30 26.9	0.2	106.1 0.5	76.3 0.9	11.1 1.8
33) NEAR KUTSUGAHARA				
MAG=1.5 S=0.19				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	I 28.8	40.8	5.7 0.1	-0.1
FUB	35.1	41.3	6.1 -0.1	-0.1
SHK	35.2	41.3	6.1 -0.1	-0.1
UZI	35.8	41.8	6.0 0.2	-0.1
DIST AZM				
				1.2 260
				47.3 39
				48.9 196
				50.7 144

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 15 3 49 17.8	0.9	109.2 1.8	69.4 2.8	19.1 7.4
33) NEAR KUTSUGAHARA				
MAG=0.8 S=0.50				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	21.3	33.0	6.0 0.1	-0.4*
SHK	27.0	33.0	6.0 0.2	-0.4*
FUB	33.0	33.0	-0.2	0.0
UZI	35.3	35.3	0.0	0.0
DIST AZM				
				6.6 119
				50.5 187
				49.8 47
				57.3 141

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 15 5 32 4.6	0.1	102.2 0.8	79.2 1.6	3.0 4.1
33) NEAR KUTSUGAHARA				
MAG=0.8 S=0.06				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	5.7	18.0	5.7 0.0	0.0
SHK	12.3	18.0	5.7 -0.0	0.0
FUB	12.8	18.7	5.9 0.1	0.0
DIST AZM				
				5.5 312
				46.2 201
				48.7 33

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 15 9 52 39.0	0.3	104.8 0.7	79.1 1.3	9.8 3.2
33) NEAR KUTSUGAHARA				
MAG=2.08 S=0.29				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	40.8	52.4	5.3 0.2	-0.4*
FUB	47.1	53.0	5.7 0.0	-0.3*
SHK	47.3	53.1	5.8 0.1	-0.1
UZI	47.3	53.1	5.8 0.1	-0.1
DIST AZM				
				4.1 295
				46.6 35
				48.6 199
				48.0 146

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 15 11 32 52.0	0.1	105.7 0.2	76.8 0.4	7.0 0.8
33) NEAR KUTSUGAHARA				
MAG=1.3 S=0.09				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	E 53.2	65.8	5.8 0.0	-0.0
FUB	60.0	66.1	5.8 0.0	-0.0
SHK	60.5	66.6	6.1 0.1	0.0
UZI	60.5	66.6	6.1 0.1	0.0
DIST AZM				
				1.7 276
				47.3 38
				48.7 197
				50.0 145

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
H M S	+/-	+/-	+/-	+/-
1970 MAR 15 12 45 13.8	0.3	105.3 0.8	78.4 1.5	13.2 3.3
33) NEAR KUTSUGAHARA				
MAG=1.3 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	E 16.2	27.7	5.9 -0.1	-0.1
FUB	E 21.8	28.1	5.7 0.2	-0.3*
SHK	22.4	28.3	5.7 0.4*	-0.1
UZI	E 22.6	28.3	5.7 0.4*	-0.1
DIST AZM				
				3.3 280
				46.6 36
				48.8 198
				48.8 146

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 20 45 2.8 0.0 105.8 0.0 74.3 0.1 5.5 0.1

33) NEAR KUTSUGAHARA MAG=1.4 S=0.01

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 3.7 -0.1 0.0 0.8 82
FUB 10.9 0.0 0.0 48.1 194
SHK 11.0 17.0 6.0 0.0 48.8 40
UZI I 17.8 0.0 0.0 51.6 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 21 1 3.6 0.3 105.1 1.0 75.3 1.6 9.2 3.0

33) NEAR KUTSUGAHARA MAG=2.8B S=0.33

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 5.1 -0.1 0.0 0.8 346
FUB 11.7 -0.2 0.0 48.7 39
SHK I 12.0 17.3 5.3 0.3 -0.3* 47.7 195
UZI I 12.1 18.4 6.3 -0.1 -0.0 50.4 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 21 3 59.7 0.2 105.5 0.7 79.1 1.1 6.0 2.9

33) NEAR KUTSUGAHARA MAG=3.3B S=0.24

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 60.8 -0.2 0.0 4.0 275
FUB 67.5 0.1 46.0 36
SHK 67.7 74.2 6.5 -0.3 0.2 49.2 199
UZI 67.8 73.8 6.0 -0.1 -0.0 48.6 147

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 21 10 12.0 0.6 105.6 1.2 78.5 1.8 17.7 5.2

33) NEAR KUTSUGAHARA MAG=1.2 S=0.38

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.1 0.0 3.4 275
SHK 20.9 26.8 5.9 0.2 -0.3 49.1 198
FUB 26.2 -0.1 48.3 36
UZI E 27.1 0.0 49.0 146

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 15 26 51.9 0.1 105.4 0.4 76.9 0.6 7.3 1.3

33) NEAR KUTSUGAHARA MAG=1.3 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 53.1 1.9 285
FUB 60.0 65.7 5.7 0.1 -0.1 47.5 38
SHK 60.1 I 66.0 5.9 0.0 -0.1 48.4 197
UZI 60.1 66.5 6.4 -0.2 0.1 49.7 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 19 34 42.8 0.1 105.9 0.3 78.9 0.5 6.3 1.2

33) NEAR KUTSUGAHARA MAG=1.2 S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 44.1 3.8 270
FUB 50.4 56.3 5.9 -0.1 0.1 45.8 36
UZI E 51.1 I 57.1 6.0 0.1 0.0 49.0 147
SHK 51.2 57.3 6.1 0.1 0.1 49.5 199

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 20 38 12.5 0.1 106.6 0.4 76.5 0.8 9.6 1.5

33) NEAR KUTSUGAHARA MAG=1.2 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 14.1 1.6 243
FUB E 20.6 26.2 5.6 0.1 -0.1 46.8 39
SHK I 21.0 I 27.0 6.0 0.1 -0.1 49.5 196
UZI 21.0 27.6 6.6 -0.1 0.1 51.0 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 15 20 44 24.6 0.1 105.9 0.4 80.0 0.7 5.5 2.1

33) NEAR KUTSUGAHARA MAG=2.1B S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 25.8 38.6 4.9 270
UZI 32.1 37.8 5.7 -0.1 0.1 48.5 148
FUB 32.8 39.2 6.4 -0.2 0.1 45.2 35
SHK 32.8 39.2 6.4 -0.2 0.1 49.9 200

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 15 22 51 39.2 0.4 106.6 1.1 79.0 2.0 9.3 4.6
33) NEAR KUTSUGAHARA
MAG=2.28 S=0.43
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 41.1 0.2 4.8 0.4* -0.4* 4.0 259
FUB I 41.3 45.2 37
SHK I 41.6 53.6 199
UZT I 41.8 55.8 147
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 16 0 26 23.7 0.1 105.5 0.9 77.7 1.7 9.8 1.3
33) NEAR KUTSUGAHARA
MAG=L.5 S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 25.3 37.5 5.9 -0.1 -0.0 2.6 278
FUB I 31.6 37.5 5.9 -0.1 -0.0 4.6 37
SHK I 32.0 38.0 6.0 0.0 -0.1 4.8 198
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 16 1 4 53.9 0.1 103.8 0.9 78.3 1.6 6.0 2.9
33) NEAR KUTSUGAHARA
MAG=4.3J S=0.29
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 55.1 -0.0 -0.2 3.8 303
FUB I 61.7 -0.2 47.9 35
SHK I 62.0 0.1 47.4 199
UZT I 62.0 0.1 47.6 145
MTS I 64.6 71.6 7.0 0.4* -0.1 61.3 19
YON I 65.9 74.3 8.4 0.0 -0.3* 71.5 39
HIR I 65.9 75.2 9.3 -0.4* -0.1 73.9 210
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 16 1 13 23.2 0.1 107.7 0.4 75.2 0.8 10.2 1.4
33) NEAR KUTSUGAHARA
MAG=L.4 S=0.15
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 25.0 37.1 6.0 -0.1 0.1 1.8 183
FUB 31.1 38.7 6.0 -0.1 0.1 46.8 41
SHK 31.9 38.7 6.0 0.2 0.0 50.2 194
UZT 31.9 38.7 6.0 0.2 0.0 52.6 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 16 1 14 43.2 0.2 103.5 0.6 78.2 1.0 5.1 2.7
33) NEAR KUTSUGAHARA
MAG=3.0R S=0.22
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 44.4 56.7 5.5 0.1 -0.2 3.9 307
SHK 51.2 57.0 5.7 0.1 0.0 47.0 199
UZT 51.3 57.0 5.7 0.1 0.0 47.4 144
FUB 51.5 57.0 5.5 0.2 -0.2 48.2 35
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 16 1 20 10.7 0.1 106.5 0.4 76.7 0.8 8.3 1.5
33) NEAR KUTSUGAHARA
MAG=L.4 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 12.2 24.3 5.5 0.0 -0.1 1.7 249
FUB 18.8 25.2 6.2 -0.1 0.0 46.7 39
SHK 19.0 25.2 6.2 -0.1 0.0 49.4 196
UZT 25.6 50.8 145
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-      +/-      +/-
1970 MAR 16 1 32 18.5 0.2 105.7 1.2 78.6 2.2 7.7 2.1
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.0 32.1 5.8 -0.0 0.1 3.5 273
FUB 26.3 32.9 6.0 0.1 -0.0 46.2 36
SHK 26.9 32.9 6.0 0.1 -0.0 49.2 199

```

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 1 40 20.6 0.1 105.8 0.6 76.7 1.1 8.4 0.7

33) NEAR KUTSUGAHARA

MAG=0.8 S=0.04

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	22.1	34.5	5.9	0.0	0.0	1.6	273
FUB	28.6	34.9	6.0	0.0	0.0	47.3	38
SHK	28.9	34.9	6.0	0.0	0.0	48.8	196

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 1 54 54.9 0.1 106.0 0.3 75.6 0.6 7.3 1.1

33) NEAR KUTSUGAHARA

MAG=0.9 S=0.12

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	56.2	68.8	5.8	0.0	-0.1	0.5	259
FUB	63.0	69.0	5.8	0.1	-0.1	47.8	39
SHK	63.2	69.8	5.8	0.1	-0.1	48.6	195
UZI					0.0	51.0	144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 2 8 54.5 0.2 106.1 0.5 77.3 1.0 5.4 1.9

33) NEAR KUTSUGAHARA

MAG=2.1B S=0.20

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	55.6	67.9	5.3	0.1	-0.2	2.2	264
FUB	62.6	68.7	5.9	0.0	-0.1	46.7	38
SHK	62.8	68.7	5.9	0.0	-0.1	49.2	197
UZI	63.0	69.1	6.1	0.1	0.0	50.1	145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 2 31 27.8 0.1 105.9 0.3 76.9 0.6 6.8 1.1

33) NEAR KUTSUGAHARA

MAG=1.4 S=0.12

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	29.0	41.6	6.0	-0.0	0.1	1.8	270
FUB	35.6	41.6	6.0	-0.1	0.1	47.1	38
SHK	36.1	42.0	5.9	0.1	-0.1	48.9	197
UZI		42.4			-0.0	50.2	145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 1 35 44.7 0.1 104.6 0.4 78.2 0.7 6.8 1.7

33) NEAR KUTSUGAHARA

MAG=1.1 S=0.16

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	46.0	58.6	6.1	-0.2	0.1	3.4	292
FUB	52.5	58.7	5.8	0.1	-0.0	47.3	36
SHK	52.9	58.7	5.8	0.1	-0.0	48.1	199
UZI		58.8			-0.0	48.3	145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 1 36 35.3 0.2 105.4 0.5 78.4 0.9 9.8 2.0

33) NEAR KUTSUGAHARA

MAG=1.2 S=0.19

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	37.1	49.0	5.9	-0.1	-0.0	3.3	278
FUB	43.1	49.5	5.8	0.1	-0.2	46.5	36
SHK	43.7	49.5	5.8	0.1	-0.2	48.9	198
UZI	43.8	49.6	5.8	0.2	-0.1	48.9	146

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 1 37 35.5 0.1 105.3 0.4 78.1 0.8 6.0 1.7

33) NEAR KUTSUGAHARA

MAG=1.5 S=0.16

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	36.7	49.0	5.5	0.0	-0.1	3.1	281
FUB	43.5	49.8	6.1	-0.0	0.0	46.8	36
SHK	43.8	49.5	5.7	0.1	-0.2	49.0	146
UZI					-0.2	48.7	198

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 16 1 38 34.7 0.1 105.4 0.3 78.6 0.6 7.9 1.4

33) NEAR KUTSUGAHARA

MAG=1.3 S=0.13

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	36.2	48.3	5.7	0.0	-0.0	3.5	278
FUB	42.6	49.1	6.3	-0.1	0.1	46.4	36
SHK	43.1	49.0	5.9	0.1	-0.0	48.8	146
UZI					-0.0	49.0	199

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 2 55 17.8 0.1 106.6 0.3 77.1 0.5 8.9 0.9 +/-
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 19.4 32.3 6.1 -0.0 -0.1 2.1 250
SHK 26.2 I 32.3 6.1 -0.0 -0.1 49.6 197
FUB 26.5 32.6 6.1 0.1 -0.0 50.6 145
UZI 25.7 31.4 5.7 0.0 -0.0 46.4 38
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 3 8 47.2 0.1 106.0 0.3 76.7 0.5 6.3 0.9 +/-
33) NEAR KUTSUGAHARA
MAG=1.5 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 48.2 60.9 5.9 -0.1 -0.0 1.6 266
FUB 55.0 61.3 5.8 0.1 -0.2 47.1 38
SHK 55.5 61.3 5.8 0.1 -0.2 48.9 196
UZI 55.6 I 61.8 6.2 -0.1 -0.1 50.4 145
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 3 13 21.1 0.1 106.4 0.3 76.9 0.6 7.5 1.2 +/-
33) NEAR KUTSUGAHARA
MAG=1.5 S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.3 34.8 6.0 -0.1 -0.0 1.9 254
FUB 28.8 35.4 5.9 0.1 -0.1 46.7 38
SHK 29.5 35.4 5.9 0.1 -0.1 49.4 196
UZI 29.6 35.8 6.2 -0.0 -0.1 50.6 145
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 3 16 43.8 0.1 105.0 0.2 77.7 0.4 7.9 0.9 +/-
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 45.1 57.7 6.0 -0.1 -0.1 2.7 289
FUB 51.7 58.0 6.1 -0.1 -0.1 47.3 37
SHK 51.9 58.0 6.1 -0.1 -0.1 48.3 198
UZI 52.0 58.1 6.1 -0.1 -0.1 49.0 145
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 3 18 26.8 0.2 108.6 1.5 73.7 2.8 10.6 1.1 +/-
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 28.6 40.8 6.0 -0.1 -0.0 3.0 152
FUB 34.8 40.8 6.0 0.1 0.0 47.1 43
SHK 35.5 41.7 6.2 0.1 -0.1 50.7 192
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 3 33 51.8 0.2 106.2 1.7 76.0 3.1 5.3 1.3 +/-
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 52.7 E 53.5 0.8 -0.1 0.1 0.9 251
FUB 65.6 66.0 5.9 0.1 -0.0 47.4 39
SHK 60.1 66.0 5.9 0.1 -0.0 48.9 195
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 3 39 18.5 0.1 105.1 0.3 78.7 0.5 9.3 1.2 +/-
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.2 32.2 5.7 0.0 0.1 3.7 282
FUB 26.5 32.8 6.0 0.1 -0.0 46.6 36
UZI 26.8 32.8 6.0 0.1 0.0 48.5 146
SHK 26.9 32.7 5.8 0.1 -0.1 48.7 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 16 4 51 56.6 0.2 107.0 0.6 75.9 1.1 7.1 1.9 +/-
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 57.9 70.1 5.4 0.0 0.0 1.4 215
FUB 64.7 71.0 6.0 0.0 -0.2 46.9 40
SHK 65.0 71.7 6.0 0.0 0.0 49.7 195
UZI 65.0 71.7 6.0 0.0 0.0 51.6 145
*****

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 5 16 49.6 0.6 79.9 1.7 139.0 3.2 9.6 13.3
81) NEAR YAKAKE,OKAYAMA
MAG=2.1 S=0.49
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UT 55.8 60.8 5.0 -0.2 0.2 36.9 245
FUB 61.6 69.8 8.2 0.1 -0.4* 70.8 332
SHK 61.7 70.1 8.4 0.5* 0.4* 69.0 332
SHK 62.9 72.1 9.2 -0.0 -0.6* 79.2 254
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 5 56 15.3 0.0 103.7 0.1 81.0 0.2 4.6 0.4
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.01
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 16.6 28.8 5.7 0.0 0.0 46.3 290
FUB 23.1 28.8 5.7 0.0 0.0 46.5 32
SHK 23.4 1 29.3 5.9 0.0 0.0 48.2 202
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 6 20 42.2 0.2 104.5 0.6 77.2 1.1 6.6 2.5
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.24
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 43.4 56.1 5.8 0.0 -0.1 48.0 37
FUB 50.3 56.0 5.8 -0.0 -0.1 47.7 197
SHK 50.2 56.3 5.5 0.4* -0.1 48.8 144
UT 50.8 56.3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 6 48 0.7 0.1 106.2 0.3 76.6 0.6 6.4 1.2
33) NEAR KUTSUGAHARA
MAG=1.98 S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1.9 14.3 5.5 0.2 -0.1 47.0 39
FUB 8.8 15.5 6.3 -0.0 0.1 50.6 145
UT 9.2 15.0 6.0 0.0 -0.0 49.1 196
SHK 1 9.0 15.0
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 6 59 37.6 0.3 104.4 0.7 78.5 1.2 12.3 2.8
33) NEAR KUTSUGAHARA
MAG=0.8 S=0.26
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.9 51.6 5.8 0.0 -0.1 47.3 35
FUB 45.8 51.7 5.6 0.2 -0.2 48.0 199
SHK 46.1 52.0 5.6 0.2 -0.2 48.0 145
UT 52.0 52.0
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 7 52 42.8 0.2 106.6 1.1 75.0 2.0 9.0 0.9
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 44.2 56.8 6.0 -0.1 -0.0 47.7 40
FUB 50.8 56.8 6.0 -0.1 -0.0 47.7 40
SHK 51.1 57.1 6.0 -0.0 -0.1 49.1 194
UT 57.1 57.1
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 7 58 47.5 0.1 103.9 0.6 79.5 1.0 6.1 R
33) NEAR KUTSUGAHARA
MAG=1.8 S=0.13
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 48.7 55.5 61.1 5.6 0.1 -0.1 47.1 34
FUB 55.5 61.3 5.7 0.1 -0.1 47.9 200
SHK 55.6 61.3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- X(KM) Y(KM) +/-
1970 MAR 16 9 43 12.6 0.0 104.4 0.0 78.5 0.1 10.3 0.1
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.01
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 14.4 26.6 5.9 0.0 0.0 47.3 35
FUB 20.7 26.8 6.0 0.0 0.0 48.0 199
SHK 20.8 26.8 6.0 0.0 0.0 48.0 145
UT 20.8 26.8 6.0 0.0 0.0 48.0 145

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DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 9 48 4.4 0.2				103.8 1.5				78.8 2.8		4.7 4.1			
33) NEAR KUTSUGAHARA													
				MAG=0.8				S=0.11					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				5.4	6.1	0.7	-0.1	-0.2	4.3	299			
SHK				12.2	18.2	6.0	-0.2	0.0	47.5	200			
FUB				12.4	18.1	5.7	0.0	-0.1	47.6	35			

DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 10 13 41.3 0.1				103.5 0.4				75.5 0.7		12.1 1.2			
33) NEAR KUTSUGAHARA													
				MAG=2.8B				S=0.12					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				43.3			-0.1		2.4	350			
SHK				49.2			-0.1		46.2	196			
UZI				49.8	55.8	6.0	0.1	-0.1	49.0	142			
FUB				49.8			-0.1		49.8	38			

DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 10 16 49.9 0.1				104.9 0.3				77.6 0.5		5.0 1.2			
33) NEAR KUTSUGAHARA													
				MAG=1.6B				S=0.11					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				50.8			-0.1		2.7	291			
FUB				57.8	63.8	6.0	-0.1	0.1	47.4	37			
SHK				57.9	64.0	6.1	-0.1	0.1	48.2	198			
UZI				58.1	64.1	6.0	-0.0	-0.0	48.9	145			

DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 10 17 35.0 0.4				103.9 1.1				75.9 2.0		11.5 4.2			
33) NEAR KUTSUGAHARA													
				MAG=1.5B				S=0.42					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				37.1			0.1		2.2	338			
SHK				42.7	48.8	6.1	-0.3*	-0.1	46.7	196			
FUB				43.7	49.2	5.5	0.3	-0.4*	49.3	38			
UZI				43.8	49.4	5.6	0.4*	-0.2	49.1	143			

DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 10 20 20.3 0.3				100.5 1.6				80.9 3.0		10.6 4.3			
33) NEAR KUTSUGAHARA													
				MAG=1.3				S=0.14					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				22.5			-0.1		7.9	313			
SHK				28.0	33.8	5.8	-0.1	0.1	45.2	203			
FUB				28.8	34.8	6.0	0.1	-0.0	49.2	30			

DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 10 48 19.3 0.6				104.0 1.3				78.0 2.6		15.6 5.4			
33) NEAR KUTSUGAHARA													
				MAG=2.2B				S=0.50					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				22.1			0.1		3.5	303			
SHK				27.3			-0.3*		47.4	199			
UZI				28.0	33.8	5.8	0.3	-0.1	48.0	145			
FUB				28.1	33.5	5.4	0.4*	-0.4*	47.9	36			

DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 10 57 35.4 0.6				98.8 3.3				86.4 6.3		10.6 14.0			
40) MIYOSHI AND SHORARA													
				MAG=1.0				S=0.32					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				38.2			-0.1		13.3	302			
SHK				43.1	49.2	6.1	-0.2	0.1	46.3	211			
FUB				43.8	49.5	5.7	0.2	-0.2	48.2	24			

DATE				ORIGIN TIME				X(KM)		Y(KM)		DEPTH(KM)	
				H	M	S	+/-						
1970 MAR 16 11 15 40.5 0.9				102.6 3.3				74.6 6.6		10.4 8.0			
33) NEAR KUTSUGAHARA													
				MAG=2.0B				S=0.64					
STATION				TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM			
KUT				42.5			0.1		3.4	9			
SHK				48.7	53.5	4.8	0.4*	-0.4*	45.1	195			
UZI				49.0			0.1		48.9	140			
FUB				49.0			-0.2		51.1	38			

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 12 3 41.3 0.3 104.6 1.0 79.0 1.7 9.1 4.2
MAG=1.7 S=0.38
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 43.0 55.3 6.0 -0.2 0.0 4.1 288
SHK I 49.3 54.7 5.2 0.2 -0.2 48.3 199
FUB I 49.8 55.2 5.4 0.4* -0.2 46.8 35
UTZ 49.8 55.2 5.4 0.4* -0.2 47.9 146
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 12 37 31.5 0.1 100.9 0.6 82.4 0.9 4.5 R
MAG=1.1 S=0.25
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 33.5 34.2 0.7 0.3* -0.2 8.8 304
SHK I 39.1 45.0 5.9 -0.1 0.1 46.2 205
FUB I 39.7 45.4 5.7 0.1 -0.1 48.1 29
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 14 55 20.1 0.2 101.5 0.4 79.6 0.7 15.1 1.9
MAG=1.5 S=0.15
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 22.8 28.0 1 34.0 6.0 -0.1 -0.0 45.7 314
SHK I 28.0 33.8 6.0 -0.1 -0.0 45.0 144
FUB I 28.8 34.8 6.0 0.1 -0.1 49.1 32
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 15 17 44.3 0.2 103.3 1.5 78.5 2.6 4.6 R
MAG=1.3 S=0.38
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 45.3 58.0 6.0 -0.2 0.1 4.3 307
SHK I 52.0 58.0 5.2 0.4* -0.3 46.9 199
FUB I 52.8 58.0 5.2 0.4* -0.3 48.2 35
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 15 59 35.7 0.2 102.9 1.3 80.4 1.7 3.9 R
MAG=2.1R S=0.62
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 37.4 E 38.0 0.6 0.5* 0.2 6.1 299
SHK I 43.3 48.7 5.4 -0.3* -0.7X 47.3 202
UTZ I 49.5 49.5 0.6X 45.7 146
FUB I 43.8 48.8 5.0 0.2 -0.6X 47.5 32
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 16 6 54.5 0.1 103.9 0.7 79.6 1.4 2.8 4.4
MAG=1.1 S=0.05
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 55.4 68.1 5.8 -0.1 -0.0 4.9 294
FUB I 62.3 68.1 5.8 -0.1 -0.0 47.1 34
SHK I 62.5 68.3 5.8 0.0 -0.1 47.9 200
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 16 13 28.5 0.1 100.3 0.6 82.2 0.9 5.2 R
MAG=1.4 S=0.24
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 30.5 31.3 0.8 0.2 -0.3 9.0 308
SHK I 36.0 41.8 5.8 -0.2 0.0 45.6 205
FUB I 36.8 42.5 5.7 0.1 -0.2 48.7 29
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAR 16 16 33 40.7 0.2 103.2 0.9 79.4 1.3 4.5 R
MAG=1.4 S=0.43
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 42.2 42.9 0.7 0.4* 0.2 5.1 302
UTZ I 48.6 54.6 0.5* 46.5 145
SHK I 48.2 54.0 5.8 -0.3* -0.3* 47.1 200
FUB I 48.6 54.2 5.6 -0.1 -0.3* 47.8 34

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 16 16 35 55.6 0.1 105.3 0.2  78.8 0.3  6.9 0.5
33) NEAR KUTSUGAHARA
MAG=1.1  S=0.07
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 56.9  E 57.8  0.9 -0.1  -0.2  3.7  28
SHK      I 63.5  69.1  5.6 0.1  -0.0  46.4  186
FUB      I 63.9  69.8  5.9 0.1  -0.1  48.6  192
UZT      I 63.9  69.8  5.9 0.1  -0.1  48.6  146
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 16 17 28 30.4 0.1 100.6 0.6  82.7 0.9  5.2  R
33) NEAR KUTSUGAHARA
MAG=1.0  S=0.23
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      E 32.4  33.2  0.8 0.2  -0.3*  9.3  304
SHK      I 37.9  43.8  5.9 -0.2  -0.0  46.1  205
FUB      I 38.5  44.3  5.8 0.0  -0.1  48.2  29
UZT      I 38.5  44.3  5.8 0.0  -0.1  48.2  29
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 16 18 34  5.8 0.2 104.7 0.5  76.1 0.8  9.9 1.7
33) NEAR KUTSUGAHARA
MAG=1.4  S=0.18
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 7.4  19.7  5.7 0.1  -0.1  1.6  320
SHK      I 14.0  20.5  6.5 -0.2  -0.1  47.5  196
FUB      I 14.1  20.0  5.9 0.0  -0.1  49.6  143
UZT      I 14.1  20.0  5.9 0.0  -0.1  48.5  38
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 16 19 45 11.4 0.1 104.3 0.5  71.8 0.8  9.9 1.2
33) NEAR KUTSUGAHARA
MAG=2.3B S=0.12
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 13.1  19.2  5.7 0.1  -0.1  3.7  64
SHK      I 19.2  20.1  6.1 0.1  -0.1  46.1  191
FUB      I 20.1  20.3  6.3 0.1  -0.1  51.6  41
UZT      I 20.3  26.6  6.3 0.1  -0.1  52.0  139
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 16 21 22 34.3 0.3 104.8 1.0  72.0 1.8 11.1 3.4
33) NEAR KUTSUGAHARA
MAG=1.4  S=0.35
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 36.4  48.2  6.1 -0.2  0.0  3.3  70
SHK      I 42.1  49.8  6.5 0.1  0.0  46.6  191
FUB      I 43.3  49.8  6.5 0.1  0.1  52.2  140
UZT      I 43.5  49.1  5.6 0.5* -0.3  51.1  42
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 16 22 59 50.7 0.1 107.0 0.4  74.8 0.7  4.5 1.1
33) NEAR KUTSUGAHARA
MAG=0.9  S=0.14
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 51.5  64.6  6.1 -0.2  0.1  1.1  164
FUB      I 58.5  65.0  6.0 0.0  -0.0  47.6  41
SHK      I 59.0  65.8  6.0 0.0  -0.0  49.4  194
UZT      I 59.0  65.8  6.0 0.0  -0.0  52.3  144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 17  0 44 31.4 0.1 104.0 0.3  75.1 0.5 16.9 0.9
33) NEAR KUTSUGAHARA
MAG=2.8B S=0.09
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 34.2  46.6  6.5 -0.1  0.0  1.9  0
SHK      I 39.7  46.6  6.5 -0.1  0.0  46.6  195
FUB      I 40.1  46.6  6.5 -0.1  0.0  49.7  142
UZT      I 40.2  46.6  6.5 -0.1  0.0  49.7  38
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    H M S    +/-      +/-      +/-
1970 MAR 17  0 55 27.7 0.0 101.8 0.1  75.4 0.2 15.2 0.4
33) NEAR KUTSUGAHARA
MAG=2.1B S=0.04
STATION  TP      TS      P-S  TP(O-C)  TS(O-C)  DIST  AZM
KUT      I 30.4  41.3  5.7 0.0  -0.0  4.1  355
SHK      I 35.6  42.2  6.1 0.0  -0.0  44.5  196
FUB      I 36.1  42.2  6.1 0.0  -0.0  47.8  141
UZT      I 36.6  42.2  6.1 0.0  -0.0  51.2  37

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 0 58 58.1 0.0 104.8 0.2 77.2 0.3 6.1 0.4

33) NEAR KUTSUGAHARA
MAG=1.4 S=0.06

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 59.2 E 59.9 0.7 -0.0 2.4 297
SHK 66.2 I 72.0 5.8 0.0 -0.1 47.9 197
FUB 72.4 72.0 0.0 0.0 47.7 37
UZI 72.4 72.0 0.0 0.0 49.1 144

33) NEAR KUTSUGAHARA
MAG=1.4 S=0.06

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 2 13 39.6 0.2 105.1 0.4 75.8 0.8 11.6 1.6

33) NEAR KUTSUGAHARA
MAG=1.5 S=0.17

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 41.5 53.8 6.1 -0.1 1.1 319
SHK 47.7 53.8 5.7 0.2 -0.2 47.8 196
FUB 48.1 54.5 6.4 -0.1 0.0 48.4 38
UZI 48.1 54.5 6.4 -0.1 0.0 50.1 143

33) NEAR KUTSUGAHARA
MAG=1.5 S=0.17

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 3 40 58.8 0.0 106.5 0.1 76.1 0.3 7.8 0.5

33) NEAR KUTSUGAHARA
MAG=1.3 S=0.05

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 60.2 72.6 5.8 0.0 0.0 1.2 239
SHK 66.8 73.2 6.0 0.1 -0.0 47.1 39
FUB 67.2 73.2 6.0 0.1 -0.0 49.3 196
UZI 67.4 73.8 6.4 -0.0 0.1 51.1 144

33) NEAR KUTSUGAHARA
MAG=1.3 S=0.05

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 4 25 22.2 0.2 104.1 0.6 71.1 1.1 13.1 2.3

33) NEAR KUTSUGAHARA
MAG=1.1 S=0.21

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 24.5 36.0 6.0 -0.1 4.4 65
SHK 30.0 37.6 6.2 0.2 -0.1 45.8 190
FUB 31.4 37.8 6.2 0.2 0.0 52.2 42
UZI 31.4 37.8 6.2 0.2 0.0 52.3 138

33) NEAR KUTSUGAHARA
MAG=1.1 S=0.21

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 5 23 43.5 0.1 104.5 0.2 77.9 0.3 11.1 0.5

33) NEAR KUTSUGAHARA
MAG=1.5 S=0.05

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 45.5 57.8 6.1 -0.0 0.1 3.1 296
SHK 51.7 57.8 6.1 -0.0 0.1 47.6 36
FUB 51.7 57.8 6.1 -0.0 0.1 47.9 198
UZI 51.8 57.9 6.1 0.0 0.0 48.4 145

33) NEAR KUTSUGAHARA
MAG=1.5 S=0.05

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 5 34 1.8 0.1 105.5 0.3 73.8 0.5 5.2 0.8

33) NEAR KUTSUGAHARA
MAG=1.5 S=0.10

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 24.7 15.6 5.7 0.1 -0.1 1.4 72
SHK 9.9 15.6 5.7 0.1 -0.1 47.7 193
FUB 10.1 16.1 6.0 0.0 -0.0 49.4 41
UZI 10.6 16.8 6.2 0.1 0.0 51.7 142

33) NEAR KUTSUGAHARA
MAG=1.5 S=0.10

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 5 41 56.4 0.1 104.6 0.2 74.6 0.5 2.9 0.8

33) NEAR KUTSUGAHARA
MAG=2.38 S=0.08

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 56.9 70.8 6.2 -0.1 1.4 21
SHK 64.3 70.8 6.2 -0.1 47.0 194
FUB 64.6 71.0 6.2 -0.1 49.5 39
UZI 64.8 71.0 6.2 -0.0 50.5 142

33) NEAR KUTSUGAHARA
MAG=2.38 S=0.08

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 17 5 44 15.1 0.1 104.3 0.4 73.3 0.7 11.5 1.4

33) NEAR KUTSUGAHARA
MAG=1.1 S=0.15

STATION TP TS P-S TPO-C) TS(O-C) DIST AZM
KUT I 17.0 29.0 6.1 -0.2 2.4 48
SHK 22.9 29.0 6.1 -0.2 46.4 193
UZI 23.8 30.2 6.4 -0.0 51.0 140
FUB 23.9 30.0 6.1 0.1 -0.1 50.6 40

33) NEAR KUTSUGAHARA
MAG=1.1 S=0.15

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 17 6 50 45.4 0.1 104.4 0.1 76.5 0.3 9.9 0.6
33) NEAR KUTSUGAHARA      MAG=0.8      S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 47.0 59.3 5.9 -0.1 -0.1 2.1 317
SHK 53.4 59.6 6.0 -0.1 -0.1 47.4 197
FUB 53.6 59.8 6.0 -0.1 -0.1 48.5 37
UZI E 53.8 59.8 6.0 0.0 0.0 49.2 143
*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 17 10 3 26.6 0.1 105.6 0.4 75.2 0.8 9.2 1.5
33) NEAR KUTSUGAHARA      MAG=1.5      S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 28.1 40.6 5.7 0.1 -0.2 0.3 342
SHK 34.9 40.7 5.8 0.1 -0.1 48.1 195
FUB 34.9 40.7 5.8 0.1 -0.1 48.4 199
UZI E 35.1 41.6 6.5 -0.1 0.1 50.9 143
*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 17 10 23 17.5 0.1 104.6 0.7 77.0 1.0 3.9 R
33) NEAR KUTSUGAHARA      MAG=1.3      S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 18.5 19.1 0.6 0.2 0.2 2.3 304
FUB 25.4 31.2 5.8 -0.1 -0.2 48.0 37
SHK 25.2 31.1 5.9 -0.3 -0.2 47.7 197
UZI 32.0 32.0 0.3 0.3 49.0 144
*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 17 20 1 21.8 0.1 105.2 0.4 78.4 0.8 4.8 2.0
33) NEAR KUTSUGAHARA      MAG=1.5      S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.7 29.5 35.5 6.0 -0.1 3.4 282
FUB 29.5 35.5 6.0 -0.1 0.1 46.7 36
UZI I 29.8 36.0 6.2 -0.2 0.1 48.7 146
SHK I 30.0 36.0 6.0 0.0 0.1 48.7 199
*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 17 23 2 29.2 0.1 105.0 0.3 74.8 0.6 1.9 1.0
33) NEAR KUTSUGAHARA      MAG=1.1      S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 29.6 43.0 6.0 -0.1 0.1 47.5 18
SHK 37.0 43.8 6.1 0.0 -0.0 50.7 152
UZI E 37.7 43.4 0.0 0.0 49.1 59
FUB 0.0 0.0 0.0 0.0 49.1 59
*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 18 0 4 21.0 0.3 109.9 1.3 70.2 2.0 4.5 R
33) NEAR KUTSUGAHARA      MAG=0.9      S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.5 E 23.2 0.7 0.2 -0.1 0.3 159
SHK 29.8 35.6 5.8 0.2 -0.3 51.3 188
FUB 35.0 35.0 -0.1 -0.1 48.7 47
*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 18 2 36 13.9 0.0 104.0 0.2 81.8 0.3 0.9 R
33) NEAR KUTSUGAHARA      MAG=0.8      S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.1 E 15.8 0.7 0.0 -0.1 7.0 265
FUB 21.6 27.1 5.5 0.1 -0.0 45.8 32
SHK 22.1 28.0 5.9 0.1 0.0 48.8 203
*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 18 4 29 20.1 0.2 105.4 0.7 78.6 1.3 4.6 3.0
33) NEAR KUTSUGAHARA      MAG=3.0R      S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.0 27.8 -0.1 -0.1 3.5 278
FUB 27.8 28.2 -0.1 -0.1 46.4 36
SHK 28.2 34.1 5.7 0.1 -0.2 49.0 199
UZI 28.4 34.1 5.7 0.1 -0.2 48.8 146
*****

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DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 6 1 21.7 0.3 71.5 0.8 149.6 1.7 25.1 2.7

81) NEAR YAKAKE, OKAYAMA MAG=1.5 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.1 36.5 6.4 -0.2 -0.0 44.7 261
FUB 37.0 48.0 11.0 0.0 -0.1 88.0 261
SHK 46.8 58.0 11.0 0.0 -0.1 83.4 328
UZI 46.8 58.0 11.0 0.0 -0.1 83.4 328

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 6 3 14.1 0.2 103.7 1.6 80.5 2.9 2.9 7.3

33) NEAR KUTSUGAHARA MAG=0.8 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.3 16.0 0.7 0.1 -0.0 5.8 292
FUB 21.8 27.7 5.9 -0.1 0.1 46.7 33
SHK 22.2 28.0 5.8 0.1 0.0 48.0 201
UZI 22.2 28.0 5.8 0.1 0.0 48.0 201

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 6 39 17.4 0.1 106.4 0.3 78.4 0.5 6.1 1.1

33) NEAR KUTSUGAHARA MAG=1.2 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 18.5 18.5 0.0 0.1 -0.1 3.3 261
FUB 25.0 31.8 6.0 0.0 -0.1 45.7 37
SHK 25.8 31.8 6.0 0.0 -0.1 49.8 198
UZI 25.8 31.8 6.0 0.0 -0.1 49.7 147
SHK 25.8 31.8 6.0 0.0 -0.1 49.7 147

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 8 48 26.7 0.2 107.5 1.2 77.6 1.4 0.8 R

33) NEAR KUTSUGAHARA MAG=1.6 S=0.37

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 27.3 34.1 6.8 0.1 -0.1 45.0 237
FUB 35.5 41.0 5.5 0.4* -0.3* 50.6 197
SHK 35.6 41.4 5.8 0.4* -0.1 51.1 146
UZI 35.6 41.4 5.8 0.4* -0.1 51.1 146

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 4 50 27.8 0.2 106.7 0.6 76.8 1.0 7.4 1.8

33) NEAR KUTSUGAHARA MAG=1.5 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 29.0 36.5 7.5 0.1 0.1 46.5 39
FUB 35.5 42.1 6.6 0.0 -0.2 49.6 196
SHK 36.2 42.5 6.3 0.1 -0.1 50.9 145
UZI 36.5 42.5 6.3 0.1 -0.1 50.9 145

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 5 16 42.0 0.0 104.7 0.0 78.5 0.0 3.1 0.0

33) NEAR KUTSUGAHARA MAG=2.48 S=0.00

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.8 56.0 13.2 0.0 0.0 47.0 36
FUB 49.9 56.0 6.1 0.0 0.0 48.3 199
SHK 50.1 56.0 6.1 0.0 0.0 48.3 146
UZI 50.1 56.0 6.1 0.0 0.0 48.3 146

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 5 26 44.3 0.2 104.9 0.5 77.6 0.9 5.3 2.2

33) NEAR KUTSUGAHARA MAG=1.4 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 45.2 58.1 12.9 0.1 0.1 47.4 37
FUB 52.2 58.6 6.4 -0.3* 0.1 48.9 145
UZI 52.2 58.6 6.4 -0.3* 0.1 48.9 145
SHK 52.5 58.2 5.7 0.1 -0.1 48.2 198

DATE ORIGIN TIME Y(KM) X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 18 5 44 31.3 0.2 106.0 0.9 77.7 1.4 4.5 3.2

33) NEAR KUTSUGAHARA MAG=2.48 S=0.29

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 32.1 38.9 6.8 0.1 0.1 46.5 37
FUB 38.9 45.3 6.4 0.2 -0.3 49.7 197
SHK 39.7 45.6 6.7 0.2 -0.1 49.8 146
UZI 39.8 45.6 6.7 0.2 -0.1 49.8 146

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DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 18 12 23 18.0 0.2 103.9 0.7 74.4 1.5 1.0 R
33) NEAR KUTSUGAHARA      MAG=2.3B S=0.24
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 18.2 -0.2 0.1 2.1 19
SHK 25.8 0.1 0.1 46.3 194
UZI 26.4 32.4 6.0 0.1 -0.0 50.0 141
FUB 26.6 50.2 39
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 18 12 25 27.4 0.2 106.0 0.8 74.7 1.5 3.5 1.2
33) NEAR KUTSUGAHARA      MAG=1.2 S=0.30
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 27.7 E 28.5 0.8 -0.3* 0.4 102
SHK 35.3 41.6 6.3 -0.2 0.2 48.4 194
FUB 35.8 41.3 5.5 0.3* 0.1 48.4 40
UZI 42.3 E 42.3 -0.0 0.0 51.5 143
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 18 13 3 49.9 0.1 105.4 0.2 77.3 0.4 6.6 0.5
33) NEAR KUTSUGAHARA      MAG=1.2 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 51.1 E 51.8 0.7 -0.0 -0.2 2.3 283
FUB 57.8 0.0 -0.0 47.2 37
SHK 58.1 64.0 5.9 0.0 -0.1 48.5 197
UZI 58.3 64.3 6.0 0.1 -0.0 49.5 145
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 18 14 2 23.5 0.1 104.1 0.3 75.1 0.6 1.6 R
33) NEAR KUTSUGAHARA      MAG=2.2B S=0.15
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 23.7 -0.2 0.0 1.8 0
SHK 31.3 37.0 5.7 0.0 0.0 46.7 195
UZI 31.8 I 37.8 6.0 0.0 -0.1 49.8 142
FUB 32.0 37.8 5.8 0.2 -0.0 49.6 38
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 18 18 18 59 49.1 0.0 105.8 0.1 76.4 0.1 7.4 0.1
33) NEAR KUTSUGAHARA      MAG=2.7B S=0.01
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 50.4 -0.0 0.0 1.3 274
FUB 57.1 -0.0 -0.0 47.5 38
SHK I 57.3 -0.0 -0.0 48.7 196
UZI 57.6 63.8 6.2 0.0 -0.0 50.4 144
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 18 19 49 6.4 0.0 104.3 0.1 75.5 0.2 4.9 0.2
33) NEAR KUTSUGAHARA      MAG=1.2 S=0.03
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 7.2 E 7.8 0.6 -0.1 -0.2 1.7 346
SHK 14.3 I 20.0 5.7 0.0 -0.0 47.0 196
FUB 14.6 20.7 6.1 -0.0 0.0 49.2 38
UZI E 14.7 20.8 6.1 -0.0 -0.0 49.7 142
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 19 4 42 21.2 0.1 104.9 0.5 74.0 1.0 2.5 0.9
33) NEAR KUTSUGAHARA      MAG=1.0 S=0.20
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.5 E 22.2 0.7 -0.2 0.1 1.5 47
SHK 28.9 I 34.9 6.0 -0.2 0.1 47.2 194
UZI 29.7 35.9 6.2 -0.0 -0.1 51.1 142
FUB 29.7 35.4 5.7 0.2 -0.2 49.7 40
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 19 5 33 37.0 0.2 104.8 0.6 75.1 1.1 4.6 2.0
33) NEAR KUTSUGAHARA      MAG=1.8R S=0.23
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 37.8 -0.0 0.0 1.1 0
SHK 44.9 50.7 5.8 -0.0 -0.0 47.3 195
FUB 45.5 51.0 5.5 0.3 -0.2 49.1 39
UZI 45.6 51.6 6.0 0.2 0.0 50.3 142
*****

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 19 20 53 1.7 0.1 105.4 0.8 78.0 1.2 4.5 R
33) NEAR KUTSUGAHARA      MAG=0.8      S=0.37
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      2.9      3.6      0.7      0.3      0.3      2.9      279
FUB      9.5      15.0      5.5      -0.0      -0.3      46.8      37
SHK      9.7      15.4      5.7      -0.2      -0.4*      48.8      198
UZT      16.3
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 19 21 6 34.4 0.0 105.2 0.1 76.4 0.3 6.1 0.5
33) NEAR KUTSUGAHARA      MAG=1.0      S=0.05
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      35.5      48.4      6.0      -0.1      0.0      11.5      298
FUB      42.4      48.4      5.9      0.0      -0.0      47.9      38
SHK      42.5      48.9      0.0      -0.0      -0.0      48.1      196
UZT      48.9
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 19 22 6 7.7 0.1 106.4 0.5 76.2 0.7 7.8 1.3
33) NEAR KUTSUGAHARA      MAG=2.7R      S=0.14
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      1 8.9      22.1      6.2      -0.1      0.0      1.2      245
FUB      15.7      22.6      6.5      -0.2      0.0      47.1      39
SHK      1 15.9      22.1      6.2      -0.1      0.0      49.2      196
UZT      16.1
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 19 22 10 36.0 0.1 106.3 0.4 76.6 0.7 1.1 R
33) NEAR KUTSUGAHARA      MAG=1.1      S=0.13
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      37.0      49.6      5.9      -0.1      0.0      1.5      255
FUB      43.7      50.1      5.8      0.1      -0.0      46.9      39
SHK      44.3      50.6      0.0      -0.0      -0.0      49.2      196
UZT

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 19 22 12 56.6 0.1 106.4 0.4 76.1 0.8 8.2 1.5
33) NEAR KUTSUGAHARA      MAG=2.1      S=0.16
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      57.9      70.2      5.5      0.1      -0.2      1.1      243
FUB      64.7      70.8      5.9      -0.0      -0.2      47.2      39
SHK      64.9      71.5      6.4      -0.1      -0.0      49.2      196
UZT      65.1
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 20 0 58 39.9 0.2 106.6 0.7 72.5 1.1 6.7 1.8
33) NEAR KUTSUGAHARA      MAG=2.7R      S=0.20
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      41.1      53.9      5.6      -0.1      -0.1      2.7      104
FUB      48.2      55.5      6.7      -0.1      0.1      49.4      43
SHK      48.3      53.9      5.6      -0.1      -0.1      48.5      191
UZT      48.8
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 20 1 6 36.8 0.0 106.7 0.2 73.2 0.3 5.5 0.5
33) NEAR KUTSUGAHARA      MAG=1.0      S=0.06
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      37.7      50.9      6.0      -0.1      -0.1      2.1      112
FUB      44.9      50.9      5.9      0.0      -0.1      48.7      192
SHK      45.0      52.1      6.4      0.0      -0.1      48.9      42
UZT      45.7
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 20 3 51 37.4 0.2 105.4 0.5 78.1 1.0 5.0 2.4
33) NEAR KUTSUGAHARA      MAG=1.0      S=0.21
STATION TP      TS      P-S      TP(O-C)      TS(O-C)      DIST      AZM
KUT      38.4      50.9      5.6      0.0      -0.1      3.0      239
FUB      45.3      51.4      5.6      0.2      -0.2      46.7      37
SHK      45.8      51.7      0.1      0.0      -0.2      48.8      198
UZT

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 21 2 13 58.4 0.0 104.4 0.2 77.4 0.3 1.0 R
33) NEAR KUTSUGAHARA
MAG=1.6 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 58.8 72.3 6.0 -0.1 0.1 2.7 303
FUB 66.3 72.1 5.7 0.1 -0.1 47.9 36
SHK 66.4 72.4 6.0 -0.1 -0.0 47.6 198
UZI 66.4 72.4 6.0 -0.1 -0.0 48.6 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 21 12 39 50.5 0.1 104.0 0.5 76.7 0.9 0.5 R
33) NEAR KUTSUGAHARA
MAG=4.3 S=0.28

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 51.0 64.7 6.0 0.1 0.1 2.5 320
FUB 58.2 64.7 6.0 0.1 0.1 48.7 37
SHK 58.6 64.7 6.0 0.1 0.1 47.0 197
UZI 58.6 64.7 6.0 0.1 0.1 48.7 143
MTS 61.3 71.2 8.5 0.1 -0.2 61.7 20
YON 62.7 71.2 8.5 0.1 -0.2 72.3 40
HIR 62.8 71.4 8.6 0.1 -0.3 73.3 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 21 12 52 5.1 1.1 105.3 0.6 75.7 1.1 2.0 R
33) NEAR KUTSUGAHARA
MAG=1.8 S=0.22

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 5.8 6.1 0.3 0.3 0.3 0.8 315
SHK 13.1 18.9 5.8 0.0 -0.1 48.0 195
FUB 13.3 18.9 5.6 0.1 -0.2 48.3 39
UZI 13.5 19.7 6.2 0.0 0.0 50.4 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 20 7 42 59.9 0.0 106.5 0.1 76.0 0.2 4.0 0.3
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.04

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 60.5 73.5 5.7 0.0 -0.1 1.1 236
FUB 67.8 74.1 6.0 -0.0 -0.1 47.2 39
SHK 68.1 74.1 6.0 -0.0 -0.1 49.2 195
UZI 68.4 74.7 6.3 -0.1 -0.0 51.2 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 20 14 1 26.0 0.1 103.1 0.2 76.3 0.4 5.1 0.7
33) NEAR KUTSUGAHARA
MAG=2.7 S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 27.0 33.7 40.0 6.0 -0.1 -0.0 3.1 336
SHK 33.7 34.0 40.0 6.0 -0.1 -0.0 46.1 197
UZI 34.0 34.3 40.0 6.0 -0.1 -0.0 48.2 142
FUB 34.3 34.3 40.0 6.0 -0.1 -0.0 49.6 37

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 20 15 50 55.6 0.3 106.7 1.0 75.3 1.8 5.9 2.5
33) NEAR KUTSUGAHARA
MAG=2.5 S=0.28

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 56.5 63.6 70.7 6.7 -0.3 0.1 0.8 193
FUB 63.6 63.6 70.7 6.7 -0.3 0.1 47.5 40
SHK 63.6 63.6 70.7 6.7 -0.3 0.1 49.2 195
UZI 64.0 64.0 70.7 6.7 -0.3 0.1 51.7 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAR 20 21 31 37.8 0.2 104.2 0.6 76.8 1.2 7.2 2.2
33) NEAR KUTSUGAHARA
MAG=1.8 S=0.21

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.1 44.0 51.8 5.8 0.0 -0.2 2.4 315
FUB 44.0 44.0 51.8 5.8 0.0 -0.2 48.5 37
SHK 45.6 46.2 51.9 5.7 0.2 -0.2 47.3 197
UZI 46.2 46.2 51.9 5.7 0.2 -0.2 48.8 144

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 21 14 53 50.3 0.2 108.2 1.0 71.6 1.7 2.0 R
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 51.1 64.6 5.9 0.1 -0.1 49.9 190
SHK 58.7 64.4 64.4
FUB -0.0 48.9 45
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 21 16 40 4.5 0.1 106.0 0.2 75.5 0.4 7.7 0.7
33) NEAR KUTSUGAHARA
MAG=1.2 S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 5.7 18.4 5.8 0.0 -0.1 0.4 256
FUB 12.6 18.4 5.9 -0.0 -0.1 47.9 39
SHK 12.7 18.6 6.4 -0.1 -0.0 48.6 195
UZT 13.0 19.4 6.4 -0.1 -0.0 51.0 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 21 18 19 33.8 0.1 107.2 0.5 75.4 0.8 3.7 R
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.17
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 34.2 47.4 5.8 0.1 -0.3* 41.3 192
FUB 41.6 48.1 5.9 0.1 -0.1 49.7 40
SHK 42.2 48.1 6.0 0.2 -0.2 52.1 195
UZT E 42.7 48.7 6.0 0.2 -0.2 52.1 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 21 22 2 13.7 0.0 104.7 0.3 76.6 0.4 1.3 R
33) NEAR KUTSUGAHARA
MAG=2.48 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 14.0 21.8 5.9 -0.1 -0.1 1.9 308
FUB 21.8 27.5 6.1 -0.1 -0.1 48.2 37
SHK 21.6 27.9 6.1 -0.1 -0.1 47.7 197
UZT 21.8 27.9 6.1 -0.1 -0.1 49.3 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 21 23 6 49.3 0.1 106.1 0.3 73.8 0.6 1.4 R
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 49.7 63.2 5.8 0.0 -0.0 1.3 98
SHK 57.4 63.2 5.7 0.1 -0.1 48.3 193
FUB 57.6 63.3 5.7 0.1 -0.1 48.9 41
UZT 57.6 64.4 64.4
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 21 23 12 27.3 0.1 107.0 0.3 77.2 0.4 3.9 0.5
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 28.0 E 28.7 0.7 -0.1 -0.0 2.4 242
SHK 35.7 41.7 6.0 0.0 -0.1 50.0 197
FUB 40.6 42.0 42.0 -0.0 50.9 39
UZT 42.0 42.0 -0.0 50.9 146
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 22 0 12 11.5 0.1 105.0 0.5 76.4 0.9 1.4 3.5
33) NEAR KUTSUGAHARA
MAG=1.4 S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 11.8 25.5 6.2 -0.1 -0.1 1.6 305
SHK 15.3 25.4 5.8 0.1 0.2 47.9 196
FUB 15.6 25.4 5.8 0.1 0.0 48.1 38
UZT 15.6 25.9 6.3 -0.2 0.0 49.7 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 22 1 34 53.8 0.1 105.9 0.3 76.2 0.5 3.5 0.9
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 54.3 67.6 6.0 -0.2 -0.2 1.1 270
FUB 61.6 67.6 6.0 -0.1 0.0 47.5 39
SHK I 61.9 67.9 6.0 -0.0 -0.0 48.7 196
UZT E 62.1 E 68.4 6.3 -0.1 -0.0 50.6 144

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DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 22 3 48 17.5 0.1 105.2 0.2 77.5 0.4 9.5 2.9
33) NEAR KUTSUGAHARA      MAG=1.2  S=0.08
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 25.5 31.4 5.9 -0.0 -0.0 47.2 37
FUB I 25.8 31.7 5.9 0.1 -0.1 48.4 198
SHK I 25.8 32.0 6.2 -0.1 0.0 49.2 145
UZI E 25.8 32.0 6.2 -0.1 0.0 49.2 145
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 22 5 33 57.1 0.2 112.5 0.5 66.6 1.0 10.1 2.3
32) NEAR AKAGI, SHIMANE      MAG=1.6  S=0.17
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 59.6 71.6 6.0 0.0 -0.2 49.8 52
FUB I 65.6 72.6 6.4 0.0 -0.2 53.5 184
SHK I 66.2 72.6 6.4 0.0 -0.2 53.5 184
UZI E 67.6 75.1 7.5 0.1 -0.0 61.6 140
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 22 5 35 54.4 0.4 106.0 1.7 74.3 2.8 0.0 R
33) NEAR KUTSUGAHARA      MAG=2.4R  S=0.47
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 54.1 62.6 -0.5* 0.0 0.8 96
FUB I 62.6 69.4 6.5 -0.2 0.0 48.7 41
SHK I 62.9 69.4 6.5 -0.2 0.0 48.3 194
UZI E 62.9 69.4 6.5 -0.2 0.0 51.8 143
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAR 22 8 4 16.4 0.1 109.3 0.3 69.1 0.5 0.3 R
33) NEAR KUTSUGAHARA      MAG=0.8  S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 17.6 E 18.4 0.8 0.0 3.0 6.9 119
SHK I 24.9 I 30.9 6.0 0.1 -0.1 50.6 187
FUB I 24.9 I 30.9 6.0 0.1 -0.1 49.9 48
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1970 MAR 22 11 46 20.9 0.1 106.5 0.3 74.9 0.5 1.1 R
33) NEAR KUTSUGAHARA      MAG=1.4  S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 21.0 34.6 5.7 0.0 -0.1 47.9 160
FUB I 28.9 34.6 5.7 0.0 -0.1 47.9 160
SHK I 29.1 34.9 5.8 0.0 -0.1 48.9 194
UZI I 29.6 35.8 6.2 0.1 -0.1 51.8 143
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1970 MAR 23 1 35 22.5 0.3 122.5 1.1 51.5 1.7 2.8 R
8) CENTRAL PART OF SHIMANE      MAG=1.6  S=0.28
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 26.9 31.0 4.1 -0.4* 0.1 28.9 125
FUB I 32.4 39.3 6.9 0.2 -0.1 58.3 69
SHK I 33.3 41.1 7.8 0.1 0.0 64.3 170
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1970 MAR 23 4 39 1.0 0.1 104.0 0.5 78.2 0.7 1.3 R
33) NEAR KUTSUGAHARA      MAG=1.5  S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 1.7 14.9 6.0 -0.1 0.1 47.8 35
FUB I 8.9 14.9 6.0 -0.1 0.1 47.8 35
SHK I 9.1 I 14.7 5.6 0.2 -0.0 47.5 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/- +/-
1970 MAR 23 15 13 5.5 0.0 105.4 0.1 77.5 0.2 1.8 0.8
33) NEAR KUTSUGAHARA      MAG=1.0  S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 6.0 19.1 5.7 0.0 -0.0 47.1 37
FUB I 13.4 19.1 5.7 0.0 -0.0 47.1 37
SHK I 13.6 19.8 6.0 -0.0 0.0 48.6 197
UZI I 13.6 19.8 6.0 -0.0 0.0 49.4 145

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 23 19 8.49.9 0.1 106.2 0.3 75.8 0.5 0.1 R
33) NEAR KUTSUGAHARA
MAG=1.7 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 50.0 63.7 6.1 -0.2 0.1 47.5 39
FUB 57.6 64.0 6.0 -0.0 0.0 48.9 195
SHK 58.0 64.5 6.0 0.1 -0.1 51.0 144
UZI E 58.5 64.5 6.0 0.1 -0.1 51.0 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 23 19 22 13.5 0.0 106.1 0.2 75.3 0.3 1.7 R
33) NEAR KUTSUGAHARA
MAG=1.8 S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 13.8 27.3 5.7 0.1 -0.0 47.9 40
FUB 21.6 27.6 6.0 -0.0 0.0 48.7 195
SHK 21.6 28.3 6.0 -0.0 0.0 51.2 143
UZI 21.6 28.3 6.0 -0.0 0.0 51.2 143
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 24 1 45 30.4 0.1 105.5 0.5 78.8 0.8 1.7 R
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 31.1 43.6 5.3 0.2 -0.2 46.2 36
FUB 38.3 44.4 5.6 0.2 0.0 49.1 199
SHK 38.8 44.5 5.6 0.2 0.0 48.8 146
UZI 38.8 44.5 5.6 0.2 0.0 48.8 146
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 24 8 38.6 0.1 106.7 0.3 75.5 0.5 2.2 R
33) NEAR KUTSUGAHARA
MAG=1.6 S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.8 52.3 5.7 0.1 0.0 47.3 40
FUB 46.6 52.9 6.0 0.1 0.0 49.3 195
SHK 46.9 53.5 6.0 0.1 0.0 51.6 144
UZI 46.9 53.5 6.0 0.1 0.0 51.6 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 24 14 46 57.6 0.6 47.5 8.0 153.115.3 74.4 20.9
91) KAGANA
MAG=1.8 S=0.39
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 78.2 93.0 14.8 0.1 -0.0 97.4 306
FUB 78.9 91.9 15.0 -0.4 0.2 91.3 277
SHK 79.5 94.9 15.4 0.3 -0.1 106.1 333
UZI 79.5 94.9 15.4 0.3 -0.1 106.1 333
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 24 18 28 1.4 0.1 105.4 0.6 77.3 0.9 0.7 R
33) NEAR KUTSUGAHARA
MAG=1.0 S=0.27
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1.7 15.3 6.4 -0.4 0.3 47.2 37
FUB 8.9 15.3 6.4 -0.4 0.3 47.2 37
SHK 9.5 15.5 6.0 0.0 0.1 48.5 197
UZI 9.5 15.6 6.0 0.0 0.1 49.5 145
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 25 0 43 55.1 0.0 106.5 0.2 76.0 0.3 3.9 0.6
33) NEAR KUTSUGAHARA
MAG=1.7B S=0.07
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1 55.7 68.8 5.9 -0.1 1.1 236
FUB 62.9 69.4 6.1 -0.1 0.0 47.2 39
SHK 63.3 69.4 6.1 -0.1 0.0 49.2 195
UZI E 63.6 69.9 6.3 -0.1 -0.0 51.2 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S      +/-
1970 MAR 25 13 20 27.4 0.0 106.0 0.1 78.4 0.2 0.7 R
33) NEAR KUTSUGAHARA
MAG=1.6R S=0.05
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 27.9 40.6 5.5 0.0 -0.1 3.3 268
FUB 35.1 41.6 6.0 -0.0 -0.1 46.1 37
SHK 35.6 41.6 6.0 -0.0 -0.1 48.5 198
UZI 35.6 41.6 6.0 -0.0 -0.1 49.4 146
*****

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 25 21 8 48.3 0.1 108.5 0.4 70.6 0.6 2.3 R
33) NEAR KUTSUGAHARA MAG=0.8 S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 49.2 E 49.9 0.7 -0.1 -0.1 5.2 119
FUB 56.6 62.4 5.8 0.1 -0.2 45.4 46
SHK 56.7 62.6 5.9 0.1 -0.2 50.0 189

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 27 0 44 9.2 0.0 104.0 0.1 75.3 0.2 7.4 0.2
33) NEAR KUTSUGAHARA MAG=0.9 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 10.4 E 11.4 1.0 -0.1 -0.1 1.9 384
SHK 17.1 I 22.9 5.8 0.0 0.1 46.6 195
FUB 17.6 23.7 6.1 0.0 0.0 45.5 38
UZT 23.7 49.4 0.0 45.6 142

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 27 16 16 35.5 0.2 104.5 0.7 78.5 1.3 2.2 R
33) NEAR KUTSUGAHARA MAG=1.3 S=0.27

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB I 43.6 48.9 5.3 0.2 -0.2 47.2 35
SHK 43.6 49.2 5.6 0.1 -0.2 48.1 199
UZT 49.4 0.0 48.1 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 27 16 37 13.0 0.0 116.7 0.0 129.8 0.1 17.8 0.1
85) NEAR ASHIOGACHI, OKAYAMA MAG=1.2 S=0.01

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 19.5 24.3 4.8 -0.1 -0.1 35.1 317
SHK E 28.0 39.0 11.0 -0.1 -0.1 88.5 229
UZT 30.3 57.5 0.1 57.5 205

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 28 2 24 1.3 0.4 109.7 0.6 75.3 1.2 5.5 1.4 S
33) NEAR KUTSUGAHARA MAG=1.4 S=0.22

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 8.8 I 14.5 5.7 -0.1 0.0 45.2 43
SHK 9.9 16.5 6.6 -0.1 0.1 52.1 194
UZT E 10.6 16.9 6.3 0.2 -0.1 54.2 146

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 28 3 25 23.4 0.3 60.8 1.2 94.4 0.8 14.1 1.8
42) EASTERN PART OF HIROSHIMA MAG=1.6 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZT 26.4 28.6 2.2 -0.1 -0.1 11.7 70
SHK 29.0 33.5 4.5 -0.2 -0.0 31.9 267
FUB 37.5 47.5 10.0 0.1 -0.1 82.8 8

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 29 11 17 9.1 0.0 114.7 0.2 82.1 0.3 2.9 R
31) CENTRAL PART OF TAKANO, HIROSHIMA MAG=1.0 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 15.3 19.8 4.5 0.0 -0.0 31.0 60
UZT 25.1 25.1 0.0 0.0 55.2 158
SHK 19.0 I 26.1 7.1 0.1 -0.0 58.9 199

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 MAR 30 1 41 48.5 0.0 104.9 0.3 77.3 0.5 0.3 R
33) NEAR KUTSUGAHARA MAG=1.2 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 48.9 62.2 5.7 0.1 -0.0 47.6 37
FUB E 56.6 62.3 5.7 0.1 -0.1 48.1 197
SHK 56.6 62.3 5.7 0.1 -0.1 48.1 197

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1970 MAR 30 14 9 8.3 0.1 122.5 0.3  73.2 0.5  0.5  R

30) NEAR TONBARA, SHIMANE
MAG=1.9B S=0.09
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      11.2    13.1    1.9 0.1  -0.0  16.7 173
FUB      14.7    19.5    4.8 -0.1  -0.0  38.7  58
SHK      19.0    26.8    7.8 -0.0  -0.0  64.2 189
UZT      19.5    27.4    7.9 0.2  -0.0  66.2 150

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1970 MAR 30 14 10 45.4 0.2 115.2 0.5  84.7 0.8  7.9 2.0

31) CENTRAL PART OF TAKANO, HIROSHIMA
MAG=1.4 S=0.17
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      48.2    49.8    1.6 0.2  -0.1  13.4 225
FUB      51.4    55.7    4.3 0.0  -0.1  34.9  38
UZT      61.4    61.4    0.1 0.1  54.6 157
SHK      55.6    62.8    7.2 0.1  -0.2  60.3 201

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1970 MAR 30 15 11 8.0 0.1 121.6 0.3  74.0 0.4  0.6  R

30) NEAR TONBARA, SHIMANE
MAG=1.7 S=0.08
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      10.7    12.5    1.8 0.1  -0.0  15.7 175
FUB      18.4    19.2    4.8 -0.0  0.1  38.5  56
SHK      26.4    26.8    7.8 0.0  0.1  63.5 190
UZT      19.0    26.8    7.8 0.2  0.0  65.0 151

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1970 MAR 30 20 14 27.6 0.1 104.9 0.3  79.2 0.4  0.2  R

33) NEAR KUTSUGAHARA
MAG=1.4B S=0.16
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      28.2    28.9    0.7 -0.1  0.1  4.2 283
FUB      35.3    41.2    5.9 -0.0  0.2  46.5  35
UZT      35.5    41.5    2.0 -0.1  0.0  48.0 146
SHK      36.0    41.7    5.7 0.3  0.0  48.7 200

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1970 MAR 30 22 58 43.0 0.1 104.9 0.3  76.3 0.5  7.0 0.6

33) NEAR KUTSUGAHARA
MAG=1.3+ S=0.11
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      44.2    45.0    0.8 0.1  -0.2  1.6 310
FUB      51.0    57.2    6.2 -0.1  0.1  48.2  38
SHK      51.1    57.0    5.9 0.0  0.0  47.8 196
UZT      51.5    57.5    0.0 0.0  0.0  49.7 144

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1970 MAR 31 8 21 45.0 0.2 108.6 0.8  71.9 1.2  0.9  R

33) NEAR KUTSUGAHARA
MAG=1.0 S=0.23
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      45.7    46.3    0.6 -0.0  0.0  1.3 129
SHK      53.6    59.3    5.7 0.2  -0.2  58.3 190
FUB      58.9    58.9    0.0 0.1  -0.1  48.5  45

*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S    +/-              +/-              +/-
1970 MAR 31 8 44 59.1 0.4 107.6 0.9  77.9 1.6 14.8 3.7

33) NEAR KUTSUGAHARA
MAG=1.4 S=0.33
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
KUT      61.7    72.5    5.3 0.2  -0.3*  45.1  38
FUB      67.2    74.1    6.1 0.1  -0.3*  50.8 197
SHK      68.0    74.5    0.0 0.0  0.0  51.0 147
UZT      74.5    74.5    0.0 0.0  0.0  51.0 147

*****

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 2 14 1 17.5 0.3 94.2 0.7 91.4 1.4 14.4 3.6

40) MIYOSHI AND SHOBARA MAG=1.3 S=0.23

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	22.0	1	24.7	2.7	0.4*	0.0	20.1
UZI	23.6			0.1			32.7
SHK	25.4	31.2	5.8	-0.1	-0.1		45.4
FUB	26.4	32.6	6.2	0.1	-0.1		50.7

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 3 7 58 9.8 0.4 34.4 1.8 154.3 2.6 39.3 4.7

91) KAGAWA MAG=1.9 S=0.29

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	21.6	29.9	8.3	0.2	-0.0		57.5
SHK	26.8	39.4	12.6	-0.2	-0.1		95.1
FUB	30.7	45.6	14.9	0.1	-0.3		118.5
UZI		43.0			0.3*		106.7

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 6 6 57.7 0.2 106.6 0.7 74.3 1.4 1.4 R

33) NEAR KUTSUGAHARA MAG=1.0 S=0.26

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	57.6			-0.4*			1.1
FUB	65.8	71.7	5.9	0.1	0.1		48.2
SHK	65.9	71.9	6.0	0.0	0.1		48.9
UZI		72.8			0.0		52.2

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 10 24 57.8 0.3 106.2 1.2 72.6 2.2 1.0 R

33) NEAR KUTSUGAHARA MAG=1.1 S=0.44

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	57.6			-0.7X			2.5
SHK	65.9	71.7	5.8	0.1	0.0		48.1
FUB	66.1	72.4	6.3	0.0	0.3		49.6
UZI		73.3			0.2		53.0

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 1 13 45 17.4 0.1 104.2 0.3 78.1 0.5 6.7 1.1

33) NEAR KUTSUGAHARA MAG=0.9 S=0.10

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	18.6			-0.1			3.4
SHK	25.4	31.2	5.8	-0.0	-0.1		47.7
FUB	25.5	31.2	5.7	0.1	-0.1		47.7
UZI		31.4			-0.0		48.1

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 1 20 39 53.2 0.1 108.2 0.4 69.0 0.6 1.6 R

33) NEAR KUTSUGAHARA MAG=1.1 S=0.15

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	54.4	55.0	0.6	0.1	-0.2		6.5
SHK	61.5	67.4	5.9	0.0	-0.1		49.5
FUB	61.8	67.8	6.0	0.1	-0.1		50.8
UZI		69.8			0.2		56.8

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 2 0 35 8.2 0.1 103.4 0.3 76.4 0.6 1.0 5.8

33) NEAR KUTSUGAHARA MAG=1.5R S=0.13

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	8.7			-0.0			2.8
SHK	15.8	21.7	5.9	-0.1	0.1		46.4
UZI	16.4	22.1	5.7	0.1	-0.1		48.4
FUB	16.4	22.5	6.1	-0.0	0.1		49.3

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 2 8 28 43.2 0.2 106.5 0.6 73.2 1.1 0.4 R

33) NEAR KUTSUGAHARA MAG=1.5R S=0.22

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	43.7			0.1			2.0
SHK	51.4	57.2	5.8	0.0	-0.1		49.0
FUB	51.5	57.0	5.5	0.2	-0.2		48.5
UZI		58.4			-0.0		52.8

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 20 37 59.7 0.2 -17.0 1.5 55.4 1.3 48.5 2.5

95) EHTHE

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 74.7 85.9 11.2 -0.1 0.0 74.5 5
FUB 77.6 90.7 13.1 -0.0 -0.0 95.8 31
SHK 82.1 98.2 16.1 0.1 -0.1 124.5 9
UZI 108.8 -1.3 167.6 17

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 23 44 28.7 0.2 106.4 0.6 75.0 0.9 12.2 1.7

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.7 -0.1 0.5 167
FUB 36.8 -0.1 47.9 40
SHK 37.1 43.1 6.0 -0.0 -0.2 48.9 194
UZI 37.7 43.9 6.2 0.1 -0.1 51.7 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 23 50 39.8 0.1 106.1 0.2 75.9 0.3 9.4 0.5

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 41.3 -0.1 0.8 256
FUB 47.8 53.8 6.0 -0.1 0.0 47.5 39
SHK 48.1 54.1 6.0 0.0 -0.1 48.8 195
UZI 54.7 -0.1 50.9 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 5 7 27 58.7 0.0 106.6 0.1 74.7 0.3 6.3 0.4

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 59.7 72.6 5.8 0.0 -0.1 47.9 41
FUB 66.8 72.9 6.0 -0.0 -0.1 49.0 194
SHK 66.9 73.8 -0.0 52.0 143
UZI

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 16 33 54.1 0.1 106.7 0.5 74.0 0.8 5.2 1.3

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 55.1 68.2 5.7 0.2 -0.1 48.3 41
FUB 62.5 69.4 6.5 0.0 0.1 52.5 143
SHK 62.9 69.4 6.5 0.0 0.1 52.5 143
UZI

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 16 52 8.6 0.0 107.3 0.2 74.3 0.3 5.7 0.5

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 9.6 22.4 5.8 -0.0 -0.1 1.6 149
FUB 16.6 22.9 6.0 -0.0 -0.1 47.7 42
SHK 16.9 23.9 6.0 -0.0 -0.1 49.6 193
UZI 23.9 52.8 143

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 17 5 2.6 0.2 109.8 1.1 69.1 1.9 4.1 R

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 4.0 17.3 6.1 0.1 -0.1 7.2 122
SHK 11.2 51.1 187
FUB 16.9 -0.1 49.6 48

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 4 20 28 57.1 0.2 106.9 0.9 76.7 1.4 0.8 10.6

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 57.4 -0.1 1.9 238
FUB 64.9 0.1 46.4 39
SHK 65.1 71.7 6.6 -0.3# 0.2 49.8 196
UZI 65.6 71.8 6.2 -0.0 -0.1 51.1 145

```

DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 5 12 20 38.0 0.0 105.1 0.2 76.0 0.2 0.2 R

33) NEAR KUTSUGAHARA      MAG=2.2  S=0.06
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 38.2 1.2 31.2 -0.0 0.1 1.2 312
SHK 46.0 51.9 0.0 0.1 47.9 196
UZI E 46.4 52.4 6.0 0.1 -0.0 50.0 143
FUB 46.1 0.1 48.3 38
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 5 12 24 20.4 0.2 105.9 1.0 76.0 1.3 1.0 R

33) NEAR KUTSUGAHARA      MAG=1.7  S=0.33
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 20.3 0.9 270 -0.4* 0.0 0.9 270
FUB 28.6 47.6 39 0.3 47.6 39
SHK I 28.6 34.7 6.1 0.1 0.3 48.6 196
UZI E 28.8 34.8 6.0 -0.0 -0.2 50.7 144
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 5 13 2 34.9 0.1 105.9 0.6 75.1 1.1 1.7 R

33) NEAR KUTSUGAHARA      MAG=1.4  S=0.24
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 34.9 48.8 5.7 0.2 -0.3* 0.0 40
FUB 43.1 48.9 5.8 0.1 0.0 48.2 40
SHK 43.1 48.9 5.8 0.1 0.0 48.4 195
UZI E 43.6 49.5 5.9 0.2 -0.2 51.2 143
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 5 13 5 41.2 0.0 105.3 0.2 76.0 0.3 0.2 R

33) NEAR KUTSUGAHARA      MAG=1.1  S=0.09
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 41.3 55.1 5.9 -0.0 0.0 1.1 304
SHK 49.2 55.6 5.7 0.1 -0.1 48.1 196
UZI 55.6 55.0 5.7 0.1 -0.1 50.2 144
FUB 49.3 55.0 5.7 0.1 -0.1 48.1 38
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 5 14 59 42.6 0.4 108.3 2.3 70.1 4.4 4.1 R

33) NEAR KUTSUGAHARA      MAG=1.0  S=0.19
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 43.1 -0.7X 5.5 115
FUB 50.8 57.1 6.3 -0.1 0.0 49.9 46
SHK 51.0 56.9 5.9 0.1 -0.1 49.7 188
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 5 23 16 0.7 0.0 106.8 0.1 74.6 0.2 4.6 0.3

33) NEAR KUTSUGAHARA      MAG=1.5B S=0.03
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1.4 -0.1 1.0 150
FUB 8.7 14.5 5.8 -0.0 -0.1 47.9 41
SHK I 8.9 14.9 6.0 -0.0 -0.1 49.2 194
UZI 15.8 -0.0 52.2 143
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 6 4 21 44.5 0.2 104.5 0.7 75.0 1.2 8.5 2.2

33) NEAR KUTSUGAHARA      MAG=0.9  S=0.24
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 45.9 -0.1 1.4 4
SHK 52.5 58.1 5.6 0.0 -0.2 47.0 195
UZI 59.2 59.2 0.0 50.1 142
FUB 53.0 58.7 5.7 0.1 -0.3 49.3 39
*****
DATE      ORIGIN TIME      Y(KM)      DEPTH(KM)
H M S    H M S    +/-    +/-
1970 APR 8 6 54 48.5 0.3 44.0 1.1 33.6 1.3 25.8 1.8

55) NEAR HIROSHIMA      MAG=2.0B S=0.16
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 55.6 60.4 4.8 0.1 -0.2 32.7 62
UZI 61.6 71.4 9.8 -0.1 0.1 74.7 73
KUT E 61.6 71.3 9.7 -0.1 0.0 74.5 33
FUB 83.9 -0.8) 122.5 36

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```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 9 18 14 40.2 0.3 104.3 1.0 78.1 0.6 1.4 5.0
33) NEAR KUTSUGAHARA      MAG=1.8R      S=0.13
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT I 40.8      53.9 5.7 0.0 -0.1 47.8 199 288
SHK I 48.2      54.1 6.0 -0.1 -0.0 48.2 145
UZT I 48.1
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 10 9 35 40.0 0.0 102.8 0.1 80.6 0.1 6.5 0.3
33) NEAR KUTSUGAHARA      MAG=1.1      S=0.03
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT I 41.4      42.5 1.1 -0.2 -0.2 41.4 299
SHK I 47.9      53.7 5.8 -0.1 -0.1 47.2 202
UZT I 47.9      53.2 5.3 -0.1 -0.1 45.5 146
FUB I 47.9      53.8 5.9 -0.1 -0.0 47.4 32
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 11 11 28 59.8 0.2 102.3 0.8 79.7 1.4 7.8 2.3
33) NEAR KUTSUGAHARA      MAG=1.5      S=0.31
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT I 61.6      62.6 1.0 0.1 -0.1 5.8 308
SHK E 67.7      73.1 5.4 0.0 -0.3* 46.4 201
UZT I 68.2      73.2 5.4 0.2 -0.3* 48.6 145
FUB I 68.2      73.6 5.4 0.2 -0.3* 48.3 33
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 11 22 55 37.8 0.2 8.5 1.1 7.8 1.1 38.5 2.4
70) HIROSHIMA-YAMAGUCHI BORDER      MAG=2.8      S=0.10
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
SHK I 51.9      62.0 10.1 0.1 -0.1 74.6 67
UZT I 57.6      72.2 14.6 -0.0 0.0 112.6 60
KUT I 58.5      73.8 15.3 -0.1 0.0 116.4 34
FUB I 65.9      86.1 20.2 -0.4 -1.0 166.4 36

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 12 8 50 10.5 0.2 105.1 0.5 75.9 1.0 5.3 1.7
33) NEAR KUTSUGAHARA      MAG=1.3      S=0.19
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT I 11.5      24.3 5.7 0.0 -0.1 1.1 315
SHK I 18.6      25.1 5.7 0.1 -0.1 47.9 196
UZT I 18.6      25.1 5.7 0.1 -0.1 50.1 143
FUB I 18.8      24.4 5.6 0.2 -0.1 48.3 38
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 12 23 34 37.0 0.1 129.6 0.8 110.8 1.6 1.6 R
22) NITA,YOKOTA AND NICHINAN      MAG=3.3B      S=0.32
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
FUB I 39.2      46.4 4.2 -0.2 0.1 13.9 340
YON E 42.2      47.1 4.1 0.3 0.1 32.2 22
MTS E 43.0      47.1 4.1 0.3 0.1 34.5 338
KUT I 44.3      48.3 4.2 0.2 0.2 42.8 236
UZT I 48.3      50.8 4.4 0.4* 0.4* 65.2 184
SHK I 50.8      50.8 4.4 0.4* 0.4* 85.4 214
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 13 2 26 14.1 0.2 132.7 0.6 108.4 1.6 1.0 R
22) NITA,YOKOTA AND NICHINAN      MAG=1.1M      S=0.32
STATION TP      TS      P-S TP(O-C) TS(O-C) DIST AZM
KUT I 15.9      16.9 5.0 0.1 -0.2 10.2 347
YON E 21.3      26.7 5.4 0.1 0.3 42.7 231
KUT E 21.3      26.7 5.4 0.1 0.3 42.7 231
UZT E 23.4      33.9 8.5 -0.1 -0.1 68.1 182
SHK I 38.6      38.6 8.5 -0.1 -0.1 86.7 211

```


DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 13 21 24 15.9 0.1 138.2 0.6 1.0 0.7 31.8 3.6

1) OFF COAST OF SHIMANE MAG=1.7 S=0.05

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 30.4 46.2 12.8 -0.0 -0.1 100.2 142
SHK E 33.4 34.2 53.9 -0.0 -0.0 105.3 87
FUB 34.2 53.9 -0.0 -0.0 127.7 125
UZI

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 14 22 19 4.0 0.1 104.5 0.3 77.2 0.5 0.5 3.3

33) NEAR KUTSUGAHARA MAG=1.9R S=0.11

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 4.4 -0.0 -0.0 2.5 303
SHK 11.9 E 17.7 5.8 -0.0 -0.1 47.7 197
UZI 12.1 18.1 6.0 -0.0 0.0 48.8 144
FUB 12.1 17.7 5.6 0.1 -0.2 48.0 37

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 15 11 44 6.4 0.6 133.4 1.9 100.9 2.0 11.6 6.1

22) MITA,YOKOTA AND NICHINAN MAG=1.4 S=0.39

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 8.9 -0.2 10.7 29
KUT 13.4 17.9 4.5 0.4* 0.1 37.7 223
UZI 18.1 26.7 8.6 0.0 0.1 68.9 176
SHK E 20.3 30.3 10.0 -0.2 -0.5* 83.6 207

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 15 13 17 24.1 0.2 103.9 0.5 77.3 0.8 9.2 1.8

33) NEAR KUTSUGAHARA MAG=1.2 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 25.7 38.0 6.0 -0.1 -0.0 3.0 312
SHK I 32.0 38.2 5.7 0.2 -0.1 47.1 198
FUB 32.5 38.3 -0.1 -0.0 48.4 36
UZI

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 13 6 59 30.1 0.1 112.4 0.4 85.2 0.6 9.9 1.4

31) CENTRAL PART OF TAKANO-HIROSHIMA MAG=1.5 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 32.9 34.5 1.6 0.2 -0.2 12.0 237
FUB 36.5 41.1 4.6 0.0 -0.0 31.9 34
UZI 45.4 51.8 5.9 0.0 0.0 51.9 157
SHK 39.9 47.0 7.1 0.0 -0.1 57.9 203

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 13 10 9 41.8 0.2 131.2 1.0 104.7 2.2 0.1 R

22) MITA,YOKOTA AND NICHINAN MAG=1.1 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 43.5 45.2 1.7 -0.2 -0.0 11.6 7
FUB 48.3 53.0 4.7 0.0 -0.0 38.9 229
SHK E 55.9 65.7 9.8 0.2 -0.2 83.5 210

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 13 16 4 37.6 0.1 106.0 0.3 76.5 0.6 3.0 1.3

33) NEAR KUTSUGAHARA MAG=1.7R S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.1 43.5 51.2 5.7 0.0 -0.1 47.2 39
FUB 45.7 51.7 6.0 -0.1 -0.0 48.9 196
UZI 46.2 52.1 5.9 0.2 -0.1 50.5 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 APR 13 18 38 21.0 0.2 110.1 0.6 63.6 0.9 2.0 R

32) NEAR AKAGI, SHIMANE MAG=1.5 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 23.1 24.5 1.4 0.0 -0.1 12.2 110
SHK E 29.4 35.6 6.2 -0.1 -0.1 51.0 181
FUB 30.2 36.2 6.0 0.2 -0.3* 53.7 52
UZI E 31.4 38.9 7.5 0.1 0.1 61.8 137

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 15 13 32  6.7 0.3  33.7 1.0 173.5 1.7 33.4 4.2
100) OUT OF THE MAP      MAG=1.7  S=0.16
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      UZT E 20.4  31.2  9.8 0.0  -0.2  74.8 284
      SHK E 26.3  41.2  14.7 -0.2  0.0 113.9 292
      KUT E 43.1  43.1  0.0 0.0  -0.2 122.0 306
      FUB      44.9  0.0 0.0  -0.0 128.1 328
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 15 13 59  3.4 0.3  4.2 2.1 17.4 2.2 92.9 2.2
70) HIROSHIMA-YAMAGUCHI BORDER      MAG=2.2  S=0.17
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      SHK 22.8  37.1 14.3 -0.1 -0.1 71.1 39
      UZT 27.1  44.1 17.0 0.1 -0.2 106.8 55
      KUT E 28.1  46.5 18.4 -0.2 -0.1 116.9 29
      FUB 35.2  57.9 22.7 0.3 -0.1 164.5 32
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 16 10 19  9.3 0.3 -24.8 4.2 43.3 1.7 22.3 13.5
95) EHIME      MAG=2.8B  S=0.16
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      SHK 24.0  35.0 11.0 -0.1 -0.0 86.1 12
      UZT 27.9  41.3 13.4 0.1 -0.1 108.9 34
      KUT E 32.0  59.0 21.0 -1.4 -2.4 178.9 20
      FUB      0.0 0.0 0.0 0.0 0.0 0.0 0.0
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 17 1 38 51.1 0.8 55.6 4.1 73.2 2.3 40.1 4.6
53) NEAR HACHIONMATSU,HIROSHIMA      MAG=3.4R  S=0.32
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      SHK 57.9  66.1  6.2 0.1 -0.1 33.5 74
      UZT 59.9  66.1  6.2 0.1 -0.1 33.5 74
      KUT I 62.0  62.0  0.0 0.0 0.0 50.3 2
      FUB 67.8  67.8  0.0 0.0 0.0 93.2 20
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 17 3 27 37.3 0.1 101.9 0.7 82.9 1.0 5.9 R
33) NEAR KUTSUGAHARA      MAG=0.8  S=0.25
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      KUT 39.3  40.1  0.8 0.2 -0.3* 29.8 291
      SHK 45.2  51.0  5.8 -0.1 -0.1 47.4 205
      FUB      50.9  0.0 0.0 -0.1 47.0 29
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 17 13 19  6.5 0.2 -0.6 1.4 29.4 1.4 49.8 2.2
70) HIROSHIMA-YAMAGUCHI BORDER      MAG=2.2  S=0.13
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      SHK 20.6  31.0 10.4 -0.0 0.0 68.3 28
      UZT 25.1  38.9 13.8 -0.1 0.0 100.2 43
      KUT E 27.7  42.9 15.2 0.2 -0.1 115.9 23
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 18 7 44 40.6 0.2 126.5 0.5 66.5 1.2 16.0 3.0
301 NEAR TONRARA, SHIMANE      MAG=3.0R  S=0.16
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      KUT I 45.3  45.3  0.0 0.1 22.3 157
      FUB 48.2  48.2  0.0 0.0 42.9 67
      MTS E 49.2  55.0  5.8 0.2 -0.1 47.5 42
      SHK 52.1  52.1  0.0 0.1 67.5 183
      UZT 53.1  62.3  9.2 0.0 0.1 73.1 147
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
  H M S      +/-      +/-      +/-
1970 APR 18 12 27 50.7 0.4 125.8 1.2 69.1 2.0 13.1 6.3
301 NEAR TONRARA, SHIMANE      MAG=2.2  S=0.29
STATION  TP      TS      P-S TP(O-C) TS(O-C)  DIST  AZM
      KUT I 54.9  54.9  0.0 0.1 20.8 163
      FUB 57.6  57.6  0.0 -0.3 40.8 65
      SHK 62.1  70.1  8.0 0.0 -0.3* 67.0 185
      UZT E 62.9  71.5  8.6 0.1 -0.1 71.1 149

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 18 15 32 37.8 0.3  7.1 2.0 137.1 0.7  0.9  R
95) ETIME
MAG=3.2R S=0.33
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
TKM E 47.6 E 54.7 7.1 -0.2 -0.4* 60.1 62
UTZ E 49.0 E 56.3 7.3 0.3 -0.5* 65.7 331
OKA E 51.3 60.9 9.6 0.3* 79.2 29
SHK E 52.9 63.9 11.0 -0.1 -0.2 90.9 304
KUT E 57.3 116.6 327
FUB 60.4 139.1 347
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 18 16 52 59.5 0.7  7.9 3.9 131.5 3.3  28.0  9.8
95) ETIME
MAG=2.3 S=0.37
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UTZ E 71.2 79.2 8.0 0.3 -0.1 62.5 335
SHK E 74.4 85.8 11.4 -0.2 0.2 85.9 306
KUT 93.2 113.1 330
FUB E 84.1 99.4 15.3 1.3) -0.5) 137.1 349
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 19 12 20 35.7 0.1 105.9 0.4  77.7 0.8  7.0  1.6
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.16
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.9 49.4 6.0 0.1 0.1 46.6 370
FUB 43.4 50.0 5.9 0.1 -0.0 49.1 197
SHK 44.1 50.2
UTZ
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 20 23 29.7 0.1 106.0 0.4  77.2 0.7  5.5  1.3
33) NEAR KUTSUGAHARA
MAG=0.9 S=0.14
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.6 43.4 6.0 -0.2 0.1 46.8 38
FUB 37.4 44.0 6.1 -0.0 0.0 49.1 197
SHK 37.9 44.2
UTZ
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 21 16 17 55.7 0.2 105.8 0.7  77.6 1.2 10.3 2.6
33) NEAR KUTSUGAHARA
MAG=0.9F S=0.25
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 57.5 69.3 5.4 0.2 -0.2 46.7 72
FUB E 63.9 70.0 5.9 0.0 -0.2 46.7 37
SHK 64.1 70.4
UTZ
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 21 19 54 10.9 0.6 129.7 2.7  -3.3 5.1 21.8 20.4
1) OFF COAST OF SHIMANE
MAG=2.1+ S=0.47
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 25.5 35.8 10.3 0.5* 81.9 106
SHK 37.1 39.2 12.1 -0.3 -0.3 91.5 136
FUB E 59.1 43.1 15.7 -0.2 -0.3 110.3 83
UTZ E 52.8 48.1 15.3 0.5) 0.1) 120.7 120

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 21 21 31 17.6 0.0 107.2 0.1 74.4 0.1 7.0 0.2
33) NEAR KUTSUGAHARA
MAG=2.8B S=0.02
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 18.7 0.1 0.1 0.1 1.5 151
FUB E 25.6 0.0 0.0 0.0 47.7 141
SHK 25.9 0.0 0.0 0.0 49.5 193
UZI 26.4 32.9 6.5 -0.1 -0.0 52.7 143
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 21 21 32 51.8 0.1 107.3 0.5 74.3 1.0 5.9 1.6
33) NEAR KUTSUGAHARA
MAG=1.7+ S=0.19
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 52.8 0.1 0.1 0.1 1.6 149
FUB E 59.9 65.5 5.6 0.1 -0.2 47.7 142
SHK 60.2 66.0 5.8 0.1 -0.2 49.6 193
UZI 60.8 67.1 6.3 0.1 -0.0 52.8 143
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 21 21 44 42.7 0.2 106.8 0.9 77.7 1.5 4.7 2.8
33) NEAR KUTSUGAHARA
MAG=2.7R S=0.25
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 43.6 0.0 0.0 0.0 2.7 251
FUB E 50.4 57.4 6.5 -0.2 0.1 45.9 38
UZI 50.9 57.4 6.5 -0.2 0.1 50.5 146
SHK 51.1 57.4 6.5 -0.2 0.1 50.0 197
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 21 22 43 51.9 0.4 79.2 0.8 84.0 1.2 7.6 6.3
50) CENTRAL PART OF HIROSHIMA
MAG=2.6R S=0.34
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 56.4 59.7 3.3 -0.0 0.0 25.9 124
SHK 56.7 60.3 3.3 -0.0 0.0 29.4 226
KUT I 57.0 60.3 3.3 0.2 -0.0 28.1 341
FUB E 63.4 71.0 7.6 0.2 -0.5* 67.3 19
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 22 11 19 21.4 0.1 63.9 0.2 23.8 0.3 22.9 0.6
65) WESTERN PART OF HIROSHIMA
MAG=1.7B S=0.03
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 39.0 34.5 5.5 0.0 0.0 39.0 96
SHK E 33.1 41.7 8.6 -0.0 0.0 66.3 50
UZI 45.9 45.9 8.6 -0.0 0.0 81.6 89
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 22 12 41 52.2 0.1 105.5 0.3 76.1 0.4 0.3 R
33) NEAR KUTSUGAHARA
MAG=1.3* S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 52.5 66.0 5.8 0.1 0.1 292
FUB E 60.2 66.2 6.1 -0.1 0.1 47.9 39
SHK 60.1 66.2 6.1 -0.1 0.1 48.3 196
UZI 60.1 66.2 6.1 -0.1 0.1 50.3 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 23 2 51 25.6 0.2 108.3 0.7 70.2 1.1 2.5 R
33) NEAR KUTSUGAHARA
MAG=1.5+ S=0.21
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 26.3 27.5 1.2 -0.3* 0.1 5.5 116
SHK E 33.9 40.0 6.1 -0.0 0.0 49.7 188
FUB 34.0 40.0 6.0 0.1 -0.0 49.8 46
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 23 13 22 38.5 0.2 -13.4 0.8 137.6 0.9 10.7 R
95) EIME
MAG=2.4+ S=0.09
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 52.7 63.0 10.3 0.0 -0.1 84.4 337
SHK 55.9 68.8 12.9 -0.1 -0.0 104.4 314
KUT 61.3 77.5 16.2 0.3 -0.0 134.7 332

```

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 APR 23 22 23 38.4 0.1 107.0 0.6 76.5 1.0 2.7 R
MAG=1.1 S=0.22
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.6 51.9 5.7 0.0 0.1 46.5 231
FUB 46.2 52.9 6.0 0.1 0.1 49.8 196
SHK 46.9 53.1 6.0 0.2 -0.1 51.3 145
UZI

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 APR 25 13 29 16.7 0.2 102.8 0.8 163.8 0.4 16.3 3.9
MAG=2.3 S=0.24
100) OUT OF THE MAP
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 29.0 37.2 8.2 0.4* -0.2 69.7 236
FUB 28.6 37.5 8.9 -0.1 0.0 70.0 304
KUT 32.0 42.5 10.5 0.3 -0.3 88.7 272
SHK 35.0 48.0 13.0 -0.3 -0.3X 110.3 246
M2 27.3 34.8 7.5 0.1 -0.0 60.6 83
FO 27.8 35.7 7.9 0.1 -0.0 63.8 44
OY 32.1 43.0 10.9 -0.3* -0.3X 92.8 60
I2 33.8 45.6 11.8 -0.1 -0.3X 101.9 87
HM 36.6 50.9 14.3 -0.4) -1.0) 120.6 73

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 APR 25 14 50 23.9 0.4 103.2 1.1 159.2 2.1 1.2 R
MAG=2.4* S=0.34
87) NEAR ASAHI, OKAYAMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 42.6 7.6 0.1 -0.4* 66.1 306
UZI 35.0 43.0 8.0 0.1 -0.0 66.2 234
KUT 38.1 48.6 10.5 0.2 0.4* 84.1 271
SHK 41.3 54.2 12.9 -0.3* -0.4* 106.2 245
M2 33.4 40.9 7.5 -1.4X -1.8X 65.2 84
FO 33.7 41.5 7.8 -1.3X -1.7X 66.8 47
OY 38.3 48.9 10.6 -1.7X -2.9X 96.7 62
I2 39.9 51.8 11.9 -1.8X -2.9X 106.5 87
HM 42.7 56.8 14.1 -2.0) -3.2) 125.0 74

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 APR 26 3 33 54.8 0.0 101.2 0.2 72.4 0.3 1.6 R
MAG=1.4 S=0.06
33) NEAR KUTSUGAHARA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 62.1 67.3 5.2 0.1 0.1 43.2 193
UZI 69.1 70.3 5.2 0.1 0.1 49.3 137
FUB 70.3 70.3 5.2 0.1 0.1 53.5 39

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 APR 26 14 22 23.9 0.5 133.8 1.9 103.3 1.8 5.9 9.2
MAG=2.2 S=0.35
22) NITA, YOKOTA AND NICHINAN
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 25.6 30.7 35.7 5.0 0.1 0.2 39.7 225
KUT 35.6 44.0 8.4 0.1 0.1 69.2 178
SHK 38.0 48.0 10.0 -0.1 -0.5X 85.1 208

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 APR 26 18 42 5.4 0.4 71.3 1.1 101.4 1.2 10.6 4.5
MAG=1.3 S=0.31
42) EASTERN PART OF HIROSHIMA
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 7.5 17.7 5.3 -0.0 0.1 40.7 252
SHK 12.4 18.2 5.8 -0.5* -0.1 43.5 322
FUB 17.5 26.5 9.0 0.0 0.2 71.6 3

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 APR 26 22 10 19.2 0.3 119.5 1.0 71.3 1.8 1.1 R
MAG=1.3 S=0.32
30) NEAR TONBARA, SHIMANE
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.2 23.2 2.0 -0.4* -0.1 14.1 164
FUB 25.8 31.6 5.8 -0.4* 0.3 41.9 56
SHK 29.5 37.0 7.5 0.1 -0.1 61.0 188
UZI 37.8 37.8 7.5 0.1 -0.1 64.6 148

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 27 10 21 38.0 0.1 104.4 0.2 76.5 0.4 5.9 0.8
33) NEAR KUTSUGAHARA
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 39.0 51.7 5.7 0.0 -0.1 2.1 317
SHK 46.0 52.0 5.8 0.1 -0.1 47.4 197
FUB 46.2 52.0 5.8 0.1 -0.1 48.5 37
UZI E 46.3 52.3 6.0 0.0 -0.0 49.2 143
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 29 15 13 27.9 0.2 120.8 0.7 71.6 1.3 2.4 R
30) NEAR TONBARA, SHIMANE
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 30.4 E 32.2 1.8 -0.1 -0.2 15.3 166
SHK 34.8 I 39.8 5.0 0.1 0.0 41.0 57
FUB 46.1 47.0 0.2 62.3 188
UZI 47.0 65.6 148
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 APR 30 2 49 23.3 0.1 107.5 0.3 75.1 0.5 4.4 0.9
33) NEAR KUTSUGAHARA
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 24.0 36.9 5.8 -0.1 -0.0 1.6 179
SHK 31.1 37.7 6.1 -0.1 -0.1 47.0 41
FUB 31.6 37.7 6.1 -0.1 -0.1 47.0 194
UZI 32.2 38.4 6.2 0.1 -0.1 52.5 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 1 12 56 17.1 0.2 44.4 0.7 47.8 0.7 20.7 0.9
55) NEAR HIROSHIMA
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK E 21.9 25.5 3.6 -0.1 -0.1 20.8 44
UZI 27.9 35.6 7.7 0.0 -0.1 61.1 70
KUT 28.7 37.4 8.7 -0.2 -0.1 67.3 23
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 3 4 30 1.8 0.2 58.0 1.3 42.3 2.0 39.8 1.4
65) WESTERN PART OF HIROSHIMA
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
HIR I 9.0 I 14.4 5.4 -0.1 0.0 17.7 186
SHK 9.2 14.8 5.6 -0.1 0.0 20.3 86
KUT 13.7 E 22.1 8.4 0.1 -0.1 58.1 34
FUB 19.3 -1.4X 106.1 37
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 3 21 26 38.5 0.2 115.7 0.6 82.0 1.0 9.4 1.7
31) CENTRAL PART OF TAKANO, HIROSHIMA
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 41.1 42.9 1.8 0.0 -0.1 12.0 215
FUB E 44.6 49.5 4.9 -0.2 0.2 36.3 41
UZI 54.9 56.2 7.7 -0.1 0.2 59.8 199
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 4 0 59 58.1 0.2 105.3 0.8 73.7 1.4 14.3 1.4
33) NEAR KUTSUGAHARA
*****
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 60.5 62.2 1.7 -0.1 -0.1 1.5 66
SHK 66.4 72.1 5.7 0.0 -0.3* 47.5 193
FUB 66.9 72.6 5.7 0.2 -0.4* 49.6 41
UZI 67.2 E 73.5 6.3 0.2 -0.1 51.6 142

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 4 23 33 44.6 0.1 87.4 0.3 62.9 0.7 19.2 1.0
50) CENTRAL PART OF HIROSHIMA
MAG=0.9 S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.4 53.1 3.7 -0.1 -0.0 22.2 33
FUR 50.3 54.3 4.0 -0.0 -0.2 28.2 180
SHK 53.4 58.5 6.1 0.1 -0.1 48.2 118
UJT 56.7 65.5 8.8 -0.0 -0.1 70.5 38

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 5 20 47 26.8 0.1 55.5 0.5 137.5 0.6 22.1 0.8
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER
MAG=1.2 S=0.07

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.5 38.3 4.8 0.0 -0.1 31.4 285
FUR 39.8 49.4 9.6 -0.1 -0.0 75.1 272
SHK 50.8 58.8 10.0 -0.0 -0.0 80.2 308

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 6 15 6 47.2 0.1 133.7 0.6 102.1 1.0 1.2 R
22) NITA,YOKOTA AND NICHINAN
MAG=1.3 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 48.8 58.4 4.9 -0.2 0.0 38.7 224
FUR 53.5 67.1 9.2 -0.1 -0.1 69.1 177
SHK 61.5 71.4 9.9 0.2 -0.2 84.4 207

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 6 22 47 59.1 0.3 117.7 1.1 71.1 0.9 7.1 1.4
32) NEAR AKAGI, SHIMANE
MAG=1.7 S=0.13

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 61.5 63.1 1.6 -0.0 -0.2 12.5 161
FUR 68.9 74.3 7.4 -0.1 -0.0 59.2 188
SHK 77.4 77.4 0.0 -0.1 -0.1 63.2 147

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 7 7 37.1 0.2 110.6 0.7 66.3 1.1 8.7 1.5
32) NEAR AKAGI, SHIMANE
MAG=1.2 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 39.0 40.9 1.9 -0.3* -0.1 10.0 118
FUR 52.1 52.1 0.0 -0.0 -0.0 51.2 51
SHK 45.8 52.2 6.4 -0.0 -0.0 51.6 184
UJT 54.6 54.6 0.0 -0.1 -0.1 60.4 139

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 7 17 16 10.9 0.5 131.2 1.8 107.3 1.5 15.8 7.9
22) NITA,YOKOTA AND NICHINAN
MAG=3.9J S=0.30

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 22.6 22.6 0.0 0.3 0.3 66.6 181
FUR 25.2 25.2 0.0 0.1 0.1 84.8 211
SHK 17.9 17.9 -0.3* -0.3 40.9 231
YON 16.7 21.2 4.5 -0.2 -0.1 32.4 29
MTS 16.9 21.3 4.4 0.1 0.1 31.8 343

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 7 18 32 42.9 0.1 130.3 0.5 99.1 0.5 16.2 1.1
22) NITA,YOKOTA AND NICHINAN
MAG=1.9 S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 49.2 53.9 4.7 -0.0 0.0 34.2 224
FUR 54.3 62.5 8.2 0.1 -0.0 66.0 174
SHK 56.5 66.5 10.0 -0.0 0.0 80.0 207

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 7 18 34 6.8 0.3 127.2 1.2 98.0 1.2 16.6 2.7
22) NITA,YOKOTA AND NICHINAN
MAG=1.9B S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 12.6 17.1 4.5 -0.1 0.0 31.3 227
FUR 17.8 25.5 7.7 0.1 -0.1 63.0 173
SHK 19.8 29.5 9.7 -0.1 0.0 76.7 207

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 8 10 45	50.3 0.5	129.5 2.3	99.2 2.2	15.4 5.7
22) NITA,YOKOTA AND NICHINAN				
MAG=1.6 S=0.31				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	56.2	61.2	5.0	-0.3*
UZI	61.5	69.6	8.1	0.0
SHK	64.0	73.5	9.5	0.2
DIST AZM				
				33.7 274
				65.1 174
				79.3 207

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 8 12 44	58.8 0.2	129.0 0.7	105.0 0.9	24.2 1.4
22) NITA,YOKOTA AND NICHINAN				
MAG=1.3 S=0.09				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	66.4	71.8	5.4	0.1
UZI	78.7	83.5	10.5	-0.0
SHK	73.0	83.5	10.5	-0.0
DIST AZM				
				37.8 232
				64.4 179
				81.7 211

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 8 15 53	38.5 0.3	132.3 1.4	100.7 1.1	0.2 R
22) NITA,YOKOTA AND NICHINAN				
MAG=1.9 S=0.21				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	44.5	49.0	4.5	-0.1
UZI	49.8	58.0	8.2	-0.0
SHK	52.5	62.5	10.0	0.2
DIST AZM				
				36.8 224
				67.8 176
				82.5 207

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 9 6 47	7 0.6	107.9 2.7	79.8 1.8	2.6 5.7
33) NEAR KUTSUGAHARA				
MAG=1.2 S=0.33				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	48.4	49.4	1.0	-0.3
UZI	62.2	62.2	6.0	0.2
SHK	56.5	62.5	6.0	0.2
DIST AZM				
				5.1 246
				50.3 146
				51.7 199

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 9 8 29	1.1 0.2	91.7 0.4	82.2 0.4	10.4 1.9
40) MIYOSHI AND SHORARA				
MAG=1.3 S=0.10				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	4.3	6.5	2.2	0.0
UZI	11.8	11.8	-0.0	-0.1
SHK	7.6	12.5	4.9	-0.1
DIST AZM				
				15.9 333
				35.7 139
				38.0 211

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 9 23 41	48.1 0.2	105.9 0.8	79.2 0.5	5.3 1.8
33) NEAR KUTSUGAHARA				
MAG=1.7 S=0.11				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	49.3	62.3	5.9	0.1
UZI	56.4	62.6	6.2	-0.0
SHK	56.4	62.6	6.2	-0.0
DIST AZM				
				4.1 270
				48.9 147
				49.6 199

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 13 19 21	50.9 0.5	21.5 2.9	35.7 3.0	69.5 R
58) NEAR KURAHASHIJIMA				
MAG=2.88 S=0.32				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	64.9	75.6	10.7	0.0
UZI	68.7	82.0	13.3	-0.1
SHK	70.2	84.4	14.2	-0.1
DIST AZM				
				46.2 35
				82.0 58
				93.2 25

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 15 12 50	51.0 0.2	81.2 0.4	94.5 0.6	11.6 2.3
42) EASTERN PART OF HIROSHIMA				
MAG=1.1 S=0.14				
STATION	TP	TS	P-S TP(O-C)	TS(O-C)
KUT	54.7	57.7	3.0	-0.1
UZI	56.7	60.6	3.9	0.1
SHK	1 57.8	62.7	4.9	0.0
DIST AZM				
				19.8 146
				31.4 321
				38.8 235

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 15 15 27 13.8 0.4 39.3 2.8 175.9 3.1 26.4 8.6
1001 OUT OF THE MAP MAG=1.6 S=0.27

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 26.9 36.9 10.0 -0.1 0.2 76.9 289
UZI E 26.9 36.9 14.0 0.3* -0.1 115.1 279
SHK 33.8 47.8 15.2 -0.0 0.1 120.8 303
KUT 34.4 49.6 15.2 -0.0 0.1 120.8 303

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 16 8 29 21.2 0.5 104.8 1.8 107.3 2.2 1.1 R
831 NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.3 S=0.34

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 26.3 32.6 4.7 -0.0 -0.2 40.2 182
UZI E 27.9 32.6 4.7 -0.0 -0.2 40.2 182
SHK 32.2 39.6 7.4 0.3* -0.1 63.9 224

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 16 13 22 24.8 0.2 81.2 0.5 38.5 0.9 15.5 1.9
651 WESTERN PART OF HIROSHIMA MAG=1.1 S=0.12

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 30.9 35.1 4.2 0.1 -0.2 32.6 132
KUT 32.5 38.3 5.8 -0.1 -0.0 44.2 55
UZI 36.5 45.2 8.7 -0.1 -0.0 68.9 103

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 17 13 55 13.5 0.4 131.7 1.3 100.6 1.5 7.4 12.2
221 NITA,YOKOTA AND NICHINAN MAG=4.3J S=0.29

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 19.9 24.7 4.8 0.2 -0.1 36.3 224
UZI 27.4 36.9 9.5 0.2 -0.4* 67.2 175
SHK 24.7 36.9 9.5 0.2 -0.4* 67.2 175
MTS 1 18.3 1 22.5 4.2 -0.4* 30.1 355
YON 1 19.6 1 24.0 4.4 0.0 -0.0 35.8 39

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 17 13 58 5.1 0.1 131.2 0.7 102.8 0.7 5.8 4.7
221 NITA,YOKOTA AND NICHINAN MAG=1.9 S=0.09

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 11.5 16.1 4.6 0.1 0.0 37.5 227
UZI E 16.2 24.5 8.3 -0.0 0.1 66.6 177
SHK 19.0 29.0 10.0 0.1 0.0 82.5 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 17 14 7 29.9 0.3 127.1 1.3 99.0 1.3 20.1 2.5
221 NITA,YOKOTA AND NICHINAN MAG=2.0 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 36.2 40.8 4.6 -0.0 -0.0 31.9 228
UZI 40.7 49.0 8.3 -0.2 0.1 62.8 174
SHK 43.3 52.8 9.5 0.1 -0.1 77.1 208

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 17 14 32 13.6 0.4 128.2 1.7 101.6 1.7 19.6 3.8
221 NITA,YOKOTA AND NICHINAN MAG=2.2R S=0.24

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 20.0 25.1 5.1 -0.3 -0.0 34.6 229
UZI 24.6 32.8 8.2 -0.1 -0.0 65.7 176
SHK 27.4 37.0 9.6 0.2 -0.2 79.3 209

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 17 17 52 58.6 0.3 132.3 1.1 102.7 0.9 2.6 R
221 NITA,YOKOTA AND NICHINAN MAG=1.5 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 64.9 69.5 4.6 -0.1 -0.2 38.2 226
UZI 69.8 78.1 8.3 -0.1 -0.1 67.7 177
SHK 72.7 82.8 10.1 0.2 0.1 83.5 208

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 18  6.45  5.7 0.3  130.6 1.6 103.7 1.6  5.1 12.9

22) NITA,YOKOTA AND NICHINAN      MAG=1.5      S=0.22

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      12.2    16.6    4.4  0.1    -0.1    37.8  229
UZI      16.5    24.9    8.4  -0.2    0.1    66.0  178
SHK      19.5    29.5   10.0  0.0    -0.1    82.5  209

*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 18  8.28 36.5 0.5  128.1 2.4 100.1 2.4  19.0  5.1

22) NITA,YOKOTA AND NICHINAN      MAG=2.38     S=0.33

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      43.3    47.5    4.2  0.4*   -0.1    33.4  228
UZI      47.5    55.8    8.3  -0.1    0.1    63.7  175
SHK      49.8    60.0   10.2  -0.2    0.2    78.5  208

*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 18 19 30 56.2 0.2  128.3 1.1 100.0 1.1  20.8  2.1

22) NITA,YOKOTA AND NICHINAN      MAG=1.4      S=0.14

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      62.9    67.5    4.6  0.1    -0.1    33.5  228
UZI      67.3    75.7    8.4  -0.1    0.1    63.9  175
SHK      69.8    79.7    9.9  0.0    -0.0    78.6  208

*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 18 20 19 17.9 0.2  129.8 1.0 100.9 1.0  17.3  2.3

22) NITA,YOKOTA AND NICHINAN      MAG=1.3      S=0.13

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      24.6    29.2    4.6  0.1    -0.1    35.2  227
UZI      29.1    37.5    8.4  -0.1    0.1    65.3  176
SHK      31.6    41.7   10.1  -0.0    0.0    80.4  208

*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 18 23 29 47.5 0.3  31.5 1.1 106.2 0.9  0.0  0.0

47) NEAR IKUCHIJIMA      MAG=1.3      S=0.16

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      54.3    62.3    6.0  0.2    -0.1    51.7  302
UZI      52.8    71.1    4.2  -0.1    0.0    33.2  358
KUT      61.0    70.9    9.9  0.1    0.1    80.6  337

*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 19  0.23  7.0 0.1  128.6 0.5  99.5 0.5  21.4  1.0

22) NITA,YOKOTA AND NICHINAN      MAG=1.4      S=0.07

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      13.6    18.3    4.7  -0.0    -0.2    33.3  227
UZI      18.2    26.5    8.3  -0.1    -0.1    64.2  174
SHK      20.5    30.5   10.0  -0.1    -0.1    78.7  208

*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 19  9.34 27.9 0.3  101.4 1.1  81.3 0.9  10.2  2.2

33) NEAR KUTSUGAHARA      MAG=1.4      S=0.20

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
KUT      30.1    31.4    1.3  0.0    -0.3    7.7  306
UZI      35.2    41.0    5.8  -0.2    0.1    44.0  146
SHK      35.8    41.5    5.7  -0.0    -0.1    46.2  203

*****

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S    +/-              +/-              +/-
1970 MAY 20 20 42 26.6 0.2  73.5 0.8 102.5 0.9  17.5  1.7

42) EASTERN PART OF HIROSHIMA      MAG=1.2      S=0.15

STATION  TP      TS      P-S TP(O-C)  TS(O-C)  DIST  AZM
UZI      29.7    32.3    2.6  -0.2    -0.1    9.3  161
SHK      34.2    39.8    5.6  -0.1    -0.1    42.5  250
FUB      38.6    47.1    8.5  0.1    -0.1    69.3  3

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DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 22 13 40 31.2 0.4 33.5 1.4 35.6 1.7 24.9 2.5
MAG=1.2 S=0.19
55) NEAR HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 38.8 44.1 5.3 0.1 -0.1 37.2 46
UZI 44.5 54.5 10.0 -0.1 0.1 76.5 65
KUT 56.1 82.5 28

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 22 17 57 23.4 0.2 36.5 0.7 174.5 1.1 28.1 3.2
MAG=1.6 S=0.11
100) OUT OF THE MAP

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 36.6 46.5 9.9 -0.1 0.1 74.6 292
SHK 43.1 57.3 14.2 0.1 -0.1 114.2 281
KUT 59.4 121.2 304
FUB 45.0 60.7 15.7 0.0 -0.0 126.2 327

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 23 5 31 14.1 0.1 134.0 0.4 99.4 0.3 6.2 1.7
MAG=1.7 S=0.07
22) NITA, YOKOTA AND NICHINAN

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 16.2 16.2 0.0 -0.0 11.1 38
KUT 20.3 25.0 4.7 -0.1 0.0 37.1 220
UZI 25.8 34.2 8.4 0.0 -0.1 69.6 175
SHK E 28.0 38.2 10.2 -0.0 -0.1 83.4 206

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 23 16 25 51.4 0.1 112.0 0.2 86.0 0.4 3.2 2.1
MAG=1.3 S=0.09
31) CENTRAL PART OF TAKANO, HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 53.6 55.1 1.5 0.0 -0.0 12.5 240
KUT I 57.4 62.1 4.7 -0.2 0.0 36.8 33
UZI E 59.9 66.2 6.3 -0.0 -0.0 51.7 157
SHK 61.1 68.1 7.0 0.0 -0.0 57.8 203

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 21 13 25 23.2 0.3 60.9 1.0 66.1 1.0 35.0 1.5
MAG=1.0 S=0.20
53) NEAR HACHIHONMATSU, HIROSHIMA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 29.2 33.2 4.0 0.1 -0.3 4.0 244
UZI 31.8 38.5 6.7 -0.2 0.0 39.5 84
KUT 32.8 39.8 7.0 -0.1 -0.1 45.9 11

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 21 16 35 46.9 0.3 24.4 1.4 163.3 2.0 9.2 15.6
MAG=1.6 S=0.18
91) KAGAWA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 58.6 67.5 8.9 -0.2 0.1 70.5 204
SHK 64.7 77.8 13.1 -0.0 0.0 106.6 289
FUB 69.0 84.8 15.8 0.2 -0.1 131.3 334

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 21 17 27 10.0 0.4 141.6 1.2 117.3 1.5 22.8 3.2
MAG=2.2 S=0.21
20) CENTRAL SHIMANE-TOTTORI BORDER

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 14.2 27.3 7.5 -0.2 0.0 55.3 229
KUT 19.8 33.3 9.7 0.1 -0.1 77.9 188
UZI 23.6 33.3 9.7 0.1 -0.1 77.9 188
SHK 28.5 40.5 12.0 1.6X 99.0 213

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 MAY 22 11 11.5 0.2 133.0 0.5 99.7 0.6 9.9 1.9
MAG=1.6 S=0.11
22) NITA, YOKOTA AND NICHINAN

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 14.0 22.5 4.6 0.1 0.0 36.6 222
KUT 17.9 31.5 8.4 0.0 -0.0 68.6 175
UZI 23.1 31.5 8.4 0.0 -0.1 82.7 206
SHK 25.3 E 35.4 10.1 -0.1

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 24 1 48 2.1	0.1	132.7	0.4	1.6	1970 MAY 25 10 48 25.8	0.8	134.4	2.4	8.7
22) NITA,YOKOTA AND NICHINAN									
MAG=2.3 S=0.11									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
FUB	4.0	12.8	4.3	0.0	0.0	11.2	27		
KUT	8.5	12.8	4.3	0.2	-0.1	37.3	224		
UZI	13.5	21.8	8.3	0.0	0.0	68.2	176		
SHK	15.9	26.2	10.3	-0.0	0.1	83.0	207		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 24 6 27 12.9	0.5	148.7	3.3	10.0	1970 MAY 26 8 53 44.2	0.3	44.4	1.0	20.9
20) CENTRAL SHIMANE-TOTTORI BORDER									
MAG=1.7 S=0.31									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
FUB	15.3	17.0	1.7	0.1	0.0	8.7	133		
KUT	26.9	41.4	1.7	-0.2	-0.1	84.2	176		
SHK	41.4	41.4	5.8	0.1	-0.3	97.1	202		
KUT	E 21.5	E 27.3	5.8	0.1	-0.3	49.5	210		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 24 10 46 23.9	0.3	55.4	0.8	31.5	1970 MAY 27 2 40 11.1	0.1	105.7	0.5	5.1
53) NEAR HACHIONMATSU,HIROSHIMA									
MAG=0.9 S=0.15									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
SHK	29.2	32.9	3.7	-0.0	-0.3	4.2	25		
UZI	33.0	39.9	6.9	-0.2	-0.1	45.7	78		
KUT	41.5	41.5	52.5	15					

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 24 22 15 55.9	0.0	132.8	0.3	1.1	1970 MAY 27 8 32 24.4	0.3	105.9	1.2	72.0
22) NITA,YOKOTA AND NICHINAN									
MAG=1.5 S=0.09									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
FUB	57.7	66.7	4.4	0.1	-0.1	11.0	25		
KUT	62.3	75.6	8.3	0.0	-0.0	37.7	224		
UZI	67.3	75.6	8.3	0.0	0.0	68.3	176		
SHK	E 69.8					83.3	207		

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 MAY 27 8 32 24.4	0.3	105.9	1.2	72.0	1970 MAY 27 8 32 24.4	0.3	105.9	1.2	72.0
33) NEAR KUTSUGAHARA									
MAG=1.5 S=0.42									
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM		
FUB	24.4	32.3	1	38.3	6.0	-0.6	3.1	89	
KUT	32.3	40.0	6.0	-0.1	0.1	47.7	191		
UZI	40.0	39.1	6.0	0.3	0.2	53.1	140		
SHK	33.1	39.1	6.0	0.3	0.2	50.3	42		

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DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 17 31.6 0.6 151.0 2.2 117.7 2.6 13.4 5.2
20) CENTRAL SHIMANE-TOTTORI BORDER      MAG=2.1      S=0.36
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      UZI  34.7      50.1      7.6 0.3*      0.2      14.2 234
      FUB  42.5      50.1      7.6 0.3*      0.2      62.0 223
      KUT  44.3      57.2      10.9 -0.0      0.1      87.2 186
      SHK  49.3      62.4      13.1 -0.3*      -0.4*      107.1 210
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 8 20 10.3 0.4 132.8 1.4 102.0 1.3 6.5 7.0
22) NITA,YOKOTA AND NICHINAN      MAG=2.0      S=0.28
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      FUB  12.3      17.0      4.5 0.3      0.0      10.8 23
      KUT  17.0      21.5      4.5 0.3      0.0      38.0 225
      UZI  21.9      30.1      8.2 0.2      0.0      68.2 177
      SHK  24.0      34.3      10.3 -0.3      -0.2      83.6 208
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 10 18 8.0 0.6 133.6 2.0 102.3 2.0 9.7 6.8
22) NITA,YOKOTA AND NICHINAN      MAG=2.0      S=0.39
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      FUB  10.3      19.6      4.6 0.3*      0.0      9.9 23
      KUT  15.0      28.1      8.2 0.3      0.0      38.8 224
      UZI  19.9      28.1      8.2 0.3      0.0      69.0 177
      SHK  E 21.8      28.1      8.2 0.3      0.0      84.4 208
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 12 9 0.6 0.1 84.2 0.2 94.4 0.3 10.6 1.5
42) EASTERN PART OF HIROSHIMA      MAG=1.2      S=0.11
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      UZI  E 4.6      7.8      3.2 -0.2      0.0      22.4 150
      KUT  5.8      9.5      3.7 0.0      -0.1      29.0 318
      SHK  7.6      12.6      5.0 0.0      0.0      40.5 231
      FUB  10.8      18.0      7.2 0.1      -0.1      59.7 11
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 13 34 46.1 0.1 55.4 0.6 130.4 0.6 32.3 0.7
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER      MAG=1.4      S=0.07
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      UZI  53.1      58.3      5.2 -0.0      0.1      26.6 290
      SHK  67.9      69.7      9.9 0.1      0.0      68.0 273
      KUT  59.8      69.7      9.9 0.1      0.0      74.9 312
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 16 3 8.3 0.3 131.9 1.3 74.0 1.8 13.3 3.2
7) NEAR KAREYA, SHIMANE      MAG=1.2      S=0.30
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      KUT  13.5      16.8      3.3 0.3*      0.0      26.0 177
      FUB  E 14.3      18.7      4.4 -0.1      -0.2      34.0 171
      SHK  20.7      29.5      8.8 -0.1      -0.4*      73.6 188
      UZI  21.1      30.1      9.0 0.2      0.0      74.2 154
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 23 39 41.1 0.2 96.3 0.7 10.9 0.9 2.9 3.3
10) WESTERN PART OF SHIMANE      MAG=1.1      S=0.18
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      HHD  41.8      43.0      1.2 -0.3      0.2      5.1 305
      SHK  E 51.7      59.5      7.8 -0.0      0.0      63.6 125
      KUT  51.9      59.8      7.9 -0.0      -0.1      84.9 181
      UZI  57.9      69.9      12.0 0.2      0.0      99.7 106
      FUB  E 59.0      71.7      12.7 0.2      -0.0      108.0 64
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 MAY 28 23 41 55.1 0.2 42.6 0.9 42.1 0.9 26.0 1.1
55) NEAR HIROSHIMA      MAG=1.5      S=0.12
STATION  TP      TS      P-S TP(O-C) TS(O-C)      DIST      AZM
      SHK  E 61.3      69.6      4.3 0.0      -0.2      26.3 50
      UZI  67.0      75.8      8.8 -0.1      -0.1      77.1 70
      KUT  67.6      79.0      9.4 -0.2      -0.3      71.4 27
      FUB  89.0      89.0      9.4 -0.2      -1.2X      118.9 32

```

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	
1970 MAY 29	6 58 20.0	0.3	136.3	0.8	118.3 1.5 1.3 R
20) CENTRAL SHIMANE-TOTTORI BORDER					
MAG=1.9 S=0.27					
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)
FUB	22.3	23.9	1.6	0.0	0.1
KUT	29.2	35.5	6.3	0.4	0.2
UZI	32.1	41.1	9.0	-0.0	0.1
SHK		47.2			-0.3
DIST AZM					
					13.7 287
					52.8 234
					72.8 190
					95.2 215

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	
1970 MAY 29	8 24 56.8	0.1	137.6	0.8	116.8 0.8 10.1 1.8
20) CENTRAL SHIMANE-TOTTORI BORDER					
MAG=1.7 S=0.08					
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)
FUB	59.3	61.3	2.0	-0.1	-0.0
UZI	69.2			-0.0	
SHK	72.8	84.4	11.6	0.0	-0.1
KUT		72.2			-0.0
DIST AZM					
					11.7 295
					73.8 188
					96.4 214
					57.4 232

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	
1970 JUN 1	16 1 16	1.0	87.6	1.1	74.5 1.9 16.4 4.9
50) CENTRAL PART OF HIROSHIMA					
MAG=1.0 S=0.47					
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)
KUT	6.4	9.1	2.7	0.3	-0.1
SHK	7.9	11.6	3.7	0.1	-0.5X
UZI	9.2	14.0	4.8	0.2	-0.1
FUB		20.4			-0.6X
DIST AZM					
					18.3 1
					30.9 202
					38.5 126
					63.6 29

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	
1970 JUN 1	17 8 36.6	0.2	108.7	1.1	69.6 1.9 2.3 R
33) NEAR KUTSUGAHARA					
MAG=1.1 S=0.17					
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)
KUT	I 37.8			0.1	
SHK	E 44.9	51.0	6.1	-0.1	-0.1
FUB	E 45.1	50.9	5.8	0.2	-0.1
DIST AZM					
					6.2 116
					50.0 188
					50.0 47

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	
1970 JUN 1	22 43 52.2	0.1	105.6	0.7	79.4 1.0 5.9 R
33) NEAR KUTSUGAHARA					
MAG=1.1 S=0.21					
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)
KUT	53.3	54.2	0.9	-0.2	-0.2
FUB	60.1	E 65.3	5.2	0.2	-0.2
SHK	I 60.6	66.4	5.8	0.1	-0.2
DIST AZM					
					4.3 274
					45.8 35
					49.4 199

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-	
1970 JUN 2	9 2 34.0	0.1	105.4	0.3	76.3 0.6 1.2 R
33) NEAR KUTSUGAHARA					
MAG=1.6 S=0.13					
STATION	TP	TS	P-S	TP(O-C)	TS(O-C)
FUB	42.1	47.7	5.6	0.1	-0.1
SHK	42.0	47.9	5.9	-0.0	-0.0
UZI	42.2	48.5	6.3	-0.2	0.0
DIST AZM					
					47.8 38
					48.3 196
					50.1 144

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 14 25 28.0 0.1 105.7 0.5 76.1 0.8 4.2 1.0

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 28.5 29.2 0.7 -0.3 -0.1 1.0 281
FUB 36.0 42.2 6.2 -0.1 0.1 48.5 196
SHK 41.9 41.9 0.1 0.1 47.7 39
UZI 36.3 42.6 6.3 -0.1 -0.0 50.5 144

MAG=1.6 S=0.17

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 14 37 14.3 0.1 106.0 0.2 75.3 0.4 6.6 0.4

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 15.4 16.1 0.7 -0.1 -0.2 0.2 244
FUB 28.3 28.3 0.0 0.0 48.0 40
SHK 22.4 28.5 6.1 -0.1 0.0 48.6 195
UZI 29.2 29.2 0.0 0.0 51.2 143

MAG=1.0 S=0.07

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 14 38 35.6 0.1 105.8 0.4 76.8 0.8 3.9 1.0

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 36.1 36.8 0.7 -0.3 -0.1 1.7 273
FUB 43.7 49.1 5.4 0.2 -0.2 47.2 38
SHK 43.7 49.7 6.0 -0.1 -0.0 48.8 197
UZI 44.0 50.1 6.1 0.0 -0.0 50.1 145

MAG=1.4 S=0.16

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 15 0 33.4 0.1 106.0 0.3 77.1 0.5 3.0 0.7

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 36.0 36.6 0.6 -0.0 0.1 2.0 267
FUB 41.2 47.1 5.9 -0.0 0.1 46.9 38
SHK 41.6 47.9 6.1 0.0 0.1 50.1 145

MAG=1.5 S=0.10

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 10 54 5.9 0.2 106.6 0.4 74.8 0.8 10.5 1.5

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 7.7 7.7 -0.0 -0.0 0.8 156
FUB 14.1 20.0 5.9 0.0 -0.1 47.9 41
SHK 14.4 20.2 5.8 0.1 -0.2 49.0 194
UZI 14.9 21.2 6.3 0.2 -0.0 51.9 143

MAG=2.38 S=0.16

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 10 56 38.2 0.2 106.7 1.8 75.2 3.4 0.2 1.3

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 38.4 38.4 0.0 0.0 0.8 186
FUB 46.1 52.0 5.9 -0.0 0.1 47.5 40
SHK 46.5 52.4 5.9 0.1 -0.0 49.2 194

MAG=1.1 S=0.10

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 13 20 0.3 0.2 107.5 0.6 75.9 1.1 7.9 1.6

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 1.6 1.6 -0.1 -0.1 1.8 206
FUB 8.1 8.1 -0.1 -0.1 46.5 40
SHK 8.7 8.7 -0.1 -0.1 50.2 195
UZI 9.2 15.4 6.2 0.1 -0.1 52.0 145

MAG=3.18 S=0.17

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 2 13 26 24.2 0.1 104.5 0.5 75.8 0.9 3.7 1.0

33) NEAR KUTSUGAHARA

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 24.6 25.3 0.7 -0.3* -0.1 1.6 333
SHK 31.9 38.0 6.1 -0.2 0.1 47.2 196
FUB 32.4 38.3 5.9 0.0 -0.0 48.8 38
UZI 38.5 38.5 -0.1 -0.1 49.7 143

MAG=1.0 S=0.18

```

DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 2 16 58 8.1 0.1 106.3 0.3 75.2 0.5 7.1 0.9
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.10
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 9.3 22.1 6.1 -0.2 0.0 47.8 193
FUB 16.0 22.3 6.0 -0.0 -0.1 48.8 195
SHK 16.3 22.3 6.0 -0.0 -0.1 48.8 195
UZI 16.8 23.0 6.2 0.0 0.0 51.5 144
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 3 19 9 29.3 0.0 88.9 0.1 37.0 0.2 41.0 0.1
65) WESTERN PART OF HIROSHIMA
MAG=1.0 S=0.01
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 38.7 45.6 6.9 -0.1 -0.1 39.2 139
KUT E 39.0 I 46.1 7.1 -0.1 -0.2 41.7 65
FUB 57.2 57.2 0.0 0.0 -0.1 87.7 52
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 4 1 45 36.6 0.1 106.3 0.5 76.7 1.0 7.0 0.5
33) NEAR KUTSUGAHARA
MAG=1.1 S=0.04
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT E 37.8 E 38.6 0.8 -0.1 -0.2 1.6 256
FUB 50.3 50.3 0.0 0.0 46.9 39
SHK 44.9 51.0 6.1 0.0 0.0 49.2 196
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 4 19 5 54.2 0.3 131.7 1.3 73.1 1.8 15.1 3.0
7) NEAR KAKEYA, SHIMANE
MAG=1.6 S=0.29
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 59.3 I 62.9 3.6 0.1 0.0 25.9 175
FUB 60.6 64.9 4.3 0.0 -0.3* 34.9 71
SHK 66.7 75.3 8.6 0.0 -0.5X 73.3 188
UZI 76.2 76.2 0.1 0.1 74.4 154
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 4 23 33 21.1 0.1 109.7 0.3 71.2 0.6 8.7 0.6
33) NEAR KUTSUGAHARA
MAG=1.3 S=0.12
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 22.9 23.9 1.0 0.0 -0.2 5.4 134
FUB 29.3 35.1 5.8 0.0 -0.1 48.1 46
SHK 29.7 36.0 -0.1 -0.1 51.3 189
UZI E 30.7 37.6 6.9 0.1 -0.0 56.6 142
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 5 9 56 52.0 0.4 94.4 1.2 10.7 2.0 12.8 R
10) WESTERN PART OF SHIMANE
MAG=1.3 S=0.32
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 6.8 I 8.1 1.3 -0.8X -1.2X 6.3 321
SHK 15.8 23.7 7.9 -0.1 0.0 62.7 124
KUT E 24.1 24.1 8.3 -0.5X -0.4* 65.4 79
UZI 21.5 34.2 12.3 0.0 0.1 99.3 107
FUB 23.5 36.5 13.0 0.3* 0.2 107.1 63
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 5 14 47 36.4 0.3 50.2 1.2 128.0 1.5 24.1 2.1
80) SOUTHERN HIROSHIMA-OKAYAMA BORDER
MAG=0.9 S=0.24
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 42.6 46.8 4.2 0.2 -0.9 26.8 302
SHK 48.3 55.5 8.2 0.2 0.3 26.1 217
KUT E 49.9 59.9 10.0 0.1 0.2 76.8 316
FUB 52.5 66.7 12.2 -0.2 -0.6 95.0 346
*****
DATE      ORIGIN TIME      X(KM)      Y(KM)      DEPTH(KM)
H M S +/-
1970 JUN 6 8 52 21.0 0.2 35.4 0.7 42.0 0.7 3.0 R
55) NEAR HIROSHIMA
MAG=2.1 S=0.11
STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 26.1 30.1 4.0 -0.2 -0.0 31.4 40
UZI 32.7 41.2 8.5 0.0 0.0 69.8 45
KUT 34.1 43.5 9.4 0.1 -0.0 77.9 25
FUB 41.7 56.5 14.8 -0.2 -0.6) 125.1 30

```


DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 10 20 13 25.1 0.0 104.5 0.2 80.6 0.4 5.2 0.8
33) NEAR KUTSUGAHARA MAG=0.8 S=0.02

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 26.4 27.3 0.9 -0.0 -0.1 5.7 284
FUB 38.5 0.0 46.0 33
SHK 33.3 39.3 6.0 0.0 0.0 48.8 201
UZI E 38.4 44.9 6.5 0.1 -0.1 54.9 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 11 9 29 13.5 0.3 107.7 1.2 78.1 2.3 1.7 R
33) NEAR KUTSUGAHARA MAG=2.3B S=0.45

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 21.4 26.0 4.6 0.4# -0.5# 44.9 38
UZI 22.1 28.2 6.1 0.1 -0.0 51.0 147
SHK 22.2 27.8 5.6 0.2 -0.4# 51.0 197

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 11 18 2 52.7 0.1 50.0 0.6 103.5 0.5 12.1 0.9
47) NEAR IKUCHIJIMA MAG=1.0 S=0.09

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI E 55.8 58.3 2.5 -0.1 0.0 14.8 7
SHK E 60.0 65.3 5.3 0.0 -0.0 42.0 282
KUT E 63.4 71.1 7.7 0.0 -0.1 62.7 333

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 11 18 35 51.1 0.0 32.8 0.0 91.3 0.0 5.0 0.2
47) NEAR IKUCHIJIMA MAG=1.2 S=0.06

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI E 57.0 61.3 4.3 0.0 0.0 34.8 23
SHK 57.7 62.5 4.8 0.0 0.0 39.0 312
KUT E 72.8 0.0 74.9 347

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 6 18 56 29.1 0.1 107.1 0.5 70.6 0.8 1.2 R
33) NEAR KUTSUGAHARA MAG=1.2 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 29.8 43.3 6.3 -0.2 0.2 4.7 104
SHK 37.0 43.7 6.2 0.0 0.1 48.6 189
FUB 37.5 43.7 6.2 0.0 0.1 50.4 45
UZI E 38.4 44.9 6.5 0.1 -0.1 54.9 140

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 8 10 35 18.8 0.2 113.9 0.7 62.8 1.2 8.4 2.2
32) NEAR AKAGI, SHIMANE MAG=1.4F S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 21.8 23.6 1.8 0.2 -0.1 14.7 123
FUB 27.6 33.9 6.3 -0.0 -0.1 52.1 56
SHK 27.9 34.7 6.8 -0.1 -0.1 56.7 180
UZI 30.0 37.7 7.7 0.2 -0.1 65.1 139

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 9 14 25 17.5 0.4 88.4 0.8 95.1 1.1 2.8 13.9
42) EASTERN PART OF HIROSHIMA MAG=2.1 S=0.25

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 21.8 25.0 3.2 -0.0 -0.0 25.9 156
KUT E 21.7 25.3 3.6 -0.3 0.1 26.6 311
SHK 25.0 30.0 5.0 0.2 -0.2 43.8 228

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 9 19 12 6.4 0.4 26.6 2.1 89.6 1.4 34.6 2.6
47) NEAR IKUCHIJIMA MAG=1.9 S=0.26

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 15.5 21.9 6.4 0.1 -0.1 41.2 22
SHK 15.7 22.1 6.4 0.2 -0.1 42.3 320
KUT 20.8 E 31.9 11.1 -0.2 0.1 80.6 349
FUB 27.5 42.8 15.3 0.7X 1.1X 117.3 8

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 12 15 11 59.3 0.3 112.4 2.2 67.6 3.9 10.7 2.9

32) NEAR AKAGI, SHIMANE MAG=1.5 S=0.16

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 61.8 63.4 1.6 0.0 -0.2 9.9 130
FUB 73.8 73.8 0.0 -0.0 -0.0 49.1 51
SHK 68.3 75.1 6.8 -0.1 0.0 53.5 185

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 13 12 20 38.9 0.1 117.6 0.3 129.7 0.6 22.4 1.4

85) NEAR ASHIDACHI, OKAYAMA MAG=1.5 S=0.10

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 45.8 50.6 4.8 0.0 -0.2 34.4 316
KUT E 56.2 56.2 0.0 -0.1 55.8 257
UZI E 49.2 56.9 7.7 -0.1 -0.0 58.2 204
SHK E 54.1 65.4 11.3 -0.1 -0.0 89.0 228

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 14 13 55 55.2 0.1 108.4 0.4 81.2 0.8 1.2 7.9

33) NEAR KUTSUGAHARA MAG=1.1 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 56.3 67.4 11.1 -0.0 -0.1 6.6 247
FUB 62.2 67.4 5.2 0.1 -0.1 42.5 36
SHK 64.1 70.2 6.1 0.1 -0.2 52.7 200
UZI 69.6 69.6 0.0 -0.0 50.0 151

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 14 14 24 30.0 0.2 113.6 0.6 66.2 1.1 11.9 1.3

32) NEAR AKAGI, SHIMANE MAG=1.5 S=0.18

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 33.0 34.7 1.7 0.2 -0.2 11.8 150
FUB 38.4 44.7 6.3 -0.1 -0.0 49.5 53
SHK 39.4 46.0 6.6 0.1 -0.1 54.6 183
UZI 48.5 48.5 0.0 0.1 62.7 141

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 14 15 37 27.3 0.4 118.2 2.9 85.6 4.2 3.9 9.6

31) CENTRAL PART OF TAKANO, HIROSHIMA MAG=0.5 S=0.23

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 30.0 32.1 2.1 -0.1 -0.0 16.2 220
FUB 32.5 36.7 4.2 -0.2 0.1 32.0 40
SHK 38.1 45.5 7.4 0.2 -0.1 63.4 201

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 15 21 32 24.2 0.0 45.0 0.0 105.0 0.0 24.3 0.1

47) NEAR KUCHIJIMA MAG=1.1 S=0.01

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 29.4 33.2 3.8 -0.0 -0.1 19.7 1
SHK 32.7 38.9 6.2 -0.0 -0.0 44.8 288
KUT I 45.0 45.0 0.0 -0.0 67.8 333

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 17 11 40 22.6 0.4 80.7 1.0 131.4 2.1 3.0 R

80) SOUTHERN HIROSHIMA-OKAYAMA BORDER MAG=1.9 S=0.32

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 27.3 31.5 4.2 -0.4* 0.0 30.5 238
KUT E 33.3 40.3 7.0 0.4* -0.1 61.7 294
FUB 41.8 41.8 0.0 -0.1 66.9 337
SHK 34.8 43.4 8.6 0.2 -0.1 72.2 252

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 18 6 15 0.9 0.3 111.4 0.9 125.6 2.1 1.0 R

83) NORTHERN HIROSHIMA-OKAYAMA BORDER MAG=2.2 S=0.40

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 7.0 11.3 4.3 -0.0 -0.2 36.8 328
UZI I 9.6 115.6 115.6 0.2 -0.0 50.9 203
KUT 9.7 164.0 164.0 0.3* 0.4* 50.8 263
SHK 14.5 124.0 9.5 -0.1 -0.5X 81.9 230

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 19 1 58 50.9 0.2 105.5 0.8 76.9 1.3 7.6 1.6

331 NEAR KUTSUGAHARA

MAG=0.9 S=0.27

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 52.2 53.0 0.8 -0.1 -0.3 1.8 282
FUB 66.8 66.8 0.0 0.0 47.4 38
SHK 58.8 65.3 6.5 -0.3 0.2 48.5 197
UZI 65.4 -0.1 49.8 145

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 20 4 0 42.5 0.3 -19.2 0.9 47.7 1.4 65.5 1.4

95) EHIME

MAG=3.48 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
MTY 54.0 62.8 8.8 -0.2 0.1 24.6 86
HIR 57.4 68.0 10.6 0.1 -0.2 60.1 352
SHK 60.5 72.5 12.0 0.8X 0.2 79.8 10
MKW 62.9 77.6 14.7 0.1 -0.1 102.8 31
KUT 66.4 80.7 14.3 -0.1 -3.4 128.1 12
FUB 72.0 92.4 20.4 -1.2 -3.3 172.2 19

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 20 16 17 14.5 0.1 132.3 0.5 103.0 0.8 2.7 R

22) NITA,YOKOTA AND NICHINAN

MAG=2.68 S=0.17

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 16.3 25.6 4.6 0.1 -0.0 10.9 17
KUT 21.0 34.0 8.1 0.1 -0.1 67.7 177
UZI 25.9 38.5 9.8 0.3 -0.1 83.6 208
SHK 28.7

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 21 13 58 2.3 0.1 105.0 0.3 80.0 0.5 3.4 R

331 NEAR KUTSUGAHARA

MAG=1.6 S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.1 15.6 5.6 0.0 0.0 45.9 34
FUB 10.0 10.2 16.0 5.8 -0.1 -0.1 47.7 147
SHK 10.7 16.5 5.8 0.2 -0.0 49.1 200

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 22 7 54 2.6 0.1 106.5 0.2 77.9 0.4 5.3 0.6

331 NEAR KUTSUGAHARA

MAG=0.9 S=0.09

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 3.6 4.3 0.7 -0.1 -0.1 2.9 258
FUB 10.3 16.0 5.7 -0.0 0.0 46.0 38
SHK 11.1 17.0 5.9 0.2 -0.1 49.8 197
UZI 17.2 0.1 50.1 146

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 22 12 26 59.8 0.4 117.5 0.7 131.0 2.2 13.6 4.5

851 NEAR ASHIDACHI,OKAYAMA

MAG=1.5 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
FUB 66.0 70.8 4.8 -0.1 0.1 35.3 315
UZI 77.2 86.0 10.9 0.1 -0.0 58.7 205
SHK 75.1 86.0 10.9 0.1 -0.1 90.0 229

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/-
1970 JUN 22 12 50 57.4 0.2 138.8 0.9 69.7 1.0 0.5 R

71 NEAR KAKEYA, SHIMANE

MAG=1.9 S=0.19

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 62.9 66.9 4.0 -0.1 -0.1 33.3 170
FUB 63.3 66.2 4.9 -0.2 0.2 36.7 83
SHK 70.7 80.7 10.0 -0.0 0.2 80.0 185
UZI 71.2 81.0 9.8 0.1 -0.2 82.3 154

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 22 13 4	16.5 0.2	120.6 1.2	81.0 1.8	3.8 R
30) NEAR TONBARA, SHIMANE				
MAG=1.2 S=0.36				
STATION	TP	TS	P-S	TP(O-C)
KUT	18.8	20.9	2.1	-0.4*
FUB	22.2	24.2	4.0	0.1
UZI	34.1	34.1	0.1	0.1
SHK	27.6	35.4	7.8	0.4*
DIST AZM				
				15.8 201
				33.5 48
				61.1 156
				64.2 196

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 22 14 57	1.0 0.4	138.9 1.5	68.9 1.8	0.2 R
7) NEAR KAKEYA, SHIMANE				
MAG=1.5 S=0.34				
STATION	TP	TS	P-S	TP(O-C)
KUT	6.3	10.3	4.0	-0.3
FUB	7.0	12.0	5.0	-0.3
SHK	14.6	24.3	9.7	0.3
UZI	1 25.0			0.1
DIST AZM				
				33.6 169
				37.5 84
				80.0 184
				82.7 153

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 23 8 14	59.9 0.3	144.8 1.5	16.3 2.7	38.4 5.5
1) OFF COAST OF SHIMANE				
MAG=2.4 S=0.25				
STATION	TP	TS	P-S	TP(O-C)
KUT	73.5	83.3	9.8	0.2
FUB	76.0	88.0	12.0	-0.2
SHK	77.3	89.8	12.5	-0.1
UZI	81.0	96.3	15.3	0.1
DIST AZM				
				70.5 123
				90.0 91
				97.3 151
				119.9 131

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 23 9 57	40.7 0.3	57.8 0.9	104.9 0.9	19.0 1.2
44) NEAR FUCHU				
MAG=1.2 S=0.20				
STATION	TP	TS	P-S	TP(O-C)
KUT	44.2	46.6	2.4	0.1
SHK	48.6	54.0	5.4	0.1
UZI	58.2			0.2
FUB	55.2	65.7	10.5	-0.0
DIST AZM				
				6.9 41
				42.4 271
				56.6 328
				84.9 0

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 23 16 0	44.4 0.1	134.4 0.8	101.8 1.2	1.9 R
22) NITA, YOKOTA AND NICHINAN				
MAG=1.6 S=0.25				
STATION	TP	TS	P-S	TP(O-C)
KUT	45.8	48.8	3.0	-0.2
FUB	51.2	55.6	4.4	0.3
UZI	56.2	64.5	8.3	0.2
SHK	56.5	68.6	10.1	-0.1
DIST AZM				
				9.4 28
				39.0 223
				69.8 177
				84.9 207

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 23 16 17	18.6 0.5	124.7 1.8	64.4 3.0	13.9 4.7
30) NEAR TONBARA, SHIMANE				
MAG=2.0 S=0.46				
STATION	TP	TS	P-S	TP(O-C)
KUT	23.5	24.1	0.6	0.0
FUB	26.5	27.1	0.6	-0.3
SHK	27.8	28.8	1.0	-0.6
UZI	31.3	40.1	8.8	0.4*
DIST AZM				
				21.6 150
				45.5 66
				65.6 181
				72.7 145

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 25 13 46	10.2 0.1	107.9 0.3	81.2 0.6	7.0 1.8
33) NEAR KUTSUGAHARA				
MAG=1.5 S=0.12				
STATION	TP	TS	P-S	TP(O-C)
KUT	11.8	11.8	0.0	-0.0
FUB	17.5	22.7	5.2	0.1
UZI	24.7	25.3	0.6	0.1
SHK	19.1	25.3	6.2	0.1
DIST AZM				
				45.4 251
				46.6 150
				52.2 200

DATE	ORIGIN TIME H M S	X(KM) +/-	Y(KM) +/-	DEPTH(KM) +/-
1970 JUN 25 15 6	35.6 0.6	113.2 1.3	100.7 2.0	16.1 5.8
25) NEAR EROSHI-YAMA				
MAG=1.4 S=0.48				
STATION	TP	TS	P-S	TP(O-C)
KUT	41.4	44.7	3.3	0.6
FUB	41.2	45.2	4.0	-0.1
UZI	44.4	50.5	6.1	0.2
SHK	46.9	54.6	7.7	-0.1
DIST AZM				
				0.1 254
				30.0 10
				48.8 174
				66.2 215

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 25 15 6 35.9 9.9 113.5 9.9 97.4 9.9 10.1 9.9
25) NEAR EROSHI-YAMA MAG=1.4 S=1.00

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 41.4 44.7 3.3 1.2X 23.6 251
FUB 41.2 E 45.2 4.0 -0.1 0.0 30.5 16
UZI 44.4 50.5 6.1 0.1 0.0 49.5 170
SHK 46.9 54.6 7.7 0.1 -0.2 64.6 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 25 15 6 58.6 0.2 113.5 0.4 97.4 0.6 10.1 2.4
25) NEAR EROSHI-YAMA MAG=2.3B S=0.15

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 63.0 66.1 3.1 0.1 0.1 23.6 251
FUB 63.9 67.9 4.0 -0.1 0.0 30.5 16
UZI 67.2 73.2 6.0 0.2 0.0 49.5 170
SHK 69.6 77.3 7.7 0.1 -0.2 64.6 212

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 26 21 18 16.1 0.2 105.9 1.0 77.8 1.9 0.8 7.7
33) NEAR KUTSUGAHARA MAG=1.3 S=0.20

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT 16.6 19.2 2.7 270
FUB 23.7 29.6 5.9 -0.2 0.1 46.5 37
UZI 24.4 30.2 5.7 0.2 -0.1 49.6 146
SHK 24.5 30.2 5.7 0.2 -0.1 49.2 198

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 26 21 53 31.6 0.5 55.4 2.1 76.1 1.7 41.4 2.4
53) NEAR HACHIONMATSU-HIROSHIMA MAG=2.2B S=0.35

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
SHK 38.8 44.0 5.2 -0.1 -0.3* 14.1 285
UZI 40.1 46.5 6.4 -0.1 -0.0 30.8 72
KUT 42.9 51.9 9.0 0.4* 1.4X 50.5 358
FUB E 48.1 60.7 12.6 -0.4* -0.1 92.4 19

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 26 23 17 54.6 0.4 59.8 1.5 150.6 2.5 21.5 5.8
81) NEAR YAKAKE-OKAYAMA MAG=2.1 S=0.37

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI 63.1 69.2 6.1 0.1 0.1 45.4 276
SHK 69.7 80.5 10.8 -0.0 -0.3 98.1 269
KUT E 70.2 81.2 11.0 0.4* 0.3 88.5 201
FUB 70.5 82.3 11.8 -0.2 -0.2 94.0 231

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 27 5 34 8.5 0.2 29.8 0.9 107.7 0.7 11.2 2.6
47) NEAR KUCHIJIMA MAG=1.8 S=0.14

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
UZI E 14.5 19.2 4.7 -0.1 0.1 34.9 356
SHK 17.8 24.3 6.5 0.1 -0.1 53.9 303
KUT E 22.6 E 32.7 10.1 0.2 0.1 82.8 336
FUB E 27.4 41.2 13.8 -0.0 -0.1 112.9 359

DATE ORIGIN TIME X(KM) Y(KM) DEPTH(KM)
H M S +/- +/- +/-
1970 JUN 28 4 23 7.0 0.0 105.7 0.2 76.7 0.3 0.1 R
33) NEAR KUTSUGAHARA MAG=1.5 S=0.08

STATION TP TS P-S TP(O-C) TS(O-C) DIST AZM
KUT I 7.3 20.6 5.7 0.0 -0.1 47.3 38
FUB 14.9 21.0 6.0 -0.1 0.0 48.7 196
SHK 15.0 21.5 6.0 -0.1 0.0 50.1 145
UZI

DATE	ORIGIN TIME	X(KM)	Y(KM)	DEPTH(KM)
	H M S +/-	+/-	+/-	+/-
1970 JUN 29 12 14	4.8 0.1	105.5 0.3	77.6 0.6	5.5 0.8

33) NEAR KUTSUGAHARA

STATION	TP	TS	P-S	TP(O-C)	TS(O-C)	DIST	AZM
KUT	5.6	6.5	0.9	-0.3	-0.1	2.5	279
FUB	12.6	18.4	5.8	-0.1	-0.1	46.9	37
SHK	13.1	18.8	5.7	0.1	-0.2	48.7	198
UZI	13.1	19.1	6.0	0.0	-0.1	49.4	145

MAG=1.5 S=0.13
