

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

Geographical coordinates, Geocentric direction cosines a, b, c
and the height of the Station are given as below :

Lat. 38°04.0' N. a = + 0.54 501
Long. 46°19.6' E. b = + 0.57 088
Height. 1 430 m. c = + 0.61 400

JANUARY 1968

Note.: If A, B and C are the analogous quantities for the epicenters determined by USCGS, distances (D) are calculated according: $\cos D = aA + bB + cC$

Amplitudes of Body waves and Mx Surfacewaves train are measured peak-to-peak.

1 e P 00 28 29
e S 29 06
1 e P 19 19 41
e S 20 06
2 e P 00 35 21
e P 39 46
eiSXS 46 01
ei 49 06

D=106.6°

USCGS:

H: 00 21 10.8; 5.1 S; 153.4 E;
NEW IRLAND REGION.
h: 55 Km.
Mag: 5.5(CGS), 5.7-6.0(BRK), 5½-
5¾(GOL).

UPPSALA:

h: 60 Km(Um).
M: 5.7(Up, Ki).

2 e P 10 25 42
2 e 12 02 45

D=10.2°

USCGS:

H: 11 59 32.0; 29.4 N; 52.6 E;
SOUTHERN IRAN.
h: 26 Km.
Mag: 5.0(CGS).

3 e P 02 37 23

D=84°

USCGS:

H: 02 24 54.1; 51.8 N; 173.3 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 39 Km.
Mag: 4.6(CGS).

3 e P 04 17 22

D=39.7°

USCGS:

H: 04 09 34.9; 72.3 N; 6.5 E;
NORWEGIAN SEA.
h: 33 Km.
Mag: 5.4(CGS).

3 e P 07 45 35

D=40.9°

USCGS:

H: 07 37 55.2; 72.2 N; 1.2 E;
NORWEGIAN SEA.
h: 33 Km.
Mag: 5.3(CGS).

B.C.I.S.

H: 07 37 50 ; 72.3 N; 1.0 E;

3 i P 00 25 00

i
i
i

4 ei

i

i

S

Mx

Mx

Mx

Institute of Geophysics
Tehran University, Iran
The Seismological
Bulletin of Seismological
Observatory of Tabriz
1967 + 1968 + Aug
1965.

JANUARY 1968

(cont.)

D=84.3°

USCGS:

H: 00 57 44.4; 52.2 N; 171.3 W;
 FOX ISLANDS, ALEUTIAN ISLANDS.
 h: 36 Km.
 Mag: 5.7(CGS), 6-6¼(PAS), 5.6-
 5.9(BRK), 6-6¼(PAL).

5	e P	05 40 35
	i S	40 53
5	e P	07 16 05
	i S	16 38
5	e P	13 15 16
	e S	15 22
5	e P	21 24 27
	eiS	24 37
6	i P	10 27 37.3

D=16.6°

USCGS:

H: 10 23 49.1; 45.8 N; 26.6 E;
 ROMANIA.
 h: 163 Km.
 Mag: 4.6(CGS).

6	i P	14 27 27.0
	i S	27 42
6	e P	23 43 10
	eiPKP	46 20
	i pPKP	46 28.0
	i PP	48 22
	Mx Z	micr sec
		20.4 22
	Mx N	14.9 18
	Mx E	19.3 24

D=127.4°

USCGS:

H: 23 27 21.2; 27.8 S; 71.1 W;
 NEAR COAST OF NORTHERN CHILE.
 h: 33 Km.
 Mag: 5.8(CGS), 6¼-6½(PAS), 6.0-
 6.4(BRK).

6	i P	23 49 35.0
7	eiP	03 52 31.0

D=25.5°

USCGS:

H: 03 46 57.7; 49.8 N; 78.0 E;
 EASTERN KAZAKH SSR.
 h: 0 Km.
 Mag: 5.3(CGS).

B.C.I.S.:

H: 03 47 00 ; 50.0 N; 78.0 E;
 M=5.1(Up); MPV=4.9(Moxa).

7	e P	10 10 45
	i PP	15 16
	i	22 38
	i	23 23
	i	25 12

D=106.8°

USCGS:

H: 09 56 40.3; 5.1 S; 153.9 E;
 NEW IRELAND REGION.
 h: 118 Km.
 Mag: 5.6(CGS), 5.4-5.8(BRK).

7	i P	11 24 08	C
	i pPcP	24 29	
	i S	33 42	
		micr sec	
	P Z	5.7 7	
	S E	5.6 9	
	Mx Z	14.6 18	
	Mx N	8.8 18	
	Mx E	7.0 20	

D=73.9°

USCGS:

H: 11 12 33.9; 33.5 N; 141.6 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 48 Km.
 Mag: 5.5(CGS), 5.8-6.2(BRK).

7	e P	21 50 10
---	-----	----------

D=72.3°

USCGS:

H: 21 38 45.2; 46.1 N; 150.8 E;
 KURILE ISLANDS.
 h: 33 Km.
 Mag: 4.6(CGS).

8	e(PKP)	03 35 07
---	--------	----------

D=125.2°

(cont.)

JANUARY 1968

(cont.)

USCGS:

H: 03 17 12.6; 13.7 S; 171.5 E;
 NEW HEBRIDES ISLANDS REGION.
 h: 630 Km.
 Mag: 5.2(CGS), 5.2-5.6(BRK).

8 e 08 32 35
 8 eiPP 19 04 38
 D=121.7°

USCGS:

H: 18 44 24.5; 18.6 S; 69.9 W;
 NORTHERN CHILE.
 h: 116 Km.
 Mag: 5.4(CGS).

8 i P 20 34 27.5 (C)
 eiS 44 39
 D=80.8°

USCGS:

H: 20 22 15.6; 8.2 N; 38.2 W;
 CENTRAL MID-ATLANTIC RIDGE.
 h: 33 Km.
 Mag: 5.4(CGS), 4.8-5.2(BRK), 5¼
 (GOL).

8 e 22 13 47
 ej 35 02
 micr. sec
 Mx Z 8.9 23
 Mx N 10.0 22
 Mx E 10.0 22
 D=137°

USCGS:

H: 21 54 20.8; 14.8 S; 174.8 W;
 SAMOA ISLANDS REGION.
 h: 16 Km.
 Mag: 5.5(CGS), 6.2-6.4(BRK), 6-
 6¼(GOL).

9 i P 02 35 56.0 D
 i S 36 21.0
 9 e P 16 11 16
 i S 11 47.0
 9 e P 23 20 04
 D=19.3°

USCGS:

H: 23 15 42.2; 35.5 N; 22.5 E;

MEDITERRANEAN SEA.

h: 44 Km.
 Mag: 4.7(CGS).

B.C.I.S.:

H: 23 15 39 ; 35.4 N; 22.5 E;
 ML=4.1(Athènes).

11 i P 11 58 44
 i S 58 49

11 eiP 17 07 14

D=77.8°

USCGS:

H: 16 55 20.7; 6.9 N; 126.1 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 58 Km.
 Mag: 5.3(CGS).

11 e P 21 47 35
 i S 47 54

12 e 04 26 22

D=48.2°

USCGS:

H: 04 17 43.1; 13.4 N; 93.1 E;
 ANDMAN ISLANDS REGION.
 h: 33 Km.
 Mag: 5.5(CGS).

13 e 03 12 20
 13 i P 07 14 22 C
 i 14 37
 i PPP 18 29
 i S 22 59
 i 30 51

	micr	sec
P Z'	1.1	1.5
P Z	7.6	12
PP Z	6.3	14
Mx Z	44.8	17.5
Mx N	37.4	18
Mx E	27.2	18

D=64.9°

USCGS:

H: 07 03 39.2; 24.1 N; 122.2 E;
 TAIWAN REGION.
 h: 8 Km.
 Mag: 5.7(CGS), 6-6¼(GOL).

(cont.)

JANUARY 1968

(cont.)

UPPSALA:

h: 55 Km(Up,Gb,Um,Ud).
m=6.1,M=6.8(Up,Ki).

13 eiPKP 16 25 38
i SKKS 33 54

D=122.3°

USCGS:

H: 16 07 04.2; 24.2 S; 66.9 W;
SALTA PROVINCE, ARGENTINA.

h: 192 Km.

Mag: 5.7(CGS), 5½(PAL).

13 e P 16 28 32
i S 29 18

14 i P 12 37 49 C

i pP 38 21

i PP 41 20

i 41 50

i SKS 48 09

i (S 48 25.0

i (ScS 48 51

i sS 49 10

i PPS 50 16

i 50 22

i 50 45

i SS 54 09

i sSS 54 51

micr sec

P Z 19.6 12

D=88.0°

USCGS:

H: 12 25 09.7; 7.5 S; 127.9 E;
BANDA SEA.

h: 115 Km.

Mag: 5.9(CGS), 6¼(PAS), 6(PAL).

14 eiP 13 21 20

D=26.2°

USCGS:

H: 13 15 41 ; 37.7 N; 13.1 E;
SICILY.

h: 2 Km.

Mag: 5.0(CGS).

B.C.I.S.:

H: 13 15 46 ; 37.7 N; 13.1 E;

14 e P 15 54 07

D=26.2°

USCGS:

H: 15 48 31.8; 37.9 N; 13.1 E;
SICILY.

h: 29 Km.

Mag: 4.7(CGS).

B.C.I.S.:

H: 15 48 31 ; 37.7 N; 13.2 E;
M=5.0(Up), MLH=4.8(Pruh).

14 eiP 17 55 37

(S 18 06 03

ei(SKS 06 12

i ScS 17 34

ei 17 50

i 18 17

micr sec

Mx Z 22.4 18

Mx N 28 18

Mx E 14 20

D=84.0°

USCGS:

H: 17 43 10.0; 52.7 N; 171.2 W;
FOX ISLANDS, ALEUTIAN ISLANDS.

h: 34 Km.

Mag: 5.5(CGS), 6¼(PAS), 6¼(PAL),
6-6¼(GOL).

14 e 18 13 58

14 e P 22 33 34

UPPSALA:

Celebes Sea.

15 eiP 01 38 36.7 C

eiS 43 04

i 43 22

micr sec

Mx Z 15.1 20

Mx N 41 18

Mx E 13.3 20

D=26.2°

USCGS:

H: 01 33 02.7; 37.9 N; 13.1 E;
SICILY.

h: 33 Km.

Mag: 5.1(CGS).

(cont.)

JANUARY 1968

(cont.)

B.C.I.S.:

H: 01 33 02 ; 37.8 N; 13.2 E;
 M=5.7(Up);MLH=5.6(Praha);5.5
 (Pruhonice,Strasbourg).

15 ei 02 06 42 C
 i S 11 14
 micr sec
 Mx Z 65.6 22
 Mx N 178.2 18
 Mx E 55.6 23

D=26.2°

USCGS:

H: 02 01 08.5; 37.9 N; 13.1 E;
 SICILY.
 h: 33 Km.
 Mag: 5.4(CGS),6(PAS),6(GOL).

B.C.I.S.:

H: 02 01 03 ; 37.7 N; 13.0 E;
 MLH=5.9 STR;M=6(Up).

15 e P 03 24 17
 D=26.2°

USCGS:

H: 03 18 40.8; 37.9 N; 13.1 E;
 SICILY.
 h: 33 Km.
 Mag: 4.6(CGS).

B.C.I.S.:

H: 03 18 40 ; 37.8 N; 13.2 E;
 M=5.0(Up).

15 i P 12 02 06
 i S 02 15
 15 e P 18 28 28
 D=26.2°

USCGS:

H: 18 22 50.1; 37.7 N; 13.1 E;
 SICILY.
 h: 6 Km.
 Mag: 4.1(CGS).

15 eP 22 25 25
 D=26.3°

USCGS:

H: 22 19 57 ; 37.8 N; 12.9 E;
 SICILY.
 h: 33 Km.
 Mag: 4.7(CGS).

B.C.I.S.:

H; 22 19 56 ; 37.8 N; 13.2 E;

16 eiP 16 48 20.5
 eiS 52 56
 micr sec
 Mx Z 18.6 21
 Mx N 44.9 18
 Mx E 16.2 20

D=26.2°

USCGS:

H: 16 42 44.3; 37.9 N; 13.1 E;
 SICILY.
 h; 14 Km.
 Mag: 5.1(CGS).

B.C.I.S.:

H: 16 42 45 ; 37.7 N; 13.3 E
 M=5.8(Up);5.7(Collm);5.6(Moxa;
 Praha,Pruhonice,Strasbourg
 5.2(Athènes).

17 e 17 02 22
 17 e 17 46 36
 18 e 05 59 40
 18 e 12 26 34
 D=134.2°

USCGS:

H: 12 03 37.4; 14.6 S;178.4 W;
 FIJI ISLANDS REGION.
 h: 33 Km.
 Mag: 5.1(CGS).

19 e P 01 38 22
 e S 38 45
 19 e P 01 45 42
 e S 46 06
 19 eiP 06 19 20
 eiSKS 29 55
 i SKKS 30 48
 i 31 54
 i SP 33 34
 micr sec
 Mx Z 19.0 20
 Mx N 14.0 20
 Mx E 17.2 19

D=113.1°

(cont)

JANUARY 1968

(cont.)

USCGS:

 H: 06 04 38.2; 9.4 S; 158.4 E;
 SOLOMON ISLANDS.

h: 33 Km.

 Mag: 6.0(CGS), 6 $\frac{3}{4}$ (PAS), 6 $\frac{1}{2}$ -6 $\frac{3}{4}$
 (GOL), 6 $\frac{3}{4}$ (PAL).

 19 eiPKP 14 59 00
 ei(PP) 15 01 39

D=137.0°

USCGS:

 H: 14 39 37.8; 42.6 S; 75.2 W;
 OFF COAST OF SOUTHERN CHILE.

h: 22 Km.

Mag: 5.5(CGS).

 19 e P 18 28 56
 eiPP 33 06
 ePKPPKP 53 16

D=(102°)

UPPSALA:

H: 18 15 00

Nevada.

m=7.0, M=5.6(Up, Ki).

Underground nuclear explosion.

 20 e PKP 17 00 43
 e 00 53
 eiSKP 04 14
 i PKS 04 17
 eiPSS 21 12

D=132.5°

USCGS:

 H: 16 41 27.1; 16.2 S; 178.1 E;
 FIJI ISLANDS.

h: 21 Km.

Mag: 5.6(CGS), 6-6.2(BRK).

 20 i PKP 21 40 16.5 D
 i 40 24.4
 iiPP 43 26
 i SKP 43 43
 i 44 01
 ei 48 34
 ei 51 49.5

micr sec

 EKP Z' 1.6 1.0
 PKP N' 0.41 0.7
 PKP E' 0.38 0.8

 PP Z' 0.9 0.9
 PP N' 0.22 0.8
 PP E' 0.28 0.8

D=141.5°

USCGS:

 H: 21 21 31.6; 29.9 S; 179.5 W;
 KERMADEC ISLANDS.

h: 349 Km.

Mag: 5.8(CGS), 6.3-6.5(BRK).

UPPSALA:

h: 380Km(Gb, Um, Ud).

20 e 23 06 53

21 eiP 01 32 48.0

D=80.9°

USCGS:

 H: 01 20 49.7; 8.0 S; 117.6 E;
 SUMBAWA ISLAND REGION.

h: 134 Km.

Mag: 5.3(CGS).

 21 e P 16 53 26
 i 53 32
 i 53 51
 i PP 56 06
 i 57 02
 i 58 01
 i 58 40
 i S 17 02 22
 ii 10 09

micr sec

 Mx Z 18 18
 Mx N 27.8 18
 Mx E 10.8 18

D=67.8°

USCGS:

 H: 16 42 29.2; 1.2 S; 14.0 W;
 NORTH OF ASCENSION ISLAND.

h: 33 Km.

 Mag: 6.2(PAS), 6.5-6.9(BRK), 6 $\frac{1}{4}$
 (PAL).

 21 e P 22 47 23
 e S 47 40

 22 i P 10 40 36.8 D
 eiPP 41 10.4

D=23°

(cont.)

JANUARY 1968

(cont.)

USCGS:

H: 10 35 36.6; 38.2 N; 75.6 E;
SOUTHERN SINKIANG PROV., CHINA.
h: 108 Km.
Mag: 5.3(CGS).

23 e P 19 24 28
ei 24 40
D=30.3°

UFPSALA:

H: 160 Km(Ki,Ud),
m= 5.7(Up,Ki).

22 e P 20 35 20
i 35 29.2
D=4.7°

USCGS:

H: 19 18 13.0; 8.7 N; 37.7 E;
ETHIOPIA.
h: 33 Km.
Mag: 5.1(CGS).

23 i P 19 30 07 C
23 e 20 49 04
24 e P 19 10 55
e S 11 17
25 e P 10 02 21
eiS 06 54
i 07 12
micr sec
Mx Z 19.4 20
Mx N 47.3 18
Mx E 16.1 20
D=26.2°

USCGS:

H: 20 34 10.0; 33.8 N; 46.9 E;
IRAN-IRAQ BORDER REGION.
h: 33 Km.
Mag: 5.0(CGS).

B.C.I.S.:

H: 20 34 07 ; 33.7 N; 46.7 E;
22 i P 21 21 50.2
D=4.6°

USCGS:

H: 09 56 48.7; 37.8 N; 13.2 E;
SICILY.
h: 33 Km.
Mag: 5.1(CGS), 5½-5¾(GOL).

USCGS:

H: 21 20 38.5; 33.7 N; 46.8 E;
IRAN-IRAQ BORDER REGION.
h: 10 Km.
Mag: 5.0(CGS).

B.C.I.S.:

H: 21 20 39 ; 33.7 N; 46.7 E;
23 e P 05 30 07
e S 30 33
23 i P 06 53 57
i S 54 19
23 e P 10 49 17
i S 49 43
23 i P 16 19 19 C
eiS 29 40
eiPS 30 42
D=84.4°

B.C.I.S.:

H: 09 56 47 ; 37.7 N; 13.1 E;
M:5.8(Up), 5.7(Collm-Roma), 5.5
(Strasbourg), 5.4(Praha-
Pruhonice), 5.2(Athènes).
26 i P 04 58 07.0 C
i PcP 58 12.0
i pPcP 58 18.0
i (S 03 03 04
i (SKS 08 22
micr sec
P Z' 0.44 1.0
D=83.2°

USCGS:

H: 16 06 50.1; 52.1 N; 171.3 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 53 Km.
Mag: 5.2(CGS), 5.0-5.4(BRK), 5¼-
5¾(PAL).

23 ei 16 40 33
ei 41 26

USCGS:

H: 04 45 41.4; 8.8 S; 120.4 E;
FLORES ISLANDS REGION.
h: 29 Km.
Mag: 5.9(CGS), 6½(PAS), 6.5-6.9
(BRK), 6½-6¾(GOL), 6¾-7(PAL).

JANUARY 1968

27 eiP 00 59 55.7

D=71.6°

USCGS:

H: 00 48 35.6; 29.9 N; 42.8 W;
NORTH ATLANTIC RIDGE.

h: 34 Km.

Mag: 5.0(CGS).

27 e P 03 21 14
e S 21 19

27 e P 07 25 07
i S 25 12.5

27 i P 14 07 00.5 C
eipP 07 12
i S 15 38

	micr	sec
Mx Z	10.8	17
Mx N	10.3	16
Mx E	8.8	18

D=64.9°

USCGS:

H: 13 56 23.8; 23.2 N; 121.6 E;
TAIWAN.

h: 53 Km.

Mag: 5.2(CGS).

UPPSALA:

h: 40 Km(Up,Ki,Gb,Um).
m=6.1,M=6.1(Ki,Up).

28 eiP 23 09 39.1
i 09 45.3
i S 10 20
i 10 28.0

29 eiP 05 04 20.0 C
i 04 24.7
ei 05 10

D=19.2°

USCGS:

H: 05 00 10.0; 36.3 N; 70.4 E;
HINDU KUSH REGION.

h: 225 Km.

Mag: 5.5(CGS).

UPPSALA:

h=210 Km(Up,ki,Sk,Gb,Um).
m=5.9(Up,Ki).

29 iiP 10 30 25.2 C
i S 39 36

micr sec

P Z'	8.1	1.9
P N'	3.4	1.9
P E'	2.2	1.7
P Z	58.7	15

D=71.6°

USCGS:

H: 10 19 05.6; 43.6 N; 146.7 E;
KURILE ISLANDS.

h: 40 Km.

Mag: 7.0(PAS), 7.7-7.9(BRK), 7-
7¼(PAL), 7.0(GOL).

29 i P 10 53 31.2 C

D=72.0°

USCGS:

H: 10 42 08.6; 43.2 N; 147.2 E;
KURILE ISLANDS.

h: 41 Km.

Mag: 5.2(CGS).

29 e P 11 55 23

D=72.1°

USCGS:

H: 11 43 59.1; 43.4 N; 147.3 E;
KURILE ISLANDS.

h: 33 Km.

Mag: 5.1(CGS).

29 i P 16 11 41.4 C

D=74.1°

USCGS:

H: 16 00 07.3; 12.3 N; 125.5 E;
SAMAR, PHILIPPINE ISLANDS.

h: 51 Km.

Mag: 5.3(CGS).

UPPSALA:

h: 40 Km.

29 i P 16 54 12.6 C
i 54 27

i S 17 03 34

micr sec

P Z'	0.77	1.3
P N'	0.40	1.0
P E'	0.36	1.0

JANUARY 1968

(cont.)

		micr	sec
P	Z	7.3	6.0
Mx	Z	13.6	18
Mx	N	9.3	16
Mx	E	13.2	18

D=72.0°

USCGS:

H: 16 42 50.4; 43.5 N; 147.2 E;
KURILE ISLANDS.
h: 36 Km.
Mag: 5.7(CGS).

29 i P 21 04 57 C
e PP 08 12
eiS 15 21

D=85.3°

USCGS:

H: 20 52 21.3; 56.4 N; 153.6 W;
KODIAK ISLAND REGION.
h: 6 Km.
Mag: 5.2(CGS), 5.0(GOL).

29 e P 22 49 32

D=72.0°

USCGS:

H: 22 38 08 ; 43.0 N; 147.1 E;
KURILE ISLANDS.
h: 33 Km.
Mag: 4.7(CGS).

30 i P 01 41 37.7 C
i 41 48.2

D=71.8°

USCGS:

H: 01 30 12.7; 43.3 N; 146.8 E;
KURILE ISLANDS.
h: 12 Km.
Mag: 5.3(CGS).

UPFSALA:

h: 10 Km.
m=6.1(Up,Ki).

30 i P 01 59 54.5 C
eiS 02 09 15
i (PS 09 52
i (SKS

		micr	sec
Mx	Z	10.2	18
Mx	N	4.8	18
Mx	E	6.8	18

D=72.5°

USCGS:

H: 01 48 28.6; 43.3 N; 147.7 E;
KURILE ISLANDS.
h: 33 Km.
Mag: 5.1(CGS).

UPPSALA:

h: 30 Km.
m=6.3, M=5.8(Up, Ki).

30 e P 02 31 58

D=72.5°

USCGS:

H: 02 20 31 ; 43.4 N; 147.7 E;
KURILE ISLANDS.
h: 25 Km.
Mag: 4.8(CGS).

30 i P 02 49 37.3 C

D=72.5°

USCGS:

H: 02 38 12.6; 43.3 N; 147.7 E;
KURILE ISLANDS.
h: 33 Km.
Mag: 5.1(CGS).

UPPSALA:

h: 30 Km.
m=6.1(Up, Ki).

30 i P 03 13 08.5 C
i S 22 34
i 23 18

D=72°

USCGS:

H: 03 01 44.0; 43.1 N; 147.2 E;
KURILE ISLANDS.
h: 28 Km.
Mag: 5.4(CGS).

30 eiP 03 35 07

D=72.2°

USCGS:

H: 03 23 41.9; 43.3 N; 147.4 E;
KURILE ISLANDS.
h: 33 Km.
Mag: 4.9(CGS).

30 iiP 03 55 13.8 D
i pP 57 17.5

JANUARY 1968

(cont.)

iiS 04 04 07.5
 i 04 23
 micr sec
 P Z' 2.6 0.9
 P H' 0.56 0.8
 P E' 0.81 0.8

D=76.0°

USCGS:

H: 03 44 24.4; 6.1 S; 113.3 E;
 JAVA.
 h: 594 Km.
 Mag: 6.2(CGS).

30 e P 04 22 00

D=72.0°

USCGS:

H: 04 10 35.1; 43.1 N; 147.1 E;
 KURILE ISLANDS.
 h: 24 Km.
 Mag: 5.1(CGS).

UPPSALA:

h: 40 Km(Up,Um).

30 eiP 08 21 53.1 C

D=19.4°

USCGS:

H: 08 17 32.3; 36.4 N; 70.7 E;
 HINDU KUSH REGION.
 h: 205 Km.
 Mag: 5.2(CGS).

30 eiP 18 46 27

e 46 38

D=72.1°

USCGS:

H: 18 35 00.9; 43.0 N; 147.2 E;
 KURILE ISLANDS.
 h: 25 Km.
 Mag: 4.9(CGS).

30 i P 20 52 58.3
 i S 53 03

30 i P 21 59 50.1
 i 59 52.0

30 e P 22 35 31
 e 36 38

UPPSALA:

Caucasus.

30 eiP 23 56 55

31 i PKP 02 21 18.3 C

D=121.2°

USCGS:

H: 02 03 29.4; 27.7 S; 63.2 W;
 SANTIAGO DEL ESTERO PROV., ARG.
 h: 580 Km.
 Mag: 4.9(CGS).

31 eiP 03 11 28

D=90.0°

USCGS:

H: 02 58 29.8; 6.9 S; 130.3 E;
 BANDA SEA.
 h: 22 Km.
 Mag: 5.5(CGS).

31 i P 11 52 47.3 C

i PP 54 20

D=39.0°

USCGS:

H: 11 45 16.9; 29.9 N; 92.1 E;
 TIBET.
 h: 18 Km.
 Mag: 5.2(CGS).

31 e P 22 09 51

ei 10 15

D=72.5°

USCGS:

H: 21 58 24.1; 43.0 N; 147.8 E;
 KURILE ISLANDS.
 h: 33 Km.
 Mag: 4.9(CGS).

JANUARY 1969

M.S.Nabavi

A.Anzabi

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

FEBRUARY 1968

1 i P 12 58 45 C
i 59 06
eiS 13 08 06
D=71.8°

USCGS:

H: 12 47 23.4; 43.2 N; 146.9 E;
KURILE ISLANDS.
h: 35 Km.
Mag: 5.5(CGS).

3 i P 01 10 01 D
i S 10 28

3 i P 03 37 45.1 C
D=73.0°

USCGS:

H: 03 26 16.6; 46.6 N; 152.6 E;
KURILE ISLANDS.
h: 45 Km.
Mag: 5.3(CGS).

3 eiPP 05 56 10
D=116.7°

USCGS:

H: 05 36 14.6; 16.7 N; 99.4 W;
NEAR COAST OF GUERRERO, MEXICO.
h: 9 Km.
Mag: 5.7(CGS), 6-6¼(PAS), 5.7-
5.8(BKS), 6¼-6½(GOL).

3 eiP 11 42 06 C
D=71.7°

USCGS:

H: 11 30 44.4; 43.2 N; 146.8 E;
KURILE ISLANDS.
h: 33 Km.
Mag: 5.5(CGS).

3 e 13 05 42
3 e P 14 12 15
e S 12 41

4 i P 01 22 36.2
i S 22 40.3

4 eiP 09 21 49
D=72.0°

USCGS:

H: 09 10 25.3; 43.2 N; 147.2 E;
KURILE ISLANDS.
h: 33 Km.
Mag: 5.4(CGS).

4 i P 11 12 14 C
i PcP 12 32
e S 21 32
i 21 43
i PPS 22 21

	micr	sec
P Z	10.8	07
Mx Z	34	17
Mx N	40.6	16
Mx E	27.9	18

D=72.0°

USCGS:

H: 11 00 50.1; 43.0 N; 147.1 E;
KURILE ISLANDS.
h: 33 Km.
Mag: 5.5(CGS), 6¼(PAS), 5.6-5.8
(BRK), 6(PAL).

4 ei 23 59 15.5

5 i P 13 34 58.8 D
D=3.0°

USCGS:

H: 13 34 11.7; 40.9 N; 47.6 E;
EASTERN CAUCASUS.
h: 33 Km.
Mag: 4.7(CGS).

5 e 15 21 29

6 ei 23 18 36

FEBRUARY 1968

7 eiP 00 34 16.7 C
 mirc sec
 P Z' 0.38 1.4
 D=81.9°

USCGS:
 H: 00 22 28.6; 21.6 N; 142.9 E;
 MARIANA ISLANDS REGION.
 h: 309 Km.
 Mag: 5.3(CGS), 5.0(BRK).

		micr	sec
P	Z	17.7	6
P	N	12.5	6
S	N	15.6	6
Mx	Z	124	15
Mx	N	122.6	15
Mx	E	40	15

D=24.7°

7 eiP 22 25 53.5 C
 eiS 28 49
 i SS 29 13
 i 29 37
 eiScP 34 13
 micr sec
 P Z' 0.24 1.0
 D=15.6°

USCGS:
 H: 12 28 21.0; 14.6 N; 54.0 E;
 ARABIAN SEA.
 h: 33 Km.
 Mag: 5.4(CGS).

USCGS:
 H: 22 22 20.2; 36.7 N; 26.8 E;
 DODECANESE ISLANDS.
 h: 161 Km.
 Mag: 5.0(CGS).

UPPSALA:
 h: 20 Km(Up,Ki,Um,Ud).
 m:5.9,M:5.7(Up,Ki).

B.C.I.S.:
 H: 22 22 18 ; 36.6 N; 26.9 E;
 h: 160 Km.
 ML: 5.0(Athenes).

8	e P	22 23 16
	e S	23 27
9	eiP	02 47 00
	eiS	47 17
9	e P	10 39 35
	e S	39 56
9	e P	13 26 45

D=16.6°

UPPSALA:
 h: 150 Km(Up,Sk,Gb,Um,Ud).
 m:6.0(Up,Ki).

USCGS:
 H: 13 22 53.9; 45.6 N; 26.4 E;
 RUMANIA.
 h: 122 Km.
 Mag: 4.6(CGS)..

7 eiP 23 42 35
 i S 42 41.2

8 i P 11 03 40.5 C
 eiS 08 04
 mirc sec
 P Z 5.7 4
 Mx Z 17.3 14
 Mx N 17.3 15
 Mx E 5.1 12
 D=24.7°

B.C.I.S.:
 H; 13 22 56 ; 45.8 N; 26.4 E;

9	e P	20 57 02
	i	57 05.8

D=61.8°

USCGS:
 H: 10 58 22.1; 14.6 N; 53.9 E;
 ARABIAN SEA.
 h: 33 Km.
 Mag: 5.2(CGS).

USCGS:
 H; 20 46 44.1; 13.9 S; 82.4 E;
 SOUTH INDIAN OCEAN.
 h: 33 Km.
 Mag: 5.1(CGS).

8 iiP 12 33 40 C
 i S 38 02

9	i P	23 42 43.0	D
10	e P	09 06 35	
	i S	07 02	

FEBUARY 1968

10 i P 10 11 30.3 C
 eiS 20 54
 micr sec
 P Z' 0.48 1.0
 P Z 3.7 4.0

D=73.2°

USCGS:

H: 10 00 05.8; 46.0 N; 152.3 E;
 KURILE ISLANDS.
 h: 37 Km.
 Mag: 5.7(CGS).

UPPSALA:

h: 100 Km(Up,Ud).
 m: 6.5(Up,Ki).

10 eiP 17 03 43
 eiS 13 18

D=26.8°

USCGS:

H: 17 03 03.8; 34.1 N; 78.5 E;
 KASHMIR-TIBET BORDER REGION.
 h: 37 Km.
 Mag: 5.2(CGS).

10 e P 19 54 17
 e S 54 46

11 i P 20 44 08 C
 eiS 48 40

D=26.8°

USCGS:

H: 20 38 29.4; 34.2 N; 78.6 E;
 KASHMIR-TIBET BORDER REGION.
 h: 44 Km.
 Mag: 5.1(CGS).

12 i P 05 58 59 D
 i 06 02 16
 i 02 41
 i PP 03 27.8
 i pPP 03 41.5
 i 04 07.5
 i SKS 09 37
 i S 10 55
 i PS 12 43

D=106.6°

USCGS:

H: 05 44 47.6; 5.5 S; 153.2 E;

NEW IRLAND REGION.

h: 74 Km.

Mag: 7-7¼(PAS), 7-7.5(DRK), 7-7¼(PAL)

12 e P 06 27 09

D=77.8°

USCGS:

H: 06 15 11 ; 9.2 S; 113.0 E;
 SOUTH OF JAVA.
 h: 33 Km.
 Mag: 5.0(CGS).

12 e P 10 23 54

D=22.4°

USCGS:

H: 10 18 51.9; 38.1 N; 17.8 E;
 SOUTHERN ITALY.
 h: 15 Km.
 Mag: 5.3(CGS).

B.C.I.S:

H: 10 18 53 ; 38.0 N; 17.8 E;
 h: 40 Km.
 M: 5.1(Athenes).

12 e P 22 25 42

D=44°

USCGS:

H: 22 17 36 ; 22.9 N; 95.4 E;
 BURMA.
 h: 23 Km.
 Mag: 4.7(CGS).

13 eiP 02 25 24 C
 ei 25 34
 i 25 44
 ii? 25 53.2
 i SKS 35 40
 i S 36 07.0
 micr sec
 ? Z' 0.56 1.0

D=39.2°

USCGS:

H: 02 12 31.5; 5.5 S; 131.1 E;
 BANDA SEA.
 h: 67 Km.
 Mag: 5.8(CGS).

14 e 11 44 20

D=80.4°

FEBRUARY 1968

(cont.)

USCGS:

H: 11 32 03 ; 37.2 S; 78.0 E;
MID-INDIAN RISE.
h: 33 Km.
Mag: 5.4(CGS).

14 eiP 14 50 26
eiS 15 00 17
D=78.1°

USCGS:

H: 14 38 26 ; 25.8 N; 141.1 E;
VOLCANO ISLANDS REGION.
h: 42 Km.
Mag: 4.5(CGS).

15 e P 02 55 14
D=84.4°

USCGS:

H: 02 42 47.3; 52.2 N; 171.4 W;
FOX ISLANDS, ALEUTIAN ISLANDS.
h: 61 Km.
Mag: 5.3(CGS).

UPPSALA:

h: 50 Km(Um).

15 i P 18 24 06.5 D
i S 24 48.0
15 eiP 21 37 17.0
eiS 37 44.0
16 i P 01 19 12.5 D
D=76.6°

USCGS:

H: 01 07 24 ; 9.2 N; 126.4 E;
MINDANAO, PHILIPPINE ISLANDS.
h: 48 Km.
Mag: 5.0(CGS).

16 e P 14 33 49
i 33 51.4
D=68.5°

USCGS:

H: 14 23 42.6 ; 49.7N; 147.7 E;
SEA OF OKHOTSK.
h: 582 Km.
Mag: 4.7(CGS).

16 e P 20 14 07
i S 14 35.5

17 eiP 17 31 35.7 C
eipP 32 03.5
D=80.5°

USCGS:

H: 17 19 31.8; 4.4 N; 127.7 E;
TALAUD ISLANDS.
h: 98 Km.
Mag: 5.6(CGS).

17 e 20 10 43
18 e P 09 41 15
eipP 43 06
ei(PP) 44 32
i SKS 50 59
ii (S 51 16
ii (ScS 56 42
eiSS 56 42
D=86.2°

USCGS:

H: 09 29 26.1; 7.2 S; 125.9 E;
BANDA SEA.
h: 457 Km.
Mag: 5.3(CGS).

19 i P 00 38 25.6 D
i S 38 51.0
19 e P 14 09 21
e PP 13 47
e (SP) 23 06
D=106.6°

USCGS:

H: 13 55 12.2; 5.5 S; 153.1 E;
NEW IRELAND REGION.
h: 73 Km.
Mag: 5.5(CGS).

19 iiP 22 49 40.0 D
micr sec
P Z' 10 2.5
Mx Z' 295 9.7
Mx N' 450 11.5
Mx E' 470 11.5
D=16.7°

USCGS:

H: 22 45 41.2; 39.4 N; 25.0 E;
AEGEAN SEA.
h: 7 Km.
Mag: 7¼-7½(PAS), 6.4-6.7(BRK),
7¼-7½(PAL), 7¼-7½(GOL).

(Cont.)

FEBRUARY 1968

(cOnt.)

B.C.I.S:

H: 22 45 44 ; 39.3 N; 25.0 E;
 h: 45 Km.
 MLH: 7%—8STR, 7%(Bensberg), M:
 7.6(Uppsala), 7.5(Roma), 7.4
 (Lisboa), 7.2(Collm), MS=7.1
 (Athenes), M:6.9(Pruhonice),
 6.7(Ksara).

UPPSALA:

(h:5 Km.)
 m=7.0, M=7.3(Up, Ki).

19 e 23 16 25

UPPSALA:

AEGLIAN SEA.
 Origin time= 23 12.5

20 eiP 00 43 08.5 D

D=16.5°

USCGS:

H: 00 39 15 ; 39.7 N; 25.2 E;
 AEGLIAN SEA.
 h: 33 Km.
 Mag: 4.9(CGS).

20 eiP 02 25 48.2 D

D=16.4°

USCGS:

H: 02 21 53.0; 39.6 N; 25.4 E;
 AEGLIAN SEA.
 h: 13 Km.
 Mag: 5.0(CGS).

B.C.I.S:

H: 02 21 52 ; 39.6 N; 25.5 E;
 ML=4.6(Athenes).

20 i P 02 32 27.3 D

D=85.0°

USCGS:

H: 02 19 49.6; 12.4 N; 46.9 W;
 NORTH ATLANTIC RIDGE.
 h: 13 Km.
 Mag: 5.6(CGS).

20 e P 03 26 46

i S 27 18

20 e P 09 39 45

D=16.8°

USCGS:

H: 09 35 50 ; 39.3 N; 24.9 E;
 AEGLIAN SEA.
 h: 33 Km.
 Mag: 4.4(CGS).

B.C.I.S:

H: 09 35 47 ; 39.5 N; 25.0 E;
 ML: 4.5(Athenes).

20 e P 09 45 06

D=16.8°

USCGS:

H: 09 41 09.6; 39.4 N; 24.9 E;
 AEGLIAN SEA.
 h: 33 Km.
 Mag: 4.7(CGS).

B.C.I.S:

H: 09 41 06 ; 39.5 N; 25.2 E;
 ML: 5.0(Athenes).

20 e P 16 54 18

e S 57 05

eiSS 57 21

D=15.2°

USCGS:

H: 16 50 43.3; 36.2 N; 27.5 E;
 DODECANESE ISLANDS.
 h: 53 Km.
 Mag: 4.9(CGS).

B.C.I.S:

H: 16 50 37 ; 36.2 N; 27.5 E;

20 i P 16 57 10.6

20 e P 20 48 11

i S 48 44

21 e P 00 02 36

i 03 25

e S 11 20

i 11 34

D=66.9°

USCGS:

20 H: 23 51 43.0; 32.0 N; 130.8 E;
 KYUSHU, JAPAN.
 h: 33 Km.
 Mag: 4.9(CGS).

UPPSALA:

(h:30Km), M:5.8(Up, Ki).

FEBRUARY 1968

21 eiP 01 55 47
eiPP 58 16
i S 02 04 42

D=66.8°

USCGS:

H: 01 44 50.5; 32.0 N;130.6 E;
KYUSHU, JAPAN.
h: 3 Km.
Mag: 5.0(CGS),

UFPSALA:

(h: 5 Km), M:6.2(Up, Ki).

21 eiP 09 10 32.5
eiSKS 21 01
eiS 21 07

D=86.3°

USCGS:

H: 08 57 49.1; 4.0 S;128.5 E;
BANDA SEA.
h: 18 Km.
Mag: 5.2(CGS).

21 i P 09 55 48.9 C
i S 56 14

21 eiP 12 46 41.6

D=78.2°

USCGS:

H: 12 34 42.7; 7.0 N;126.8 E;
MINDANAO, PHILIPPINE ISLANDS.
h: 39 Km.
Mag: 5.3(CGS).

21 eiP 19 21 04.1 C

D=83.5°

USCGS:

H: 19 08 39.3; 51.4 N;176.1 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 49 Km.
Mag: 4.7(CGS).

21 e P 19 42 30

D=83.5°

USCGS:

H: 19 30 04.9; 51.6 N;176.0 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 57 Km.
Mag: 4.7(CGS).

21 e P 19 44 50

D=83.5°

USCGS:

H: 19 32 32.2; 51.7 N;175.9 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 54 Km.
Mag: 4.8(CGS).

21 eiPKP 19 46 32.7

D=142.3°

USCGS:

H: 19 27 30.0; 30.2 S;179.0 W;
KERMADEC ISLANDS.
h: 228 Km.
Mag: 5.0(CGS).

21 e 20 45 16

21 i P 21 20 21.6 C
i S 30 43

D=83.5°

USCGS:

H: 21 07 56.9; 51.4 N;176.0 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 47 Km.
Mag: 5.2(CGS), 4.3-4.7(BRK), 5½-5¾(PAL).

21 e PP 21 27 11

ei 27 30.8

D=138.0°

USCGS:

H: 21 05 53.8; 20.4 S;177.9 W;
FIJI ISLANDS REGION.
h: 503 Km.
Mag: 5.5(CGS).

21 e P 23 33 25

D=84.5°

USCGS:

H: 23 20 53 ; 46.0 S; 33.3 E;
PRINCE EDWARD ISLANDS REGION.
h: 33 Km.
Mag: 5.1(CGS).

21 e P 23 39 02

D=31.7°

(cont.)

FEBUARY 1968

(cont.)

USCGS:

H: 23 32 37 ; 38.1 N; 86.9 E;
SOUTHERN SINKIANG PROV., CHINA.
h: 28 Km.
Mag: 4.7(CGS).

22 e P 02 20 31
D=15.8°

USCGS:

H: 02 16 41.0; 39.6 N; 25.7 E;
AEGEAN SEA.
h: 24 Km.
Mag: 4.3(CGS).

B.C.I.S:

H: 02 16 40 ; 39.7 N; 25.7 E;
ML: 4.2(Athenes).

22 e PKP 02 21 06
i 21 10
D=136.2°

USCGS:

H: 02 01 46.1; 44.4 S; 167.6 E;
SOUTH ISLANDS, NEW ZEALAND.
h: 33 Km.
Mag: 5.6(CGS).

22 e P 10 30 10
e S 39 03
ei 39 44
D=67.6°

USCGS:

H: 10 19 07.6; 32.0 N; 130.7 E;
KYUSHU, JAPAN.
h: 11 Km.
Mag: 4.9(CGS).

22 e P 17 20 43
i 20 47.4

UPPSALA:

IRAN.

22 eiP 17 59 22.2 C
e S 18 09 44
D=83.4°

USGGS:

H: 17 46 57.4; 51.4 N; 176.3 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 49 Km.
Mag: 5.1(CGS).

22 e P 18 26 24
D=83.4°

USCGS:

H: 18 13 59.3; 51.4 N; 176.2 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 66 Km.
Mag: 4.4(CGS).

22 e P 23 03 16
e S 03 45

23 e P 00 23 03
D=83.4°

USCGS:

H: 00 10 39.5; 51.5 N; 176.3 W;
ANDREANOF ISLANDS, ALEUTIAN IS.
h: 65 Km.
Mag: 4.6(CGS).

23 i P 16 27 26.2 C
D=89.6°

USCGS:

H: 16 14 41 ; 6.1 S; 130.5 E;
BANDA SEA.
h: 119 Km.
Mag: 5.1(CGS).

23 i P 20 54 42.0 D
i 54 43.5
i S 55 05.5

24 i PKP 01 30 44.8 D
i 31 08.8
i 31 13.6
micr sec
PKF Z' 1.0 1.6

D=143.9°

USCGS:

H: 01 11 11.6; 32.5 S; 177.7 W;
SOUTH OF KERMADEC ISLANDS.
h: 21 Km.
Mag: 5.4(CGS).

24 e P 11 05 33
e S 06 06

25 i P 10 36 29.2 D
D=67.9°

(cont.)

FEBRUARY 1968

(cont.)

USCGS:

H: 10 25 58.1; 45.0 N; 142.2 E;
 HOKKAIDO, JAPAN REGION.
 h: 295 Km.
 Mag: 5.1(CGS).

25 eiP 15 47 15.5
 D=32.2°

USCGS:

H: 15 40 44.8; 36.8 N; 5.6 E;
 ALGERIA.
 h: 20 Km.
 Mag: 4.9(CGS).

B.C.I.S:

H: 15 40 44 ; 36.5 N; 5.4 E;

25 eiP 18 20 44.5 C
 D=83.5°

USCGS:

H: 18 08 19.9; 51.4 N; 176.0 W;
 ANDREANOF ISLANDS, ALEUTIAN IS.
 h: 50 Km.
 Mag: 5.3(CGS), 5¼-5½(PAL), 5¼-5½(GOL).

25 eiP 20 11 46.2 C
 D=71.5°

USCGS:

H: 20 00 31.5; 37.6 N; 141.4 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 66 Km.
 Mag: 5.5(CGS).

26 iiP 11 00 59 C
 i 01 05.3
 i PcP 01 33.0
 i PP 03 26
 i PPP 05 01
 iiS 09 40
 i SS 13 34
 e PKPPKP 29 45

	micr	sec
P Z'	5	2.0
P Z	56.7	11
S Z	54.6	15
S N	63.6	15
S E	55.1	18
Mx Z	84.5	20

D=65°

USCGS:

H: 10 50 16.7; 22.7 N; 121.5 E;
 TAIWAN REGION.
 h: 24 Km.
 Mag: 6¼(PAS), 6.7-6.8(BRK), 6¼-7
 (PAL), 7¼-7½(GOL).

26 e 11 50 13
 27 i P 05 31 42.7
 i 31 54.0
 i 33 19.0
 e SKS 42 04
 i S 42 16
 i ScS 42 25
 D=86.0°

USCGS:

H: 05 19 00.5; 12.2 N; 140.7 E
 WEST CAROLINE ISLANDS.
 h: 19 Km.
 Mag: 5.5(CGS).

UPPSALA:

h: 40 Km(Up, Ki, Um).

27 eiP 11 07 19 D
 i pP 07 29.5
 eiS 17 52
 D=86.0°

USCGS:

H: 10 54 38.5; 12.1 N; 140.6 E;
 WEST CAROLINE ISLANDS.
 h: 33 Km.
 Mag: 5.4(CGS).

27 i P 21 57 09.7 D
 i S 57 13.5
 28 iiP 12 18 47.8 D
 i 18 57.5
 iipP 20 05
 i sP 20 44
 i PP 21 33
 iiS 27 39
 i SKS 28 16
 eiSP 29 19
 eiPS 29 55
 i 31 30

	micr	sec
P Z'	2.0	1.2
P N'	0.81	1.1
P E'	0.9	1.2

(cont.)

FEBUARY 1968

(cont.)

		micr	sec
P	Z	10.3	4
S	N'	7.8	3.0
S	E'	11	2.6
S	Z	9.3	8
S	N	20.5	5
S	E	31.9	5

D=71.6°

USCGS:

H: 12 08 01.5; 32.9 N; 137.7 E;
SOUTH OF HONSHU, JAPAN.
h: 349 Km.
Mag: 5.8(CGS), 5.8-6.2(BRK).

28 e P 18 42 52

D=81.0°

USCGS:

H: 18 30 40.7; 2.2 N; 126.6 E;
MOLUCCA PASSAGE.
h: 59 Km.

29 e P 15 57 28

D=71.6°

USCGS:

H: 15 46 18.2; 52.8 N; 157.5 E;
KAMCHATKA.
h: 151 Km.
Mag: 5.4(CGS).

29 eiP 16 43 32.5

D=78.6°

USCGS:

H: 16 31 34.4; 2.9 S; 119.6 E;
CELEBES.
h: 50 Km.
Mag: 5.4(CGS).

29 eiP 17 17 08.5
eiS 17 28
29 eiPKP 23 54 46.0 D
i 54 48.3
D=123.7°

USCGS:

H: 23 36 08.5; 14.6 S; 167.2 E;
NEW HEBRIDES ISLANDS.
h: 183 Km.
Mag: 4.9(CGS).

JANUARY 1969

M.S.Nabavi

A.Anzabi

INSTITUTE OF GEOPHYSICS
 TEHRAN UNIVERSITY, IRAN

8 APR 1969

 THE SEISMOLOGICAL BULLETIN OF
 SEISMOLOGICAL OBSERVATORY OF TABRIZ

MARCH 1968

1	e	14 38 51	3	i P	23 06 51.5	D
2	e	02 53 16		i	08 22.0	
	ei	57 26		i pP	08 32	
2	e P	11 16 58		i	08 38	
2	eiP	16 25 42		i	09 19.5	
				i	09 23.5	
				i S	16 10.5	
				i ScS	16 25	
				i	19 23	

D=45.0°

USCGS:

 H: 16 17 29.0; 29.9 N; 100.2 E;
 SZECHWAN PROVINCE, CHINA.
 h: 24 Km.
 Mag: 5.1(CGS).

2	i P	22 11 16.2	D
	eiPP	13 14	
	i S	18 28	
	eiSS	22 02	

micr sec

Mx Z	12	16
Mx N	13.0	16
Mx E	7.7	16

D=48.9°

USCGS:

 H: 22 02 24.8; 6.1 S; 71.4 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 33 Km.
 Mag: 5.6(CGS).

2	i P	23 49 18.4	C
	i PcP	49 25.0	
		micr sec	
	P Z'	0.08	1.0

D=81.0°

USCGS:

 H: 23 37 15.2; 4.0 N; 128.0 E;
 NORTH OF HALMAHERA.
 h: 129 Km.
 Mag: 5.2(CGS).

3	i P	04 35 40
	i S	35 55.8
3	e P	09 36 06

D=21.2°

USCGS:

 H: 09 31 20.2; 34.7 N; 72.3 E;
 WEST PAKISTAN.
 h: 33 Km.
 Mag: 5.2(CGS).

		micr	sec
P Z'	0.13	1.7	
P Z	3.8	3	
pP Z'	1.0	1.3	
S N'	4.5	2.5	
S E'	2.0	2	
S N	24	4	
S E	6.4	4	

D=78.2°

USCGS:

 H: 22 55 36.8; 1.6 N; 122.6 E;
 NORTHERN CELEBES.
 h: 435 Km.
 Mag: 5.5(CGS).

4	e P	05 02 18
	eiS	02 30.8
5	e P	00 34 45
	ei	45 26

D=85.0°

USCGS:

 H: 00 22 06.9; 53.8 N; 163.3 W;
 UNIMAK ISLAND REGION.
 h: 2 Km.
 Mag: 4.8(CGS).

5	i P	00 43 32	C
	e	54 09	

D=85.0°

USCGS:

 H: 00 30 57.4; 53.8 N; 163.3 W;
 UNIMAK ISLANDS REGION.
 h: 33 Km.
 Mag: 4.9(CGS).

5	i P	13 03 10.4
	i	03 20.4
	i S	04 08.8
5	i P	14 09 51
	i S	10 10.3

MARCH 1968

5 e P 15 12 24
 e S 12 35

5 i P 18 28 24.4 C
 i S 38 08

micr sec
 Mx Z 15.3 22
 Mx N 23.6 21
 Mx E 11.4 21

D=76.3°

USCGS:

H: 18 16 39.6; 9.6 N; 126.3 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 61 Km.
 Mag: 5.5(CGS), 6-6½(GOL), 5¼-6
 (PAL).

UPPSALA:

h: 60 Km.
 m=6.3, M=6.1(Up, Ki).

5 i P 18 49 50.8 C
 micr sec
 Mx Z 10 21
 Mx N 10.1 21
 Mx E 7.1 21

D=76.3°

USCGS:

H: 18 38 06.3; 9.6 N; 126.2 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 60 Km.
 Mag: 5.4(CGS).

UPPSALA:

h: 60 Km.
 m=6.2, M=6.0(Up, Ki).

5 eiSKP 21 43 05

D=129.2°

USCGS:

H: 21 20 49.8; 21.8 S; 170.9 E;
 LOYALTY ISLANDS REGION.
 h: 86 Km.
 Mag: 5.3(CGS).

6 e P 00 23 48
 e 24 08

D=71.2°

USCGS:

H: 00 12 33.1; 36.2 N; 139.8 E;
 HONSHU, JAPAN.
 h: 53 Km.
 Mag: 5.0(CGS).

6 e P 03 02 21
 eiS 03 12

7 i 07 29 13 C
 i 30 54
 i S 35 34
 i SS 38 30

micr sec
 S N 5.2 13
 S E 3.4 11
 Mx Z 20.5 17
 Mx N 20.1 16
 Mx E 6.7 17

D=41.9°

USCGS:

H: 07 21 06.5; 71.7 N; 3.1 W;
 JAN MAYEN ISLAND REGION.
 h: 26 Km.
 Mag: 4.6(CGS).

BCIS :

H: 07 21 16 ; 71.5 N; 4.3 E;
 M: 5.8(Quetta), MLH: 5.5 STR, 5.0
 (Moxa).

UPPSALA:

m: 5.2(Up), M: 5.3(Up, Ki).

7 eiP 13 36 23 C
 i PP 40 48
 ei 47 16
 i 50 08

micr sec
 Mx Z 16 21
 Mx N 11.7 24
 Mx E 10 21

D=105.2°

USCGS:

H: 13 22 16.6; 5.9 S; 151.1 E;
 NEW BRITAIN REGION.
 h: 39 Km.
 Mag: 6½(PAS), 6.2-6.5(BRK).

7 i P 19 44 48.7 C

8 e P 00 26 12
 i S 26 29.0

8 eiP 19 59 14 C

D=76.6°

USCGS:

H: 19 47 27.1; 9.4 N; 126.5 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 50 Km.
 Mag: 4.8(CGS).

MARCH 1968

 8 e P 20 29 50
 i S 30 10.5

 8 e P 20 43 11
 i S 43 19

 8 i P 22 53 35.5 C
 i S 53 43.5

9 e P 00 51 21

 9 e P 00 55 06
 ei 57 13
 eiS 01 02 24

D=51.9°

USCGS:

 H: 00 46 00.9; 8.7 N; 94.0 E;
 NICOBAR ISLANDS REGION.
 h: 33 Km.
 Mag: 5.0(CGS).

9 ei 03 38 06

D=108.1°

USCGS:

 H: 03 19 23.7; 5.6 S; 154.0 E;
 SOLOMON ISLANDS.
 h: 86 Km.
 Mag: 5.7(CGS).

9 e 06 38 08

D=86.2°

USCGS:

 H: 06 25 24.5; 12.2 N; 141.0 E;
 SOUTH OF MARIANA ISLANDS.
 h: 38 Km.
 Mag: 4.8(CGS).

 9 e P 14 50 19
 e S 50 41

 9 e P 15 03 25
 eiS 11 28

D=58.7°

USCGS:

 H: 14 53 21 ; 18.0 S; 65.8 E;
 MASCARENE ISLANDS REGION.
 h: 33 Km.
 Mag: 4.7(CGS).

 10 e P 04 01 50
 e S 12 08

D=82.5°

USCGS:

 H: 03 49 25.0; 52.1 N; 177.3 W;
 ANDREANOF ISLANDS, ALEUTIAN IS.
 h: 7 Km.
 Mag: 5.4(CGS), 4.8-5.1(BRK), 5¼-
 5¾(PAL).

10 e 04 56 21

 10 e 06 52 21
 e 55 42

D=17.3°

USCGS:

 H: 06 48 16.4; 39.1 N; 24.3 E;
 AEGEAN SEA.
 h: 33 Km
 Mag: 4.4(CGS).

BCIS :

 H: 06 48 14 ; 38.9 N; 24.3 E;
 M=5.0(Athenes).

 10 eiP 07 15 06
 i S 18 31

	micr	sec
Mx Z	32.7	10
Mx N	46	14
Mx E	29.2	10

D=17.3°

BCIS :

 H: 07 10 57 ; 39.0 N; 24.2 E;
 EAGIAN SEA.
 M=5½(Athenes).

UPPSALA:

m=5.5, M=5.4(Up, Ki).

10 i P 07 29 17.2

10 e 19 57 52

10 e P 20 25 22

D=76.8°

USCGS:

 H: 20 13 36.5; 9.5 N; 126.3 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 69 Km.
 Mag: 5.2(CGS).

10 eiP 22 24 34.4

11 eiPKP 08 45 39.0

iiX 45 48.0

i 45 51.5

eipPKP 46 12.5

i PP 48 37

MARCH 1968

(cont.)

iiSKP	49	16
i PKS	49	24
i sSKP	50	06
	micr	sec
X Z	4.4	7
SKPZ	9.3	8

D=138.5°

USCGS:

H: 08 26 32.8; 16.2 S; 173.9 W;
 TONGA ISLANDS.
 h: 112 Km.
 Mag: 6.0(CGS), 6½-6¾(PAS), 6-6.3
 (BRK).

11 e P 10 05 44
 i S 06 27

11 eiP 18 37 17

D=80.9°

USCGS:

H: 18 25 13.3; 52.1 N; 178.2 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.
 h: 121 Km.
 Mag: 5.2(CGS).

11 eiP 21 58 46.8
 eiS 59 05.5

12 eiP 19 37 14.8
 eiS 38 03

13 e P 00 55 03

D=5¾°

BCIS :

H: 00 53 37 ; 39¾ N; 40½ E;
 TURKEY.

13 e P 21 50 30
 e S 50 59

13 eiP 22 42 20
 i 42 32.0
 i 42 42.2

D=16.0°

USCGS:

H: 22 38 38.9; 42.4 N; 66.5 E;
 CENTRAL KAZAKH SSR.
 h: 33 Km.
 Mag: 5.2(CGS).

14 eiP 02 12 17.8
 i 12 25.3
 i 12 36.5

D=16.0°

USCGS:

H: 02 08 36.6; 42.3 N; 66.5 E;
 CENTRAL KAZAKH SSR.
 h: 33 Km.
 Mag: 5.4(CGS).

15 e P 06 47 22
 eiS 58 03
 eiPS 59 12
 e SS 07 03 52
 micr sec
 Mx Z 12.1 21
 Mx N 11.2 20
 Mx E 4.6 21

D=88.3°

USCGS:

H: 06 34 31.9; 41.9 S; 88.4 E;
 SOUTHEAST INDIAN RISE.
 h: 33 Km.
 Mag: 5.2(CGS).

16 i P 09 18 01.5
 i S 18 48

16 e P 18 15 02

D=16.9°

USCGS:

H: 18 11 06.5; 39.5 N; 25.0 E;
 AEGEAN SEA.
 h: 43 Km.
 Mag: 4.6(CGS).

17 i P 20 26 46 C
 i PcP 26 51.7
 i 27 09

micr sec
 P Z' 0.62 1.0
 P N' 0.13 1.0
 P E' 0.18 1.0
 P Z 3.2 6.0

D=81.4°

USCGS:

H: 20 14 32.8; 3.4 N; 128.1 E;
 NORTH OF HALMAHERA.
 h: 62 Km.
 Mag: 5.7(CGS).

MARCH 1969

M.S.Nabavi

A.Anzabi

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

APRIL 1968

1 i P 00 53 01.7 C
eiPKPPKP 01 21 19
D=67.9°

USCGS:

H: 00 42 04.2; 32.5 N; 132.2 E;
SHIKOKU, JAPAN.
h: 33 Km.
Mag: 7½-7¼(PAS), 7.3-7.7(BRK),
7¼-7½(GOL).

1 i P 07 24 15.5 C
i PcP 24 42
i PP 26 45
i PPP 28 23
eiPS 33 37
i 34 20
i SS 37 34

	micr	sec
P Z'	2.0	2.2
P Z	13.6	9
Mx Z	50.7	20
Mx N	59.9	17
Mx E	33.3	16

D=67.9°

USCGS:

H: 07 13 17.6; 32.3 N; 132.1 E;
SHIKOKU, JAPAN.
h: 32 Km.
Mag: 5.7(CGS), 5.9-6.3(BRK).

1 i P 08 47 40.0 C
2 ei 09 50 16
3 e 13 40 35

D=6.0°

USCGS:

H: 13 38 48 ; 32.5 N; 48.9 E;
WESTERN IRAN.
h: 34 Km.
Mag: 4.5(CGS).

3 eiP 16 36 51
eiSKS 47 06

D=79.7°

USCGS:

H: 16 24 45.7; 51.7 N; 174.2 E;
NEAR ISLANDS, ALEUTIAN ISLANDS.
h: 38 Km.
Mag: 5.3(CGS).

UPPSALA:

m=6.3(Up, Ki).

4 i P 00 28 42.8 D
4 e 01 46 58
4 eiP 01 49 16
eiS 53 13

D=21.5°

USCGS:

H: 01 44 26.4; 24.6 N; 66.0 E;
WEST PAKISTAN.
h: 33 Km.
Mag: 5.0(CGS).

4 e 21 47 46
4 e 21 51 10
5 e P 08 15 37
i S 16 12.5
6 e P 21 53 07
i S 22 02 50

D=76.1°

USCGS:

H: 21 41 17.9; 7.4 N; 124.3 E;
MINDANAO, PHILIPPINE ISLANDS.
h: 17 Km.
Mag: 5.1(CGS).

6 e P 23 00 18

D=80.8°

USCGS:

H: 22 48 06.8; 51.4 N; 176.6 E;
RAT ISLANDS, ALEUTIAN ISLANDS.
h: 42 Km.
Mag: 4.7(CGS).

UPPSALA:

m=5.9(Up, Ki).

APRIL 1968

7 ei 03 52 14

D=17.2°

USCGS:

 H: 03 42 00 ; 38.4 N; 24.5 E;
 AEGEAN SEA.
 h: 33 Km.
 Mag: 4.3(CGS).

7 e P 04 52 30

eiSKS 05 02 44

D=80.8°

USCGS:

 H: 04 40 19.3; 51.5 N; 176.5 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.
 h: 33 Km.
 Mag: 5.3(CGS).

8 ei 14 19 33

9 e 01 19 49

9 ei 02 43 22

i PP 47 43

i 47 51

i 54 06

i 55 28

i 57 02

i 03 02 58

micr sec

P Z 7.1 8

D=107.1°

USCGS:

 H: 02 28 58.9; 33.1 N; 116.1 W;
 SOUTHERN CALIFORNIA.
 h: 20 Km.
 Mag: 6.1(CGS), 6.5(PAS), 6.8-7.2
 (BRK), 6¼(GOL).

9 e(PKP) 11 45 39

i 45 50.0

i 45 52.6

D=136.3°

USCGS:

 H: 11 27 39.0; 17.8 S; 178.2 W;
 FIJI ISLANDS REGION.
 h: 650 Km.
 Mag: 5.2(CGS).

10 e P 01 22 30

e S 27 39

D=31.7°

USCGS:

 H: 01 16 04 ; 8.3 N; 58.9 E;
 CARLSBERG RIDGE.
 h: 33 Km.
 Mag: 4.9(CGS).

10 e P 11 07 03

10 e(PKP) 18 51 16

ei 51 18.5

eiPP 53 34

eiPKS 54 41

D=130.1°

USCGS:

 H: 18 32 09.6; 22.6 S; 171.5 E;
 LOYALTY ISLANDS REGION.
 h: 60 Km.
 Mag: 5.1(CGS), 5.2-5.6(BRK).

11 i P 00 32 28.2 C

i 32 45.0

micr sec

P Z' 0.28 1.0

D=85.6°

USCGS:

 H: 00 19 52.4; 4.0 S; 127.6 E;
 BANDA SEA.
 h: 56 Km.
 Mag: 5.4(CGS).

12 i P 00 18 42.3 C

12 e P 10 38 10

D=18.2°

USCGS:

 H: 10 33 58.3; 36.7 N; 69.1 E;
 HINDU KUSH REGION.
 h: 67 Km.

12 e P 20 52 41

e S 53 03

13 e P 10 10 55

e S 11 21

APRIL 1968

13 e P 12 08 15
 i S 08 54.5
 13 i P 18 40 21.2 C
 micr sec
 P Z 0.22 1.1
 D=77.9°

USCGS:

H: 18 28 34 ; 7.3 N; 126.6 E;
 MINDANAO PHILIPPINE ISLANDS.
 h: 123 Km.
 Mag: 5.0(CGS).

13 e P 20 39 56
 e S 40 30
 14 eiP 08 48 46
 eiS 58 17
 D=73.9°

USCGS:

H: 08 37 12.2; 33.4 N; 141.4 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 44 Km.
 Mag: 5.4(CGS).

14 i P 13 16 41.5 C
 eiS 26 12
 micr sec
 P Z 2.6 8
 Mx Z 4.7 16
 D=73.9°

USCGS:

H: 13 05 08.0; 33.4 N; 141.4 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 41 Km.
 Mag: 5.4(CGS).

15 i P 13 13 33.6
 17 i P 03 29 14.5
 i S 29 41
 17 eiP 06 42 03
 17 e P 09 55 13
 ei 58 50
 D=20.0°

USCGS:

H: 09 50 39.1; 36.3 N; 71.4 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 94 Km.
 Mag: 4.8(CGS).

17 ei 11 59 53
 17 e P 13 15 54
 ei 19 36
 D=20.1°

USCGS:

H: 13 11 26.2; 36.4 N; 71.5 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 113 Km.
 Mag: 5.2(CGS).

18 ei 12 59 19
 18 e 16 00 45
 19 e P 15 46 33
 19 e P 20 20 25
 i S 20 43.4
 20 ei 03 30 36
 20 i P 10 27 41 C
 eiS 35 30
 ei 39 24
 D=55.8°

USCGS:

H: 10 18 01.1; 38.3 N; 26.6 W;
 AZORES ISLANDS.
 h: 33 Km.
 Mag: 5.1(CGS).

BCIS :

H: 10 18 02 ; 38.3 N; 26.6 W;
 20 e 12 44 27
 eiPKP 44 33
 i PP 47 30
 i (SKP 48 11
 i (PKS micr sec
 Mx Z 9.1 24
 Mx N 9.5 24
 Mx E 5.3 24
 D=139.1°

USCGS:

H: 12 25 10.1; 15.7 S; 172.6 W;
 SAMOA ISLANDS REGION.
 h: 30 Km.
 Mag: 5.7(CGS), 6(PAS), 5.8-6(BRK)
 6-6¼(GOL).

21 i P 08 45 25 C
 i 45 41
 i PP 48 04

(cont.)

APRIL 1968

(cont.)

i pPP	48	15
eiPPP	49	51
eiS	54	43
i	55	21

	micr	sec
P Z	5.7	7
Mx Z	29.3	15
Mx N	24	16
Mx E	14.7	15

D=72.0°

USCGS:

H: 08 34 03.5; 38.6 N; 143.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 42 Km.
 Mag: 5.3(CGS).

21 e P 21 14 38

D=24.5°

USCGS:

H: 21 09 47.0; 39.8 N; 14.9 E;
 TYRRHENIAN SEA.
 h: 311 Km.
 MB: 4.3(CGS).

22 e P	15	39	20
i S	39	47.5	

22 e P	16	35	06
i S	35	18	

23 eiP	06	49	40
--------	----	----	----

D=20.1°

USCGS:

H: 06 45 11.5; 36.3 N; 71.2 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 114 Km.
 Mag: 5.2(CGS).

23 eiP	12	43	01
	micr	sec	
Mx Z	27.5	12	
Mx N	18.8	12	
Mx E	17.2	11	

D=13.6°

USCGS:

H: 12 39 47.3; 27.7 N; 56.7 E;
 SOUTHERN IRAN.
 h: 52 Km.
 MB: 5.1(CGS).

23 eiP	19	28	26.7
--------	----	----	------

D=83.4°

USCGS:

H: 19 16 07.9; 0.4 S; 127.6 E;
 HALMAHERA.
 h: 89 Km.
 Mag: 5.2(CGS).

23 i P	20	41	38.8	D
--------	----	----	------	---

i (PcP)	41	44.5
i (pP)		

eiS	51	51
-----	----	----

iiX	51	58
-----	----	----

i	52	10
---	----	----

i	52	41
---	----	----

e PKPPKP	21	07	46
----------	----	----	----

	micr	sec
--	------	-----

P Z'	4.1	2.5
------	-----	-----

P Z	11.8	4.5
-----	------	-----

X Z	6.1	7
-----	-----	---

X N	11.2	9
-----	------	---

X E	4.5	6.4
-----	-----	-----

Mx Z	22.4	19
------	------	----

Mx N	16.6	19
------	------	----

Mx E	15.0	18
------	------	----

D=82.6°

USCGS:

H: 20 29 14.5; 58.7 N; 150.0 W;
 GULF OF ALASKA.
 h: 23 Km.
 Mag: 6.3(CGS), 6-6¼(PAS), 5.1-6.1
 (BRK), 6-6¼(GOL).

24 eiP	03	12	52	D
--------	----	----	----	---

	micr	sec
--	------	-----

P Z'	0.41	1.5
------	------	-----

D=47.6°

USCGS:

H: 03 04 17.3; 5.1 S; 68.3 E;
 CHAGOS ARCHIPELAGO REGION.
 h: 33 Km.
 Mag: 4.9(CGS).

24 i P	08	22	01	D
--------	----	----	----	---

i(S)	25	20
------	----	----

D=16.8°

USCGS:

H: 08 18 02.5; 39.3 N; 24.9 E;

APRIL

1968

(cont.)

AEGEAN SEA.

h: 17 Km.

Mag: 5.2(CGS).

BCIS:

 H: 08 18 03 ; 39.3 N; 24.9 E;
 MS:5.8(Athenes).

24 i P 09 52 12.2

i S 52 32.7

24 i P 19 40 23.8 D

micr sec

P Z' 0.65 1.5

D=47.6°

USCGS:

 H: 19 31 49.5; 5.0 S; 68.4 E;
 CHAGOS ARCHIPELAGO REGION.

h: 33 Km.

Mag: 5.2(CGS).

UPPSALA:

h=30 Km.

 m=5.7(U_p,Ki).

24 e P 23 57 37

25 eiS 00 08 18

D=88.5°

USCGS:

 H: 23 44 46.2; 6.9 S;129.2 E;
 BANDA SEA.

h: 52 Km.

Mag: 5.1(CGS).

25 e 03 36 06

25 i P 04 37 02.7

i S 37 38

25 e P 13 09 23

i S 10 03

25 e 21 44 46

eiPKP 45 01

e PP 47 56

eiPKS 48 37

micr sec

PKP Z 1.4 8

Mx Z 4.5 24

Mx N 4.1 23

Mx E 4.2 25

D=138.4°

USCGS:

 H: 21 25 36.1; 15.2 S;173.1 W;
 TONGA ISLANDS.

h: 33 Km.

Mag: 5.2(CGS).

26 e 01 01 47

i 02 00

eiPP 04 53

eiSKP 05 36

eiPPP 07 53

D=138.4°

USCGS:

 H: 00 42 34.9; 15.3 S;173.1 W;
 TONGA ISLANDS.

h: 33 Km.

Mag: 5.3(CGS).

26 i P 02 59 29.3 C

i 59 46.5

D=4.3°

USCGS:

 H: 02 58 22.1; 35.1 N; 50.2 E;
 IRAN.

h: 21 Km.

MB: 5.3(CGS).

BCIS :

 H: 02 58 19 ; 35.2 N; 50.2 E;
 N-E of IRAN South of Kazwin(Cf.
 destructive earthquake of 1st
 September 1962 at 19 h,20 mn.)

26 eiP 13 26 36 C

eiS 35 48

D=70.3°

USCGS:

 H: 13 15 23.3; 0.2 S; 18.2 W;
 CENTRAL MID-ATLANTIC RIDGE.

h: 33 Km.

Mag: 5.2(CGS).

26 e 13 32 39

D=71.6°

USCGS:

 H: 13 21 13.0; 37.4 N;141.4 E;
 NEAR EAST COAST OF HONSHU, JAPAN.

h: 67 Km.

Mag: 5.2(CGS).

APRIL 1968

26 i PP 18 07 50
 eiPS 17 36
 micr sec
 Mx Z 13 18
 Mx N 11 18

D=116.7°

USCGS:

H: 17 48 02.3; 18.7 N; 103.3 W;
 NEAR COAST OF MICHOACAN, MEXICO.
 h: 65 Km.
 Mag: 5.5(CGS), 5.5-5.9(BRK).

26 e P 18 19 58

26 eiP 23 21 36

D=86.0°

USCGS:

H: 23 08 55.1; 10.0 N; 139.0 E;
 WEST CAROLINE ISLANDS.
 h: 21 Km.
 Mag: 4.9(CGS).

28 eiP 04 30 49

D=85.2°

USCGS:

H: 04 18 15.7; 44.8 N; 174.5 E;
 NORTH PACIFIC OCEAN.
 h: 39 Km.
 MB: 5.5(CGS).

29 e P 16 42 45

eiS 43 06

29 eiP 16 45 46.5

i S 46 15.0

29 i P 17 02 29.0 C

D=2.0°

USCGS:

H: 17 01 57.6; 39.2 N; 44.3 E;
 N.W. IRAN-USSR BORDER REGION.
 h: 34 Km.
 MB: 5.3(CGS).

BCIS :

H: 17 01 51 ; 39.3 N; 44.6 E;
 MSH=6.1(Collm), MLH=5.6(Collm),
 MPV=5.5(Bensberg), MLH=5.4(Pru-
 honice), 5.3(Praha).

29 i P 18 39 36.4 D
 i S 40 07.0

29 e P 18 47 41
 e S 48 06

29 i P 19 57 46.2 D

29 e P 23 05 35

MARCH 1969

M.S.Nabavi

A. Anzabi

15 MAY 1969

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

MAY 1968

1 i PKP 00 10 28.6
i PKS 13 56
D=131.7°

USCGS:

4/30 H: 23 51 17.9; 38.4 S; 71.1 W;
S.CHILE-ARGENTINA BORDER REGION.
h: 40 Km.
MB: 5.9, MS: 5.1(CGS).

1 e P 05 46 47

1 eiP 08 55 11 C
e 59 31
eiSKS 09 05 07
D=72.0°

USCGS:

H: 08 43 47.4; 38.6 N; 143.1 E;
OFF EAST COAST OF HONSHU, JAPAN.
h: 36 Km.
Mag: 5.3(CGS).

UPPSALA:

(h=40 Km).m=6.1(Up,Ki).

1 e P 09 06 56
i S 07 06.0

1 eiP 09 18 03.3
i S 18 19

1 e P 19 24 10
D=70.4°

USCGS:

H: 19 12 53.4; 40.9 N; 142.5 E;
NEAR EAST COAST OF HONSHU, JAPAN.
h: 18 Km.
Mag: 4.9(CGS).

1 eiP 23 41 40.4
i S 42 12.0

2 e P 00 33 37
D=40.3°

USCGS:

H: 00 26 02.9; 26.2 N; 92.2 E;
EASTERN INDIA.
h: 53 Km.
MB: 4.8(CGS).

UPPSALA:

h: 40 Km(Up,Sk,Um,Ka,Ud).

2 e P 10 03 09
i S 04 34

2 eiP 13 53 12.4
e S 53 37

2 i P 23 38 46.8 C
i PcP 38 49.4
eipP 39 16
eisP 39 25.5
i SKS 49 02
i S 49 23
i 50 18

micr sec

P Z' 0.41 1
P Z 7.8 5.5
S N 10.1 6
S E 5.5 5

D=88.9°

USCGS:

H: 23 26 03.6; 6.4 S; 129.9 E;
BANDA SEA.
h: 128 Km.
Mag: 5.5(CGS).

3 i P 05 43 25.4 D
i pP 43 49
i PcP 43 52
i S 52 07
i 52 53
i 53 04

micr sec

P Z' 2.2 2.0
P Z 3.4 4.0
S N 3.8 7.0
S E 3.5 7.0

MAY 1968

(cont.)

D=66.1°

USCGS:

 H: 05 32 45.7; 25.1 N; 124.6 E;
 NORTHEAST OF TAIWAN.

h: 98 Km.

Mag: 5.8(CGS).

4	e P	18 36 45
	e S	37 16
4	e P	21 34 44
4	e P	22 21 27

D=79.9°

USCGS:

 H: 22 09 20.1; 3.6 N; 126.3 E;
 TALAUD ISLANDS.

h: 46 Km.

MB: 5.4(CGS).

5	e P	06 04 43
	e S	05 07
5	e P	06 08 37
	e S	09 03
6	e P	00 23 50
6	e P	20 54 02
	ei	57 40

D=19.5°

USCGS:

 H: 20 49 45.5; 36.5 N; 70.8 E;
 HINDU KUSH REGION.

h: 231 Km.

MB: 5.0(CGS).

7	e P	23 50 34
	e S	50 52
8	e P	05 16 14
8	eiPKP	11 19 19 C
	ei(PP)	21 41
	(SKP	
	ei(PKS	22 46

D=132.3°

USCGS:

 H: 11 00 07.4; 58.0 S; 157.7 E;
 MACQUARIE ISLAND REGION.

h: 33 Km.

MB: 5.7(CGS), Mag: 5¾(GOL).

8	i P	12 18 53.8
	i S	19 19.2

8	e PP	12 34 52
	eiSKS	41 21
	i	41 39
	i SS	49 02

micr sec

Mx Z 18.7 20

Mx N 22.5 20

Mx E 8.2 18

D=98.5°

USCGS:

 H: 12 17 13.4; 43.6 N; 127.9 W;
 OFF COAST OF OREGON.

h: 33 Km.

MB: 6.1(CGS), Mag: 6¼-6½(PAL).

8	e P	21 13 55
	eiS	14 10
8	i P	22 49 34.6 D
	i	49 45.0
	i	50 18.5
	ei	53 22

D=20.3°

USCGS:

 H: 22 45 08.3; 37.1 N; 71.9 E;
 AFGHANISTAN-USSR BORDER REGION.

h: 160 Km.

MB: 5.1(CGS).

UPPSALA:

h: 230 Km(Gb, Ka, Ud).

m=5.3(Up, Ki).

9	e P	09 05 49
9	e P	21 54 02
9	e P	23 08 48
10	e P	09 34 12
	ei	34 17
	e	38 20
	eiS	42 51

D=64.4°

USCGS:

 H: 09 23 31.5; 24.3 N; 121.8 E;
 TAIWAN.

h: 21 Km.

MB: 4.8(CGS).

MAY 1968

 10 ei 15 20 05
 e 24 03
 eiS 28 40

D=64.4°

USCGS:

 H: 15 09 20.6; 24.3 N; 121.9 E;
 TAIWAN.
 h: 26 Km.
 MB: 4.8(CGS).

 10 e P 18 49 07
 e S 49 32

 10 e P 20 43 51
 e 47 58
 eiS 52 32

D=64.5°

USCGS:

 H: 20 33 13.2; 24.3 N; 122.0 E;
 TAIWAN REGION.
 h: 20 Km.
 MB: 4.9 (CGS).

10 e 23 07 31

10 e 23 10 56

11 e 00 15 40

11 e 00 34 30

 11 e P 06 31 21
 e S 31 41

 11 e P 11 30 53
 e S 31 16

 11 eiP 12 13 46.5
 i 14 11.0

D=4.0°

USCGS:

 H: 12 12 41 ; 41.0 N; 49.8 E;
 CASPIAN SEA.
 h: 16 Km.
 MB: 5.0(CGS).

11 e PP 15 51 53

D=103.0°

USCGS:

 H: 15 33 41.2; 6.4 S; 147.3 E;
 EAST NEW GUINEA REGION.
 h: 76 Km.
 MB: 5.5(CGS).

 11 eiP 21 43 20.0
 i S 43 52.2

 12 e P 03 36 25
 i S 36 54.5

 12 eiP 05 15 22
 i S 15 49.6

 12 i P 05 16 57.6
 i S 17 23.0

 12 e P 06 21 35
 i S 22 06.4

 12 e P 12 43 52
 i S 44 09.5

 13 e P 02 48 25
 i 49 54.5

D=7.1°

USCGS:

 H: 02 46 35.7; 43.5 N; 40.3 E;
 WESTERN CAUCASUS.
 h: 5 Km.
 MB: 5.1(CGS).

BCIS :

 H: 02 46 35 ; 43.7 N; 40.1 E;
 MLH=4.5(Moxa).

 13 e P 18 23 54
 e S 24 26

 14 i P 05 19 21.0
 i S 19 43

14 e P 11 16 51

14 iiP 14 15 44 C

i PcP 16 10

i 16 36

i PP 18 14

i 18 52

eiS 24 19

i 24 30

i 25 14

i (ScS) 25 25

i (SKS) 25 25

i 25 32

i 33 18

micr sec

P Z 29.3 14

P N 4.7 12

P E 8.9 8

D=67.2°

(cont.)

MAY

1968

USCGS:

 H: 14 05 06.0; 29.9 N; 129.4 E;
 RYUKYU ISLANDS.

h: 168 Km.

 MB: 5.9(CGS), Mag: 6½(PAS), 5.6-
 6(BRK), 5½(PAL).

14	eiP	23 00 39.4	
	i S	01 12	
15	i P	08 01 02	D
	i pP	01 11.0	
	i S	08 57	
	i	09 01	
		micr sec	
	Mx Z	12.4 19	
	Mx N	11.0 19	

D=57.0°

USCGS:

 H: 07 51 17.4; 15.9 S; 25.9 E;
 ZAMBIA.

h: 33 Km.

MB: 6.1(CGS).

15	eiPKP	15 20 01	D
		micr sec	
	PKP Z	3.1 6	
	Mx Z	12 20	
	Mx N	11.2 20	
	Mx E	6.3 20	

D=141.8°

USCGS:

 H: 15 00 29.9; 29.8 S; 179.0 W;
 KERMADEC ISLANDS.

h: 33 Km.

MB: 5.1(CGS), Mag: 6.6-6.9(BRK).

UPPSALA:

m= 6.2, M= 6.6(Up, Ki).

15	e P	23 51 12	
16	i P	01 00 14.6	C
	i PcP	00 35.0	
	i	00 47.2	

D=70.9°

USCGS:

 H: 00 48 55.4; 40.8 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.

h: 7 Km.

 MS: 7.9(CGS), Mag: 8.2(PAS), 7.9
 (BRK), 8.4(PAL), 8.0(GOL).

16	eiP	01 16 09	
		D=70.8°	

USCGS:

 H: 01 04 54 ; 40.7 N; 143.1 E;
 OFF EAST COAST OF HONSHU, JAPAN.

h: 33 Km.

Mag: 5.7(CGS).

16	eiP	02 21 37	
	i S	22 09.5	
16	e	03 12 30	
	e	13 04	
16	e P	05 50 11	
	i S	50 45.3	
16	eiP	06 48 04.8	

D=70.6°

USCGS:

 H: 06 36 51.0; 41.1 N; 143.0 E;
 HOKKAIDO, JAPAN REGION.

h: 35 Km.

MB: 5.7(CGS).

UPPSALA:

h: 45 Km(Ki, Ka, Ud).

m=6.1, M=5.9(Up, Ki).

16	e P	08 00 14	
		D=70.4°	

USCGS:

 H: 07 49 01.5; 41.3 N; 142.6 E;
 HOKKAIDO, JAPAN REGION.

h: 38 Km.

MB: 5.1(CGS).

16	i P	09 09 25	D
	eiS	18 32	
	ei	19 23	
		D=70.4°	

USCGS:

 H: 08 58 11.1; 41.4 N; 142.7 E;
 HOKKAIDO JAPAN REGION.

h: 15 Km.

MB: 5.4(CGS).

UPPSALA:

h: 45 Km(Ki).

m=6.1, M=6.1(Up, Ki).

MAY 1968

16 i P 10 50 13 D
 eiPKPPKP 11 18 10
 D=70.2°

USCGS:

H: 10 39 01.6; 41.5 N; 142.7 E;
 HOKKAIDO, JAPAN REGION.
 h: 33 Km.
 Mag: 7(PAS), 7.3(BRK), 7(PAL),

16 e P 12 20 47
 D=70.6°

USCGS:

H: 12 09 31.9; 41.1 N; 143.0 E;
 HOKKAIDO JAPAN REGION.
 h: 24 Km.
 MB: 5.1(CGS).

UPPSALA:

h: 40 Km(Up, Ki, Ud).

16 i P 16 25 06.0 C
 i pP 25 16.0
 i PP 27 44
 i S 34 26
 i 39 16
 micr sec
 P Z 11 8
 D=71.7°

USCGS:

H: 16 13 45.1; 39.7 N; 143.6 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 29 Km.
 MB: 5.6(CGS), Mag: 6.4-6.6(BRK).

16 e P 17 39 27
 ei 39 34
 D=70.5°

USCGS:

H: 17 28 13.0; 41.4 N; 143.0 E;
 HOKKAIDO, JAPAN REGION.
 h: 33 Km.
 MB: 5.2(CGS).

16 i P 18 54 29.3 C
 i 54 43.4
 micr sec
 P Z' 0.34 1.1
 P Z 3.4 4
 D= 70.2°

USCGS:

H: 18 43 21.0; 40.7 N; 142.1 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 59 Km.
 MB: 5.7(CGS).

16 eiP 19 27 57
 i pP 28 09.5
 D=70.5°

USCGS:

H: 19 16 47.2; 41.3 N; 142.4 E;
 HOKKAIDO, JAPAN REGION.
 h: 42 Km.
 MB: 5.6, MS: 5.4(CGS), Mag: 5.5-5.8(BRK).

UPPSALA:

h: 35 Km(Ki, Ka).
 m=6.0, M= 6.0(Up, Ki).

16 i P 19 57 48.3 D
 micr sec
 P Z' 0.11 0.8
 D=86.4°

USCGS:

H: 19 45 23.5; 12.6 N; 141.6 E;
 SOUTH OF MARIANA ISLANDS.
 h: 170 Km.
 MB: 5.2(CGS).

16 i P 20 33 25.5 D
 eipP 33 36
 micr sec
 Mx Z 17 20
 Mx N 10 17
 Mx E 12 19
 D=70.4°

USCGS:

H: 20 22 14.9; 41.4 N; 142.6 E;
 HOKKAIDO, JAPAN REGION.
 h: 39 Km.
 MB: 5.6(CGS), Mag: 5.4-5.7(BRK).

16 e P 21 14 35
 D=70.3°

USCGS:

H: 21 03 24.3; 41.2 N; 142.4 E;
 HOKKAIDO, JAPAN REGION.
 h: 33 Km.
 MB: 5.0(CGS).

MAY 1968

16 i P 21 37 10.6 C

D=70.7°

USCGS:

 H: 21 25 56.4; 40.9 N;143.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 30 Km.
 MB: 4.8(CGS).

16 i P 23 16 12.0 C

i 16 16.2

i PP 18 54

i 20 45

i 21 44

i S 25 26

i 26 03

micr sec

P Z 40.6 8

P N 7.2 8

P E 7.2 9

D=71.4°

USCGS:

 H: 23 04 54.7; 39.8 N;143.1 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 37 Km.
 MB: 5.8(CGS), 6.4-6.7(BRK).

17 e P 00 07 55

D=71.6°

USCGS:

 H: 23 56 35.3; 39.6 N;143.4 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 MB: 4.8(CGS).

17 eiP 06 35 57 C

D=72.0°

USCGS:

 H: 06 24 35.2; 39.1 N;143.5 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 40 Km.
 MB: 4.8(CGS).

UPPSALA:

 h: 35 Km(KI,Um,Ud).
 m= 5.8, M=5.4(Up,Ki).

17 i P 10 54 06 C

eiPP 56 44

eiS 11 03 25

micr sec

P Z 7.5 8

Mx Z 15.6 16

Mx N 16.7 16

Mx E 12 16

D=71.7°

USCGS:

 H: 10 42 45.9; 39.6 N;143.4 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 MB: 5.3(CGS).

UPPSALA:

 h: 40 Km(Up,Um,Ud).
 m: 6.1, M: 6.0(Up,Ki).

17 e P 13 13 52

e S 22 58

i 24 14

D=70.6°

USCGS:

 H: 13 02 37.3; 41.5 N;142.8 E;
 HOKKAIDO, JAPAN REGION.
 h: 45 Km.
 MB: 5.6(CGS), 5.3-5.4(BRK).

UPPSALA:

 h: 60 Km(Um,Ka).
 m=5.8, M=5.6(Um,Ki).

17 e P 15 04 32

D=71.7°

USCGS:

 H: 14 53 11.0; 39.6 N;143.6 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 MB: 4.8(CGS), Mag: 5.3-5.7(BRK).

17 eiP 16 13 43 C

eiS 22 54

micr sec

P Z 2.2 8

Mx Z 15.3 16

Mx N 15 14

Mx E 12.8 17

D=71.8°

USCGS:

 H: 16 02 24.0; 40.6 N;144.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 MB: 5.0, MS: 5.5(CGS).

MAY 1968

(cont.)

UPPSALP

h: 40 Km(Ki,Um,Ka).
 m=6.0,M=6.4(Up,Ki).
 17 i P 18 28 26.0 C
 i 28 33
 i 28 42
 eiPP 31 08
 eiS 37 44
 micr sec
 P Z 4 5
 Mx Z 16.7 16
 Mx N 16.3 16
 Mx E 8.7 15

D=71.3°

USCGS:

H: 18 17 07.3; 39.6 N;143.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 32 Km.
 MB: 5.2, MS: 5.3(CGS).

UPPSALA:

h: 50 Km(Up,Um,Ud).
 m=5.9,M= 5.8(Up,Ki).
 17 eiP 22 47 33 C
 eipP 47 42.7

D=71.6°

USCGS:

H: 22 36 14.6; 40.6 N;143.7 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 MB: 4.7(CGS).

UPPSALA:

h= 30 Km(Up,Ki,Sk,Um,Ka,Ud).
 m= 5.6,M= 5.6(Up,Ki).

18 e PP 01 21 50

D=112.3°

USCGS:

H: 01 02 29.2; 55.4 S; 27.7 W;
 SOUTH SANDWICH ISLANDS REGION.
 h: 33 Km.
 MB: 5.4,MS: 5.4(CGS).

 18 e P 10 05 13
 i S 05 46.3

18 e P 12 10 32

18 e(P) 13 30 52

 18 e P 16 08 45
 eiS 09 11.5

 18 e P 20 18 40
 eiS 19 31

 19 i P 04 24 06.5 C
 micr sec
 P Z 3.6 9
 Mx Z 14.6 16
 Mx N 10.6 15
 Mx E 6.5 18

D=72.8°

USCGS:

H: 04 12 40.3; 35.6 N;141.7 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 46 Km.
 MB: 5.1(CGS),5.5-5.9(BRK).

 19 eiP 06 05 37 C
 micr sec
 P Z 1.5 6
 Mx Z 3.1 16
 Mx N 2.3 16
 Mx E 1.8 16

D=72.9°

USCGS:

H: 05 54 08.4; 35.6 N;141.9 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 25 Km.
 MB: 4.8(CGS).

 19 i P 16 51 15.8 D
 i S 52 23

D=6.0°

USCGS:

H: 16 49 50.4; 36.3 N; 53.4 E;
 IRAN.
 h: 33 Km.
 MB: 4.7(CGS).

 19 e P 19 08 51
 e 12 51

19 e P 21 47 53

D=88.9°

USCGS:

H: 21 35 01.2; 6.8 S;129.5 E;
 BANDA SEA.
 h: 43 Km.
 MB: 5.3(CGS).

MAY 1968

19 i P 22 28 02 C
 eiS 37 16
 ei 38 10
 micr sec
 P Z 2.1 6
 Mx Z 8.2 18
 Mx N 6.7 15
 Mx E 6.2 19

D=71.0°

USCGS:

H: 22 16 44.8; 40.9 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 18 Km.
 MB: 5.1(CGS), 4.9-5.3(BRK).

20 eiP 03 27 41

D=71.8°

USCGS:

H: 03 16 19.6; 40.0 N; 144.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 31 Km.
 MB: 5,5(CGS).

20 i P 07 04 55.6 C
 eiS 14 14

micr sec

P Z 1.8 8

D=71.6°

USCGS:

H: 06 53 35.2; 40.3 N; 143.7 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 MB: 5.2, MS: 5.0(CGS).

UPPSALA

h= 35 Km(Ki, Gb, Um, Ud).

m= 6.1, M= 5.7(Up, Ki).

20 i PKP 07 32 31.5 C
 i 39 18

micr sec

PKP Z' 0.29 0.4

PKP Z 7.4 4.0

D=142.8°

USCGS:

H: 07 13 03.0; 30.9 S; 178.3 W;
 KERMADEC ISLANDS REGION.
 h: 22 Km.
 MB: 6.0(CGS), Mag: 5.4-5.8(BRK).

20 i P 10 45 45 C
 micr sec
 P Z 3.6 7
 Mx Z 12 22
 Mx N 7.7 22
 Mx E 8.7 22

D=72.8°

USCGS:

H: 10 34 16.8; 48.8 N; 154.7 E;
 KURILE ISLANDS.
 h: 40 Km.
 MB: 5.4(CGS).

20 eiP 19 19 58.5

20 e P 19 46 07

20 e P 20 16 53

eiS 17 17.5

20 e P 20 22 44

iiPKP 25 14.0 C

i PP 28 30

i 31 42

ii 38 44

i pPPS 41 07

micr sec

PKP Z' 0.7 0.8

D=142.7°

USCGS:

H: 20 05 49.1; 30.7 S; 178.4 W;
 KERMADEC ISLANDS REGION.
 h: 46 Km.
 MS: 7.0(CGS), Mag: 6¼-7(PAS), 6.8
 -7.2(BRK).

20 e PKP 20 39 49

D=142.9°

USCGS:

H: 20 20 23 ; 31.0 S; 178.1 W;
 KERMADEC ISLANDS.
 h: 59 Km.
 MB: 5.0(CGS).

20 i P 21 21 13.4 C
 e S 30 37

micr sec

P Z' 2.4 1.4

D=72.8°

(cont.)

(cont.)

MAY 1968

USCGS:

H: 21 09 44.8; 44.8 N;150.3 E;
 KURILE ISLANDS REGION.
 h: 38 Km.
 MB: 5.8(CGS).

UPPSALA:

h: 40 Km(Gb,Ud).
 m=6.4,M=7.0(Up,Ki).

20 e 21 38 15
 20 eiP 22 38 50.3
 D=66.8°

USCGS:

H: 22 27 58 ; 20.1 N;121.9 E;
 PHILIPPINE ISLANDS REGION.
 h: 33 Km.
 MB: 4.8(CGS).

20 eiP 23 02 35
 eiS 03 02
 20 e P 23 35 51
 21 i P 00 31 02.2
 i 31 16
 eiS 40 31
 micr sec
 P Z' 0.25 0.7
 P Z 3.7 6
 D=72.8°

USCGS:

H: 00 19 34.8; 44.8 N;150.2 E;
 KURILE ISLANDS REGION.
 h: 45 Km.
 MB: 5.2,MS: 5.2(CGS).

UPPSALA:

h:(45 Km).
 m=6.0,M=5.7(Up,Ki).

21 e P 01 13 10
 e S 13 27
 21 e P 01 22 54
 eiS 23 11
 21 ei 01 56 05
 21 e P 04 22 41
 micr sec
 Mx Z 4.1 18
 D=70.9°

USCGS:

H: 04 11 24.7; 41.1 N;143.5 E;
 HOKKAIDO,JAPAN REGION.
 h: 33 Km.
 MB: 5.5(CGS).

21 e P 07 17 52
 21 iiP 08 31 29 C
 i 31 50.0
 eiPP 34 15
 i S 40 54
 ei 41 05
 i PS 41 30
 i SS 45 28
 micr sec
 P Z' 0.72 1.0
 P N' 0.85 1.3
 P E' 0.41 1.2
 P Z 16.5 7
 P N 5.7 6
 P E 3.1 6
 S N 8.1 8
 Mx Z 33.6 21
 Mx N 38 20
 Mx E 26.5 18

D=72.8°

USCGS:

H: 08 20 00.9; 44.9 N;150.2 E;
 KURILE ISLANDS REGION.
 h: 33 Km.
 MB: 5.7,MS: 6.2(CGS).

21 eiP 11 03 09
 i S 12 03
 D=66.8°

USCGS:

H: 10 52 16.6; 20.2 N;122.0 E;
 PHILIPPINE ISLANDS REGION.
 h: 30 Km.
 MB: 5.1(CGS).

21 i P 11 12 13 C
 micr sec
 P Z' 0.38 1.3
 P Z 3.6 6
 D=72.9°

USCGS:

H: 11 00 44.6; 44.7 N;150.2 E;
 KURILE ISLANDS REGION.
 h: 33 Km.
 MB: 5.1(CGS).

MAY 1968

21 i P 11 15 23.0 C
 micr sec
 P Z' 0.54 1.3
 P Z 5.0 4
 D=72.8°
USCGS:
 H: 11 03 57.5; 45.0 N; 150.1 E;
 KURILE ISLANDS.
 h: 48 Km.
 MB: 4.9(CGS).

BPPSALA:
 (h=50 Km.)
 m=6.0(Up,Ki).

21 i P 18 58 57.7 D
 i S 19 08 22
 micr sec
 P Z' 0.53 1.4
 P Z 1.4 4
 S N 3.3 6
 S E 1.4 4
 Mx Z 4.4 18
 Mx N 4.0 17
 Mx E 3.0 17
 D=72.9°

USCGS:
 H: 18 47 30.5; 44.8 N; 150.3 E;
 KURILE ISLANDS REGION.
 h: 51 Km.
 MB: 5.2(CGS).

21 i P 20 31 32
 i 31 36
 i S 32 02.5

22 e PKP 00 37 34
 e SKP 41 13
 D=143.2°

USCGS:
 H: 00 18 05.9; 30.4 S; 177.8 W;
 KERMADEC ISLANDS REGION.
 h: 43 Km.
 MB: 4.7(CGS).

22 e P 00 58 45
 i S 58 46.5

22 i P 05 10 12.5
 i S 10 42

22 eiP 10 50 31.8
 i S 51 04
 22 eiP 11 03 04.5 C
 i S 12 13
 eiPS 12 40
 (SKS
 ei(ScS 13 02
 (PPS
 i 13 34
 micr sec
 P Z' 0.47 1.4
 S N 2.1 6
 S E 2.4 5
 Mx Z 9.6 21
 Mx N 5.8 18
 Mx E 6.7 20
 D=70.6°

USCGS:
 H: 10 51 53.3; 41.5 N; 142.8 E;
 HOKKAIDO, JAPAN REGION.
 h: 40 Km.
 MB: 5.9, MS: 6.3(CGS), Mag: 6.2-
 6.6(BRK), 5½-5¼(PAL), 5½-5¼(GOL).

22 e P 18 37 28
 i S 38 26
 D=5.5°

USCGS:
 H: 18 36 02.6; 33.0 N; 49.1 E;
 WESTERN IRAN.
 h: 6 Km.
 MB: 4.3(CGS).

22 i P 19 40 39.3 C
 i(PcP) 40 56.4
 i pPcP 41 06
 e S 49 48
 ei 50 12
 ei 50 32
 i PPS 50 41
 i 51 05
 micr sec
 P Z' 0.54 1.5
 P Z 5.7 6
 P N 1.7 5.5
 P E 1.4 6
 Mx Z 15.2 17
 Mx N 15.3 16
 Mx E 11.6 16

MAY 1968

(cont.)

D=70.3°

USCGS:

H: 19 29 25.7; 40.2 N; 142.3 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 40 Km.
 MB: 5.3, MS: 5.5(CGS), Mag: 5¼-
 6(PAL).

22 eiP 20 12 41

D=72.9°

USCGS:

H: 20 01 13.3; 44.8 N; 150.2 E;
 KURILE ISLANDS REGION.
 h: 46Km.
 MB: 5,3, MS: 5.8(CGS).

23 eiP 14 36 46

D=71.6°

USCGS:

H: 14 25 27 ; 40.3 N; 143.7 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 MB: 4.6(CGS).

UPPSALA:

h= 35 Km(Um).
 M= 5.2(Up, Ki).

23 e P 17 41 00
 ei 43 26
 eiPKP 43 39
 i X 43 44.5
 i Y 43 57.8
 i 46 05.0
 i PP 46 32
 i SPP 58 42
 i 18 05 44
 micr sec
 X Z' 0.42 1.0
 Y Z' 1.2 1.0

D=138.6°

USCGS:

H: 17 24 15.7; 41.7 S; 171.9 E;
 SOUTH ISLAND, NEW ZEALAND.
 h: 21 Km.
 MB: 6.1, MS: 7.1(CGS), Mag: 6.6-
 7.0(BRK), 7¼-7½(PAL), 7.0(GOL).

23 e P 18 44 28

D=72.8°

USCGS:

H: 18 33 01 ; 44.9 N; 150.2 E;
 KURILE ISLANDS REGION.
 h: 33 Km.
 MB: 5.1(CGS).

23 eiPKP 19 02 26

D=143.2°

USCGS:

H: 18 43 01 ; 30.6 S; 177.7 W;
 KERMADEC ISLANDS REGION.
 h: 70 Km.
 MB: 5.6(CGS).

23 ei 19 27 10

D=66.9°

USCGS:

H: 19 16 21 ; 19.8 N; 122.0 E;
 PHILIPPINE ISLANDS REGION.
 h: 71 Km.
 MB: 4.9(CGS).

23 e P 23 41 19
 e 45 44

D=24.2°

USCGS:

H: 23 36 06.4; 14.7 N; 40.2 E;
 ETHIOPIA.
 h: 33 Km.
 MB: 4.8(CGS).

24 eiP 00 07 44.5

D=71.7°

USCGS:

23 H: 23 56 24.7; 40.3 N; 143.6 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 38 Km.
 MB: 4.9(CGS).

24 i P 14 17 39.5 C
 i PP 20 19
 i S 26 54
 i 27 14
 i 27 16
 i (SKS 27 32
 i (ScS

micr sec
 P Z' 1.0 1.5
 P N' 0.53 1.4
 P E' 0.37 1.5

(cont.)

MAY 1968

		micr	sec
P	Z	15.1	5
P	N	3.3	7
P	E	2.8	7
Mx	Z	56.5	17
Mx	N	48	16
Mx	E	45.6	18

D=70.7°

USCGS:

H: 14 06 24.2; 40.9 N; 143.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 38 Km.
 MB: 5.6, MS: 6.2(CGS), Mag: 6¼-
 6½(PAL).

24	iiP	15 55 08.2	D
	i PcP	55 17.0	
	i	56 27.8	
	i pP	57 17.5	
	ei	16 03 19	
	iiSKS	04 23	
	i S	04 28.6	
	i	05 10.8	
	i	05 22.4	

		micr	sec
P	Z'	0.92	0.6
P	N'	0.31	0.6
P	E'	0.36	0.6
P	Z	9.4	3.0
S	N'	1.6	1.7
S	E'	7.2	2.4
S	N	10.8	5.0
S	E	12.8	5.5

D=80.6°

USCGS:

H: 15 43 54.2; 6.8 S; 118.9 E;
 FLORES SEA.
 h: 609 Km.
 MB: 6.0(CGS).

24	eiPKP	18 00 18
----	-------	----------

D=138.6°

USCGS:

H: 17 40 54 ; 41.9 S; 171.8 E;
 SOUTH ISLANDS, NEW ZEALAND.
 h: 27 Km.
 MB: 5.3(CGS).

24	eiPKP	21 16 50.7	C
	eiSKP	20 21	

D=138.7°

USCGS:

H: 20 57 27.3; 41.8 S; 172.0 E;
 SOUTH ISLANDS, NEW ZEALAND.
 h: 33 Km.
 MB: 5.7, MS: 5.7(CGS).

24	eiP	21 49 01.4
	i BP	51 55

D=76.2°

USCGS:

H: 21 37 11.2; 54.2 N; 169.3 E;
 KOMANDORSKY ISLANDS REGION.
 h: 5 Km.
 MB: 5.3, MS: 4.7(CGS).

25	eiP	00 30 34.0
	i	30 42.0
	i S	31 24
	i	31 41

D=4.3°

USCGS:

H: 00 29 25.9; 40.8 N; 42.0 E;
 TURKEY.
 h: 9 Km.
 MB: 4.6(CGS).

25	i P	12 04 15.5	C
	i pP	04 24	
	i sP	04 29	
	eiPP	06 52	
	ei	13 42	
	ei	21 32	

		micr	sec
P	Z'	0.22	0.5
P	Z	3.6	5
Mx	Z	16.7	16
Mx	N	16.3	16
Mx	E	12.3	16

D=71.4°

USCGS:

H: 11 52 57.4; 40.1 N; 143.1 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 37 Km.
 MB: 5.2, MS: 5.3(CGS).

26	eiPKP	00 08 40.6
----	-------	------------

D=138.6°

(cont.)

MAY 1968

(cont.)

USCGS:

H: 23 49 16.7; 42.0 S; 171.8 E;
SOUTH ISLANDS, NEW ZEALAND.
h: 28 Km.
MB: 5.1(CGS).

26 e 05 04 21
26 eiP 05 35 42
i S 36 22

UPPSALA:

Caucasus.

26 e PKP 15 01 21
micr sec
Mx Z 3.9 21
D=138.5°

USCGS:

H: 14 41 52 ; 63.3 S; 170.7 E;
BALLENY ISLANDS REGION.
h: 9 Km.
MB: 5.5, MS: 5.9(CGS).

UPPSALA:

h: 10 Km.
M: 6.0(Up, Ki).

26 eiP 16 44 52
eiS 45 43
26 e P 17 33 25
e S 33 51
26 i 17 52 53.7
26 e P 17 56 13
i S 56 32.5
26 e P 18 54 02
eiS 54 26
26 i P 23 48 49.4 D
26 i P 23 51 39.8
27 e P 01 31 27
i S 31 44
27 e 23 21 08
28 ei 01 38 29
ei 38 39
28 eiPKP 01 47 51.0
D=143.3°

USCGS:

H: 01 28 22.1; 30.9 S; 177.4 W;
KERMADEC ISLANDS REGION.
h: 33 Km.
MB: 4.8(CGS).

28 eiPKP 02 29 15.4
eipPKP 29 25.0
D=144.2°

USCGS:

H: 02 09 42.0; 31.3 S; 176.8 W;
KERMADEC ISLANDS.
h: 33 Km.
MB: 4.8(CGS).

28 i PKP 09 25 59.5 C
i pPKP 26 12.2
i 26 15.6
micr sec
PKP Z 4.3 4
D=143.4°

USCGS:

H: 09 06 29.9; 30.9 S; 177.8 W;
KERMADEC ISLANDS REGION.
h: 33 Km.
MB: 5.5, MS: 5.7(CGS), Mag: 5.8-
6.0(BRK), 6-6½(PAL).

28 ei 11 12 23.0
D=144.2°

USCGS:

H: 10 52 29.3; 31.3 S; 176.8 W;
KERMADEC ISLANDS.
h: 33 Km.
MB: 4.6(CGS).

28 i P 13 40 33.4 C
i PP 44 26.8
eiSKS 51 06
eiS 51 44
i 51 49.0
micr sec
P Z' 0.81 0.9
D=94.1°

USCGS:

H: 13 27 18.7; 2.9 S; 139.3 E;
NEAR N.COAST OF WEST NEW GUINEA.
h: 65 Km.
MB: 6.1(CGS), Mag: 7(PAS), 7.0-
7.5(BRK), 7½(PAL).

MAY 1968

28 i P 22 42 02 C
 i PP 44 57
 i PPP 46 50
 i S 52 02
 i PS 52 50
 i SS 57 15
 micr sec
 P Z 5 9
 Mx Z 12.1 17
 Mx N 8.0 16
 Mx E 7.7 16
 D=78.8°

USCGS:

H: 22 29 56.8; 52.2 N; 172.8 E;
 NEAR ISLANDS, ALEUTIAN ISLANDS.
 h: 15 Km.
 MB: 5.6, MS: 5.7(CGS), Mag: 4.3-
 4.7(BRK), 5¼(PAL), 5½-5¾(GOL).

UPPSALA:

(h=15 Km).
 m=6.1, M=5.5(Up, Ki).

29 ei 09 06 40

UPPSALA:

JAPAN.
 M=5.2(Up, Ki).

30 eiP 00 12 41.8
 i 12 51
 D=5.7°

USCGS:

H: 00 11 16.7; 32.6 N; 48.3 E;
 WESTERN IRAN.
 h: 41 Km.
 MB: 4.7(CGS).

30 eiP 01 13 22.4
 D=12.1°

USCGS:

H: 01 10 30.0; 27.8 N; 54.0 E;
 SOUTHERN IRAN.
 h: 27 Km.
 MB: 5.2(CGS).

30 iiP 05 35 16.0 C
 i 35 29
 i S 44 43
 i 44 51
 i 45 17

i 45 55
 i 46 30
 micr sec
 P Z' 3.5 2
 P Z 12.5 6.6
 P N 3.8 7
 P E 2.3 7
 S N 6.3 6
 S E 3.6 6
 Mx Z 26.8 19
 Mx N 24.8 19
 Mx E 20.3 19

D=72.9°

USCGS:

H: 05 23 48.9; 44.7 N; 150.3 E;
 KURILE ISLANDS REGION.
 h: 49 Km.
 MB: 5.5, MS: 5.8(CGS), Mag: 5.4-
 5.8(BRK).

30 e P 10 08 26
 ei 19 14

D=88.3°

USCGS:

H: 09 55 32.0; 6.7 S; 129.5 E;
 BANDA SEA.
 h: 33 Km.
 MB: 5.4(CGS).

30 i P 12 32 38
 i S 33 06

30 i P 17 43 59 C
 i 44 12.3
 i 44 17.6
 i 44 32.0
 i S 46 46

micr sec
 P Z' 0.34 0.8
 P Z 7.9 4.0
 P N 4.3 4.0
 P E 7.9 4.0
 Mx Z 58.7 13
 Mx N 111.5 10
 Mx E 49.6 12

D=14.9°

USCGS:

H: 17 40 24.4; 35.5 N; 28.0 E;
 EASTERN MEDITERRANEAN SEA.
 h: 21 Km.

(cont.)

MAY 1968

(cont.)

MB: 5.3, MS: 5.5 (CGS).

30 ei 21 19 53.5

BCIS :

 H: 17 40 25 ; 35.4 N, 28.0 E;
 h: 40 Km.
 MLH: 5.9 (Collm).

UPPSALA:

 Hindu Kush.
 h: 220 Km (Um, Ka, Ud).

UPPSALA:

 h=20 Km.
 m= 5.7, M= 5.9 (Up, Ki).

 31 eiP 18 20 29.3
 i S 20 57

30 eiP 18 10 39.3

D=79.3°

 31 e PKP₁ 18 39 15
 i PKP₂ 39 16.5

 PKP Z' micr sec
 0.08 0.6

D=123.6°

USCGS:

 H: 17 58 40.8; 5.2 N; 126.8 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 90 Km.
 MB: 5.1 (CGS).

USCGS:

 H: 18 20 42.7; 13.6 S; 167.2 E;
 NEW HEBRIDED ISLANDS.
 h: 205 Km.
 MB: 4.9 (CGS).

30 eiP 19 55 21

D=9.3°

31 e 20 03 08

USCGS:

 H: 19 53 06.0; 29.7 N; 51.3 E;
 SOUTHERN IRAN.
 h: 32 Km.
 MB: 5.2 (CGS).

30 eiPKP 20 01 50

D=143.6°

USCGS:

 H: 19 42 25.1; 31.0 S; 177.6 W;
 KERMADEC ISLANDS.
 h: 42 Km.
 MB: 5.5, MS: 6.2 (CGS), Mag: 6¼-
 6½ (PAS), 5.5-5.9 (BRK).

APRIL 1969

M.S. Nabavi

A. Anzabi

Correction: On page 20 March 3 / 68

 " P Z' 0.13 1.7" should
 read " P Z' 1.3 1.7".

(cont.)

JUNE 1968

D=16.0°	7	eiP	21 42 52
<u>USCGS:</u>		i	43 12
H: 00 09 41 ; 36.1 N; 66.2 E;		eiS	52 42
HINDU KUSH REGION.			micr sec
h: 33 Km.		Mx Z	10 24
Mag: MB: 4.8(CGS).		D=78.9°	
5 e P 23 17 40	<u>USCGS:</u>	H: 21 30 50.3; 2.1 S; 120.5 E;	
D=79.1°		CELEBES.	
<u>USCGS:</u>		h: 23 Km.	
H: 23 05 36.8; 52.2 N; 174.3 E;		Mag: MB: 5.5, MS: 5.9(CGS), 6¼(PAL).	
NEAR ISLANDS, ALEUTIAN ISLANDS.	8	eiPP	00 36 01
h: 41 Km.		ei	43 32
Mag: MB: 5.0(CGS).		i PS	45 30
6 e P 19 55 03		D=112.1°	
i 55 10	<u>USCGS:</u>	H: 00 16 39.5; 8.8 S; 157.6 E;	
i S 20 04 01		SOLOMON ISLANDS.	
D=68.1°		h: 33 Km.	
<u>USCGS:</u>		Mag: MB: 5.4, MS: 5.7(CGS).	
H: 19 44 07.9; 14.9 N; 119.9 E;	8	eiP	00 50 16
LUZON, PHILIPPINE ISLANDS.		e S	57 22
h: 80 Km.		D=49.1°	
Mag: MB: 5.4(CGS).	<u>USCGS:</u>	H: 00 41 29.0; 87.0 N; 51.3 E;	
6 i P 21 28 26		NORTH OF FRANZ JOSEFLAND.	
i pP 28 38.5		h: 33 Km.	
D= 70.3°		Mag: MB: 5.3(CGS).	
<u>USCGS:</u>	8	i P	05 41 07.7 C
H: 21 17 14.4; 41.3 N; 142.6 E;		i pP	41 19.7
HOKKAIDO, JAPAN REGION.		eiPcP	41 27.5
h: 37 Km.		i S	50 24
Mag: MB: 5.3(CGS).			micr sec
7 e 09 04 20		P Z'	1.7 1.8
7 iiP 12 09 31.2 C		P Z	5.5 5
i PP 12 30		Mx Z	6.5 18
i PPP 14 18		Mx N	4.3 16
i PPPP 15 36		Mx E	4.8 19
i 17 10		D=71.8°	
iiS 19 26	<u>USCGS:</u>	H: 05 29 46.5; 43.4 N; 147.1 E;	
		KURILE ISLANDS.	
		h: 43 Km.	
		Mag: MB: 5, 3, MS: 5.3(CGS), 4.8-5.2	
		(BRK), 5¼-5½(PAL), 5¼-5½(GOL).	
		<u>UPPSALA:</u>	
		(h=40 Km).m= 6.2, M= 5.5(Up, Ki).	
P Z micr sec			
P Z 19.1 8			
Mx Z 141 25			
D=78.4°			
<u>USCGS:</u>			
H: 11 57 29.4; 1.8 S; 120.1 E;			
CELEBES.			
h: 20 Km.			
Mag: MB: 5.9, MS: 6.7(CGS), 7.0			
(PAS).			

JUNE 1968

<p>8 i P 20 59 12.2 C D=65.4°</p> <p><u>USCGS:</u> H: 20 48 44 ; 26.3 N;124.4 E; NORTHEAST OF TAIWAN. h: 160 Km. Mag: MB: 5.0(CGS).</p> <p><u>UFPSALA:</u> h= 160 Km. m= 5.7(Up,Ki).</p> <p>8 eiP 21 05 55.0 D=70.1°</p> <p><u>USCGS:</u> H: 20 54 45.2; 41.5 N;142.3 E; HOKKAIDO, JAPAN REGION. h: 30 Km. Mag: MB: 5.2(CGS).</p> <p>8 e P 22 24 44 i S 25 14.4</p> <p>8 e P 23 12 44 e S 13 09</p> <p>8 i P 23 36 51 D i 40 28 i S 47 26 i ScS 47 36 i PS 48 36 eiSS 53 12 i 53 36</p> <p style="padding-left: 40px;">micr sec</p> <p>P Z 4.7 6 Mx Z 50 24</p> <p>D=87.5°</p> <p><u>USCGS:</u> H: 23 24 05.2; 48.8 S; 31.5 E; SOUTH OF AFRICA. h: 33 Km. Mag: MB: 5.6, MS: 6.0(CGS), 6¼(PAL).</p> <p><u>UFPSALA:</u> (h= 30 Km). m= 6.4, M= 6.4(Up,Ki).</p> <p>9 iiP 00 56 50.8 D D= 0.9°</p> <p><u>USCGS:</u> H: 00 56 33.9; 39.0 N; 46.0 E;</p>	<p>N.W. IRAN-USSR BORDER REGION. h: 50 Km. Mag: MB: 5.0(CGS).</p> <p><u>UFPSALA:</u> h= 80 Km(Up,Ki,Um).</p> <p>9 i P 01 26 07.5 i S 26 21.5</p> <p>9 i P 01 31 55.2 i S 32 12.5</p> <p>9 i P 02 22 35.6 i S 22 52.3</p> <p>9 e P 02 48 39 i S 48 54.6</p> <p>9 eiP 03 03 55.0 e S 04 12</p> <p>9 e P 03 27 18 e S 27 37</p> <p>9 eiP 03 52 32.0 eiS 52 50.0</p> <p>9 eiP 03 55 40.0 eiS 55 59.0</p> <p>9 eiP 03 59 54.0 i S 04 00 13.2</p> <p>9 eiP 04 58 53.0 i S 59 09.0</p> <p>9 i P 07 15 18.0 i S 15 34.0</p> <p>9 i SKP 09 38 36 D micr sec</p> <p>SKP Z' 0.25 0.8</p> <p>D=139.5°</p> <p><u>USCGS:</u> H: 09 17 31.7; 24.1 S;178.5 E; SOUTH OF FIJI ISLANDS. h: 580 Km. Mag: MB: 5.1(CGS).</p> <p>9 i P 10 35 55</p> <p>9 i P 11 38 39.7 D=0.9°</p> <p><u>USCGS:</u> H: 11 38 22.9; 39.0 N; 46.1 E; N.W. IRAN-USSR BORDER REGION.</p>
--	---

(cont.)

JUNE 1968

(cont.)

h: 40 Km.
 Mag: MB: 4.2(CGS).
 9 eiP 14 04 35.0
 i S 04 53.0
 9 e P 16 32 47
 e S 32 57
 9 e P 22 21 25.7
 i S 21 42.3
 9 ei 22 21 26
 ei 29 13.7
 D=143.9°

USCGS:

H: 22 01 58 ; 31.3 S; 177.8 W;
 KERMADEC ISLANDS.
 h: 33 Km.
 Mag: MB: 5.0, MS: 4.9(CGS).
 9 i P 23 29 59.6
 i S 30 15.8
 10 eiP 04 57 52.0
 e S 58 09
 10 i P 05 50 42.0 D
 i S 50 59.0
 10 e P 10 58 49
 i S 59 06.7
 10 e P 11 09 02
 i S 09 20.5
 10 eiP 12 53 14 C
 e pP 53 58
 eisP 54 19
 eiS 13 03 20
 D=83.1°

USCGS:

H: 12 41 05.7; 56.3 N; 161.6 W;
 ALASKA PENINSULA.
 h: 182 Km.
 Mag: MB: 5.6(CGS), 5.1-5.4(BRK).

UPPSALA:

h= 170 Km(Up, Ki, Sk, Gb, Um, Ud).
 m= 5.6(Up, Ki).
 10 eiP 13 18 31
 eiS 18 47

10 i P 13 39 05.0
 i S 39 20.7
 10 i P 14 33 42.0
 10 e P 17 13 13
 i S 13 37.6
 10 e P 17 41 29
 D=22.4°

USCGS:

H: 17 36 30 ; 39.0 N; 75.1 E;
 SOUTHERN SINKIANG PROV., CHINA.
 h: 51 Km .
 Mag: MB: 4.8(CGS).
 10 i P 17 45 07.5 D
 i 45 10.2
 i 45 11.8
 10 e P 18 03 01
 i S 03 30
 10 e P 20 54 05
 i S 54 23.0
 10 e P 21 55 52
 11 i P 01 20 02.8
 i S 20 19
 11 e 03 11 27
 D=25.5°

USCGS:

H: 03 05 57.8; 49.8 N; 78.2 E;
 EASTERN KAZAKH SSR.
 h: 0 Km.
 Mag: MB: 5.3(CGS).

BCIS :

H: 03 06 00 ; 50.0 N; 78.0 E;
 MPV: 5.5(Moxa), M: 5.4(Uppsala).
 11 eiP 06 10 09.5
 i 10 13.9
 D=2.5°

USCGS:

H: 06 09 28 ; 38.6 N; 43.1 E;
 TURKEY.
 h: 33 Km.
 Mag: MB: 4.7(CGS).

JUNE 1968

11 i P 06 16 24
 11 i P 22 41 40.5
 D=72.6°

USCGS:

H: 22 30 15.5; 45.6 N; 150.9 E;
 KURILE ISLANDS.
 h: 60 Km.
 Mag: MB: 4.7(CGS).

11 i P 23 35 44.5
 eiS 36 02.5
 12 eiP 09 08 40
 ei 11 33
 D=15.0°

USCGS:

H: 09 05 04.6; 35.3 N; 28.0 E;
 EASTERN MEDITERRANEAN SEA.
 h: 33 Km.
 Mag: MB; 4.6(CGS).

12 i P 13 53 09.0 C
 i pP 53 18
 i PcP 53 29
 i S 14 02 24
 D=71.3°

USCGS:

H: 13 41 50.7; 39.5 N; 142.7 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 44 Km.
 Mag: MB: 6.0, MS: 7.0(CGS), 7¼
 (PAS), 6.6-6.9(BRK), 7¼(PAL).

UPPSALA:

h: 30 Km(Up, Ki, Sk, Gb, Um, Ka, Ud).
 m= 6.9, M= 7.8(Up, Ki).

12 e P 18 03 20
 eipP 03 31
 D=71.6°

USCGS:

H: 17 52 01.2; 39.1 N; 142.9 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 30 Km.
 Mag: MB: 5.5, MS: 5.2(CGS).

12 i P 20 23 35.0
 i pP 28 45.5
 ei 28 52.5

eiPP 32 02
 ei 39 04
 ii 39 18
 i 39 43

D=87.3°

USCGS:

H: 20 15 47.8; 0.6 S; 132.8 E;
 WEST NEW GUINEA REGION.
 h: 33 Km.
 Mag: MB: 5.6, MS: 5.5(CGS).

12 i P 22 09 01.0 C
 i pP 09 11.0
 eiPPP 13 22
 i S 18 18
 eiSS 23 05
 micr sec
 Mx Z 34 16
 Mx N 26.7 15
 Mx E 14.7 15

D=71.5°

USCGS:

H: 21 57 41.3; 39.3 N; 142.8 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 36 Km.
 Mag: MB: 5.7, MS: 5.3(CGS), 5.0-
 5.4(BRK).

UPPSALA:

h= 35 Km(Up, Ki, Sk, Gb, Um, Ka, Ud).
 m= 6.1, M= 6.0(Up, Ki).

12 iiP 23 37 26.5 C
 i 37 35.0
 iipP 38 07.7
 i 38 17.8
 eiPP 41 43
 i S 46 26
 ii(ScS) 47 16
 ii(SKS)

micr sec
 P Z' 0.26 0.9
 P Z 6.5 6.5
 pP Z' 0.77 1.3
 pP Z 5.7 4

D=69.4°

USCGS:

H: 23 26 30.8; 13.8 N; 120.7 E;
 MINDORO, PHILIPPINE ISLANDS.
 h: 141 Km.
 Mag: MB: 5.0(CGS).

JUNE 1968

(cont.)

UPPSALA:

h= 160 Km(Up,Ki,Sk,Gb,Um,Ka
Ud).

m= 5.9,M= 5.6(Up,Ki).

13 e P 00 16 21
micr sec
Mx Z 4.7 16
Mx N 3.3 15
Mx E 2.7 15

D=71.4°

USCGS:

H: 00 05 00.7; 39.5 N;143.0 E;
OFF EAST COAST OF HONSHU, JAPAN.

h: 24 Km.

Mag: MB: 5.3(CGS).

13 i P 02 17 03 C
micr sec
P Z 1.9 7
Mx Z 10 15
Mx N 7.3 15
Mx E 4.6 15

D=71.3°

USCGS:

H: 02 05 42.8; 39.4 N;142.8 E;
NEAR EAST COAST OF HONSHU, JAPAN.

h: 25 Km.

Mag: MB: 5.1,MS: 4.9(CGS).

13 eiPP 07 54 43
ei 08 04 44

D=126.0°

USCGS:

H: 07 33 50.5; 0.3 S; 91.5 W;
GALAPAGOS ISLANDS.

h: 33 Km.

Mag: MB: 5.3(CGS),5-5½(PAL),5-
5¼(GOL).

UPPSALA:

(h= 30 Km.)

m= 6.2(Ki).

13 e P 11 50 07
eiS 50 37

13 eiP 12 07 44 D
eiPPP 12 09
eiS 17 03

micr sec
Mx Z 8 15
Mx N 6.7 15
Mx E 4.7 15

D=71.5°

USCGS:

H: 11 56 23.4; 39.2 N;143.0 E;
OFF EAST COAST OF HONSHU, JAPAN.

h: 33 Km.

Mag: MB: 5.3(CGS).

13 e 15 42 39

D=21.6°

USCGS:

H: 15 37 43 ; 24.7 N; 66.4 E;
WEST PAKISTAN.

h: 33 Km.

Mag: MB: 5.1(CGS).

13 e 16 05 50

D=126.0°

USCGS:

H: 15 44 52.6; 0.5 S; 91.4 W;
GALAPAGOS ISLANDS.

h: 33 Km.

Mag: MB: 4.8,MS: 5.4(CGS),5(PAL).

13 e P 19 43 11
eiS 43 15.5

13 ei 20 02 55.7
ei 03 05
ei 03 36

13 eiP 21 21 55.8
eipF 22 05
ei 22 32
ei 22 46
eiS 31 12
ei 31 58

micr sec
Mx Z 18.3 16
Mx N 12.7 16
Mx E 7.3 15

D=71.4°

USCGS:

H: 21 10 35.4; 39.4 N;142.9 E;

(cont.)

JUNE 1968

(cont.)

	NEAR EAST COAST OF HONSHU, JAPAN.	14	eiP	12 03 58	
	h: 29 Km.			micr	sec
	Mag: MB: 5.5, MS: 5.2(CGS), 5.3-5.8(BRK).		Mx Z	6.7	15
			Mx N	5.7	15
			Mx E	2.7	15
				D=71.4°	
	<u>UPPSALA:</u>				
	h= 35 Km(Up, Ki, Sk, Gb, Um, Ka, Ud).				
	m= 6.4, M= 5.9(Up, Ki).				
13	eiP	22 42 19			
	D=20.2°				
	<u>USCGS:</u>				
	H: 22 38 01 ; 36.6 N; 71.5 E;				
	AFGHANISTAN-USSR BORDER REGION.				
	h: 213 Km.				
	Mag: MB: 4.8(CGS).				
13	e P	23 06 16			
	D=9.4°				
	<u>USCGS:</u>				
	H: 23 04 00.3; 29.7 N; 51.5 E;				
	SOUTHERN IRAN.				
	h: 33 Km.				
	Mag: MB: 5.0(CGS).				
14	e P	03 24 39			
	i S	24 58			
14	e P	03 29 38			
	eiS	38 55			
	D=71.4°				
	<u>USCGS:</u>				
	H: 03 18 17.3; 39.4 N; 142.8 E;				
	NEAR EAST COAST OF HONSHU, JAPAN.				
	h: 38 Km.				
	Mag: MB; 5.0, MS: 5.0(CGS).				
	<u>UPPSALA:</u>				
	h= 25 Km(Ud).				
	m= 6.1, M= 5.6(Up, Ki).				
14	e P	06 02 17			
14	eiPP	11 00 55			
	ei	11 00			
	D=126.2°				
	<u>USCGS:</u>				
	H: 10 39 59.1; 0.4 S; 91.8 W;				
	GALAPAGOS ISLANDS.				
	h: 33 Km.				
	Mag: MB: 4.7(CGS), 5.3-5.7(BRK), 5(PAL).				
	<u>UPPSALA:</u>				
	(h= 30 Km)				
	m= 6.5, M= 5.5(Up, Ki).				
14	e PP	16 44 36			
	D=125.9°				
	<u>USCGS:</u>				
	H: 16 23 44.7; 0.2 S; 91.4 W;				
	GALAPAGOS ISLANDS.				
	h: 33 Km.				
	Mag: MB: 4.9(CGS), 5.5-5.9(BRK), 5-5½(PAL).				
14	e PKP	19 22 51			
	D=138.8°				
	<u>USCGS:</u>				
	H: 19 03 27.8; 41.9 S; 171.9 E;				
	SOUTH ISLAND, NEW ZEALAND.				
	h: 25 Km.				
	Mag: MB: 5.3(CGS).				

JUNE 1968

14 eiPP 22 48 40 D
 ei 58 36
 D=125.9°

USCGS:

H: 22 27 43.8; 0.3 S; 91.2 W;
 GALAPAGOS ISLANDS.
 h: 21 Km.
 Mag: MB: 5.2(CGS), 5.7-6.1(BRK),
 5¼(PAL).

14 eiP 23 14 36
 D=73.2°

USCGS:

H: 23 03 05.2; 51.7 N; 159.4 E;
 OFF EAST COAST OF KAMCHATKA.
 h: 33 Km.
 Mag: MB: 4.9(CGS).

UFPSSALA:

h=40 Km(Up, Ki, Sk, Gb, Um, Ka, Ud).
 m= 6.0(Up, Ki).

15 i P 03 21 33.0 D
 i S 21 47.0

15 e P 03 42 41
 D=71.4°

USCGS:

H: 03 31 18.3; 39.3 N; 142.8 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 25 Km.
 Mag: MB: 5.4(CGS).

15 eiPP 04 39 58
 ei 50 58
 D=126.1°

USCGS:

H: 04 20 02.6; 0.4 S; 91.4 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 5.4(CGS), 5¼(PAL).

15 i P 06 09 42.5 D
 eiS 18 26
 micr sec
 P Z' 0.53 1.4
 P Z 2.0 4
 D=66.6°

USCGS:

H: 05 58 59.0; 27.0 N; 126.5 E;
 EAST CHINA SEA.
 h: 88 Km.
 Mag: MB: 5.7(CGS), 5.0-5.4(BRK).

UFPSSALA:

h= 140 Km(Up, Gb, Ud).
 m= 5.8(Up, Ki).

15 eiPP 07 28 37
 eiFS 38 14
 D=115.7°

USCGS:

H: 07 08 48.1; 5.6 N; 82.6 W;
 SOUTH OF PANAMA.
 h: 16 Km.
 Mag: MB: 6.0, MS: 6.0(CGS), 6.2-
 6.6(BRK), 6-6¼(GOL).

15 eiP 11 39 02 C
 D=73.2°

USCGS:

H: 11 27 32.9; 51.7 N; 159.4 E;
 OFF EAST COAST OF KAMCHATKA.
 h: 39 Km.
 Mag: MB: 5.4(CGS).

UFPSSALA:

h= 45 Km(Ki, Gb, Ka, Ud).
 m= 6.9, M= 5.5(Up, Ki).

15 eiPP 13 35 30 D
 ei 45 30
 D=125.8°

USCGS:

H: 13 14 36.7; 0.3 S; 91.1 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 5.2(CGS), 5.0(PAL).

15 e 13 53 19
 i 55 22
 D=125.7°

USCGS:

H: 13 34 14.4; 18.3 S; 167.9 E;
 NEW HEBRIDES ISLANDS.
 h: 11 Km.
 Mag: MB: 5.5, MS: 6.0(CGS).

JUNE 1968

15 e 17 59 24
 eiPP 18 01 12
 eiPS 11 13
 ei 16 12

D=125.9°

USCGS:

H: 17 40 17.4; 0.2 S; 91.4 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 5.0, MS: 5.2(CGS), 5/4(PAL).

15 i P 20 04 20.2 C
 i PcP 04 40.5
 micr sec
 P Z' 0.13 1.0

D=70.3°

USCGS:

H: 19 53 09.2; 41.9 N; 142.7 E;
 HOKKAIDO JAPAN REGION.
 h: 33 Km.
 Mag: MB: 5.2(CGS).

UPPSALA:

h= 50 Km(Gb, Ka).
 m= 6.0, M= 5.2(Up, Ki).

15 e 21 44 05
 eiPP 46 01
 eiPS 55 58

D=125.9°

USCGS:

H: 21 25 01.4; 0.1 S; 91.4 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 5.2(CGS).

16 i P 00 10 59
 eiS 11 43

16 eiPP 00 52 02
 eiPS 01 01 59

D=125.9°

USCGS:

H: 00 31 03.2; 0.2 S; 91.3 W;
 GALAPAGOS ISLANDS.
 h: 30 Km.
 Mag: MB: 5.0(CGS), 5/4(PAL).

16 eiPP 04 08 01

D=125.9°

USCGS:

H: 03 47 08.3; 0.2 S; 91.3 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.9, MS: 5.2(CGS), 5/4(PAL).

16 e P 06 25 56
 i S 26 13.0

16 eiPP 07 34 08

D=125.9°

USCGS:

H: 07 13 16.7; 0.2 S; 91.2 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.9, MS: 5.5(CGS), 5/4(PAL).

16 e 08 38 40

D=9.5°

USCGS:

H: 08 34 19 ; 36.9 N; 34.5 E;
 TURKEY.
 h: 25 Km.
 Mag: MB: 4.5(CGS).

16 eiPP 10 33 08
 e PS 43 04

D=125.9°

USCGS:

H: 10 12 14.3; 0.3 S; 91.3 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.6, MS: 5.2(CGS), 5/4(PAL).

16 e P 13 08 46

D=24.7°

USCGS:

H: 13 03 23.1; 38.0 N; 14.9 E;
 SICILY.
 h: 33 Km.
 Mag: MB: 4.8(CGS).

BCIS :

H: 13 03 18 ; 37.8 N; 14.8 E;
 M: 4.5(Roma).

JUNE 1968

16 eiPP 16 41 10
 e PS 51 12
 D=126.1°

USCGS:

H: 16 20 14.9; 0.4 S; 91.4 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.7(CGS), 5/4(PAL).

UPPSALA:

(h= 30 Km).
 m= 6.2(Ki).

16 e P 19 27 37
 eiPP 31 35
 e SS 45 44
 micr sec
 Mx Z 5.3 24
 Mx N 12.1 24
 Mx E 10.2 24
 D=97.2°

USCGS:

H: 19 14 05; ; 53.9 S; 8.7 E;
 BOUVET ISLAND REGION.
 h: 33 Km.
 Mag: MB: 5.7, MS: 5.7(CGS).

16 eiPP 23 31 38 D
 D=126.6°

USCGS:

H: 23 10 39 ; 0.6 S; 91.8 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.6(CGS), 5(PAL).

17 e PP 02 35 46
 e IS 45 48
 D=126.6°

USCGS:

H: 02 14 49 ; 0.7 S; 91.8 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB::4.7, MS: 4.6(CGS), 5(PAL).

UPPSALA:

(h= 30 Km).
 m= 6.1(Up, Ki).

17 e 04 37 18
 D=65.1°

USCGS:

H: 04 26 31.9; 22.4 N; 121.4 E;
 TAIWAN REGION.
 h: 39 Km.
 Mag: MB: 5.1(CGS).

17 e PP 04 49 12
 D=126.0°

USCGS:

H: 04 28 22.0; 0.2 S; 91.5 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.5(CGS).

UPPSALA:

(h= 30 Km).
 m= 6.1(Ki).

17 eiP 04 57 21.3 C
 i 57 33.6
 D=3.0°

USCGS:

H: 04 56 31 ; 40.7 N; 48.0 E;
 EASTERN CAUCASUS.
 h: 33 Km.
 Mag: MB: 4.7(CGS).

17 ei 04 59 41
 D=3.2°

USCGS:

H: 04 59 04.7; 40.9 N; 48.2 E;
 EASTERN CAUCASUS.
 h: 33 Km.
 Mag: MB: 5.0(CGS).

17 eiPP 10 55 09
 D=126.4°

USCGS:

H: 10 34 13.0; 0.6 S; 91.5 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.8(CGS), 5(PAL).

17 i P 12 04 14.0 C
 i 04 29.6
 i 05 39.0
 i PP 06 57
 i PPP 08 35
 i S 13 26
 i sS 13 45
 i 14 36

JUNE 1968

(cont.)

		micr	sec
P	Z'	1.8	1.6
P	N'	0.57	0.9
P	E'	0.32	1.0
P	Z	16.5	7
P	N	3.8	7
P	E	3.1	7
Mx	Z	102.7	19
Mx	N	71.3	16
Mx	E	59.6	19

D=70.6°

USCGS:

H: 11 53 00.4; 41.0 N; 143.0 E;
 HOKKAIDO, JAPAN REGION.
 h: 48 Km.
 Mag: MB: 5.7, MS: 6.1(CGS), 6½
 (PAL), 6¼-6½(GOL).

UPPSALA:

h= 50 Km(Um, Ka).
 m=6.6, M=7.0(Up, Ki).

17 eiPP 15 15 35

D=125.9°

USCGS:

H: 14 54 40.7; 0.3 S; 91.2 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.9(CGS), 5.0(PAL).

UPPSALA:

(h= 30 Km).
 m= 6.1(Ki).

17	i P	17 07 38.0	C
	i pP	07 47.0	
	i PcP	07 57.0	
	eiS	16 54	

		micr	sec
P	Z'	1.4	1.0
P	Z	2.2	7
Mx	Z	3.0	16
Mx	N	3.7	17
Mx	E	3.4	17

D=71.6°

USCGS:

H: 16 56 13.1; 40.1 N; 143.7 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 6 Km.
 Mag: MB: 5.2(CGS).

UPPSALA:

h= 30 Km(Up, Ki, Gb, Um, Ud).
 m= 5.8, M= 5.7(Up, Ki).

17	eiPKP	18 28 25.6	C
	i	28 27.5	
	i plKP	28 37.5	
	i sPKP	28 42.7	
	i	29 19.7	
	i PP	30 01.0	
	i	30 22	
	i	32 19	
	eiPPP	32 35	
	eiPS	39 48	
	ei	41 28	

		micr	sec
PKP	Z'	0.23	0.6

D=121.3°

USCGS:

H: 18 09 34.1; 12.3 S; 166.7 E;
 SANTA CRUZ ISLANDS.
 h: 33 Km.
 Mag: MB: 5.5, MS: 6.1(CGS), 6
 (PAS), 6½(PAL).

17	i P	19 08 55	C
	i pP	09 04.5	
	i PcP	09 12	
	i	09 25.5	
	i	09 54.8	
	eiPP	11 37	
	i PPP	13 20	
	i S	18 18	
	i TPS	19 04	

		micr	sec
P	Z	5.0	10
PPP	Z	5.0	9
Mx	Z	31.3	15
Mx	N	22.7	15
Mx	E	18.7	16

D=72.3°

USCGS:

H: 18 57 27.5; 38.7 N; 143.6 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 17 Km.
 Mag: MB: 4.9, MS: 5.8(CGS).

UPPSALA:

h= 40 Km(Up, Ki, Gb, Ka, Ud).
 m= 6.2, M= 6.4(Up, Ki).

JUNE 1968

19 eiP 08 28 40 C
 ei 31 50
 i PKP 32 20
 i 33 30
 i 43 38
 i SS 50 10
 micr sec
 Mx Z 92.9 21
 Mx E 52.8 20
 D=119.6°

USCGS:

H: 08 13 35.0; 5.6 S; 77.2 W;
 NORTHERN PERU.
 h: 28 Km.
 Mag: MB: 6.4, MS: 6.9(CGS), 7
 (PAS), 6.8(BRK).

19 e P 14 26 32
 i S 27 02
 19 i P 15 04 45.5
 i S 05 37.0

UFPSALA:

Caucasus.

19 e P 15 29 22
 eiS 30 17.0
 19 e PP 17 08 34
 D=125.9°

USCGS:

H: 16 47 41.7; 0.1 S; 91.7 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.7(CGS), 4¾(PAL).

19 i P 20 13 11.6
 i S 13 41.0
 19 e PKP 20 17 23
 eiPP 20 10
 D=136.2°

USCGS:

H: 19 58 01.9; 43.9 S; 75.1 W;
 OFF COAST OF SOUTHERN CHILE.
 h: 24 Km.
 Mag: MB: 5.7(CGS).

20 e P 00 58 53
 i S 01 59 57.0

20 e PP 01 53 38
 D=126.0°

USCGS:

H: 01 32 43.9; 0.5 S; 91.5 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.8(CGS), 4¾(PAL).

20 e 02 58 40
 ei 03 08 38
 D=119.6°

USCGS:

H: 02 38 38.4; 5.6 S; 77.3 W;
 NORTHERN PERU.
 h: 33 Km.
 Mag: MB: 5.8, MS: 5.7(CGS).

20 eiP 08 27 48

UFPSALA:

Iran.

20 e PP 16 30 02
 D=126.0°

USCGS:

H: 16 09 07.3; 0.4 S; 91.6 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 5.1(CGS).

20 e PP 23 46 21
 D=125.9°

USCGS:

H: 23 25 28.2; 0.1 S; 91.7 W;
 GALAPAGOS ISLANDS.
 h: 33 Km.
 Mag: MB: 4.6(CGS).

21 e P 01 36 56

21 e P 23 20 04
 eiS 20 36

22 i P 01 23 53.8 C
 i 24 03.6
 i 24 08.8
 i 24 28.8
 eiPP 26 34
 eiS 33 10

(cont.)

JUNE 1968

(cont.)

		micr	sec
P	Z'	0.75	1.4
P	Z	5.2	7
Mx	Z	11.0	15
Mx	N	9.3	16
Mx	E	9.3	16

D=71.4°

USCGS:

H: 01 12 30.9; 40.3 N; 143.7 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 15 Km.
 Mag: MB: 5.6, MS: 5.5(CGS), 5½
 (PAL).

UPPSALA:

h= 30 Km(Up, Ki, Sk, Gb, Um, Ka, Ud).
 m= 6.3, M= 6.1(Up, Ki).

22 e P 15 59 24

D=9.7°

USCGS:

H: 15 56 46.6; 29.6 N; 51.5 E;
 SOUTHERN IRAN.
 h: 32 Km.
 Mag: MB: 4.0(CGS).

 23 eiP 01 01 48.2
 eiS 02 42

 23 i P 04 40 20.2
 i S 40 35.0

 23 eiP 05 31 40
 i S 31 53

 23 i P 09 18 29 C
 i(S) 20 23

D=9.0°

USCGS:

H: 09 16 18.6; 29.8 N; 51.2 E;
 SOUTHERN IRAN.
 h: 34 Km.
 Mag: MB: 5.2(CGS).

UPPSALA:

m= 5.6, M= 5.4(Up, Ki).

 23 eiP 17 06 22 C
 eiS 16 47

D=84.2°

USCGS:

H: 16 53 50.2; 56.7 N; 152.4 W;

KODIAK ISLANDS REGION.

h: 33 Km.

Mag: MB: 4.9(CGS).

UPPSALA:

m= 5.8, M= 5.2(Up, Ki).

23 e 23 38 06

 24 i P 04 34 15.8 C
 i S 34 31.5

 24 i P 18 29 29.4 C
 i S 29 57.0

UPPSALA: Caspian Sea.

 24 e P 21 34 30
 e S 34 58

25 i P 10 14 42.2 C

UPPSALA: Caucasus.

25 e P 10 31 21

 25 e P 19 28 04
 e S 28 44

 25 eiP 21 22 59.0
 eiS 24 15

 25 eiP 23 44 41.6 C
 micr sec

Mx Z 5.3 15

Mx N 5.7 15

Mx E 4.3 15

D=71.6°

USCGS:

H: 23 33 18.0; 39.6 N; 143.4 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 16 Km.
 Mag: MB: 5.3(CGS).

UPPSALA:

h= 35 Km(Up, Ki, Sk, Um, Ka, Ud).
 m= 5.9, M= 5.5(Up, Ki).

26 e P 01 56 53

UPPSALA:

IRAN. (h= 30 Km).

 26 i P 02 09 09.6 D
 i S 09 23.5

26 e P 08 51 44

 26 eiP 10 34 58 C
 e S 44 04

(cont.)

JUNE 1968

(cont.)

D=69.9°

USCGS:

H: 10 23 48.2; 42.1 N; 142.7 E;
HOKKAIDO, JAPAN REGION. h: 33 Km.
Mag: MB: 5.5, MS: 4.9(CGS).

UPPSALA:

(h= 30 Km).
m= 6.4, M= 5.4(Up, Ki).

26	i PKP	15 59 33
	i PP	16 01 51
	i SKP	02 50.0
	i PKS	03 01
	ei	03 32
		micr sec
	PKP Z'	0.42 1.3
	PKP Z	2.1 3
	SKP Z'	0.72 1.3
	SKP Z	3.1 4

D=130.6°

USCGS:

H: 15 40 31.1; 22.2 S; 171.4 E;
LOYALTY ISLANDS REGION.
h; 90 Km.
Mag: MB: 5.6(CGS).

27 i SKP 02 23 40.0

D=137.2°

USCGS:

H: 02 02 40.2; 20.8 S; 179.0 W;
FIJI ISLANDS REGION.
h: 605 Km.
Mag: MB: 4.9(CGS).

27	e P	07 44 08
	i S	44 22.6
27	e	22 05 42
27	e P	22 21 36
	i	21 41.7

D=74.1°

USCGS:

H: 22 10 03.8; 6.1 N; 120.9 E;
MINDANAO, P.L. REGION.
h: 60 Km.
Mag: MB: 5.3(CGS).

27	i P	22 26 15.5	D
	ei	26 58.7	
	eiS	36 21	

D=82.1°

USCGS:

H: 22 14 01.3; 8.2 S; 119.7 E;
FLORES ISLAND REGION.
h: 86 Km.
Mag: MB: 5.4(CGS).

28 e P 14 35 21

D=71.7°

USCGS:

H: 14 24 00.1; 40.5 N; 143.4 E;
OFF EAST COAST OF HONSHU, JAPAN.
h: 20 Km.
Mag: MB: 4.6(CGS).

UPPSALA:

h= 30 Km(Ki, Um, Ud).

28 eiP 20 42 34.3

D=40.9°

USCGS:

H: 20 34 55.3; 30.1 N; 95.1 E;
TIBET.
h: 44 Km.
Mag: MB: 4.8(CGS).

30	e P	05 06 23
	i S	06 55.8

30	eiP	09 48 23
	e SKS	58 48
	eiS	59 09

D=88.9°

USCGS:

H: 09 35 29.4; 13.0 N; 145.2 E;
MARIANA ISLANDS.
h: 38 Km.
Mag: MB: 5.2, MS: 5.4(CGS).

UPPSALA:

h= 50 Km(Um).
m= 6.1, M= 5.5(Up, Ki).

APRIL 1969

M.S.Nabavi

A. Anzabi

20 MAY 1969

 INSTITUTE OF GEOPHYSICS
 TEHRAN UNIVERSITY, IRAN

 THE SEISMOLOGICAL BULLETIN OF
 SEISMOLOGICAL OBSERVATORY OF TABRIZ

JULY 1968

1	iiP	10 56 24.6	C
	i	56 51	
	eiPPP	11 00 50	
	ei	02 28	
	i S	05 34	
	i PS	06 02	
	eiPPS	06 28	
	i	06 38	
		micr sec	
	P Z'	0.77 1.3	
	P Z	9.3 4	
	S N	4.2 6	
	S E	3.1 6	
	Mx Z	14.4 23	
	Mx N	10.9 22	
	Mx E	7.3 22	

D=71.0°

USCGS:

H: 10 45 11.9; 36.0 N; 139.3 E;
 HONSHU, JAPAN.
 h: 67 Km.
 Mag: MB: 5.9(CGS).

UPPSALA:

(h= 70 Km) .m=6.5, M=6.0(Up, Ki).

1	i P	20 01 56.5
	i S	02 24.2
1	e P	22 23 10
	e S	23 13
1	e P	23 32 10
1	e	23 44 24

D=9.0°

USCGS:

H: 23 42 21 ; 29.9 N; 51.5 E;
 SOUTHERN IRAN.
 h: 33 Km.
 Mag: MB: 4.7(CGS).

2	e	04 04 20
	ei	07 08
	e(SKS)	10 22
	ei	11 50
	ei(SP)	14 16

D=116.2°

USCGS:

H: 03 44 48.9; 17.6 N; 100.3 W;
 GUERRERO, MEXICO.
 h: 41 Km.
 Mag: MB: 5.9(CGS), 6.0(PAS), 6.0
 (BRK).

UPPSALA:

h= 80 Km(Ki, Sk, Gb, Um, Ka, Ud).
 m= 6.2, M= 6.3(Up, Ki).

2	eiPKP	04 50 17
	i	50 20.6
		micr sec
	PKP Z'	0.27 1.1

D=142.6°

USCGS:

H: 04 30 52.7; 29.7 S; 177.9 W;
 KERMADEC ISLANDS REGION.
 h: 53 Km.
 Mag: MB: 5.6(CGS).

2	e P	07 24 16
	i S	24 33.0
2	e	09 42 23
2	i P	16 56 17.6 D
	i S	56 48.0
2	e P	18 53 20
	eisP	53 44.5

D=93.7°

USCGS:

H: 18 40 10.1; 2.7 S; 138.9 E;
 WEST NEW GUINEA.
 h: 62 Km.
 Mag: MB: 5.7(CGS).

JULY 1968

2 eiP 22 23 27

D=68.7°

USCGS:

 H: 22 12 25.0; 26.0 N; 128.6 E;
RYUKYU ISLANDS.

h: 33 Km.

Mag: MB: 5.1(CGS).

UPPSALA:

h= 35 Km(Up,Gb,Um).

m= 6.0,M= 5.2(Up,Ki).

3 i PKP 01 30 06.6 D

i 30 09.6

i pPKP 30 18.2

micr sec

PKP Z' 0.3 1.0

D=144.0°

USCGS:

 H: 01 10 35 ; 31.0 S; 176.8 W;
KERMADEC ISLANDS.

h: 33 Km.

Mag: MB: 4.9(CGS).

UPPSALA:

h= 40 Km(Up,Gb,Um,Ud).

3 e P 10 56 55

i S 57 19.2

3 e 19 02 02

3 e P 19 51 56

D=23.3°

USCGS:

 H: 19 46 53.7; 34.7 N; 75.1 E;
EASTERN KASHMIR.

h: 113 Km.

Mag: MB: 4.5(CGS).

3 e P 21 25 04

e S 25 18

4 eiP 00 45 26.5

D=71.9°

USCGS:

 H: 00 34 13.2; 34.8 N; 139.7 E;
NEAR S.COAST OF HONSHU, JAPAN.

h: 104 Km.

Mag: MB: 5.0(CGS).

UPPSALA:

h= 90 Km(Um).

4 e 01 27 33

4 i P 07 23 40 D

D=71.6°

USCGS:

 H: 07 12 24.2; 43.9 N; 147.2 E;
KURILE ISLANDS.

h: 80 Km.

Mag: MB: 5.0(CGS).

UPPSALA:

h= 70 Km(Ud).

m= 6.0(Up,Ki).

4 eiP 07 26 03

e S 27 28

4 eiP 16 48 11

e(S) 49 40

4 i P 21 52 09 D

eiS 55 28.8

iiX 55 39

micr sec

P Z' 1.4 1.3

P Z 22.5 6

X Z 24.6 11

X N 18.7 11

X E 40.0 9

Mx Z 48.7 14

Mx N 75.3 16

Mx E 44.7 16

D=18.2°

USCGS:

 H: 21 47 55.6; 37.8 N; 23.2 E;
SOUTHERN GREECE,

h: 33 Km.

Mag: MB: 5.3(CGS).

BCIS :

 H: 21 47 49 ; 37.9 N; 23.2 E;
MLV= 5.9(Moxa),MLH=5.8(Collm),

5.5(Pruhonice),ML=5.0(Athenes).

UPPSALA:

(h= 30 Km).m= 5.6,M= 5.9(Up,Ki).

4 eiP 23 21 25.6

D=15.0°

USCGS:

 H: 23 17 52.9; 35.4 N; 27.9 E;
DODECANESE ISLANDS.

h: 42 Km.

Mag: MB: 4.4(CGS). (cont.)

(cont.)

JULY 1968

BCIS :

 H: 23 17 53 ; 35.3 N; 27.9 E;
 h: 50 Km.

5 eiPP 01 04 02

D=107.0°

USCGS:

 H: 00 45 17.2; 34.1 N; 119.7 W;
 SOUTHERN CALIFORNIA.

h: 6 Km.

Mag: MB: 5.7(CGS), 5.2(PAS).

UPPSALA:

h=15Km(Ki, Ka, Ud). m=6.1(Up, Ki).

5 e P 03 03 10

5 iiP 11 39 31.0 C

i 39 32.5

i 42 06

i 42 21

i PPP 43 56

eiS 48 45

i SP 49 19

eiSKS 49 25

micr sec

P Z' 1.8 1.5

P Z 19.1 8

P N 4.9 7

P E 4.3 7

Mx Z 97.6 19

Mx N 51.7 18

Mx E 53.9 20

D=71.4°

USCGS:

 H: 11 28 12.6; 38.5 N; 142.0 E;
 NEAR EAST COAST OF HONSHU, JAPAN.

h: 43 Km.

Mag: MB: 5.9, MS: 6.3(CGS), 6(BRK).

UPPSALA:

h=50Km(Up, Ki, Sk, Gb, Um, Ka, Ud).

m= 6.8, M= 6.6(Up, Ki).

6 e 09 17 45

6 eiP 17 35 45 C

D=76.2°

USCGS:

 H: 17 23 55.8; 9.8 N; 126.4 E;
 MINDANAO, PHILIPPINE ISLANDS.

h: 24 Km.

Mag: MB: 5.1(CGS).

 6 eiP 18 07 24.7
 i S 07 42.6

 6 i P 19 42 04.3 D
 i 42 24.0

micr sec

P Z' 0.4 1.2

D=91.9°

USCGS:

 H: 19 28 55.3; 6.4 S; 133.8 E;
 AROE ISLANDS REGION.

h: 27 Km.

Mag: MB: 5.7(CGS).

 7 eiPKP 14 43 02
 ei 43 34

D=141.2°

USCGS:

 H: 14 23 33.6; 22.2 S; 175.1 W;
 TONGA ISLANDS REGION.

h: 33 Km.

Mag: MB: 5.3(CGS).

7 eiP 17 02 21

D=76.2°

USCGS:

 H: 16 50 31.0; 9.8 N; 126.2 E;
 MINDANAO PHILIPPINE ISLANDS.

h: 36 Km.

Mag: MB: 4.8(CGS).

UPPSALA:

h= 40 Km(Sk, Um, Ud),

m= 5.8, M= 5.3(Up, Ki).

7 eiP 21 45 51 C

D=76.0°

USCGS:

 H: 21 34 07.8; 9.6 N; 126.5 E;
 MINDANAO, PHILIPPINE ISLANDS.

h: 69 Km.

Mag: MB: 5.1(CGS).

UPPSALA:

h= 90Km(Ud). M= 5.3(Up, KI).

 8 e P 03 55 50
 eiS 56 29.0

 8 e P 13 18 28
 i 18 37.6

D=16.8°

JULY 1968

(cont.)

USCGS:

 H: 13 14 29.9; 38.0 N; 67.6 E;
 SOUTHEASTERN UZBEK SSR.

h: 28 Km.

Mag: MB: 5.2(CGS).

8	e P	14 31 07	
	e S	31 21	
8	eiP	17 17 40	
	ei	17 52	
	i Mx	20 34	
		micr sec	
	Mx Z	23.2 12	
	Mx N	28.0 16	
	Mx E	42.8 12	

D=9.0°

USCGS:

 H: 17 15 28.3; 29.7 N; 51.1 E;
 SOUTHERN IRAN.

h: 44 Km.

Mag: MB: 4.9, MS: 5.1(CGS).

8	eiP	17 45 09	C
	i	46 00.0	
	i	46 11.5	
	eiS	48 24	
	i ScP	53 16	

D=17.4°

USCGS:

 H: 17 41 05.8; 34.4 N; 25.2 E;
 CRETE.

h: 33 Km.

Mag: MB: 5.3(CGS).

BCIS :

 H: 17 41 09 ; 34.7 N; 25.1 E;
 h: 75 Km.

MLH: 4.8(Pruhonice).

UPPSALA:

(h= 30 Km). m=5.8, M= 5.2(Up, Ki).

8	e P	18 17 43	
	i S	17 57.5	
8	i P	21 36 43	C
	ei	36 55	
	i S	46 34	

D= 77.3°

USCGS:

 H: 21 24 48.3; 28.8 N; 142.5 E;
 BONIN ISLANDS REGION.

h: 33 Km.

Mag: MB: 5.3(CGS).

UPPSALA:

h= 30 Km(Up, Um, Ud).

m= 5.8, M= 5.2(Up, Ki).

10	i P	00 53 23	C
	ei	53 50	
	i S	01 03 54	

D=85.4°

USCGS:

 H: 00 40 45.9; 10.5 N; 138.6 E;
 WEST CAROLINE ISLANDS.

h: 33 Km.

Mag: MB: 5.1, MS: 5.3(CGS).

UPPSALA:

(h= 30 Km). M= 5.7(Up, Ki).

10	e P	08 58 43	
	i	58 47.1	
	i S	59 41.2	

D=5.1°

USCGS:

 H: 08 57 24 ; 40.9 N; 51.6 E;
 CASPIAN SEA.

h: 33 Km.

Mag: MB: 4.5(CGS).

10	eiP	11 28 55	
	i SKS	39 03	
		micr sec	
	Mx Z	11.4 19	
	Mx N	13.0 20	
	Mx E	4.9 20	

D=80.2°

USCGS:

 H: 11 16 44.6; 36.8 S; 78.5 E;
 MID-INDIAN RISE.

h: 33 Km.

Mag: MB: 5.7, MS: 6.1(CGS), 6(PAS).

10	eiP	19 48 17	
----	-----	----------	--

UPPSALA:

Luzon.

JULY 1968

10 i P 20 51 50 C
 eipP 51 58
 eiPP 54 30
 eiPPP 56 13
 micr sec
 Mx Z 10.3 16
 Mx N 11.3 16
 Mx E 6.3 16

D=71.2°

USCGS:

H: 20 40 31.2; 40.2 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 Mag: MB: 5.3(CGS).

UPPSALA:

(h= 30 Km).m= 6.0,M= 5.9(Up,Ki).

10 e P 22 24 13

10 e 22 31 10

10 eiP 22 32 28

D=71.2°

USCGS:

H: 22 21 10.5; 40.3 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 Mag: MB: 4.7(CGS).

12 i P 00 55 58.0 C
 i PcP 56 19.5
 eiPPP 01 00 21
 i S 05 15
 i sS 05 30

micr sec
 P Z 5.5 8
 S N 11.5 10
 S E 6.2 10
 Mx Z 26 16
 Mx N 26 15
 Mx E 17.7 16

D=71.6°

USCGS:

H: 00 44 36.5; 39.5 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 28 Km.
 Mag: MB: 6.0,MS: 5.8(CGS),6¼
 (PAS),6(GOL).

UPPSALA:h= 35 Km(Um,Ud).

m= 6.5, M= 6.4(Up,Ki).

12 i P 04 07 49 C
 eiPPP 12 16
 i S 17 05

D=71.6°

USCGS:

H: 03 56 27.5; 39.5 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 26 Km.
 Mag: MB: 5.5,MS: 5.5(CGS).

UPPSALA:

h= 30 Km(Up).
 m= 6.2,M= 5.9(Up,Ki).

12 e P 08 11 10
 e S 11 31

12 e 10 36 23
 e(S) 37 41

D=9.0°

USCGS:

H: 10 34 03.1; 29.8 N; 50.6 E;
 SOUTHERN IRAN.
 h: 24 Km.
 Mag: MB: 4.8(CGS).

12 e P 12 13 32
 i X 13 34.1

micr sec
 X Z' 0.26 0.8

D=25.5°

USCGS:

H: 12 07 57.2; 49.7 N; 78.1 E;
 EASTERN KAZAKH SSR.
 h: 0 Km
 Mag: MB: 5.4(CGS).

UPPSALA:

m= 5.9(Up,Ki).
 Underground Explosion.

12 e P 13 43 48
 eiS 44 32

D=4.2°

USCGS:

H: 13 42 40.6; 38.6 N; 41.3 E;
 TURKEY.
 h: 33 Km.
 Mag: MB: 4.3(CGS).

JULY 1968

 14 e P 20 16 56
 e S 17 33

14 e 21 04 12

D=71.9°

USCGS:

 H: 20 52 33 ; 40.0 N; 144.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 43 Km.
 Mag: MB: 4.3(CGS).

UPPSALA:

(h= 40 Km).M= 5.3(Up,Ki).

 14 e P 22 36 25
 e S 37 48

D=7.2°

USCGS:

 H: 22 34 37 ; 39.2 N; 55.7 E;
 TURKMEN SSR.
 h: 33 Km.
 Mag: MB: 4.3(CGS).

15 ei 00 04 30.0

 15 e P 08 35 07
 i 35 23.5
 i 36 52.8

D=6.0°

USCGS:

 H: 08 33 37.5; 32.5 N; 48.7 E;
 WESTERN IRAN.
 h: 33 Km.
 Mag: MB: 4.6(CGS).

 15 e P 09 11 18
 e 11 34
 ei 15 54

UPPSALA:

Arabian Sea.

15 e 20 35 23

 16 e P 12 50 25
 e S 50 54

 16 e P 19 15 16
 e S 15 35

 16 eiP 20 12 13.0
 eiS 13 07

16 eiP 22 30 44

D=40.5°

USCGS:

 H: 22 23 07 ; 30.3 N; 94.8 E;
 TIBET.
 h: 40 Km.
 Mag: MB: 4.8(CGS).

UPPSALA:

h= 25 Km(Sk).

 17 i P 10 28 00
 i S 28 10.0

 17 e P 13 11 00
 i S 11 10

17 e P 22 15 59

 18 e P 00 38 41
 eiS 48 52

D=82.1°

USCGS:

 H: 00 26 26.0; 2.4 N; 128.3 E;
 HALMAHERA.
 h: 69 Km.
 Mag: MB: 5.5(CGS).

18 eiP 01 11 15 C

D=73.6°

USCGS:

 H: 00 59 43.2; 46.1 N; 153.1 E;
 KURILE ISLANDS.
 h: 43 Km.
 Mag: MB: 4.9(CGS).

UPPSALA:

 h= 50 Km(Up,Ka,Ud).
 m= 6.0(Up,Ki).

18 eiP 11 32 20 C

D=71.4°

USCGS:

 H: 11 20 59.7; 40.2 N; 143.6 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 37 Km.
 Mag: MB: 4.5(CGS).

UPPSALA:

h= 40 Km(Ud).M= 5.3(Up,Ki).

JULY 1968

19 eiP 05 05 34
 i 05 40
 i PP 07 31
 i PPP 08 38
 eiS 12 51
 micr sec
 Mx Z 8.8 18
 Mx N 13.8 19
 Mx E 10.3 19

D=51.6°

USCGS:

H: 04 56 27.2; 8.7 N; 93.6 E;
 NICOBAR ISLANDS REGION.
 h: 33 Km.
 Mag: MB: 5.3, MS: 5.5(CGS).

UPPSALA:

h= 30 Km(Up, Ki, Sk, Gb, Um, Ka, Ud).
 m= 6.0, M= 5.9(Up, Ki).

20 e P 10 31 42
 e S 32 16
 20 e 18 13 23
 21 e P 01 49 52

D=47.2°

USCGS:

H: 01 41 19.5; 55.2 N; 113.3 E;
 EAST OF LAKE BAIKAL.
 h: 33 Km.
 Mag: MB: 5.1(CGS).

21 e SKP 01 51 12

D=137.7°

USCGS:

H: 01 30 14.3; 21.9 S; 179.4 W;
 FIJI ISLANDS REGION.
 h: 600 Km.
 Mag: MB: 4.6(CGS).

21 i P 06 05 29.4
 i S 05 56.5

21 eiPP 06 10 30
 i (S) 18 05
 ei(SP) 19 42

D=103.3°

USCGS:

H: 05 52 10.4; 3.2 S; 150.7 E;
 NEW IRELAND REGION.

h: 5 Km.

Mag: MB: 5.3, MS: 5.7(CGS), 6(PAS),
 5½(PAL).

UPPSALA:

(h= 5 Km).

m= 6.4, M= 6.0(Up, Ki).

21 e P 10 56 46
 eiS 57 23

21 e P 13 01 16
 e S 02 30

21 e P 17 02 44
 e S 04 20

D=8.8°

USCGS:

H: 17 00 32 ; 30.1 N; 50.9 E;
 IRAN.
 h: 33 Km.

21 e 17 47 30

D=127.4°

USCGS:

H: 17 28 17.6; 58.1 S; 148.3 E;
 WEST OF MACQUARIE ISLAND.
 h: 33 Km.
 Mag: MB: 4.9, MS: 5.9(CGS).

21 i P 21 12 39.5 D
 i S 21 00

D=68.6°

USCGS:

H: 21 02 31.5; 49.7 N; 147.8 E;
 SEA OF OKHOTSK.
 h: 576 Km.
 Mag: MB: 4.9(CGS).

UPPSALA:

h= 620 Km(Up, Ki, Sk, Um, Ud).

22 e P 00 25 02

D=69.2°

USCGS:

H: 00 13 53.0; 42.3 N; 142.3 E;
 HOKKAIDO, JAPAN REGION.
 h: 31 Km.
 Mag: MB: 4.7(CGS).

22 eiPP 05 27 04

D=100.0°

(cont.)

(cont.)

JULY 1968

USCGS:

H: 05 09 15.7; 54.6 S; 1.7 E;
BOUVET ISLAND REGION.
h: 33 Km.
Mag: MB: 5.6, MS: 5.5(CGS).

22 eiPKP 18 17 34
i pPKP 17 45.2
i PP 19 35

D=127.4°

USCGS:

H: 17 58 30.3; 20.1 S; 169.0 E;
NEW HEBRIDES ISLANDS.
h: 34 Km.
Mag: MB: 5.4, MS: 5.5, 5.6-5.9
(BRK), 5½(PAL).

22 eiP 22 44 31.3

D=73.5°

USCGS:

H: 22 33 43.2; 30.3 N; 138.4 E;
SOUTH OF HONSHU, JAPAN.
h: 438 Km.
Mag: MB: 5.0(CGS).

23 i P 08 39 26.7 C
i S 39 40.1

23 e P 11 12 18
i S 12 29.3

23 e P 16 52 29
i S 52 47.5

23 e 18 48 33

D=118.2°

USCGS:

H: 18 28 01.2; 18.7 N; 107.0 W;
OFF COAST OF JALISCO, MEXICO.
h: 33 Km.
Mag: MB: 5.4, MS: 5.9(CGS), 6.0
(PAS), 5.5-5.7(BRK), 5¾(PAL),
5¾(GOL).

23 e P 19 43 54
i S 44 09.5

23 eiP 20 59 28.0

D=40.5°

USCGS:

H: 20 51 47.9; 30.3 N; 94.9 E;

TIBET.

h: 30 Km.

Mag: MB: 4.9(CGS).

23 i P 23 12 57 C
eiPP 16 39
eiS 23 10

micr sec

Mx Z 15.3 16

Mx N 14.0 15

Mx E 8.7 16

D=71.2°

USCGS:

H: 23 02 35.5; 40.3 N; 143.3 E;
OFF EAST COAST OF HONSHU, JAPAN.

h: 14 Km.

Mag: MB: 5.2, MS: 5.6(CGS), 5¾(GOL).

UPPSALA:

h= 30Km(Up,Um), m= 6.1, M=6.0(Up,Ki).

25 eiP 07 40 02
i(PKP) 42 27 C
i PKP 42 34.2
i 42 41.0

i pPKP 42 53.5

i PP 45 45

i 48 34

i PPP 48 58

i 55 58

i ScPPKP 58 18

micr sec

PKP Z' 1.3 1.0

PKP Z 80.2 18

Mx Z 166.1 20

Mx N 96.5 20

Mx E 156.3 20

(PKP) are precursors of smaller
amplitude and longer period
than PKP .

D=142.3°

USCGS:

H: 07 23 07.8; 30.8 S; 178.4 W;
KERMADEC ISLANDS REGION.

h: 60 Km.

Mag: MB: 6.4(CGS), 7-7¼(PAS), 6.5
6.9(BRK), 6¾-7(PAL), 6¾-7(GOL).

25 e P 09 52 14
eiS 53 05

JULY 1968

25 i P 11 01 47 C
 i pP 01 55.8
 i sP 01 59.7
 i PcP 02 07.5
 i sPcP 02 20.4
 i 03 06.8
 i(S) 11 03
 micr sec
 P Z' 0.28 1.0
 P Z 5.2 5
 pP Z' 0.92 1.3

D=70.2°

USCGS:

H: 10 50 31.5; 45.7 N; 146.7 E;
 KURILE ISLANDS.
 h: 16 Km.
 Mag: MB: 5.9, MS: 5.5(CGS).

UPPSALA:

h= 35 Km(Up, Ki, Sk, Gb, Um, Ka).
 m= 5.9, M= 5.8(Up, Ki).

25 e P 21 48 41
 ei(S) 48 56.3

25 e P 22 10 09
 ei 10 18

D=20.5°

USCGS:

H: 22 05 28.8; 40.9 N; 20.0 E;
 GREECE-ALBANIA BORDER REGION.
 h: 22 Km.
 Mag: MB: 4.5(CGS).

26 e PP 06 53 39
 ei 07 03 32

D=113.5°

USCGS:

H: 06 33 59.6; 14.4 N; 93.0 W;
 NEAR COAST OF CHIAPAS, MEXICO.
 h: 14 Km.
 Mag: MB: 4.9, MS: 5.7, 5.6-5.8
 (BRK), 5½(PAL).

UPPSALA:

(h= 15 Km). m=6.2, M=5.6(Up, Ki).

26 eiP 17 19 43.5
 ei 30 02

D=81.7°

USCGS:

H: 17 07 24.9; 22.4 S; 12.6 W;
 SOUTH ATLANTIC RIDGE.
 h: 33 Km.
 Mag: MB: 5.3(CGS).

26 e P 20 52 42
 i 52 46.7

D=20.4°

USCGS:

H: 20 48 03.2; 32.1 N; 70.1 E;
 WEST PAKISTAN.
 h: 35 Km.
 Mag: MB: 4.8(CGS).

26 i P 23 23 00.8 D

27 i P 02 49 23 C
 i(S) 52 14
 i 54 44

micr sec

P Z' 3.8 2.5
 P Z 9.4 6
 Mx Z 58.2 11

D=15.0°

USCGS:

H: 02 45 49.2; 35.4 N; 27.8 E;
 DODECANESE ISLANDS.
 h: 21 Km.
 Mag: MB: 5.0, MS: 5.7(CGS), 5½
 (PAL), 5½-5½(GOL).

BCIS :

H: 02 45 50 ; 35.4 N; 27.9 E;
 MLH= 5.7(Pruhonice), 4.8(Athenes).

27 e P 03 46 41
 i S 47 03.1

27 e P 16 17 27
 eiS 17 52.5

28 eiPKP 00 00 06.7
 eipPKP 00 16.3

D=144.1°

USCGS:

27 H: 23 40 33 ; 30.9 S; 176.7 W;
 KERMADEC ISLANDS.
 h: 27 Km.
 Mag: MB: 4.5(CGS).

28 e 02 08 02

JULY 1968

 28 ei(PKP) 11 17 50
 eiPP 20 54

D=141.6°

USCGS:

 H: 10 58 25.7; 22.5 S; 174.7 W;
 TONGA ISLANDS REGION.

h: 33 Km.

Mag: MB: 5.0, MS: 5.2(CGS).

UPPSALA:

h: 40 Km(Gb, Ka).

 28 eiP 21 24 14 C
 i S 33 42

micr sec

Mx Z 14.0 13

Mx N 10.9 12

Mx E 13.0 16

D=73.9°

USCGS:

 H: 21 12 38.1; 55.4 N; 166.6 E;
 KOMANDORSKY ISLANDS REGION.

h: 27 Km.

 Mag: MB: 5.4, MS: 5.8(CGS), 5.5-
 5.7(BRK), 5¼(GOL), 5¼(PAL).

UPPSALA:

(h= 25 Km), m= 6.1, M=5.7(Up, KI).

 29 i PKP 11 31 21 C
 i PP 34 33
 i SKP 35 09

micr sec

PKP Z 3.3 7.0

D=141.4°

USCGS:

 H: 11 11 59.5; 22.5 S; 175.0 W;
 TONGA ISLANDS REGION.

h: 33 Km.

Mag: MB: 5.6, MS: 6.0(CGS).

29 e 12 42 34

 29 i PP 13 48 49
 ei 50 36

D=103.2°

USCGS:

 H: 13 30 31.9; 3.2 S; 150.6 E;
 NEW IRELAND REGION.

h: 28 Km.

Mag: MB: 5.4, MS: 5.7(CGS).

 29 eiP 16 05 14
 i S 05 23.0
 i 06 28.3

D=6.1°

USCGS:

 H: 16 03 42.1; 36.5 N; 53.7 E;
 IRAN.

h: 14 Km.

Mag: MB: 4.8(CGS).

 30 iiP 00 05 07.4 C
 i 05 09.3

i PP 08 35

i 09 29

i SKS 15 40

i S 15 52

micr sec

P Z' 0.64 1.4

P Z 14.0 8

S N 17 18

S E 6.3 13

D=87.8°

USCGS:

 29 H: 23 52 15.0; 0.2 S; 133.4 E;
 WEST NEW GUINEA REGION.

h: 12 Km.

 Mag: MB: 6.1, MS: 6.0(CGS), 6½
 (PAS), 6½(PAL).

UPPSALA:

h= 35 Km(Up, Sk, Gb, Ud).

m= 6.7, M= 6.4(Up, Ki).

 30 eiP 00 17 04.6 D
 eipP 17 19
 i sP 17 30

micr sec

P Z' 0.16 1.0

D=78.6°

USCGS:

 H: 00 05 07.5; 9.3 S; 114.0 E;
 SOUTH OF BALI ISLANDS.

h: 64 Km.

Mag: MB: 5.3(CGS).

 30 i(PKP) 04 29 36
 e(PP) 32 36

micr sec

(PKP)Z 1.1 5

D=141.4°

(cont.)

JULY 1968

(cont.)

USCGS:

 H: 04 10 12.1; 22.4 S; 175.0 W;
 TONGA ISLANDS REGION.

h: 33 Km.

 Mag: MB: 5.3, MS: 5.7(CGS), 5.5-
 5.7(BRK), 6(PAL).

 30 i P 17 45 55.4
 micr sec
 P Z' 0.11 0.6
 D=72.4°

USCGS:

 H: 17 34 29.0; 44.1 N; 148.8 E;
 KURILE ISLANDS.

h: 35 Km.

Mag: MB: 5.2(CGS).

 30 e P 20 54 07
 eiPKP 57 37
 ei 59 09
 eiPP 59 19
 eiSKS 21 04 39
 ei 06 14
 i PS 09 13
 micr sec
 Mx Z 13,8 19
 Mx N 12.7 19
 Mx E 8.0 20

D=122.9°

USCGS:

 H: 20 38 42.0; 6.9 S; 80.5 W;
 NEAR COAST OF NORTHERN PERU.

h: 37 Km.

 Mag: MB: 5.8, MS: 6.4(CGS), 6.0-
 6.2(BKS), 5½-5¾(PAL), 5¾-6
 (GOL).

UPPSALA:

h= 30 Km(Um, Ud).

m= 6.5, M= 6.0(Up, Ki).

 31 e P 01 48 45
 D=72.1°

USCGS:

 H: 01 37 24.1; 40.3 N; 144.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.

h: 33 Km.

Mag: MB: 4.6(CGS).

UPPSALA:

(h= 30 Km). M= 5.2(Up, Ki).

 31 i P 19 33 00.8
 D=15.0°

USCGS:

 H: 19 29 26.7; 35.5 N; 28.0 E;
 EASTERN MEDITERRANEAN SEA.

h: 27 Km.

Mag: MB: 4.8(CGS).

BCIS :

 H: 19 29 28 ; 35.5 N; 28.0 E;
 ML= 5.1(Athenes), MLH=4.6(Praha),
 4.5(Pruhonic).

31 e P 20 08 05

MAY 1969

M.S.Nabavi

A. Anzabi

11 JUL 1969

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

AUGUST 1968

1 i PKP 00 33 28 C
i 33 38
eiPP 36 35
i SKP 37 02
eiPKS 37 14
isSKP 38 03
isPKS 38 12
micr sec
PKP Z' 0.46 1.3
PKP Z 3.3 7
SKP Z' 0.25 1.3
SKP Z 2.9 4

D=141.6°

USCGS:

H: 00 14 16.0; 26.6 S; 177.5 W;
SOUTH OF FIJI ISLANDS.
h: 123 Km.
Mag: MB: 5.6(CGS), 5.1(BRK), 5½
(PAL).

1 e P 07 49 59
i S 50 47.5
1 iiP 20 30 26.5
iipP 30 36.5
i sP 30 40.5
i PcP 30 51
eiPKPPKP 58 40
micr sec
P Z' 0.26 1.3
P Z 77.3 16
P N 4.7 16
P E 24.0 16

D=69.0°

USCGS:

H: 20 19 21.9; 16.5 N; 122.2 E;
LUZON, PHILIPPINE ISLANDS.
h: 36 KM.
Mag: MB: 5.9, MS: 7.3(CGS), 7(PAS),
6.5-7.0(BRK), 7(GOL).

UPPSALA:

(h= 40 Km).
m= 7.1, M= 7.7(Up, Ki).

1 e P 20 54 14

D=69.1°

USCGS:

H: 20 43 10 ; 16.5 N; 122.4 E;
LUZON, PHILIPPINE ISLANDS.
h: 33 Km.
Mag: MB: 4.9(CGS).

UPPSALA:

h= 45 Km(Ki).

1 e 20 55 15

1 e 20 56 27

1 eiP 21 08 27.5

D=69.4°

USCGS:

H: 20 57 18 ; 16.0 N; 122.2 E;
LUZON, PHILIPPINE ISLANDS.
h: 33 Km.
Mag: MB: 4.9(CGS).

1 e P 21 26 09

UPPSALA:

Luzon(h= 30 Km).

1 ei 23 18 05

2 i P 04 00 07.5 D

i 00 12.5

i S 00 42 0

D=2.7°

USCGS:

H: 03 59 23.8; 36.6 N; 49.1 E;
WESTERN IRAN.
h: 10 Km.
Mag: MB: 4.4(CGS).

2 i P 13 34 08 C

i PP 34 25.7

i sPP 34 44.5

i 36 15

i(S) 37 12

(cont.)

AUGUST 1968

(cont.)

		micr	sec	
P	Z'	0.46	1.2	
D=16.1°				

USCGS:

H: 13 30 23.3; 27.5 N; 60.9 E;
SOUTHERN IRAN.
h: 62 Km.
Mag: MB: 5.7(CGS).

2	i P	14 21 39	C
	ei	24 35	
	i	26 16	
	i(PP)	26 27	

		micr	sec
P	Z	10.5	20
(PP)	Z	99.2	20
(PP)	N	29	19
(PP)	E	21	18

D=116.0°

USCGS:

H: 14 06 43.9; 16.6 N; 97.7 W;
OAXACA, MEXICO.
h: 40 Km.
Mag: MB: 6.3, MS: 7.1(CGS), 7-7¼
(PAS), 6.8(BRK), 6¾-7(PAL), 7-7¼
(GOL).

3	iiP	05 05 38.8	D
	i pP	05 50.5	
	i PcP	06 02.5	
	i(PP)	08 08	
	i S	14 42	
	e SP	15 56	
	i SS	19 06	
	e PKPPKP	33 47	

		micr	sec
P	Z'	16.0	2
P	Z	33.8	10
P	N	4.2	10
P	E	14.1	12
S	N	23.3	16
S	E	26.9	10

D=68.9°

USCGS:

H: 04 54 32.7; 25.6 N; 128.5 E;
RYUKYU ISLANDS.
h: 19 Km.
Mag: MB: 6.4, MS: 6.7(CGS), 6¾
(PAS), 6.7-6.9(BRK).

UPPSALA:

h= 50 Km(Ki, Ka, Ud).
m= 7.0, M= 7.3(Up, Ki).

3	i P	06 36 11.2	C
	i pP	36 20.9	
	i PcP	36 36.3	
	i	37 17.0	
	eiPP	38 42	
	i PPP	40 26	
	e S	45 20	

		micr	sec
P	Z'	1.6	1.5
P	Z	14.0	8
Mx	Z	26.5	18
Mx	N	26.5	18
Mx	E	21.0	19

D=69.0°

USCGS:

H: 06 25 05.8; 16.5 N; 122.3 E;
LUZON, PHILIPPINE ISLANDS.
h: 37 Km.
Mag: MB: 5.9, MS: 5.9(CGS).

UPPSALA:

h= 30 Km(Up, Ki, Um, Ud).
m= 6.6, M= 6.5(Up, Ki).

3	eiP	14 06 03	C
	e (S)	09 36	
		micr	sec
	Mx Z	9.8	17
	Mx N	7.3	16
	Mx E	5.7	16

D=18.5°

USCGS:

H: 14 01 46.5; 25.8 N; 62.8 E;
WESTERN PAKISTAN.
h: 40 Km.
Mag: MB: 4.7(CGS).

3	eiP	19 30 09	C
	eiS	39 14	
	ei	40 30	

D=69.2°

USCGS:

H: 19 19 01.6; 16.3 N; 122.4 E;
LUZON, PHILIPPINE ISLANDS.
h: 22 Km.
Mag: 5.2(CGS).

AUGUST 1968

 3 e P 22 46 18
 i S 46 56

 4 iiP 11 53 17 C
 i 53 38
 iiPP 56 19
 ei 12 02 40
 ii(S) 03 10

		micr	sec
P	Z	31.1	12
(S)	N	8.5	8
(S)	E	8 0	12

D=78.5°

USCGS:

H: 11 41 24.8; 6.6 N; 126.8 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 107 Km.
 Mag: MB: 5.7(CGS), 6¼(PAS), 6.3-
 6.5(BRK).

UPPSALA:

h=120 Km(Ki, Sk, Um).
 m=6.5, M=6.3(Up, Ki).

 4 eiP 18 22 11
 i 22 16.5
 i 22 22.3

D=15.0°

USCGS:

H: 18 18 37.8; 35.4 N; 27.9 E;
 DODECANESE ISLANDS.
 h: 41 Km.
 Mag: MB: 4.5(CGS).

BCIS :

H: 18 18 39 ; 35.3 N; 28.0 E;
 h: 60 Km.
 ML: 4.0(Athenes).

4 e P 23 28 55

D=20.2°

USCGS:

H: 23 24 18 ; 37.7 N; 20.7 E;
 IONIAN SEA.
 h: 31 Km.
 Mag: MB: 4.4(CGS).

5 e P 08 29 16

 5 iiP 16 27 59.3 C
 i pP 28 11.4

i PcP 28 26.6

i PP 30 27

i PFP 32 06

iiS 36 45

ii 36 54

ii (ScS 37 51

ii (SKS

e PKPPKP 56 20

		micr	sec
P	Z'	0.67	1.1

P	Z	8.1	8
---	---	-----	---

P	N	1.8	7
---	---	-----	---

P	E	2.8	7
---	---	-----	---

S	N	3.6	11
---	---	-----	----

S	E	26.1	11
---	---	------	----

Mx	Z	51	22
----	---	----	----

Mx	N	37.3	20
----	---	------	----

Mx	E	38.8	18
----	---	------	----

D=67.5°

USCGS:

H: 16 17 04.8; 33.3 N; 132.2 E;
 SHIKOKU, JAPAN.

h: 41 Km.

Mag: MB: 6.3, MS: 6.1(CGS), 7-7¼
 (PAS), 6.4-6.6(BRK).

 6 eiP 05 04 08 C
 e 13 18

D=69.2°

USCGS:

H: 04 53 04.6; 15.7 N; 121.9 E;
 LUZON, PHILIPPINE ISLANDS.

h: 50 Km.

Mag: MB: 5.2(CGS).

UPPSALA:

h= 30 Km(Up, Ki, Sk, Gb, Um, Ka, Ud).
 m= 5.9, M= 5.4(Up, Ki).

 6 i P 08 40 03 C
 ei(S) 44 27

		micr	sec
P	Z	3.7	4.0

S	Z	5.2	13
---	---	-----	----

S	N	10.4	13
---	---	------	----

S	E	4.2	13
---	---	-----	----

Mx	Z	20	16
----	---	----	----

Mx	N	14.8	9
----	---	------	---

Mx	E	27.6	9
----	---	------	---

		micr	sec
		27.6	9

D=24.6°

AUGUST 1968

(cont.)

USCGS:

H: 08 34 42.3; 13.9 N; 51.5 E;
EASTERN GULF OF ADEN.
h: 33 Km.
Mag: MB: 4.9(CGS).

UPPSALA:

h= 45 Km(Ki,Um).
M= 5.0(Up,Ki).

6	i P	13 43 57.4
	i(S)	44 18.0
6	e	23 55 49

D=69.2°

USCGS:

H: 23 44 35 ; 15.5 N; 121.8 E;
LUZON, PHILIPPINE ISLANDS.
h: 33 Km.
Mag: MB: 5.1(CGS).

7	e	00 05 18
7	i P	08 11 25.5 C
	ei	11 43
	ei	13 57
	i S	20 33
	ei(sS)	21 56
		micr sec
	P Z'	0.16 1.0
	P Z	2.9 4

D=70.4°

USCGS:

H: 08 00 13.4; 43.1 N; 144.6 E;
HOKKAIDO, JAPAN REGION.
h: 54 Km.
Mag: MB: 5.6(CGS).

UPPSALA:

h: 55 Km(Up,Ki,Gb,Um,Ka,Ud).
m: 6.2,M: 5.4(Up,Ki).

7	e P	21 47 37
	i S	47 53.0
8	i P	05 06 33
	i	06 35.0
	i pP	06 44.3
	i	06 54.2
		micr sec
	Mx Z	5.8 22

D=72.1°

USCGS:

H: 04 55 10.0; 36.4 N; 141.4 E;
NEAR EAST COAST OF HONSHU, JAPAN.
h: 41 Km.
Mag: MB: 5.4(CGS).

UPPSALA:

h: 40 Km(Up,Ki,Sk,Gb,Um,Ka,Ud).
m: 6.1,M: 5.5(Up,Ki).

8	e	09 31 02
9	ei(PKP)	03 28 01

D=156.5°

USCGS:

H: 03 08 04.2; 22.4 S; 113.0 W;
EASTER ISLAND REGION.
h: 33 Km.
Mag: MB: 5.4, MS: 5.8(CGS), 6¼-6½
(PAS), 5.8-6.0(BRK).

9	e P	17 06 37
10	i P1	02 19 20.2 C
	i P2	19 26.2
	i Pf1	22 28.0
	i PP2	22 34.8
	i(S2)	29 32
		micr sec
	P1Z'	1.5 1.3
	P2Z'	4.7 1.2
	P1Z	7.3 6
	P1N	7.5 7
	P1E	3.6 5
	P2N	16.1 10
	P2E	71.4 18

D=81.2°

USCGS:

H: 02 07 04.3; 1.4 N; 126.2 E;
MOLUCCA PASSAGE.
h: 33 Km.
Mag: MB: 6.3, MS: 7.6(CGS), 7¼-
7½(PAS), 7.6-8(BRK), 7.5(PAL).

UPPSALA:

(h= 30 Km).m=7.5,M=7.9(Up,Ki).

10	eiP	02 35 14
10	i P	04 10 48.0
	i PcP	10 54.3

D=81.7°

AUGUST 1968

(cont.)

USCGS:

 H: 03 58 31.5; 1.3 N; 126.6 E;
 MOLUCCA PASSAGE.
 h: 33 Km.

 10 i P 04 28 45.0
 i 28 48.8

D=3.0°

USCGS:

 H: 04 27 59.8; 36.9 N; 43.0 E;
 IRAQ.
 h: 29 Km.
 Mag: MB: 5.0(CGS).

 10 i P 06 04 02 C
 i PP 07 09.0
 i 14 05
 i S 14 09
 i 14 32

	micr	sec
P Z	19.0	8
PP Z'	1.0	1.6
S N	13	12
S E	30	13

D=81.2°

USCGS:

 H: 05 51 47.9; 1.5 N; 126.2 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 6.2, MS: 6.6(CGS).

UPPSALA:

 h= 40 Km(Ki, Gb, Ud).
 m= 6.7, M= 6.7(Up, Ki).

 10 e P 08 22 30
 ei 32 48

D=81.1°

USCGS:

 H: 08 10 16.3; 1.6 N; 126.2 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.6(CGS).

UPPSALA:

 h= 50 Km(Ki, Sk, Um, Ud).
 M= 5.5(Up, Ki).

 10 eiP 16 52 31.5
 e pP 52 40
 eiS 17 01 36

D=69.1°

USCGS:

 H: 16 41 25.4; 15.5 N; 121.6 E;
 LUZON, PHILIPPINE ISLANDS.
 h: 33 Km.
 Mag: MB: 5.4, MS: 5.2(CGS).

UPPSALA:

 h= 35 Km(Ki, Sk, Um, Ud).
 m= 5.9, M= 5.5(Up, Ki).

10 e P 18 00 22

UPPSALA:

MOLUCCA PASSAGE. (h= 30 Km).

10 e SKP 19 40 46

D=129.5°

USCGS:

 H: 19 18 43.0; 21.5 S; 170.4 E;
 LOYALTY ISLANDS REGION.
 h: 136 Km.
 Mag: MB: 5.1(CGS).

10 e P 20 01 03

D=68.9°

USCGS:

 H: 19 49 58.6; 17.0 N; 122.4 E;
 LUZON, PHILIPPINE ISLANDS.
 h: 43 Km.
 Mag: MB: 4.9(CGS).

11 e P 09 12 36

D=80.8°

USCGS:

 H: 09 00 24.5; 1.8 N; 126.1 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.2(CGS).

11 e P 10 14(56)

D=81.2°

USCGS:

 H: 10 02 40.3; 1.5 N; 126.3 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.3(CGS).

 11 eiP 12 49 29
 e pP 50 08

AUGUST 1968

(cont.)

e sP 50 22
 i S 59 29
 eiSP 13 00 16
 i sS 00 33

D=81.5°

USCGS:

H: 12 37 28.1; 52.1 N; 179.9 W;
 ANDREANOF ISLANDS, ALEUTIAN IS.
 h: 159 Km.
 Mag: MB: 5.5(CGS), 5.1(BRK).

UPPSALA:

h= 150 Km(Up, Ki, Um, Ka).
 m= 6.1(Up, Ki).

11 eiP 15 20 08.3
 ei(S) 30 17

D=81.0°

USCGS:

H: 15 07 53.0; 1.8 N; 126.3 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.1(CGS).

11 i P 20 12 59 C
 i 13 01.4
 i 13 04.0
 i 13 15.0
 i 13 30.7
 i 13 35.0
 i 15 25.4
 ei 19 39
 i S 23 05
 i 23 26
 i 23 44

	micr	sec
P Z'	0.4	1.0
P Z	12.3	7
S N	2.7	6
S E	4.9	13

D=81.0°

USCGS:

H: 20 00 43.4; 1.6 N; 126.1 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.9, MS: 6.0(CGS), 6¼
 (PAS), 5.9(BRK).

11 eiP 21 17 06.5 C

D=81.5°

USCGS:

H: 21 04 48.6; 1.3 N; 126.4 E;
 MOLUCCA PASSAGE,
 h: 33 Km.

11 ei 21 42 37

11 ei 22 17 46

11 eiP 22 20 12

D=81.1°

USCGS:

H: 22 07 56.9; 1.7 N; 126.3 E;
 MOLUCCA PASSAGE.
 h: 33 Km.

11 ei 22 35 20

12 eiP 01 00 06

12 i P 13 56 02 C

	micr	sec
--	------	-----

P Z'	0.47	1.4
------	------	-----

D=81.1°

USCGS:

H: 13 43 45.9; 1.7 N; 126.3 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.4(CGS).

12 eiPKP 18 26 41.0 C

i 28 30.5

ei 30 22

	micr	sec
--	------	-----

PKP Z'	0.06	0.8
--------	------	-----

D=143.3°

USCGS:

H: 18 07 10.6; 31.4 S; 177.9 W;
 KERMADEC ISLANDS.
 h: 33 Km.
 Mag: MB: 4.9, MS: 5.4(CGS), 5.2-
 5.4(BRK).

12 e 20 43 05

D=70.1°

USCGS:

H: 20 31 52.8; 41.4 N; 142.6 E;
 HOKKAIDO, JAPAN REGION.
 h: 68 Km.
 Mag: MB: 5.2(CGS).

AUGUST 1968

12 e 22 34 31
 13 eiP 00 45 36
 D=81.1°

USCGS:

H: 00 33 23 ; 1.3 N;126.0 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.3(CGS).

13 i P 03 05 06 C
 i pP 05 16.8
 micr sec
 P Z' 1.0 1.3
 D=80.9°

USCGS:

H: 02 52 51.9; 2.0 N;126.3 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.8(CGS).

13 eiP 04 17 42
 D=81.2°

USCGS:

H: 04 05 25.9; 1.9 N;126.6 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.1(CGS).

13 i P 04 41 35.5
 i 41 54.0
 i 42 36.2
 ii 42 52.0

UPPSALA:

TURKEY.

13 e P 08 27 51
 13 eiP 18 40 34
 ei 40 37
 D=81.4°

USCGS:

H: 18 28 17 ; 1.7 N;126.6 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.1(CGS).

13 iiPKP 19 54 06.6 C
 eipPKP 54 37.6

micr sec
 PKP Z' 0.37 1.0
 D=123.8°

USCGS:

H: 19 35 20.9; 15.5 S;167.5 E;
 NEW HEBRIDES ISLANDS.
 h: 125 Km.
 Mag: MB: 5.2(CGS).

13 i P 22 32 17.2
 D=80.5°

USCGS:

H: 22 20 08.7; 9.5 S;116.4 E;
 SUMBAWA ISLAND REGION.
 h: 50 Km.
 Mag: MB: 4.9(CGS).

13 i P 23 05 32.1 D
 i S 06 09

14 i P 00 36 46.0
 micr sec
 P Z' 0.06 1.0
 D=81.2°

USCGS:

H: 00 24 29.3; 1.2 N;126.4 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.0(CGS).

14 i P 01 25 03.4
 i 29 16.0
 e S 34 14
 D=71.9°

USCGS:

H: 01 13 45.2; 55.6 N;162.1 E;
 NEAR EAST COAST OF KAMCHATKA.
 h: 70 Km.
 Mag: MB: 5.3(CGS).

UPPSALA:

h= 35 Km(Up,Ki,Sk,Um,Ud).
 m= 5.9(Up,Ki).

14 i P 08 07 51.0 C
 i 08 11
 eiS 17 04
 i 17 12

(cont.)

AUGUST 1968

(cont.)

		micr	sec
P	Z'	0.7	1.4
P	Z	2.3	4

D=70.0°

USCGS:

 H: 07 56 35.5; 15.1 N; 122.5 E;
 PHILIPPINE ISLANDS REGION.

h: 8 Km.

Mag: MB: 5.4(CGS).

UPPSALA:

(h= 10 Km), m= 6.0, M= 5.6(Up, Ki).

14	i PP	08 58 32	
	eiSKS	09 05 41	
		micr	sec
	Mx Z	10	19
	Mx N	7	18
	Mx E	3	18

D=116.7°

USCGS:

 H: 08 38 48.4; 18.5 N; 102.8 W;
 MICHOACAN, MEXICO.

h: 72 Km.

 Mag: MB: 5.4(CGS), 5.5-5.7(BRK)
 5-5¼(PAL), 6-6¼(GOL).

UPPSALA:

 h= 30 Km(Up, Um, Ud).
 m= 6.4, M= 5.9(Up, Ki).

14	e P	17 28 18	
	i S	28 41.5	
14	i P	18 32 08.0	
	i S	33 08.0	
14	e P	21 16 23	
	ei	16 28.4	
14	e P	21 24 55	
	e S	25 13	
14	i P	22 26 12.2	D
	i X	26 19	
	i Y	26 22.6	
	iiU	26 26.1	
	iiV	26 30.5	
	eiPP	29 08.5	
	iiS	35 58	
	eiSS	41 07	
	i	42 02	

		micr	sec
P	Z'	0.54	1.5
P	Z	72.7	16
X	Z'	3.7	1.5
Y	Z'	3.9	1.5
U	Z'	3.0	1.2
V	Z'	8.3	1.6

D=76.9°

USCGS:

 H: 22 14 19.4; 0.2 N; 119.8 E;
 NORTHERN CELEBES.

h: 23 Km.

 Mag: MB: 6.0, MS: 7.4(CGS), 7¼(PAS)
 6.8-7.2(BRK), 7¼-7½(PAL).

UPPSALA:

(h= 25 Km), m= 7.1, M= 7.5(Up, Ki).

15	i P	00 54 03.2	
	i S	54 28 5	
15	e P	02 33 26	
	i	33 30.2	

D=16.1°

USCGS:

 H: 02 29 45.4; 35.3 N; 26.8 E;
 CRETE.

h: 67 Km.

Mag: MB: 4.8(CGS).

BCIS :

 H: 02 29 46 ; 35.6 N; 27.0 E;
 MLH= 4.8(Pruhonic), ML=4.5(Athenes).

UPPSALA:

(h= 70 Km), M= 5.2(Up, Ki).

15	i P	04 24 52	D
----	-----	----------	---

D=76.5°

USCGS:

 H: 04 13 00.9; 0.6 N; 119.9 E;
 NORTHERN CELEBES.

h: 33 Km.

Mag: MB: 5.3(CGS).

15	i P	05 17 34	
----	-----	----------	--

D=81.1°

USCGS:

 H: 05 05 18.3; 1.6 N; 126.2 E;
 MOLUCCA PASSAGE.

h: 33 Km.

Mag: MB: 5.3 (CGS).

AUGUST 1968

15 i PKP 07 09 37 C
 i 09 40.5
 i X 09 46
 eisPKP 10 43
 i PP 12 41
 iiSKP 13 07
 i sPP 13 43
 i sSKP 14 33
 i PPP 15 48
 i sPPP 16 52
 i 22 38

		micr	sec
X	Z'	0.23	0.7
X	Z	3.1	6
SKP	Z'	0.75	2.0
SKP	Z	5.5	8

D=140.3°

USCGS:

H: 06 50 38.7; 23.8 S; 177.4 W;
 SOUTH OF FIJI ISLANDS.
 h: 188 Km.
 Mag: MB: 5.5(CGS), 6-6¼(PAS).

15 e P 08 38 40

UPPSALA:

Caucasus.

15 i P 11 52 24
 e 12 02 32

D=77.3°

USCGS:

H: 11 40 27.5; 0.2 S; 120.0 E;
 NORTHERN CELEBES.
 h: 11 Km.
 Mag: MB: 5.3(CGS).

15 ei 18 00 26
 i 02 16

D=121.2°

USCGS:

H: 17 41 28.1; 12.7 S; 166.2 E;
 SANTA CRUZ ISLANDS.
 h: 4 Km.
 Mag: MB: 5.4, MS: 5.5(CGS).

15 e P 19 09 25
 i S 09 41

15 i P 21 37 53.5 D
 ei(S) 47 42

D=77.1°

USCGS:

H: 21 26 00.0; 0.1 N; 120.0 E;
 NORTHERN CELEBES.
 h: 33 Km.
 Mag: MB: 5.3, MS: 4.7(CGS).

16 e P 10 26 23
 eiS 26 49

16 i P 10 50 43 C
 i PcP 51 02
 i 51 08
 i PP 53 24
 i PPP 55 08

		micr	sec
--	--	------	-----

P	Z	4.2	6
Mx	Z	11	15
Mx	N	8	15
Mx	E	6.7	15

D=72.2°

USCGS:

H: 10 39 16.8; 38.5 N; 143.3 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 22 Km.
 Mag: MB: 5.6, MS: 5.3(CGS), 5.5-
 5.9(BRK), 5¼-5½(GOL).

16 e 11 20 57

D=81.1°

USCGS:

H: 11 08 38.5; 1.2 N; 126.0 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.0(CGS).

16 i 11 52 08.5

16 i PKP 11 52 28.5
 i SKP 55 06.2
 ei 55 15

		micr	sec
--	--	------	-----

SKP	Z'	0.22	1.0
-----	----	------	-----

D=137.3°

USCGS:

H: 11 34 16.4; 21.1 S; 179.3 W;
 FIJI ISLANDS REGION.
 h: 640 Km.
 Mag: MB: 5.1(CGS).

AUGUST 1968

 16 i P 18 35 29.4
 i S 36 55

 16 e PP 18 45 38
 e SF 55 22

D=115.3°

USCGS:

 H: 18 25 55.1; 16.7 N; 97.7 W;
 OAXACA, MEXICO.

h: 46 Km.

 Mag: MB: 5.4, MS: 5.0(CGS), 4.9-
 5.3(BRK), 5¼(GOL).

17 e 00 40 51

 17 e P 01 41 10
 i S 41 24.0

17 i P 04 12 52.0 D

i X 12 59.0

i 13 11.0

i 13 24.0

i 13 40.0

i 14 12.6

i 14 22.0

iiS 22 58.0

i 23 36

iiY 23 58

	micr	sec
--	------	-----

P Z'	0.22	0.4
------	------	-----

P Z	5.0	4
-----	-----	---

X Z'	0.4	1.0
------	-----	-----

X Z	10.6	9
-----	------	---

S N	5.1	12
-----	-----	----

S E	9.4	12
-----	-----	----

Y N	8.5	8
-----	-----	---

Y E	6.4	9
-----	-----	---

D=81.2°

USCGS:

 H: 04 00 36.3; 1.4 N; 126.3 E;
 MOLUCCA PASSAGE.

h: 33 Km.

 Mag: MB: 5.7, MS: 5.9(CGS), 5.5-
 5.9(BRK), 6-6¼(GOL).

17 i P 04 49 38.4 D

i 49 50.6

i S 59 09

	micr	sec
--	------	-----

P Z'	0.32	1.0
------	------	-----

D=74.6°

USCGS:

 H: 04 38 06.4; 31.6 N; 140.8 E;
 SOUTH OF HONSHU, JAPAN.

h: 82 Km.

Mag: MB: 5.3(CGS), 6.0-6.4(BRK).

UPPSALA:

h= 60 Km(Ki, Sk, Gb).

17 e P 13 41 11

D=80.7°

USCGS:

 H: 13 28 53.0; 1.9 N; 126.1 E;
 MOLUCCA PASSAGE.

h: 33 Km.

Mag: MB: 5.2(CGS).

17 i P 18 59 47.2

ei 19 00 02

D=81.0°

USCGS:

 H: 18 47 29 ; 2.1 N; 126.7 E;
 MOLUCCA PASSAGE.

h: 33 Km.

Mag: MB: 5.1, MS: 4.8(CGS).

17 eiP 21 59 14.2

eipP 59 22.5

D=81.3°

USCGS:

 H: 21 46 59.3; 1.5 N; 126.6 E;
 MOLUCCA PASSAGE.

h: 33 Km.

Mag: MB: 5.1(CGS).

18 i P 05 56 14.0 C

i pP 56 22.9

i 56 33.5

D=81.3°

USCGS:

 H: 05 43 58 ; 1.4 N; 126.4 E;
 MOLUCCA PASSAGE.

h: 33 Km.

Mag: MB: 5.4(CGS).

18 eiP 12 06 37

eiS 16 11

D=74.5°

(cont.)

AUGUST 1968

(cont.)

USCGS:

 H: 11 54 59.4; 48.2 N; 157.3 E;
 KURILE ISLANDS REGION.

h: 27 Km.

Mag: MB: 5.2(CGS).

18 i P 14 26 25.5

D=38.9°

USCGS:

 H: 14 18 59.5; 26.4 N; 90.6 E;
 EASTERN INDIA.

h: 31 Km.

Mag: MB: 5.2(CGS).

18 eiPKP 18 27 28

eiPP 29 02

e PS 38 43

D=121.2°

USCGS:

 H: 18 08 35.3; 12.7 S; 166.2 E;
 SANTA CRUZ ISLANDS.

h: 34 Km.

Mag: MB: 5.2(CGS).

18 eiP 18 52 25.0

eiPKP 56 06.5

iiX 56 12.5

iiY 56 20.0

iiPP 57 18.0

ii 57 28.7

ii 59 07.2

ii 19 00 03.7

i (SKS) 19 02 10

i (SKKS) 03 30

i SP 06 03

ei 06 56.5

iiPKKP 06 59.5

ii 07 07.1

		micr	sec
X	Z'	9.4	1.0
Y	Z'	1.4	0.7
PP	Z'	2.2	1.6
PP	Z	18.6	4.
PKKPZ'		0.52	1.0

USCGS:

 H: 18 38 30.6; 10.1 S; 159.9 E;
 SOLOMON ISLANDS.

h: 538 Km.

Mag: MB: 6.2(CGS).

18 i P 19 09 04.4

iiX 09 07.0

	micr	sec
P Z'	0.4	1.2
X Z'	1.0	1.1

D=81.2°

USCGS:

 H: 18 56 48.2; 1.2 N; 126.1 E;
 MOLUCCA PASSAGE.

h: 33 Km.

Mag: MB: 5.7(CGS).

19 eiP 09 55 12

i S 55 33.8

19 e P 10 11 47

D=50.3°

USCGS:

 H: 10 02 46.2; 9.0 S; 66.1 E;
 MID-INDIAN RISE.

h: 33 Km.

Mag: MB: 4.6(CGS).

19 i SKP 16 05 03 D

	micr	sec
SKP Z	3.0	7.0

D=138.2°

USCGS:

 H: 15 42 29.7; 15.9 S; 174.0 W;
 TONGA ISLANDS.

h: 151 Km.

Mag: MB: 5.3(CGS).

19 i P 17 14 06.0

D=74.4°

USCGS:

 H: 17 02 29 ; 11.8 N; 125.6 E;
 SAMAR, PHILIPPINE ISLANDS.

h: 33 Km.

Mag: MB: 5.3(CGS).

19 e P 22 30 40

i S 30 54.2

19 ei 23 12 56.2

20 i PKP 03 34 31.8

i X 34 38.8

AUGUST 1968

(cont.)

	micr	sec	
PKP Z'	0.11	0.6	
X Z'	0.17	0.7	

D=141.5°

USCGS:

 H: 03 15 46.1; 31.1 S; 179.9 E;
 KERMADEC ISLANDS.

h: 361 Km.

Mag: MB: 4.8(CGS).

20	i P	10 06 49.5	
	i S	07 27.0	
20	i P	11 30 20.5	C
	i pP	30 31.0	
	eiPP	34 13	
	i PS	42 53	

D=94.9°

USCGS:

 H: 11 16 59.3; 5.6 N; 146.9 E;
 CAROLINE ISLANDS REGION.

h: 33 Km.

Mag: MB: 5.6(CGS).

20	i P	12 09 19.5	C
	i S	09 40.5	
	i	09 45.2	

20	e P	18 53 46	
	i S	54 02	

20	eiP	20 15 09	
----	-----	----------	--

21	e P	07 00 07	
----	-----	----------	--

21	eiPKP	18 16 15	
	i SPP	31 44	

	micr	sec	
Mx Z	20.7	21	
Mx N	11.6	18	
Mx E	13.4	20	

D=142.2°

USCGS:

 H: 17 56 48.0; 30.9 S; 179.1 W;
 KERMADEC ISLANDS.

h: 33 Km.

 Mag: MB: 5.3, MS: 6.4(CGS), 6½
 (PAS), 6.4-6.6(BRK), 6¼(PAL),
 6½-6¾(GOL).

22	i P	14 12 03	C
	eipP	12 11.5	
	i PP	14 55	
	i pPP	15 06	
	i PPP	16 44	
	i PPPP	18 10	
	i S	21 50	
	i sS	22 04	
	i PS	22 31	
	i SS	26 57	

	micr	sec	
P Z	6.8	8.0	
Mx Z	37.7	17	
Mx N	22.2	17	
Mx E	23.1	18	

D=77.4°

USCGS:

 H: 14 00 06.8; 53.0 N; 171.0 E;
 NEAR ISLANDS, ALEUTIAN ISLANDS.

h: 33 Km.

 Mag: MB: 5.4, MS: 6.0(CGS), 6.0-
 6.4(BRK), 5¼(PAL), 5¼-6(GOL).

22	i PKP	16 38 27.2	C
	eipPKP	39 10	
	ei	41 30	

	micr	sec	
PKP Z'	0.13	0.8	

D=127.1°

USCGS:

 H: 16 19 39.5; 19.1 S; 169.1 E;
 NEW HEBRIDES ISLANDS.

h: 166 Km.

Mag: MB: 5.1(CGS), 6.0-6.4(BRK).

22	e P	16 53 17	
	ei	53 29	

D=69.1°

USCGS:

 H: 16 42 13.4; 15.4 N; 121.5 E;
 LUZON, PHILIPPINE ISLANDS.

h: 25 Km.

Mag: MB: 5.2(CGS).

22	i P	19 14 54.5	
	i S	15 30.2	

AUGUST 1968

23 i P 08 49 58 C
 D=76.7°
USCGS:
 H: 08 38 07.8; 0.7 N; 119.9 E;
 NORTHERN CELEBES.
 h: 40 Km.
 Mag: MB: 5.4(CGS).

23 i PKP 22 54 39.7 D
 i 57 46
 i SKS 23 00 48
 i SKKS 02 08
 i PKKP (05 00.6
 (05 04.0
 iiSPP 06 30
 ii 07 42
 micr sec
 PKP Z' 0.1 0.6
 D= 118.5°
USCGS:
 H: 22 36 51.3; 22.0 S; 63.5 W;
 SALTA PROVINCE, ARGENTINA.
 h: 537 Km.
 Mag: MB: 5.8(CGS), 5.3-5.5(BRK),
 5.4(PAL).

24 eiP 07 51 02.6
 i S 51 07.6

25 i P 00 11 11 C
 i 11 14.5
 i pP 11 30
 e S 21 18
 D=81.5°
USCGS:
 H: 23 58 58.5; 1.1 N; 126.4 E;
 MOLUCCA PASSAGE.
 h: 60 Km.
 Mag: MB: 5.4(CGS).

25 i P 00 23 45.5
 i pP 24 05.6
 D=81.4°
USCGS:
 H: 00 11 33.2; 1.2 N; 126.1 E;
 MOLUCCA PASSAGE.
 h: 62 Km.
 Mag: MB: 5.3(CGS).

25 i P 09 18 51 C
 i pP 18 59.2
 micr sec
 P Z' 0.82 1.5
 P Z 3.8 4
 Mx Z 12 16
 Mx N 11 16
 Mx E 8.1 17
 D=71.3°
USCGS:
 H: 09 07 31.9; 40.1 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 33 Km.
 Mag: MB: 5.4, MS: 5.5(CGS), 4.8-
 5.2(BRK).
UPPSALA:
 h= 35 Km(Um, Ka).
 m= 6.1, M= 5.9(Up, Ki).

25 i P 09 25 08.0 C
 micr sec
 P Z' 0.23 1.1
 P Z 2.1 4
 Mx Z 9.7 16
 Mx N 6 16
 Mx E 7.3 16
 D= 71.4°
USCGS:
 H: 09 13 48.5; 40.1 N; 143.3 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 31 Km.
 Mag: MB: 5.2, MS: 5.4(CGS).
UPPSALA:
 h: 25 Km(Ka, Ud). m: 6.0(Up, Ki).

25 ei PKP 11 35 08
 ei SKP 38 34
 D=139.8°
USCGS:
 H: 11 15 46.3; 20.0 S; 175.3 W;
 TONGA ISLANDS.
 h: 96 Km.
 Mag: MB: 5.5(CGS).

25 i P 13 35 25.4 C
 i 35 28.7
 ei S 45 32
 D=81.4°

AUGUST 1968

(cont.)

USCGS:

H: 13 23 09.0; 1.1 N; 126.2 E;
 MOLUCCA PASSAGE.
 h: 33 Km.
 Mag: MB: 5.4(CGS).

26 micr sec
 Mx Z 3.0 9
 D=13.5°

USCGS:

H: 05 59 09.7; 26.7 N; 55.0 E;
 SOUTHERN IRAN.
 h: 33 Km.
 Mag: MB: 4.6(CGS).

26 e P 18 28 01
 e 31 40
 D=19.5°

USCGS:

H: 18 23 41.3; 36.4 N; 70.7 E;
 HINDU KUSH REGION.
 h: 203 Km.
 Mag: MB: 5.0(CGS).

27 eiP 13 58 43.5
 eiSKS 14 09 10
 i S 09 30
 D=88.7°

USCGS:

H: 13 45 47.8; 12.3 N; 144.3 E;
 SOUTH OF MARIANA ISLANDS.
 h: 16 Km.
 Mag: MB: 5.6, MS: 5.1(CGS). 4.9-
 5.3(BRK), 6(GOL).

28 e P 00 07 38
 D=77.0°

USCGS:

27 H: 23 55 48.3; 1.0 N; 120.1 E;
 NORTHERN CELEBES.
 h: 33 Km.
 Mag: MB: 5.0(CGS).

28 i P 03 32 01.6
 i S 32 33.5

28 e P 05 54 18
 i S 54 55.3

28 e PKP 12 09 45
 i PP 12 15
 (PKS
 i (SKP 13 16
 D=133.3°

USCGS:

H: 11 50 30.4; 20.0 S; 176.3 E;
 SOUTH OF FIJI ISLANDS.
 h: 36 Km.
 Mag: MB: 5.7, MS: 5.6(CGS), 6-6¼
 (PAS), 5.7-6.0(BRK), 5.7(PAL),
 5¼-5½(GOL).

28 i P 20 53 26 C
 i pP 53 31.5
 i PP 56 10
 i(PPF) 57 30
 i 57 55
 eiS 21 02 38
 i 02 51
 i X 10 36
 i PKPPKP 21 36.0

micr sec

P Z' 0.14 1.0
 P Z 11.6 12
 X Z 25.5 22
 X E 14.3 18
 Mx Z 21.8 20
 Mx N 24.6 20
 Mx E 18.4 18

D=69.4°

USCGS:

H: 20 42 16.7; 15.6 N; 122.0 E;
 PHILIPPINE ISLANDS REGION.
 h: 15 Km.
 Mag: MB: 5.7, MS: 6.1(CGS), 6-6¼
 (PAS), 5.6-5.8(BRK), 6(PAL),
 6(GOL).

UPPSALA:

h: 25 Km(Sk,Um).
 m= 6.4, M= 6.5(Up,Ki).

29 eiP 01 47 29.8
 micr sec
 P Z' 0.12 1.2

D= 69.4°

USCGS:

H: 01 36 18.8; 15.4 N; 121.9 E;

(cont.)

AUGUST 1968

(cont.)

LUZON, PHILIPPINE ISLANDS.

h: 17 Km.

Mag: MB: 5.3(CGS).

29 i P 04 18 29.6
 i 19 04.5
 i S 19 07.5

29 eiP 19 59 04.2

D=40.7°

USCGS:

H: 19 51 24.6; 30.2 N; 95.1 E;

TIBET.

h: 33 Km.

Mag: MB: 5.0(CGS).

29 i P 21 19 12.6
 eipP 19 20.8

D=69.0°

USCGS:

H: 21 08 07.9; 15.9 N; 121.7 E;

LUZON, PHILIPPINE ISLANDS.

h: 39 Km.

Mag: MB: 5.2(CGS).

UPPSALA:

h= 35 Km(Up,Sk,Um,Ud).

m= 5.9, M= 5.3(Up,Ki).

30 e P 00 24 08
 e S 24 25

30 eiP 02 56 09.5 C
 eipP 56 19.5

D=71.0°

USCGS:

 H: 02 44 52.9; 40.0 N; 142.7 E;
 NEAR EAST COAST OF HONSHU, JAPAN.

h: 38 Km.

Mag: MB: 5.0, MS: 4.9(CGS).

UPPSALA:

h= 30 Km(Up,Ki,Sk,Ud).

M= 5.2(Up,Ki).

30 i P 05 07 52.0
 i 08 03.6
 i S 08 41.8
 i 08 48.0

30 i P 05 33 06.2
 i S 33 42.0

D=3.3°

USCGS:

 H: 05 32 16.5; 41.0 N; 48.2 E;
 EASTERN CAUCASUS.

h: 33 Km.

Mag: MB: 4.6(CGS).

30 i P 05 37 12.0
 i S 37 21.0

30 eiP 06 30 43

D=81.6°

USCGS:

 H: 06 18 30.4; 1.4 N; 126.3 E;
 MOLUCCA PASSAGE.

h: 50 Km.

Mag: MB: 5.4(CGS).

30 e P 07 05 33
 i S 05 40.0

30 e P 07 17 24
 eiS 17 34

30 e P 12 28 46

D=69.1°

USCGS:

 H: 12 17 39.9; 16.1 N; 121.9 E;
 LUZON, PHILIPPINE ISLANDS.

h: 33 Km.

Mag: MB: 5.1(CGS).

30 ei 21 10 07

30 eiP 21 14 06
 eiS 16 12

D=11.1°

USCGS:

 H: 21 11 20.4; 34.9 N; 59.5 E;
 IRAN.

h: 33 Km.

 PROBABLE FORESHOCK OF IRANIAN
 QUAKE OF AUG. 31, HYPOCENTER
 POORLY DETERMINED.

30 i P 22 07 44 C
 eiS 12 05
 i 12 14

(cont.)

AUAUST 1968

(cont.)

		micr	sec
P	Z'	0.4	1.6
P	Z	4.7	6
Mx	Z	43	15
Mx	N	38	14
Mx	E	24.2	14

D=25.0°

USCGS:

 H: 22 02 19.8; 14.6 N; 56.3 E;
 ARABIAN SEA.

h: 33 Km.

Mag: MB: 5.2(CGS).

UPPSALA:

h= 20 Km(Ka,Ud).

 m= 5.8,M= 5.4(U_p,K_i).

31 iiP 10 50 17.9 C

D=11.0°

USCGS:

 H: 10 47 37.4; 34.0 N; 59.0 E;
 IRAN.

h: 13 Km.

 Mag: MB: 6.0,MS: 7.3(CGS),7-7/4
 (PAS),7.7(BRK),7½(GOL).

BCIS :

 H= 10 47 39.0; 34.0 N; 58.7 E;
 Mag: M=7.5 UPP,7.4(Collm).

31 eiP 11 37 15.5

D=11.2°

USCGS:

 H: 11 34 32.9; 33.9 N; 59.2 E;
 IRAN.

h: 24 Km.

Mag: MB: 5.5(CGS).

31 e P 13 25 42

D=11.3°

USCGS:

 H: 13 22 59.5; 34.1 N; 59.4 E;
 IRAN.

h: 33 Km.

Mag: MB: 4.8(CGS).

31 e P 14 09 01

D=11.3°

USCGS:

 H: 14 06 16.1; 34.1 N; 59.4 E;
 IRAN.

h: 18 Km.

Mag: MB: 5.0(CGS).

31 e P 18 15 18

D=48.3°

USCGS:

 H: 18 06 35.7; 56.3 N;115.6 E;
 EAST OF LAKE BAIKAL.

h: 25 Km.

Mag: MB: 4.6(CGS).

31 e SKP 20 16 12

D=137.0°

USCGS:

 H: 19 54 35.0; 18.3 S;177.7 W;
 FIJI ISLANDS REGION.

h: 379 Km.

Mag: MB: 5.0(CGS),5.7-6.1(BRK).

M. S. Nabavi
 A. Anzabi
 June 1969

Dr. H. K. Afshar
 Director
 Institute of Geophysics
 Tehran University

INSTITUTE OF GEOPHYSICS
 TEHRAN UNIVERSITY, IRAN

16 OCT 1968

 THE SEISMOLOGICAL BULLETIN OF
 SEISMOLOGICAL OBSERVATORY OF TABRIZ

SEPTEMBER 1968

 1 i PKP 00 43 36.0
 i pPKP 43 45.1
 D=144.3°

USCGS:

 H: 00 24 06.7; 30.7 S; 178.3 W;
 KERMADEC ISLANDS REGION.
 h: 25 Km.
 Mag: MB: 5.2(CGS), 5.2-5.6(BRK).

 1 e P 00 52 09
 D=81.1°

USCGS:

 H: 00 39 54.8; 1.6 N; 126.3 E;
 MOLUCCA PASSAGE.
 h: N.
 Mag: MB: 4.9(CGS).

 1 e P 05 00 40
 e SKS 10 40
 D=75.6°

USCGS:

 H: 04 48 52.2; 1.0 S; 24.5 W;
 CENTRAL MID-ATLANTIC RIDGE.
 h: N.
 Mag: MB: 5.2; MS: 5.6(CGS).

 1 i P 05 40 04.2 D
 D=1.0°

USCGS:

 H: 05 39 46.7; 39.1 N; 46.0 E;
 N.W. IRAN-USSR BORDER REGION.
 h: 38 Km.
 Mag: MB: 5.1(CGS).

BCIS:

 H: 05 39 47; 39.2 N; 46.2 E;
 h: 45±12 Km.

 1 eiP 05 57 30.0
 i S 57 43.2
 1 e P 06 53 52
 i S 54 08.4

 1 i P 07 30 03.0 D
 i S 32 04.0
 D=10.4°

USCGS:

 H: 07 27 30.2; 34.0 N; 58.2 E;
 IRAN
 h: 15 Km.
 Mag: MB: 5.9; MS: 6.3(CGS), 6.2(PAS).
 6¼-6½(GCL); 7.0(BRK).

BCIS:

 H: 07 27 28; 34.1 N; 58.3 E;
 Mag: MLH=6.4; MLV=6.3(MOKA), M=5.0
 (Collm), MPV=5.6(MOKA).

UPPSALA:

h: 15 Km. m=6.4, M=6.7(Up, Ki).

 1 e P 11 06 53
 D=11.5°

USCGS:

 H: 11 04 02.1; 34.0 N; 59.6 E;
 IRAN.
 h: N.
 Mag: MB: 4.8(CGS).

 1 e P 14 59 17
 1 i P 16 43 36.2
 i S 43 52.8
 1 e P 17 17 23
 eiS 17 39.6
 1 e P 19 19 08

D=10.3°

USCGS:

 H: 19 16 37.3; 34.2 N; 50.3 E;
 IRAN.
 h: 23 Km.
 Mag: MB: 5.0(CGS).

 1 e P 20 44 28
 i S 44 54.5
 1 e P 21 44 56
 i S 45 05.6

SEPTEMBER 1968

1 e P 22 18 35
 i S 18 45.1
 2 e P 00 50 29
 e S 50 37
 2 i P 06 18 49.6
 i S 19 06.8
 2 i P 07 03 42.0 D
 2 i P 12 20 22.3 C
 i S 20 39.3
 3 e P 00 03 23
 i S 03 30.5
 3 i P 01 38 34.9 D
 i S 38 51.4
 3 e P 05 34 45
 D=70.9°

USCGS:

H: 05 23 30.0; 42.9 N; 145.2 E;
 HOKKAIDO, JAPAN REGION.
 h: 43 Km.
 Mag: MB: 5.2(CGS), 5.3(BRK).

UPPSALA:

h: 60 Km(Um,Ud), m=6.4(U_p,K_i).

3 i P 08 22 41.0 C
 i S 24 54.8
 micr sec
 P Z 97.1 4
 D=11.4°

USCGS:

H: 08 19 52.2; 41.8 N; 32.3 E;
 TURKEY.
 h: 5 Km.
 Mag: MB: 5.7, MS: 6.6(CGS), 6½
 (FAS), 6.7(BRK), 6¾(PAL), 6½(GOL).

BCIS:

H: 08 19 52; 41.9 N; 32.3 E;
 Mag: MLV=6.4, MLH=6.2, MFV=6.0
 (MKA).

UPPSALA:

(h: 5 Km), m=6.3, M=6.4(U_p,K_i).

3 i Pn 09 56 31.0 C
 i Pg 57 15.4
 i S 58 34.2
 D=11.3°

USCGS:

H: 09 53 47.0; 33.8 N; 59.2 E;
 IRAN:
 h: 16 Km.
 Mag: MB: 5.0(CGS).

UPPSALA:

(h= 15 Km), m=5.8, M=5.1(U_p,K_i).

3 e P 10 59 07
 D=11.4°

USCGS:

H: 10 56 15.0; 41.8 N; 32.4 E;
 TURKEY.
 h: 11 Km.
 Mag: MB: 4.5(CGS).

BCIS:

H: 10 56 14; 41.7 N; 32.5 E;

3 e P 14 11 59
 D=11.4°

USCGS:

H: 14 09 10; 41.7 N; 32.4 E;
 TURKEY.
 h: 14 Km.
 Mag: MB: 4.6(CGS).

BCIS:

H: 14 09 07; 41.8 N; 32.6 E;

3 e P 15 04 30
 3 i P 15 50 05 C
 D=91.2°

USCGS:

H: 15 37 00.2; 20.6 N; 62.2 W;
 NORTH ATLANTIC OCEAN
 h: N.
 Mag: MB: 5.5, MS: 5.9(CGS), 5.0-5¼
 (PAL).

3 i P 18 52 24.5 D
 eiS 55 42
 eiPcP 56 52.0
 micr sec
 P Z' 0.12 1.0
 D=18.3°

USCGS:

H: 18 48 15.7; 36.2 N; 69.2 E;
 HINDU KUSH REGION.
 h: 75 Km.
 Mag: MB: 5.3 (CGS).

SEPTEMBER 1968

3 eiP 19 49 55.2

D=69.5°

USCGS:

 H: 19 38 47.2; 15.4 N; 122.0 E;
 PHILIPPINE ISLANDS REGION.

h: 41 Km.

Mag: MB: 4.8(CGS).

3 e P 21 11 07

D=11.7°

USCGS:

 H: 21 08 20.3; 41.8 N; 31.9 E;
 TURKEY.

h: 55 Km.

Mag: MB: 4.5(CGS).

3 i P 22 33 05.5

micr sec

P Z' 0.06 0.7

D=74.7°

USCGS:

 H: 22 22 06.9; 29.3 N; 139.3 E;
 SOUTH OF HONSHU, JAPAN.

h: 410 Km.

Mag: MB: 4.9(CGS), 4.3 (BRK).

3 e P 23 49 26

4 i P 00 48 25.0

i pP 50 10.6

micr sec

P Z' 0.06 1.0

pP Z' 0.11 1.3

D=77.9

USCGS:

 H: 00 37 11.8; 1.4 N; 122.1 E;
 NORTHERN CELEBES.

h: 441 Km.

Mag: MB: 5.6(CGS).

4 i P 03 04 34.6

i S 05 04.6

4 i Pn 08 11 30.2

eiPg 12 17.5

e S 12 43

D=11.2°

USCGS:

 H: 08 08 44.3; 33.9 N; 59.2 E;
 IRAN.

h: 24 Km.

Mag: MB: 5.0(CGS).

4 e Pn 11 22 18

i Pg 23 03.0

i 23 10.3

i S 24 22.5

D=11.2°

USCGS:

 H: 11 19 35.6; 33.9 N; 59.1 E;
 IRAN.

h: 25 Km.

Mag: MB: 5.1(CGS).

BCIS:

H: 11 19 28; 33.6 N; 59.7 E;

UPPSALA:

(h: 25 Km), M=4.6(Up,Ki).

4 i P 19 13 35.8

i S 13 47.5

4 eiP 19 46 48.8

4 eiP 23 27 19.5

i Pg 28 09

i S 2 29 23

i LR 31 32

micr sec

P Z' 0.81 1.2

P Z 0.57 4

Mx Z 28.7 16

D=10.4°

USCGS:

 H: 23 24 47.2; 34.0 N; 50.2 E;
 IRAN.

h: 15 Km.

Mag: MB: 5.4, MS:5.2(CGS).

BCIS:

H: 23 24 50; 34.1 N; 50.6 E;

MLH=4.9(Fruhorice).

UPPSALA:

(h: 15 Km), m=5.7, M=5.3(Up,Ki).

5 eiPP 03 05 27

D=139.9°

(cont.)

SEPTEMBER 1968

(cont.)

USCGS:

H: 02 43 02.6; 45.1 S; 80.1 W;
 OFF COAST OF SOUTHERN CHILE.
 h: N.
 Mag: MB: 5.0, MS: 5.3(CGS).

5 eiP 04 11 30.5
 i X 11 33.4
 micr sec
 X Z' 0.5 0.8
 D=25.6°

USCGS:

H: 04 05 57.4; 49.8 N; 78.1 E;
 EASTERN KAZAKH SSR.
 h: 0 Km.
 Mag: MB: 5.5(CGS).

BCIS:

H: 04 06 00; 50.0 N; 78.0 E;
 M=5.2(UPPSALA).

UPPSALA:

m=6.2(Up,Ki).
 Under ground explosion.

5 e P 08 24 03
 eiS 24 32.5
 5 e P 09 28 31
 eiS 28 47.0
 5 e P 14 51 58
 e S 53 29
 6 e P 02 30 18
 i 30 31
 LR 34 42
 micr sec
 Mx Z 7.3 14
 D=11.2°

USCGS:

H: 02 27 37.1; 34.0 N; 59.3 E;
 IRAN.
 h: 27 Km.
 Mag: MB: 4.9, MS; 4.8(CGS).

BCIS:

H: 02 27 46; 34.3 N; 58.9 E;

6 e P 04 15 18
 6 e P 04 55 20
 i S 55 40.1

6 i P 19 33 49
 i pP 34 01.4
 i S 42 40
 eiPKPKP 20 02 02
 micr sec
 P Z' 0.09 1.3
 pP Z' 0.57 1.4
 Mx Z 6.2 19
 Mx N 7.5 18
 Mx E 5.3 19

D=68.5°

USCGS:

H: 19 22 47.8; 31.0 N; 131.9 E;
 KYUSHU, JAPAN.
 h: 39 Km.
 Mag: MB: 5.7, MS: 5.7(CGS), 5.4(PAL).

6 e P 20 58 11
 e S 59 12
 7 e P 11 47 18
 7 e P 22 37 17
 ei(S) 38 53
 7 ei 22 40 34
 8 e PKP 00 35 37
 e PP 37 36

D=125.2°

USCGS:

H: 00 16 38.0; 17.6 S; 167.7 E;
 NEW HEBRIDES ISLANDS.
 h; 20 Km.
 Mag: MB: 5.0(CGS).

8 i P 02 12 51.3 D
 eipP 14 12.2
 micr sec
 P Z' 0.12 1.0

D=68.0°

USCGS:

H: 02 02 23.6; 45.4 N; 142.7 E;
 HOKKAIDO, JAPAN REGION.
 h: 326 Km.
 Mag: MB: 4.7(CGS).

8 e P 13 18 54
 i S 19 09.0
 8 eiP 14 29 03.5
 i S 29 33.4

SEPTEMBER 1968

8 i P 15 25 58.0 C
 i pPcP 26 03.9
 i 28 42
 i PP 29 58 D
 eiS 36 22

	micr	sec
P Z'	1.83	1.5
P Z	6.2	6
PP Z'	0.76	1.5
PP Z	12.3	10
PP N	1.6	6
PP E	5.9	8
Mx Z	8.1	20
Mx N	5.6	20
Mx E	6.6	22

D=97.5°

USCGS:

H: 15 12 23.8; 3.7 S; 143.0 E;
 NEAR NORTH COAST OF NEW GUINEA.
 h: 29 Km.
 Mag: MB: 6.0, MS: 6.1(CGS).

UPPSALA:

(h=30Km), m=6.8, M=6.4(Up, Ki).

8 i P 19 55 52.3
 eiS 20 05 32
 e SKS 05 54

	micr	sec
P Z'	0.19	0.8

D=78.4°

USCGS:

H: 19 44 04.5; 0.6 N; 121.9 E;
 NORTHERN CELEBES.
 h: 137 Km.
 Mag: MB: 5.3(CGS).

8 i P 20 21 20.4 C
 micr sec
 P Z' 0.06 0.5

D=72.7°

USCGS:

H: 20 09 51.2; 46.0 N; 151.4 E;
 KURILE ISLANDS.
 h: 31 Km.
 Mag: MB: 5.0(CGS).

8 e P 22 59 12
 LR 23 01 34

9 i PP 00 57 39
 D=119.5°

USCGS:

H: 00 37 43.2; 8.7 S; 74.5 W;
 PERU-BRAZIL BORDER REGION.
 h: 120 Km.
 Mag: MB: 6.0(CGS), 6.3(PAS).

9 e P 01 48 53
 i S 49 01.7

9 eiP 02 30 51.5
 i X 30 55.5
 i 32 18.6

	micr	sec
X Z'	0.19	1.2

D=58.3°

USCGS:

H: 02 20 57.9; 66.1 N; 142.1 E;
 EASTERN SIBERIA.
 h: N.
 Mag: MB: 5.1(CGS).

10 e P 01 51 31
 D=11.4°

USCGS:

H: 01 48 41.4; 41.7 N; 32.4 E;
 TURKEY.
 h: N.
 Mag: MB: 4.2(CGS).

10 i P 14 52 59.0
 i S 53 18.2

10 eiP 17 22 27.5
 eipP 23 03.0
 i 23 12.0

D=19.6°

USCGS:

H: 17 18 08.9; 36.3 N; 70.8 E;
 HINDU KUSH REGION.
 h: 223 Km.
 Mag: MB; 5.0(CGS).

10 eiP 20 34 43.0
 eiS 36 52
 LR 39 10

	micr	sec
Mx Z	3.4	11
Mx N	7.1	7
Mx E	3.3	12

SEPTEMBER

1968

(cont.)

D=11.4°

USCGS:

H: 20 31 58.6; 34.0 N; 59.4 E;
 IRAN.
 h: 18 Km.
 Mag: MB: 4.7(CGS).

BCIS:

H: 20 32 03; 34½ N; 58½ E;

UPPSALA:

(h: 20 Km.), M=4.8(Up,Ki).

11	eiP	02 45 22.5
	i S	45 44.2
11	eiPKP	18 45 56.5
	eipPKP	46 07.0
	i PP	48 36
	i SKP	49 30

D=136.1°

USCGS:

H; 18 26 36.8; 43.0 S; 75.2 W;
 OFF COAST OF SOUTHERN CHILE.
 h: 31 Km.
 Mag: MB: 5.7; MS: 5.5(CGS).

11	i Pn	19 19 54
	i Pg	20 27
	Lg	22 42
	LR	24 18
		micr sec
	Mx Z	77.5 12
	Mx N	145.5 11
	Mx E	115.3 10

D=11.4°

USCGS:

H: 19 17 12.9; 33.9 N; 59.4 E;
 IRAN.
 h: N.
 Mag: MB: 5.2, MS: 5.4(CGS).

BCIS:

H: 19 17 05; 33.5 N; 59.6 E;
 MLH=6.3(Fruhonic), 5.8(Collm)

UPPSALA:

(h: N), m=5.7, M=6.1(Up,Ki).

11	eiP	21 58 00.9
	eipP	59 09.5
		micr sec
	P Z'	0.04 0.7

D=65.0°

USCGS:

H: 21 47 21.9; 24.0 N; 122.3 E;
 TAIWAN REGION.
 h: 42 Km.
 Mag: MB: 5.0(CGS).

UPPSALA:

(h: 40 Km), M=5.1(Up,Ki).

12	i P	02 14 15.5
12	eiP	13 47 51

D=71.8°

USCGS:

H: 13 36 27.5; 39.7 N; 143.6 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 12 Km.
 Mag: MB: 5.2(CGS).

12	i P	15 42 12.1 C
	i	42 30.2
		micr sec
	P Z'	0.42 1.6
	P Z	1.1 5

D=24.5°

USCGS:

H: 15 36 48.8; 39.8 N; 77.6 E;
 SOUTHERN SINKIANG PROV., CHINA.
 h: 8 Km.
 Mag: MB: 4.9(CGS).

UPPSALA:

(h: 10 Km), M=4.8(Up,Ki).

12	i PKP1	23 02 11.6 C
	i PKP2	02 22.3
	i PKP3	02 24.4
	i	02 39.8
	i SKP1	04 43
	i SKP2	04 50.8
	i PF	05 12
	i PKS	05 58.8
	i SKS	08 16
	i	09 21
	i SP	14 24
		micr sec
	PKP1 Z'	0.29 0.9
	PKP2 Z'	0.84 1.0
	PKP3 Z'	0.96 1.0
	SKP2 Z'	0.64 0.9

D=137.5°

SEPTEMBER 1968

(cont.)

USCGS:

H: 22 44 06.5; 21.6 S; 179.4 W;
 FIJI ISLANDS REGION.
 h: 635 Km.
 Mag: 5.9(CGS).

13 e PKP 05 21 17
 D=142.7°

USCGS:

H: 05 01 50.3; 30.8 S; 179.1 W;
 KERMADEC ISLANDS.
 h: 38 Km.
 Mag: MB: 5.0, MS: 5.6(CGS), 5/4-5/2
 (GOL).

13 e P 19 19 52
 eiS 20 17.5
 13 eiP 23 17 29.5
 i S 18 58.2
 14 i P 01 36 29.2 C
 eipP 36 36.5
 eiS 45 40
 micr sec
 P Z' 0.17 0.9
 P Z 3.0 2
 D=70.0°

USCGS:

H: 01 25 19.1; 24.5 S; 80.4 E;
 SOUTH INDIAN OCEAN.
 h: N.
 Mag: MB: 5.5(CGS).

14 i P 01 48 04.2
 D=53.3°

USCGS:

H: 01 38 44.8; 57.9 N; 32.6 W;
 NORTH ATLANTIC OCEAN.
 h: 33 Km.
 Mag: MB: 5.3, MS: 4.7(CGS).

14 i P 07 08 50.5 D
 D=85.9°

USCGS:

H: 06 56 11.7; 8.9 S; 124.0 E;
 TIMOR.
 h: N.
 Mag: MB: 5.3(CGS).

14 i P 13 51 10.0 C
 i S 53 04
 Lg 53 26
 LR 54 58
 micr sec
 P Z 3.8 8
 D=11.2°

USCGS:

H: 13 48 31.2; 28.4 N; 53.1 E;
 SOUTHERN IRAN.
 h: N.
 Mag: MB: 5.8, MS: 5.6(CGS).

BCIS:

H: 13 48 33; 28.6 N; 53.0 E;
 h: N, MPH=5.2, MLH=6.0(Collm).
 5.8(Pruhonic).

UPPSALA:

(h: N), m=6.1, M=6.0(Up, Ki).

14 e P 19 23 02
 Lg 26 36
 LR 27 20
 micr sec
 Mx Z 10.8 12
 Mx N 15.3 15
 Mx E 20 15
 D=11.2°

USCGS:

H: 19 20 22.7; 28.4 N; 53.2 E;
 SOUTHERN IRAN
 h: 44 Km.
 Mag: MB: 5.1(CGS).

BCIS:

H: 19 20 15; 28.1 N; 53.2 E;

14 eiP 23 32 18
 15 i P 04 42 38.0
 i S 43 15.4
 15 eiP 05 00 02.5
 eiS 03 14
 D=17.4°

USCGS:

H: 04 55 59.5; 34.7 N; 25.1 E;
 CRETE.
 h: N.
 Mag: MB: 4.9(CGS).

(cont.)

SEPTEMBER 1968

(cont.)

BCIS:

 H: 04 56 05; 35.0 N; 25.2 E;
 h: 60 Km.

UPPSALA:

(h: N.), m=5.5, M=5.2(Up,Ki).

 15 i P 09 45 01
 eiS 46 58
 LR 49 20

D=11.4°

USCGS:

 H: 09 42 14.6; 34.0 N; 59.4 E;
 IRAN.
 h: 20 Km.
 Mag: MB: 4.9(CGS).

UPPSALA:

(h: 20 Km), M= 4.7(Up,Ki).

 15 i P 11 01 30.4 C
 i 01 38.5
 i S 10 44
 LR 35 26

micr sec

 P Z' 0.9 1.6
 P Z 3.3 4
 Mx Z 8.5 18
 Mx N 8.1 17
 Mx E 6.8 18

D=70.8°

USCGS:

 H: 10 50 11.8; 40.9 N; 143.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 15 Km.
 Mag: MB: 5.4, MS: 5.6(CGS).

 15 eiP 14 21 40 C
 Lg 25 32

micr sec

 Lg Z 2.0 12
 Lg N 1.7 7
 Lg E 2.7 11

D=21.0°

USCGS:

 H: 14 16 55.8; 37.2 N; 72.7 E;
 TADZHIK SSR.
 h: N.
 Mag: MB: 5.2(CGS).

 15 i P 17 39 38.0
 i 39 42.1
 i 39 56.8

D=82.1°

USCGS:

 H: 17 27 21.8; 1.8 N; 126.5 E;
 MOLUCCA PASSAGE.
 h: N.
 Mag: MB: 5.1 (CGS).

 16 i P 07 10 24.9 D
 SOUTH EASTERN TABRIZ, IRAN.

 16 i P 14 09 32 C
 i PP 13 50 D
 i SP 22 56

micr sec

 PP Z 8.0 9
 Mx Z 38.6 21
 Mx N 30 22
 Mx E 25 21

D=103.5°

USCGS:

 H: 13 55 36.1; 6.1 S; 148.7 E;
 NEW BRITAIN REGION.
 h: 59 Km.
 Mag: MB: 5.8(CGS), 6¼-6½(PAS),
 6.3-6.7(BRK).

UPPSALA:

m=6.9, M=7.0(Up,Ki).

 16 i P 19 24 17
 17 e PKP 18 09 07
 micr sec
 Mx Z 4.4 23

D=136.4°

USCGS:

 H: 17 49 47.6; 15.0 S; 175.7 E;
 TONGA ISLANDS.
 h: 17 Km.
 Mag: MB: 5.2, MS: 5.6(CGS), 5.4-5.6
 (BRK) 5½-5¾(GOL).

UPPSALA:

(h: 15 Km), M=5.8(Up,Ki).

 17 eiP 19 17 43.1
 D=10.4°

(cont.)

SEPTEMBER 1968

(cont.)

USCGS:

H: 19 15 08.6; 34.0 N; 58.3 E;
 IRAN.
 h: 34 Km.
 Mag:

17 . LR 21 21 10

D=12.4°

USCGS:

H: 21 13 52.6; 35.3 N; 31.3 E;
 CYPRUS.
 h: N.
 Mag: MB: 4.6(CGS).

18 e P 04 06 02

D=17.4°

USCGS:

H: 04 01 59.4; 34.8 N; 25.1 E;
 CRETE.
 h: 35 Km.
 Mag: MB: 4.6(CGS).

BCIS:

H: 04 01 59; 34.7 N; 25.1 E;
 h: 50±15 Km, MLH=4.5(Collm).

UPPSALA:

(h: 35 Km.) M=4.7(Up,Ki).

18 e P 06 18 20

i 18 34

Lg 19 36

LR 19 56

D=5.1°

USCGS:

H: 06 17 04.9; 39.8 N; 40.2 E;
 TURKEY.
 h: 37 Km.
 Mag: MB: 4.6(CGS).

BCIS:

H: 06 17 40; 39.8 N; 40.3 E;

UPPSALA:

(h: 35 Km.), M=4.6(Up,Ki).

18 e P 06 30 30

18 e P 07 41 54

i pF 42 24

D=20.3°

USCGS:

H: 07 37 21.8; 37.2 N; 71.9 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 123 Km.
 Mag: MB: 5.0 (CGS).

UPPSALA:

(h: 120 Km.), m=5.7(Up,Ki).

19 i 11 24 55.0

D=67.8°

USCGS:

H: 11 13 07.4; 30.7 N; 41.9 W;
 NORTH ATLANTIC RIDGE.
 h: N.
 Mag: MB: 4.9; MS: 5.4(CGS), 5/2-5/4
 (GOL).

19 i P 22 15 22.3

i 15 33.2

i 15 45.3

Lg 18 46

LR 19 04

micr sec

Mx Z 30 16

Mx N 57 20

Mx E 77.3 16

D=11.2°

USCGS:

H: 22 12 38.2; 28.4 N; 53.2 E;
 SOUTHERN IRAN.
 h: 34 Km.
 Mag: MB: 5.1(CGS).

UPPSALA:

(h: 35 Km.), M=5.0(Up,Ki).

19 e P 23 38 44

LR 42 06

micr sec

Mx Z 5 10

Mx N 7.5 18

Mx E 10 16

D=11.3°

USCGS:

H: 23 35 56.0; 28.3 N; 53.1 E;
 SOUTHERN IRAN.
 h: N.
 Mag: MB: 4.8(CGS).

SEPTEMBER

1968

20 i P 06 13 27 (D)
 i pP 13 55.5
 i PP 17 27
 iiSKS 23 58
 iiS 24 39
 i SP 26 13
 i(SSP) 32 04

 micr sec
 P Z 7.2 12
 PP Z 11.5 12
 SKSN 10.1 4
 SKSE 18.2 8
 S N 17.8 17
 S E 10.0 12

D=98.0°

USCGS:

H: 06 00 03.5; 10.7 N; 62.7 W;
 NEAR COAST OF VENEZUELA.
 h: 107 Km.
 Mag: MB: 6.2(CGS), 7(PAS), 6.1-6.3
 (BRK).

UPPSALA:

h: 100 Km(Up, Ki, Sk, Gb, Um, Ka, Ud)
 m=6.7, M=6.4(Up, Ki).

20 i P 13 06 02.2
 20 i PKP 18 48 33.8
 i 49 29
 i SKP 52 16

 micr sec
 PKPZ 2.1 4
 SKPZ 2.1 4

D=142.9°

USCGS:

H; 18 29 09.8; 28.1 S; 176.7 W;
 KERMADEC ISLANDS.
 h: 70 Km.
 Mag: MB: 5.3(CGS), 5.0-5.5(BRK),
 5½-5¾(GOL).

20 i P 19 58 27.3 D
 eiS 58 51.5
 20 i P 22 36 43.2 C
 ei 37 40

D=69.7°

USCGS:

H: 22 25 37.1; 36.8 N; 138.1 E;

HONSHU, JAPAN.

h: 59 Km.

Mag: MB: 5.0(CGS).

20 eiP 23 12 13
 e S 19 48

D=54.7°

USCGS:

H: 23 02 43.5; 13.7 S; 66.1 E;
 MID-INDIAN RISE.

h: N.

Mag: MB: 5.0(CGS).

21 eiP 00 47 35.5
 i S 48 03.0

21 e P 02 53 04
 i S 53 45.2

21 iiP 13 17 07.5 C
 i S 26 08
 i 26 14
 i SP 26 38
 ei 45 02
 e PKPPKP 45 09
 LR 49 26

micr sec
 P Z' 0.41 0.8
 P Z 37.3 8
 P N 8.9 8
 P E 8.9 8
 Mx Z 115 24
 Mx N 67 22
 Mx E 72 19

D=69.5°

USCGS:

H: 13 05 58.2; 42.2 N; 142.6 E;
 HOKKAIDO, JAPAN REGION.
 h: 33 Km.
 Mag: MB: 5.9, MS: 6.4(CGS), 6.2(PAS)
 5.7-6.2(BRK), 6½-6¾(GOL).

UPPSALA:

h: 70 Km(Up, Ki, Um, Ka, Ud),
 m=6.9, M=6.8(Up, Ki).

21 e P 21 57 12

21 e P 23 31 12
 Lg 33 14

34½ N; 49½ E;
 IRAN.

SEPTEMBER 1968

22 i SKP1 08 21 18.2
 i SKP2 21 22.6 D
 micr sec
 SKP1Z' 0.1 0.4
 SKP2Z' 0.12 0.6

D=136.2°

USCGS:

H: 08 00 32.8; 18.1 S; 178.6 W;
 FIJI ISLANDS REGION.
 h: 630 Km.
 Mag: MB: 4.8(CGS).

22 i P 09 31 34.8 C
 i pP 31 43.1
 eiS 40 46

D=69.2°

USCGS:

H: 09 20 26.4; 15.7 N; 121.9 E;
 LUZON, PHILIPPINE ISLANDS.
 h: 20 Km.
 Mag: MB: 5.3(CGS).

22 e PKP 22 11 33

D=122.5°

USCGS:

H: 21 52 59.2; 24.1 S; 66.9 W;
 SALTA PROVINCE, ARGENTINA.
 h: 194 Km.
 Mag: MB: 5.5(CGS).

23 eiP 05 15 10
 e S 25 24
 micr sec
 Mx Z 6 16
 Mx N 4.7 16
 Mx E 4.7 16

D=71.3°

USCGS:

H: 05 03 50.0; 40.3 N; 143.5 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 30 Km.
 Mag: MB: 4.8, MS: 5.2(CGS).

UPPSALA:

(h: 30 Km), M=5.7(Up,Ki).

23 i P 21 28 31.8 (C)
 i 28 37.4
 i 28 56.3

Lg 29 49
 LR 30 06

D=4.9°

USCGS:

H: 21 27 19.9; 36.4 N; 40.7 E;
 JORDAN-SYRIA REGION.
 h: 31 Km.
 Mag: MB: 4.4(CGS).

BCIS:

H: 21 27 21; 36.2 N; 40.9 E;

24 i P 03 46 10 C
 eiS 55 25

D=71.5°

USCGS:

H: 03 34 48.5; 40.3 N; 143.7 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 22 Km.
 Mag: MB: 5.1, MS: 5.1(CGS).

UPPSALA:

h: 40 Km(Up,Um,Ud), m=5.9,M=5.9
 (Up,Ki).

24 eiP 04 21 11.5
 i 21 25.3

D=4.9°

USCGS:

H: 04 19 54.5; 39.2 N; 40.2 E;
 TURKEY.
 h: 14 Km.
 Mag: MB: 5.1(CGS).

BCIS:

H: 04 19 57; 39.1 N; 40.1 E;

UPPSALA:

(h: 15 Km), m=5.5, M=5.1(Up,Ki).

24 eiP 13 42 01.0
 (39 N; 40 E; TURKEY).

25 e PKP 07 22 10 C
 e PP 24 42

micr sec
 Mx Z 7.7 22
 Mx N 5.6 22
 Mx E 4.1 22

D=136.1°

(cont.)

SEPTEMBER 1968

(cont.)

USCGS:

 H: 07 02 51.8; 46.4 S; 166.8 E;
 OFF W. COAST OF S. ISLAND, NEW
 ZEALAND.

h: N.

Mag: MB: 5.5, MS: 6.3 (CGS).

UPPSALA:

(h: N), M=6.2(Up,Ki).

25	e P	10 53 12	
	i PP	57 54	
	i SKS	11 03 44	
	i X	07 30	
	i	07 50	
		micr	sec
	X Z	43.9	24
	Mx Z	45.2	26
	Mx N	31.0	25
	Mx E	21.7	26

D=111.2°

USCGS:

 H: 10 38 38.4; 15.6 N; 92.6 W;
 MEXICO-GUATEMALA BORDER REGION.

h: 138 Km.

 Mag: MB: 5.7 (CGS), 6 (PAS), 5.8-6.2
 (BRK), 6¼-6½ (PAL), 5½-5¾ (GOL).

UPPSALA:

h: 110 Km, m=7.0, M=6.5(Up,Ki).

25	i P	20 53 30.0	D
	i	53 44.3	
	L	55 04	

D=4.9°

USCGS:

 H: 20 52 15.9; 39.2 N; 40.2 E;
 TURKEY.

h: 47 Km.

Mag: MB: 5.1 (CGS).

26	i P	00 50 40.7
	i	50 57.1
	i S	54 17

D=19.5°

USCGS:

 H: 00 46 13.8; 33.7 N; 69.9 E;
 AFGANISTAN.

h: 45 Km.

Mag: MB: 5.2 (CGS).

UPPSALA:

 h: 40 Km(Up,Ki,Sk,Gb,Um,Ud),
 m=5.6, M=5.0(Up,Ki).

26	e P	01 27 34
	i S	27 38.9
26	eiPKP	02 58 09.2
	i(PKP)	58 20.5
	i SKP	03 01 01.3
		micr sec
	(PKP) Z'	0.12 0.9
	SKP Z'	0.19 0.8

D=137.6°

USCGS:

 H: 02 39 56.5; 19.3 S; 177.6 W;
 FIJI ISLANDS REGION.

h: 560 Km.

Mag: MB: 5.2 (CGS).

26	i P	08 18 06.9
	i S	27 16
	i	28 14
	i	30 40
		micr sec
	P Z'	0.53 1.4

D=70.0°

USCGS:

 H: 08 06 57.4; 5.7 S; 105.5 E;
 SODAN STRAIT.

h: N.

Mag: MB: 5.1 (CGS).

26	e PKP	09 59 26
	i(PKP)	59 40.8
	i SKP	10 02 18.5
		micr sec
	(PKP) Z'	0.19 0.9
	SKP Z'	0.18 0.9

D=136.5°

USCGS:

 H: 08 41 22.0; 17.7 S; 170.5 W;
 FIJI ISLANDS REGION.

h: 578 Km.

Mag: MB: 5.1 (CGS).

26	e PKP	14 56 33
	i(PKP)	56 44.6
	i	56 54.3

(cont.)

SEPTEMBER 1968

(cont.)

eipPKP	57	33	
i PP	59	31	
eiSKP	59	55	
	micr	sec	
(PKP) Z'	0.28	1.0	
(PKP) Z	3.6	4	
SKP Z	6.4	5	

D=139.0°

USCGS:

H: 14 37 46.2; 20.9 S; 177.0 W;
 FIJI ISLANDS REGION.
 h: 251 Km.
 Mag: MB: 5.8 (CGS), 6-6¼ (PAS),
 6.0-6.4 (BRK).

26	e P	15	19	45	
26	e P	18	19	36	
	i PKP	22	17		C
	i (PKP)	22	20.1		
	i SKP	26	03.2		
		micr	sec		
	PKP Z	45.6	12		
	SKP Z'	0.78	1.5		
	Mx Z	65	20		
	Mx N	44.4	20		
	Mx E	33	20		

D=142.7°

USCGS:

H: 18 02 50.1; 30.5 S; 178.2 W;
 KERMADEC ISLANDS REGION.
 h: N.
 Mag: MB: 5.8, MS: 6.8 (CGS), 7 (PAS),
 6¾-7 (PAL), 6¾-7 (GOL).

UPPSALA:

(h: N), M=7.2 (Up, Ki).

26	eiP	21	32	04.0	
	TURKEY.				
27	e P	01	03	30	
	TURKEY.				
27	i P	04	11	37.4	C
	i PcP	11	38.8		
	i ?	14	45		
	i (PP)	15	07		
	iiSKS	21	50		
	(S				
	ii (ScS	22	09		

		micr	sec	
P	Z'	0.21	0.6	
P	Z	15.6	6	
P	N	2.1	6	
P	E	3.8	7	
PcPZ'		1.1	0.9	
SKSZ		6.2	10	
SKSN		8	9	
SKSE		28.4	8	
S	Z	11.6	12	
S	N	29.1	11	
S	E	27.3	10	

D=88.5°

USCGS:

H: 03 58 55.1; 6.8 S; 129.1 E;
 BANDA SEA.
 h: 127 Km.
 Mag: MB: 6.1 (CGS), 5¾ (PAL).

UPPSALA:

h: 150 Km (Ki, Um), m=6.9, M=6.0
 (Up, Ki).

27	i P	04	20	20.0	
	i S		20	36	
27	i P	10	42	27.8	
	i pP		42	54.2	
	i sP		43	03.4	
	i S		46	08	
		micr	sec		
	P	Z'	0.16	0.6	
	sP	Z	5.7	6	
	sP	N	2.4	4	
	sP	E	4.8	5	

D=20.5°

USCGS:

H: 10 37 55.9; 37.8 N; 72.3 E;
 TADZHIK SSR.
 h: 119 Km.
 Mag: MB: 5.2 (CGS).

UPPSALA:

h: 130 Km (Up, Ki, Gb, Ka, Ud), m=6.0
 M=4.7 (Up, Ki).

27	e PKP	17	00	35	
	i (PKP)		00	38.0	C
		micr	sec		
	(PKP)Z	4.0	4		
	Mx Z	4.8	19		

(cont.)

SEPTEMBER 1968

(cont.)

D=142.8°

USCGS:

H: 16 41 07.8; 30.7 S; 178.2 W;
 KERMADEC ISLANDS REGION.
 h: N.
 Mag: MB: 5.4(CGS), 6(PAS), 5.7-5.8(BRK).

UPPSALA:

h: N. M=6.0(Up,Ki).

27	eiP	19 20 20
	i PP	24 20
	eiSKS	30 54
		micr sec
	Mx Z	11.7 19
	Mx N	11.2 20
	Mx E	10.4 22

D=98.0°

USCGS:

H: 19 06 42.2; 3.7 S; 143.3 E;
 NEAR NORTH COAST OF NEW
 GUINEA.
 h: 7 Km.
 Mag: MB: 5.9, MS: 6.5(CGS), 6.2
 (PAS), 6-6¼(BRK), 5¼-6(PAL).

UPPSALA:

h: 5 Km. M=6.6(Up,Ki).

27	e P	22 24 23
	i S	24 50.6
27	e P	23 07 11
28	e P	00 57 11
		micr sec
	Mx Z	3 15
	Mx N	11.2 18
	Mx E	2.7 17

D=15.6°

USCGS:

H: 00 53 25.9; 40.5 N; 26.4 E;
 TURKEY.
 h: 28 Km.
 Mag: MB: 4.4(CGS).

BCIS:

H: 00 53 26; 40.4 N; 26.7 E;
 ML=4.7(Athenes).

28	e PKP	14 12 25	
	i	13 51	C
	i PP	14 16	
	i SKS	19 22	
	i SKKKS	21 01	
		micr sec	
	Mx Z	6.7 20	
	Mx N	7.9 21	
	Mx E	3.6 21	

D=123.7°

USCGS:

H: 13 53 35.3; 13.2 S; 76.4 W;
 NEAR COAST OF PERU.
 h: 70 Km.
 Mag: MB: 6.0(CGS), 6(PAS), 6.5-6.6
 (BRK), 5½-5¾(PAL).

UPPSALA:

h: 70 Km. M=5.9(Up,Ki).

28	i P	18 41 43.1	
	i S	41 57.3	
29	e P	01 36 55	
		WESTERN IRAN.	
29	i P	03 48 31.6	C
	i X	43 34.2	
		micr sec	
	P Z'	0.29 0.8	
	X Z'	0.88 0.8	

D=25.6°

USCGS:

H: 03 42 57.5; 49.8 N; 78.2 E;
 EASTERN KAZAKH SSR.
 h: 0 Km.
 Mag: MB; 5.8(CGS).

BCIS:

H: 03 43 00; 50.0 N; 78.0 E;
 m=6.2(Uppsala), mb=5.8(Ifrane).

UPPSALA:

m=6.3(Up,Ki),
 Underground **Explosion**.

29	e P	18 30 30	
		NORTH CENTRAL IRAN	
29	i PP	22 12 11	C
		D=97.9°	

(cont.)

SEPTEMBER 1968

(cont.)

USCGS:

H: 21 54 35.2; 3.7 S; 143.5 E;
 NEAR NORTH COAST OF NEW GUINEA.
 h: 44 Km.
 Mag: MB: 5.4(CGS).

29 e P 23 31 56
 SOUTHERN IRAN.

30 eiPKP 11 56 49 C
 i pPKP 57 08.2
 e SKP 12 00 32

D=143.3°

USCGS:

H: 11 37 24.2; 29.5 S; 176.9 W;
 KERMADEC ISLANDS.
 h: 74 Km.
 Mag: MB: 4.8(CGS).

30 i P 14 28 01.2 C
 i pP 28 37
 i S 38 02

micr sec

P	Z'	0.37	1.2
S	N	1.8	6
S	E	1.2	5

D=81.7°

USCGS:

H: 14 15 58.1; 3.1 N; 128.2 E;
 NORTH OF HALMAHERA.
 h: 160 Km.
 Mag: MB: 5.4(CGS).

M. S. Nabavi
 September 1969

Dr. H. K. Afshar
 Director,
 Institute of Geophysics
 Tehran University.

7 NOV 1968

(38)

INSTITUTE OF GEOPHYSICS
 TEHRAN UNIVERSITY, IRAN
 PRELIMINARY READINGS OF EARTHQUAKES
 AT

SEISMOLOGICAL OBSERVATORY NO. 2 TABRIZ

Lat. 38°04'03" N. a = + 0.54 501

Long. 48°19'35" E. b = + 0.57 088

Height. 1 450 m. c = + 0.61 400

REPORT NO. 38, 68

SEPTEMBER 1968

29	e PZ	06 35(20)		SP;
29	e PZ	07 32(44)		SP;
29	e PZ	18 30(30)		SP;
29	e1(P)E	22 12 13	C	LP;
29	e PZ	23 31(56)		SP;
30	e1PZ	11 56 49	C	LP;
30	e PZ	14 28 02		SP;LP;
	1 N	38 02		LP;

OCTOBER 1968

1	1 PZ	18 16 23.1	D	SP;LP;
2	e PZ	22 34 04		SP;
3	1 PZ	08 17 29.2	D	SP;LP;
3	e PZ	10 54 37		SP;
3	e1PZ	16 03 05		SP;
3	1 PZ	20 16 27.1	D	SP;
4	e PZ	00 51 13		SP;
4	e PZ	01 49 24		SP;
4	e(P)Z	06 19 35		LP;
	e Z	23 36		LP;
4	e PZ	07 03 45		SP;
4	e1PZ	07 39 59		LP;
4	e PZ	10 09 59		SP;
4	e PZ	16 29 28		SP;
5	e1PZ	02 58 32.7		SP;
5	e PZ	03 53 29		SP;
5	1 PNE	15 14 09.7		SP;
5	e PN	21 29(04)		SP;
5	e PN	22 00 49		SP;
6	e(P)Z	05 34 38		LP;
6	e PZ	09 06 29		LP;
6	e PZ	15 19 12		SP;
6	e PZ	19 51 31		SP;
6	e PZ	22 09 48		SP;

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN
PRELIMINARY READINGS OF EARTHQUAKES

AT

SEISMOLOGICAL OBSERVATORY NO. 2 YABRIZ

Lat. 38°04'03" N. a = + 0.54 501

Long. 46°19'35" E. b = + 0.57 088

Height. 1 430 m. c = + 0.61 400

REPORT NO. 39, 68

OCTOBER 1968

7	i PZ	19 51 24.3	D	SP; LP;
	i NE	40 34		LP;
7	e(P)Z	20 18 18		SP;
7	eiPZ	21 00 11		SP;
7	e PZ	21 10 02		SP;
8	e PZ	00 09 12		SP;
8	i PZ	07 56 04	D	LP;
	i E	08 06 42		LP;
8	e(P)Z	15 11 12		LP;
	ei E	20 18		LP;
8	eiPZ	21 14 23.4		SP;
8	e PZ	21 30 00		SP;
8	e PZ	22 10 03		SP;
10	e(P)Z	15 23 52		LP;
10	i PZ	18 33 45.9	C	SP;
10	e PZ	22 53 23		SP;
11	eiPZ	07 55 50		SP;
11	i PZ	08 21 07.7	D	SP;
11	e PZ	19 40 57		SP;
12	i PZ	16 39 38.6	C	SP;
12	eiPZ	19 35 48.7		SP;
12	e PZ	23 24 36		SP;
12	ei(P)Z	23 32 00		SP;
13	e PZ	01 37 30		SP;
13	i PZ	04 54 43.1	D	SP; LP;
13	e PZ	23 47 52		SP;
14	e PZ	00 08 44		SP;
14	i PZ	03 12 20	C	LP;
	i NE	22 58		LP;

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN
PRELIMINARY READINGS OF EARTHQUAKES
AT

SEISMOLOGICAL OBSERVATORY NO.2 TABRIZ

Lat. 38°04'03" N. a = + 9.54 501

Long. 46°19'35" E. b = + 0.57 088

Height. 1 430 m. c = + 0.61 400

REPORT NO.41,68

OCTOBER 1968

21	e PZ	18 21 02		SP;LP;
21	e PZ	22 26 24		SP;
21	eiPZ	23 22 42.2		SP;
21	e PZ	23 39 13		SP;
22	e PZ	01 53 25		SP;
22	e PZ	09 56 24		SP;
23	e PZ	02 26 22		SP;
23	e PZ	13 37 46		SP;
23	i PZ	21 18 18	C	LP;
23	e PZ	21 32 39		SP;
33	e PZ	22 03 29		SP;
24	eiPZ	00 54 15.1	C	SP;LP;
24	eiPZ	02 16 00.8		SP;
24	i(P)Z	02 29 03		LP;
24	eiPZ	05 20 27		LP;
	ei N	30 53		LP;
24	i PZ	14 10 50.0	(D)	SP;
24	i PZ	16 03 18	C	LP;
	i N	13 16		LP;
24	eiPZ	21 07 19	C	LP;
24	eiPZ	22 47 19	C	SP;LP;
26	e PZ	01 31 07		SP;
26	e PZ	02 42 42		SP;
26	e PZ	16 07 42		SP;
26	e PZ	18 46 46		SP;
27	e PZ	00 34 02		SP;

(42)

INSTITUTE OF GEOPHYSICS
 TEHRAN UNIVERSITY, IRAN
 PRELIMINARY READINGS OF EARTHQUAKES
 AT

SEISMOLOGICAL OBSERVATORY NO. 2 TAMBIZ

Lat. 38°04'03" N. a = + 0.54 501

Long. 46°19'35" E. b = + 0.57 088

Height. 1 430 m. c = + 0.61 400

REPORT NO. 42, 68

OCTOBER 1968

27	ei(P)Z	13 54 06		SP;LP;
28	e PZ	14 32(08)		SP;
28	e PZ	23 47 45		LP;
	ei Z	51 18	C	SP;LP;
29	i PZ	04 17 48.8	D	SP;LP;
	ei E	27 28		LP;
29	e PZ	14 19(02)		SP;
29	eiPZ	17 12 56	C	LP;
29	e PZ	22 28 06		SP;LP;
30	eiPZ	00 19 32		SP;
30	i PZ	04 12 13	C	SP;
30	eiPZ	16 53 08	C	LP;
30	e PZ	18 24 08		SP;
31	e PZ	03 25(48)		LP;
	i Z	26 02.2	C	SP;LP;
31	i PZ	09 18 53	D	LP;

NOVEMBER 1968

1	eiPZ	13 31 15		LP;
	ei N	41 43		LP;
1	e PZ	22 44 22		SP;
2	eiPZ	22 44 36		SP;LP;
	ei E	54 51		LP;
3	e PZ	04 54(03)		LP;
3	eiPZ	08 10 37	C	LP;
3	eiPZ	09 54 32		SP;
3	e PZ	18 43 30		SP;
4	e PZ	01 56 55		SP;

15 NOV 1968

(43)

INSTITUTE OF GEOPHYSICS
 TEHRAN UNIVERSITY, IRAN
 PRELIMINARY READINGS OF EARTHQUAKES
 AT
 SEISMOLOGICAL OBSERVATORY NO.2 TABRIZ
 Lat. 38°04'03" N. a = + 0.54 501
 Long. 46°19'35" E. b = + 0.57 088
 Height. 1 430 m. c = + 0.61 400
 REPORT NO.43,68
 NOVEMBER 1968

4	e PZ	09 08 25		SP;
	ei N	13 08		LP;
4	i PZ	09 25 38.5	D	SP;LP;
	i Z	28 00		LP;
4	e PZ	18 56 45		SP;
5	e PZ	02 08 13		SP;
5	i PZ	17 14 39.4		SP;
5	e PZ	21 24 36		SP;
6	e PZ	00 55 15		SP;
6	e PZ	01 40 07		SP;
6	e PZ	17 08 20		SP;
7	e PZ	03 52 08		LP;
7	e PZ	09 06(15)		SP;
7	eiPZ	09 30 19	C	LP;
7	i PZ	10 09 08.3	C	SP;LP;
7	e PZ	22 51 47		SP;
8	e PZ	03 55(35)		SP;
8	e PZ	18 31 57		SP;
8	e PZ	18 45 27		SP;
	ei Z	45 36.5		SP;
8	ei(P)Z	18 48 08.3		SP;
9	e PZ	02 30 43		SP;
9	e PZ	13 48 24		SP;LP;
	ei N	52 17		LP;
9	e PZ	16 31 46		SP;
9	e PZ	17 14 47		SP;
9	i PZ	20 42 57	C	LP;
	i NE	53 06		LP;
10	i PZ	17 12 49	D	LP;
	i Z	12 58		LP;
10	eiPZ	21 35 37.7	C	SP;
10	e PZ	23 47 55		SP;
11	eiPZ	02 19 22.7		SP;

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN
PRELIMINARY READINGS OF EARTHQUAKES

AT

SEISMOLOGICAL OBSERVATORY NO. 2 TABRIZ
Lat. 38°04'03" N. a = + 0.54 501
Long: 46°19'35" E. b = + 0.57 088
Height. 1 430 m. c = + 0.61 400

REPORT NO. 44,68
NOVEMBER 1968

11	e PZ	09 06 10		SP;
11	eIPZ	09 46 22		SP;LP;
11	i PZ	14 52 34	C	LP;
11	eIPZ	23 38 00.9		SP;
11	e PZ	23 56(45)		SP;
12	i PZ	00 55 08	C	LP;
12	e PZ	05 41 15		SP;
	ei E	44 24		LP;
12	e PZ	06 12 20		SP;LP;
	e Z	12 34		LP;
12	eIPZ	09 08 47	(D)	LP;
12	e PZ	22 20 04		LP;
13	i PZ	18 53 02	C	LP;
	ei NE	19 02 36		LP;
14	eIPZ	11 57 33	C	LP;
14	e PZ	12 22 52		LP;
14	e PZ	17 37(10)		SP;
14	e PZ	23 27 53		SP;LP;
	i Z	30 06		LP;
14	e1(P)Z	23 31 08	(D)	LP;
15	e PZ	00 19 35		SP;
15	e PZ	06 27 48		SP;
	i Z	27 59.9		SP;
16	eIPZ	00 42 25	C	SP;
16	eIPZ	03 10 11.5		SP;
16	eIPZ	08 04 59	(C)	LP;
	i E	08 26		LP;
17	eIPZ	05 31 36	C	LP;
17	e PZ	07 52 12		LP;
	i Z	52 19		LP;
	ei N	08 01 12		LP;
17	eIPZ	23 12 38.3	C	SP;



(45)

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN
PRELIMINARY READINGS OF EARTHQUAKES
AT

SEISMOLOGICAL OBSERVATORY NO.2 TABRIZ
Lat. 38°04'03" N. a = + 0.54 501
Long. 46°19'35" E. b = + 0.57 088
Height. 1 450 m. c = + 0.61 400

REPORT NO. 45,68
NOVEMBER 1968

18	e PZ	17 09(31)		SP;
19	e PZ	20 02 29		SP;
20	e PZ	14 54(05)		SP;
20	e PZ	17 08 36		SP;
21	eIPZ	03 08 57.5		SP;
21	e PZ	08 51 12		SP;
21	e PZ	15 11 50		SP;
21	e PZ	21 02 36		SP;
21	e PZ	23 38 34		SP;
22	i PZ	09 10 32	C	LP;
	ei E	19 30		LP;
22	eIPZ	10 44 02	C	SP;LP;
22	i PZ	11 49 38.2	C	SP;LP;
22	eIPZ	16 05 19	(C)	SP;LP;
23	e PZ	02 42 16		SP;
23	e PZ	15 23 43		SP;
23	e PZ	19 14 55		SP;
24	i PZ	21 32 12.4	C	SP;LP;
24	e PZ	21 54 50		SP;

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

OCTOBER 1968

1	iiP	18 16 22.8	D	4	eiP	00 51 13	
		D=1.0°			eipP	51 23	
<u>USCGS:</u>				D=70.1°			
H: 18 16 07.9; 38.9 N; 46.0 E; N.W. IRAN-USSR BORDER REGION. h: 56 Km. Mag: MB: 3.5(CGS).				<u>USCGS:</u>			
				H: 00 40 02.2; 41.7 N; 142.8 E; HOKKAIDO, JAPAN REGION. h: 54 Km. Mag: MB: 5.0(CGS).			
2	e P	22 34 04		4	e P	01 49 18	
3	e P	07 52 47		4	e P	02 14 04	
	eiS	53 24		4	e P	05 56 12	
3	i P	08 17 29.5	D	D=64.7°			
		micr sec		<u>USCGS:</u>			
	P Z'	0.75 0.9		H: 05 45 35.2; 24.9 N; 122.6 E; TAIWAN REGION. h: 27 Km. Mag: MB: 5.2(CGS).			
	P Z	4 4					
D=86.8°				4			
<u>USCGS:</u>				i PP 06 23 53			
H: 08 04 55.6; 3.8 S; 128.5 E; CERAM. h: 97 Km. Mag: MB: 5.6(CGS).				i SKKS 30 40			
3	i P	10 54 42.8		i 31 38			
	i	54 48.0		i 33 24			
	i S	55 27		i SPP 34 26			
3	i P	18 03 05.2		i SS 39 32			
	i	03 10		i SSS 43 36			
3	e P	18 22 16		micr sec			
	eiS	31 23		Mx Z 18.3 20			
D=70.1°				Mx N 16.2 20			
<u>USCGS:</u>				Mx E 8.2 18			
H: 18 11 01.6; 16.0 N; 123.2 E; PHILIPPINE ISLANDS REGION. h: 35 Km. Mag: MB: 5.1(CGS).				D=112.5°			
3	e P	19 49 17		<u>USCGS:</u>			
3	i P	20 16 27.1	D	H: 06 04 31.9; 56.2 S; 27.0 W; SOUTH SANDWICH ISLANDS REGION. h: 63 Km. Mag: MB: 5.9(CGS).			
	i S	16 43.5		<u>UPPSALA:</u>			
				h: 120 Km(Up, Ki, Um). M: 6.2(Up, Ki).			

OCTOBER 1968

4 e P 07 03 44
 D=89.3°
USCGS:
 H: 06 50 50.9; 7.3 S; 129.7 E;
 BANDA SEA.
 h: 52 Km.
 Mag: MB: 5.3(CGS).

4 i P 07 40 00
 eipP 40 12
 ei 40 20.5
 i S 50 38
 D=86.8°
USCGS:
 H: 07 27 16.3; 7.6 S; 126.3 E;
 BANDA SEA.
 h: 32 Km.
 Mag: MB: 5.8(CGS).

4 e P 10 09 59
 4 e P 16 29 28
 eiS 30 10.0
 5 eiP 02 58 32.5
 eiS 59 14
 5 i P 15 14 00.0
 i 14 08.3
 i 14 22.5
 D=4.3°
USCGS:
 H: 15 12 51.0; 41.7 N; 49.5 E;
 CASPIAN SEA.
 h: 56 Km.
 Mag: MB: 5.1(CGS).

UPPSALA:
 h= 80 Km.
 5 e P 21 29 16
 5 e P 22 00 48
 i S 01 11.8
 6 eiS 00 29 51.5
 6 ei(PKP) 05 34 36
 eiPP 37 16
 D=136.6°

USCGS:
 H: 05 15 11.5; 15.0 S; 175.5 W;
 TONGA ISLANDS.
 h: N
 Mag: MB: 5.3, MS: 6.0(CGS), 4.9-
 5.3(BRK).

6 i(PKP) 09 06 28
 i PP 09 07
 micr sec
 Mx Z 7.3 22
 Mx N 4.4 22
 Mx E 5.8 22
 D=136.2°
USCGS:
 H: 08 47 02.0; 14.7 S; 175.6 W;
 SAMOA ISLAND REGION.
 h: 35 Km.
 Mag: MB: 5.4, MS: 6.0(CGS), 6(PAS),
 5.8-6.2(BRK).

6 e P 15 10 24
 D=15.8°
USCGS:
 H: 15 06 44.8; 36.9 N; 26.5 E;
 DODECANESE ISLANDS.
 h: 40 Km.
 Mag: MB: 4.7(CGS).

BCIS :
 H: 15 06 38 ; 36.9 N; 26.7 E;
 Mag: ML: 4.7 ATH.
 6 eiP 19 51 51.5
 D=74.0°
USCGS:
 H: 19 40 26.2; 31.7 N; 140.2 E;
 SOUTH OF HONSHU, JAPAN.
 h: 109 Km.
 Mag: MB: 5.2(CGS).

6 e P 22 09 50
 D=10.8°
USCGS:
 H: 22 07 10.9; 38.8 N; 32.6 E;
 TURKEY.
 h: 39 Km.
 Mag: MB: 4.8(CGS).

OCTOBER 1968

7	iiP	19 31 24.0	D
	iiX	31 28.0	
	i PP	34 30.0	
	i S	40 32.0	
	i	41 08.5	
	i	41 45.3	
	i	41 59.6	
	iisS	43 44	
	i PKPPKP	58 28	
	e SKPPKP	20 01 08	
	i	18 27	
		micr sec	
	P Z	136 18	
	P N	19.3 16	
	P E	38 16	
	X Z'	8.4 1.0	
	S N	140.8 20	
	S E	61.3 15	
	Mx Z	90 19	
	Mx N	95.6 23	
	Mx E	60 20	

D=77.4°

USCGS:

H: 19 20 20.3; 26.3 N; 140.6 E;
 BONIN ISLANDS REGION.
 h: 516 Km.
 Mag: MB: 6.1(CGS), 7.5(PAS), 6.3-
 6.7(BRK).

UPPSALA:

h= 520 Km(Up,Ki).
 m= 7.1, M= 7.1(Up,Ki).
 Double P; average interval
 3.8 sec.

7	e P	19 58 12
---	-----	----------

D=77.5°

USCGS:

H: 19 47 02.7; 26.3 N; 140.8 E;
 BONIN ISLANDS REGION.
 h: 496 Km.
 Mag: MB: 4.7(CGS).

7	i P	21 00 11.2	C
	i	00 16.5	
	i pP	00 21.3	
	i sP	00 26.0	
	i PcP	00 34.5	
	eiPP	02 51	
	i	03 15.5	

i(SPP)	10 02.2
i(PPS)	10 06
e PKPPKP	28 11

D=69.7°

USCGS:

H: 20 49 01.3; 42.0 N; 142.4 E;
 HOKKAIDO, JAPAN REGION.
 h: 32 Km.
 Mag: MB: 5.7, MS: 6.1(CGS).

8	e P	00 09 11
	eiS	09 28

8	ei	01 02 07.5
---	----	------------

D=71.6°

USCGS:

H: 00 50 41.8; 35.6 N; 139.9 E;
 NEAR S. COAST OF HONSHU, JAPAN.
 h: 76 Km.
 Mag: MB: 5.3(CGS).

8	i P	07 56 03.8	D
	i PcP	56 07.2	
	i pP	56 12.0	
	i PP	59 24	
	eiSKS	08 06 29	
	i ScS	06 42	
	i	07 07	
	i SP	07 34	
	i	07 42	
	i SS	12 06	

		micr sec	
	P Z'	1.8 1.4	
	P Z	12.5 6	
	ScS E	8.5 8	

D=86.4°

USCGS:

H: 07 43 23.1; 39.9 S; 87.7 E;
 SOUTHEAST INDIAN RISE.
 h: N
 Mag: MB: 6.0, MS: 5.8(CGS), 6(PAS).

8	i SKS	15 18 50
	i SKKS	20 16
	i	20 30
	i	23 44

D=121.5°

USCGS:

H: 14 53 38.5; 23.3 S; 66.5 W;

OCTOBER 1968

(cont.)

iiSKS	22	58	
i SKKS	23	16	
i ScS	23	36	
i SS	30	07	
	micr	sec	
P Z	6.2	6	
PP Z	6.8	9	
Mx Z	68.1	23	
Mx N	55.7	21	
Mx E	45	21	

D=95.5°

USCGS:
 H: 02 58 47.8; 31.5 S; 117.0 E;
 WESTERN AUSTRALIA.
 h: 1 Km.
 Mag: MB: 6.0, MS: 6.8(CGS), 7.3
 (PAS), 6.5-6.9(BRK), 7¼(PAL)
 7-7¼(GOL).

14	eiP	05	31	45.6
	ei		32	31.0
	ei PP		33	45.0

D=50.2°

USCGS:
 H: 05 22 44.3; 12.6 N; 95.2 E;
 ANDAMAN ISLANDS REGION.
 h: N
 Mag: MB: 5.5(CGS).

14	e P	08	26	54
14	i P	09	22	44 C
		micr	sec	
	Mx Z	3.8	19	

D=71.6°

USCGS:
 H: 09 11 27.5; 38.2 N; 142.1 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 69 Km.
 Mag: MB: 5.0(CGS).

UPPSALA:
 h= 45 Km(Up,Um,Ud).
 m= 6.2(Up,Ki).

14	e P	12	00	33
	i S		00	38
14	i P	13	52	04.5
	i S		52	24.5

14	e P	18	35	11
	i S		35	23.5
15	eiP	02	07	06.2 C

D=76.6°

USCGS:
 H: 01 55 16.3; 0.9 N; 119.9 E;
 NORTHERN CELEBES.
 h: 34 Km.
 Mag: MB: 5.0, MS: 5.5(CGS).

15	i P	02	20	52.5 C
	eipP		21	18
	eisP		21	26.5
	i PcP		21	29.5
	eiS		29	10
		micr	sec	
	P Z'	0.52	1.0	
	P Z	2.1	4	

D=63.0°

USCGS:
 H: 02 10 34.4; 0.5 S; 100.6 E;
 SOUTHERN SUMATRA.
 h: 98 Km.
 Mag: MB: 5.6(CGS).

15	eiP	20	20	55.7
	eipP		21	14.7
	i		21	26.0
	iiS		30	38.0
	eiScS		31	02
	ei		31	28
		micr	sec	
	S N'	1.0	2.8	
	S N	3.3	7	
	S E	1.2	7	

D=76.6°

USCGS:
 H: 20 09 08.7; 9.0 N; 126.3 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 63 Km.
 Mag: MB: 5.2(CGS).

15	e P	22	29	42
	eiS		30	07.0
16	e P	03	41	48
16	eiP	07	56	48
	i PP		59	18

(cont.)

OCTOBER 1968

(cont.)

D=67.6°
USCGS:
 H: 07 45 46.8; 29.3 N; 129.4 E;
 RYUKYU ISLANDS.
 h: 13 Km.
 Mag: MB: 5.6, MS: 5.4(CGS).

16 e P 15 29 08
 i 30 37.2

D=5.8°

USCGS:
 H: 15 27 29.4; 32.6 N; 48.8 E;
 WESTERN IRAN.
 h: N
 Mag: MB: 4.1(CGS).

16 e P 21 06 17
 16 e P 22 38 45
 eiS 39 02.5

17 ei 05 27 49

D=104.8°

USCGS:
 H: 05 09 06.2; 3.8 S; 152.2 E;
 NEW IRELAND REGION.
 h: 22 Km.
 Mag: MB: 5.3(CGS).

17 i P 07 51 49.6
 i S 52 05.5

17 ei 21 09 55
 ei 20 22
 ei 26 14

17 eiP 23 50 28.7
 i 50 46.7

18 e P 00 00 44
 i 00 47.0
 eisS 04 36

D=20.5°

USCGS:
 17 H: 23 56 05.5; 38.3 N; 20.2 E;
 GREECE
 h: 29 Km.
 Mag: MB: 4.5(CGS).

18 eiP 00 43 13.0
 eiS 43 31.0

18 e P 01 50 22
 i S 50 50.0

18 e P 06 04 42

D=64.5°

USCGS:
 H: 05 54 05.7; 24.9 N; 122.3 E;
 TAIWAN REGION.
 h: 44 Km.
 Mag: MB: 5.1(CGS).

18 ei(P) 11 33 18.5
 i 33 28.0

D=81.6°

USCGS:
 H: 11 20 55.0; 1.2 N; 126.7 E;
 MOLUCCA PASSAGE.
 h: 11 Km.
 Mag: MB: 5.3(CGS).

18 e PP 16 08 06

D=98.7°

USCGS:
 H: 15 50 19.9; 47.0 S; 10.4 W;
 SOUTH ATLANTIC RIDGE.
 h: N
 Mag: MB: 4.5(CGS).

18 i 18 39 28.6
 i 40 45.2

19 eiP 00 32 19

D=81.0°

USCGS:
 H: 00 20 02.3; 1.5 N; 126.1 E;
 MOLUCCA PASSAGE.
 h: 20 Km.
 Mag: MB: 5.3(CGS).

19 i P 02 38 14.0 C
 i(S) 42 12

D=21.2°

USCGS:
 H: 02 33 30.9; 37.3 N; 73.1 E;
 TADZHIK SSR.
 h: 76 Km.
 Mag: MB: 4.9(CGS).

OCTOBER 1968

19 eiP 07 06 19 C
 i 06 35.0
 i 06 40.0
 eiS 10 08
 i PcP 10 21
 i SS 10 43
 i SSS 11 01
 micr sec
 PcP Z 6.9 10
 D=21.2°

USCGS:

H: 07 01 33.4; 37.3 N; 73.2 E;
 TADZHIK SSR.
 h: 51 Km.
 Mag: MB: 5.2(CGS).

19 eiP 09 56 51.0 C
 i 57 11.0
 eiS 10 00 40
 i PcP 00 52
 i SS 01 14
 i SSS 01 30
 micr sec
 PcP Z 11.5 10
 D=21.3°

USCGS:

H: 09 52 03.4; 37.5 N; 73.3 E;
 TADZHIK SSR.
 h: N
 Mag: MB: 5.4(CGS).

19 eiP 15 39 14 C
 eiS 42 40
 D=18.5°

USCGS:

H: 15 34 54.8; 35.3 N; 23.5 E;
 CRETE.
 h: 19 Km.
 Mag: MB: 4.8(CGS).

19 e 17 48 29
 eiSKP 51 43
 D=138.3°

USCGS:

H: 17 28 43.6; 15.2 S; 173.3 W;
 TONGA ISLANDS.
 h: N
 Mag: MB: 5.2,MS: 5.6(CGS).

19 i P 18 48 51.5 C
 i S 49 29.0
 19 eiP 20 24 38.7
 eiS 35 05.0
 20 i(P) 07 19 00 D
 eiS 27 38
 micr sec
 Mx Z 10.9 18
 D=64.6°

USCGS:

H: 07 08 17.1; 25.0 N; 122.5 E;
 TAIWAN REGION.
 h: 15 Km.
 Mag: MB: 5.4,MS: 5.7(CGS).

20 i P 10 10 21 D
 i S 10 37
 20 e P 12 33 10
 micr sec
 Mx Z 4.3 14
 Mx N 7.7 14
 Mx E 5.3 14
 D=71.8°

USCGS:

H: 12 21 47.2; 40.3 N; 144.2 E;
 OFF EAST COAST OF HONSHU, JAPAN.
 h: 15 Km.
 Mag: MB: 4.9(CGS).

UPPSALA:

(h= 15 Km), M= 5.8(Up, Ki).

20 i P 14 02 16.7
 20 eiP 23 18 52.2
 D=16.6°

USCGS:

H: 23 15 04.0; 45.7 N; 26.6 E;
 RUMANIA.
 h: 123 Km.
 Mag: MB: 4.6(CGS).

20 e(P) 23 50 42
 D=7.8°

USCGS:

H: 23 48 28.4; 38.7 N; 36.5 E;
 TURKEY.
 h: 45 Km.
 Mag: MB: 4.0(CGS).

OCTOBER 1968

21 e P 01 49 20
 i 49 24.5
 e S 49 58

21 e P 18 20 57
 i 21 04.5
 e S 24 22
 i(SS) 24 39

D=18.6°

USCGS:

 H: 18 16 41.6; 35.2 N; 23.4 E;
 CRETE.

h: 5 Km.

Mag: MB: 4.7(CGS)

21 e P 22 26 24
 i 26 27.6
 i 26 30.5
 i S 27 18.5
 i 27 21

UPPSALA:

Caucasus.

21 eiP 23 22 42
 i(S) 24 19.5

21 e P 23 39 13
 i 40 13.5

22 eiP 01 53 32.5
 eiS 53 44.2

22 eiP 09 56 24
 ei(S) 57 16

23 eiP 02 26 22.2
 eiS 26 44

23 i P 13 37 49.0
 micr sec

P Z' 0.32 1.0

D=77.0°

USCGS:

 H: 13 25 58.9; 9.1 S; 112.0 E;
 SOUTH OF JAVA.

h: 46 Km.

Mag: MB: 5.4(CGS).

23 i P 21 18 17.4 C
 i 18 23.2
 i PP 22 15.7
 i SKS 28 55

m i SP 31 02
 i SS 36 38

micr sec

PP Z 12.5 6

Mx Z 111 24

Mx N 129 23

Mx E 95.5 24

D=98.4°

USCGS:

 H: 21 04 41.3; 3.3 S; 143.3 E;
 NEAR NORTH COAST OF NEW GUINEA.

h: 12 Km.

 Mag: MB: 6.1, MS: 6.8(CGS), 6.8
 (PAS), 6.6-6.9(BRK), 7-7¼(PAL).

23 ei 21 32 39.0

23 e P 22 03 31
 eiS 04 30

24 i P 00 54 15.0 C
 eiS 01 04 04

D=78.0°

USCGS:

 H: 00 42 21.9; 7.2 N; 126.6 E;
 MINDANAO, PHILIPPINE ISLANDS.

h: 77 Km.

Mag: MB: 5.4(CGS).

24 i P 02 16 00.8 C
 i PP 20 03.0

micr sec

P Z' 0.07 0.8

PP Z 2.1 6

D=98.4°

USCGS:

 H: 02 02 26.9; 3.5 S; 143.6 E;
 NEAR NORTH COAST OF NEW GUINEA.

h: 40 Km.

Mag: MB: 5.3(CGS).

24 eiP 05 20 26
 eiPP 23 44

i S 30 48

e SP 31 48

D=84.0°

USCGS:

 H: 05 07 53.9; 45.6 S; 34.1 E;
 PRINCE EDWARD ISLANDS REGION.

h: N

Mag: MB: 5.3, MS: 5.5(CGS).

OCTOBER 1968

24 i P 14 10 49.0
 i 10 53.3
 eiS 20 56

micr sec
 P Z' 0.32 1.0

D=81.3°

USCGS:

H: 13 58 35.1; 1.5 N; 126.4 E;
 MOLUCCA PASSAGE.

h: 47 Km.

Mag: MB: 5.4(CGS).

24 iiP 16 03 18.0 C
 i pP 03 31.5
 i sP 03 37.4
 ei 06 41.0
 i S 13 16
 i SKS 13 28
 i ScS 13 36.5
 i sS 13 40

micr sec

P Z 20.8 7

P N 2.1 4

P E 5.5 8

Mx Z 18.2 22

Mx N 33.9 21

Mx E 20 22

D=79.0°

USCGS:

H: 15 51 18.5; 5.9 N; 127.0 E;
 PHILIPPINE ISLANDS REGION.

h: 70 Km.

Mag: MB: 5.4(CGS), 6.5(PAS).

UPPSALA:

h= 50 Km(Up, Ki, De).

m= 6.1, M= 6.5(Up, Ki).

24 i P 21 07 18 C
 micr sec

P Z 1.6 4

D=79.0°

USCGS:

H: 20 55 19.3; 6.0 N; 127.1 E;
 PHILIPPINE ISLANDS REGION.

h: 85 Km.

Mag: MB: 5.0(CGS).

UPPSALA:

h= 70 Km(Ki).

24 eiP 21 56 25

D=74.5°

USCGS:

H: 21 44 46.2; 33.1 N; 142.1 E;
 OFF EAST COAST OF HONSHU, JAPAN.

h: 28 Km.

Mag: MB: 5.0(CGS).

24 i P 22 47 19 C

D=72.8°

USCGS:

H: 22 35 50.9; 49.7 N; 155.8 E;
 KURILE ISLANDS.

h: 35 Km.

Mag: MB: 5.5(CGS).

25 e P 10 39 02

D=55.9°

USCGS:

H: 10 29 24.1; 4.3 N; 95.5 E;
 NORTHERN SUMATRA.

h: 33 Km.

Mag: MB: 5.5(CGS).

25 e P 11 50 33

D=81.8°

USCGS:

H: 11 38 14.7; 50.6 N; 177.4 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.

h: 23 Km.

Mag: MB: 5.1(CGS).

26 e P 01 31 07
 i S 31 35.4

26 e P 02 42 42
 i S 43 35.5

26 e P 16 07 44

D=70.9°

USCGS:

H: 15 56 27.1; 42.9 N; 145.2 E;
 HOKKAIDO, JAPAN REGION.

h: 41 Km.

Mag: MB: 5.1(CGS).

UPPSALA:

h= 40 Km(Ki, Ud).

m= 6.2(Up, Ki).

OCTOBER 1968

 26 e P 18 46 35
 eiS 46 49

 27 eiP 00 34 02
 eiS 34 41.5

 27 i P 13 54 05 C
 i(pP) 54 43
 i S 14 03 44

D=77.9°

USCGS:

 H: 13 42 26.1; 5.9 N;125.6 E;
 MINDANAO,PHILIPPINE ISLANDS.
 h: 193 Km.
 Mag: MB: 5.5(CGS).

28 ei 13 01 38

D=16.0°

USCGS:

 H: 12 54 32.8; 39.0 N; 25.9 E;
 AEGEAN SEA.
 h: N
 Mag: MB: 4.5(CGS).

28 e P 13 39 28

 28 e P 14 52 08
 ei 52 26.5
 e S 15 01 30

D=73.5°

USCGS:

 H: 14 40 41.4; 33.4 N;140.8 E;
 SOUTH OF HONSHU, JAPAN.
 h: 61 Km.
 Mag: MB: 5.5(CGS).

 28 eiP 23 47 46
 i PKP 51 19.6
 i pPKP 51 32.0
 i sPKP 51 36.0
 i PP 52 53
 i SKS 58 14
 i SKKS 59 43

	micr	sec
PKP Z'	2.0	1.2

D=121.3°

USCGS:

 H: 23 32 28.7; 12.5 S;166.5 E;
 SANTA CRUZ ISLANDS.

h: 60 Km.

 Mag: MB: 5.9(CGS),6.5(PAS),6.4-
 6.6(BRK),7.0(GOL).

UPPSALA:

 h; 50 Km(Up,Ki,Um,De).
 M= 6.5(Up,Ki).

 29 i P 04 17 48.5 D
 i S 27 24
 i PS 28 03

	micr	sec
P Z'	0.74	1.5
P Z	2.1	4

D=75.3°

USCGS:

 H: 04 06 04.1; 31.2 N;141.6 E;
 SOUTH OF HONSHU, JAPAN.
 h: 17 Km.
 Mag: MB: 5.7(CGS).

29 eiP 06 56 58.4

D=75.3°

USCGS:

 H: 06 45 15.4; 31.2 N;141.7 E;
 SOUTH OF HONSHU, JAPAN.
 h: N
 Mag: MB: 5.1(CGS).

 29 e P 14 19 02
 e S 19 49

 29 i P 17 12 56 C
 eiS 23 01
 i PS 23 56

D=81.1°

USCGS:

 H: 17 00 40.4; 1.8 N;126.4 E;
 MOLUCCA PASSAGE.
 h: N
 Mag: MB: 5.5(CGS).

 29 eiP 22 28 05
 i 28 10.1
 eiPP 30 57
 e S 37 49
 ii 37 56
 i PS 38 38
 iiSS 42 40
 ii 46 34

(cont.)

OCTOBER 1968

(cont.)

Mx Z micr sec
 Mx N 74 23
 Mx E 83 21
 Mx E 59 23

D=75.8°

USCGS:

H: 22 16 15.6; 65.4 N; 150.1 W;
 ALASKA.
 h: 7 Km.
 Mag: MB: 6.0, MS: 6.5(CGS), 6.4-
 7(PAS), 6.3-6.5(BRK), 7.0
 (GOL), 7.1 ML(CGS).

30 i P 00 19 32.6 C
 micr sec
 P Z' 0.19 0.8

D=81.1°

USCGS:

H: 00 07 16.2; 1.8 N; 126.4 E;
 MOLUCCA PASSAGE.
 h: N
 Mag: MB: 5.2(CGS).

30 e P 04 12 12
 16 04
 i PcP 16 12
 eiSS 16 34
 eiSSS 16 53

D=21.3°

USCGS:

H: 04 07 20.7; 37.4 N; 73.2 E;
 TADZHIK SSR.
 h: 12 Km.
 Mag: MB: 5.5(CGS).

30 e P 16 53 06
 i 53 38.5

D=6.2°

USCGS:

H: 16 51 33.5; 37.9 N; 38.6 E;
 TURKEY.
 h: 3 Km.
 Mag: MB: 4.9(CGS).

BCIS :

H: 16 51 37 ; 38.0N; 38.6 E;
 MLH= 5.1(Collm), 4.6(Pruhonice).

30 i 18 24 12
 31 eiP 03 25 56
 i 26 02.1
 i SS 29 10

micr sec

Mx Z 16 11
 Mx N 37 11
 Mx E 12,7 11

D=15.4°

USCGS:

H: 03 22 15.0; 36.6 N; 27.1 E;
 DODECANESE ISLANDS.
 h: 11 Km.
 Mag: MB: 5.1(CGS).

BCIS :

H= 03 22 17 ; 36.6 N; 27.1 E;
 h= N
 M= 5.6(Athenes), 5.5(Roma), MLH=
 5.3(Collm), 4.8(Pruhonice).

31 i P 09 18 52 D
 i pP 19 01
 e 28 52
 i S 29 00
 i ScS 29 16

micr sec

P Z 6.6 3.0

D=81.4°

USCGS:

H: 09 06 36.4; 1.2 N; 126.3 E;
 MOLUCCA PASSAGE.
 h: N
 Mag: MB: 6.1, MS: 6.0(CGS).

31 e P 23 56 04
 eiS 56 12.5

M. S. Nabavi

September 1969

Dr. H. K. Afshar

Director,

Institute of Geophysics

Tehran University

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

NOVEMBER 1968

- 1 e SP 04 25 36 D=33.6°
D=119.2°
USCGS:
H: 03 55 50.3; 18.2 N; 105.7 W;
OFF COAST OF JALISCO, MEXICO.
h: N
Mag: MB: 4.7, MS: 5.3(CGS), 4.9-
5.1(BRK), 5½(GOL).
- 1 eiP 13 31 14 C
eiPP 34 34
ei S 41 39
D=84.3°
USCGS:
H: 13 18 47.1; 5.5 S; 124.8 E;
BANDA SEA.
h: 53 Km.
Mag: MB: 5.6(CGS).
- 1 e P 16 29 21
e S 29 42
- 1 e P 22 44 22
- 2 e P 22 44 36
eiSKS 54 51
D=81.1°
USCGS:
H: 22 32 21.7; 1.5 N; 126.2 E;
MOLUCCA PASSAGE.
h: 37 Km.
Mag: MB: 5.4(CGS).
- 3 ei(S) 04 58 12
D=21.0°
USCGS:
H: 04 49 31.8; 42.1 N; 19.4 E;
YUGOSLAVIA.
h: 17 Km.
Mag: MB: 5.0, MS: 5.3(CGS).
- 3 eiP 08 10 57 C
eiPP 12 10
ei S 16 26
- 3 e P 08 30 43 D=33.6°
USCGS:
H: 08 04 15.6; 6.8 N; 60.1 E;
CARLSBERG RIDGE.
h: N
Mag: MB: 5.2(CGS).
- 3 eiP 09 54 32
i 54 39.5
i S 55 11.0
- 3 e 18 43 29
D=13.4°
USCGS:
H: 18 39 58.8; 38.8 N; 29.2 E;
TURKEY.
h: 5 Km.
Mag: MB: 5.0(CGS).
- 4 eiP 01 56 55.7
D=69.4°
USCGS:
H: 01 45 52.4; 13.4 N; 120.4 E;
MINDORO, PHILIPPINE ISLANDS.
h: 74 Km.
Mag: MB: 5.4(CGS).
- 4 e P 09 08 21
eiS 13 03
D=27.8°
USCGS:
H: 09 02 31.8; 12.2 N; 58.0 E;
ARABIAN SEA.
h: N
Mag: MB: 5.1(CGS).

NOVEMBER 1968

4 i PKP 09 25 38.5 D
 i SKP 27 59.7 D
 i 28 15
 i 28 51
 i SKS 31 48
 i (SKKS) 33 42
 i 34 56
 i SP 37 01
 i 39 42

	micr	sec
PKP Z'	0.69	0.8
PKP N'	0.23	0.7
PKP E'	0.25	0.8
PKP Z	2.8	6
SKP Z	8.9	8

D=126.6°

USCGS:

H: 09 07 38.5; 14.2 S; 172.0 E;
 NEW HEBRIDES ISLANDS REGION.
 h: 585 Km.
 Mag: MB: 5.8(CGS), 6½(PAS), 6¼
 (BRK).

4 e P 18 56 45
 eiS 56 57
 5 e P 02 08 13
 i 08 41.3
 i PP 08 53
 e 12 38
 e 12 53

D=25.1°

USCGS:

H: 02 02 44.2; 32.4 N; 76.4 E;
 KASHMIR-INDIA BORDER REGION.
 h: N
 Mag: MB: 4.9(CGS).

5 e P 11 25 34
 eiS 25 57
 5 i P 17 14 39.4
 iiS 14 47.3
 5 e P 21 24 36
 i S 24 41.3

6 e P 00 55 15

D=79.7°

USCGS:

H: 00 43 12.2; 4.0 N; 126.3 E;

TALAUD ISLANDS.
 h: 58 Km.
 Mag: MB: 5.1(CGS).

6 e 01 40 07

6 e P 13 43 48

D=11.2°

USCGS:

H: 13 41 04.5; 35.2 N; 32.8 E;
 CYPRUS.
 h: 54 Km.
 Mag: MB: 4.8(CGS).

6 eiP 17 08 20.5
 i 08 50.5
 i 09 19.5
 e S 09 43

	micr	sec
Mx Z	10.8	7
Mx N	20.8	6
Mx E	10	7

D=7.3°

USCGS:

H: 17 06 05.3; 31.7 N; 50.7 E;
 IRAN.
 h: 42 Km.
 Mag: MB: 4.6(CGS).

7 e. PKP 03 52 08
 eiPP 55 12
 eiSKP 55 54
 ei 04 07 46

D=139.7°

USCGS:

H: 03 32 50.8; 16.6 S; 172.7 W;
 SAMOA ISLANDS REGION.
 h: N
 Mag: MB: 5.1, MS: 5.5(CGS).

7 e P 09 06 24
 i 07 19.2

7 eiP 09 30 19 C

D=70.6°

USCGS:

H: 09 19 07.3; 40.2 N; 142.3 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 61 Km.
 Mag: MB: 4.9(CGS).

NOVEMBER 1968

7 i P 10 09 08.2
 e S 14 44
 micr sec
 P Z' 0.95 1.1
 P N' 0.19 0.6
 P E' 0.25 0.8
 P Z 4.0 3

D=35.7°

USCGS:

 H: 10 02 05.3; 73.4 N; 54.9 E;
 NOVAYA ZEMLYA.

h: OKm.

Mag: MB: 6.0(CGS), 6¼-6½(BRK).

7 e P 22 51 47
 i 51 58

8 e P 03 55 35
 i S 56 21.5

8 i P 18 31 57.0
 i S 32 21

8 i PKP 18 45 36.0
 i SKP 48 08.0

micr sec

SKP Z' 0.19 0.8

SKP N' 0.06 0.8

SKP E' 0.1 0.8

D=136.5°

USCGS:

 H: 18 27 26.7; 19.5 S; 179.2 W;
 FIJI ISLANDS REGION.

h: 670 Km.

Mag: MB: 5.2(CGS).

9 e 02 30 42

D=81.1°

USCGS:

 H: 02 18 23.0; 1.4 N; 126.1 E;
 MOLUCCA PASSAGE.

h: 40 Km.

Mag: MB: 5.2(CGS).

9 i P 13 48 24 C
 i 49 06
 i S 52 16

micr sec

Mx Z 13.3 15

Mx N 36 20

Mx E 24 14

D=21.2°

USCGS:

 H: 13 43 38.4; 23.8 N; 64.7 E;
 NEAR COAST OF WEST PAKISTAN.

h: N

Mag: MB: 5.2, MS: 5.3(CGS).

9 i P 16 31 46.5
 i S 32 15.5

9 e P 17 14 56
 i 15 03.1

D=93.6°

USCGS:

 H: 17 01 41.1; 38.0 N; 88.5 W;
 SOUTHERN ILLINOIS.

h: 19 Km.

 Mag: MB: 5.3(CGS), 5-5½(PAL), 6.0
 (GOL).

9 i P 20 42 57.0 C
 i 43 15.0
 i 43 18.5
 i S 53 02
 i ScS 53 20

D=81.0°

USCGS:

 H: 20 30 41.9; 2.4 N; 126.8 E;
 MOLUCCA PASSAGE.

h: N

 Mag: MB: 5.5, MS: 6.0(CGS), 6.1
 (PAS).

10 e 12 55 32

D=18.1°

USCGS:

 H: 12 50 42.9; 34.8 N; 24.3 E;
 CRETE.

h: 33 Km.

Mag: MB: 5.0(CGS).

10 i P 17 12 48.5 D
 i pP 12 56.5
 i sP 13 00.6
 i 13 09.5
 i 13 26.5
 i S 21 37

D=66.4°

(cont.)

NOVEMBER 1968

(cont.)

USCGS:

 H: 17 01 59.2; 20.0 N; 121.4 E;
 PHILIPPINE ISLANDS REGION.

h: N

Mag: MB: 5.2, MS: 5.5(CGS).

UPPSALA:

h: 40 Km(Up, Ki, Sk, Um, Ud, De).

m= 6.0, M= 5.9(Up, Ki).

10	ei	17 17 50	
	ei	19 54	
10	i P	21 35 37.7	
	i pP	35 48.0	
	i sP	35 51.3	
	i X	35 57.8	
	i PcP	36 09.0	
		micr sec	
	P Z'	0.27 0.8	
	X Z'	0.18 0.7	

D=66.1°

USCGS:

 H: 21 24 51.7; 3.6 S; 102.0 E;
 SOUTHERN SUMATRA.

h: N

Mag: MB: 5.3(CGS).

UPPSALA:

h= 60 Km(Sk, Um, Ud).

10	eiP	23 47 54.5	
	i S	48 21.3	
11	i SKP	02 19 22.7	
		micr sec	
	SKP Z'	0.11 0.9	

D=136.6°

USCGS:

 H: 01 53 41.0; 19.6 S; 179.1 W;
 FIJI ISLANDS REGION.

h: 674 Km.

Mag: MB: 4.9(CGS).

11	eiP	09 06 14	
----	-----	----------	--

D=83.4°

USCGS:

 H: 08 53 52.0; 57.3 N; 155.3 W;
 ALASKA PENINSULA.

h: 59 Km.

Mag: MB: 5.3(CGS).

11	eiP	09 46 21	
----	-----	----------	--

D=89.4°

USCGS:

 H: 09 33 30.1; 6.7 S; 130.4 E;
 BANDA SEA.

h: 75 Km.

Mag: MB: 5.2(CGS).

11	i P	14 52 34.0 C	
	i pP	52 44	
	eiPcP	52 53	
	i	53 08	
	eiS	15 01 43	
	i sS	02 08	
		micr sec	
	P Z	6.6 7	
	Mx Z	42.7 16	
	Mx N	43.3 15	
	Mx E	29.3 16	

D=71.1°

USCGS:

 H: 14 41 15.9; 40.1 N; 143.0 E;
 OFF EAST COAST OF HONSHU, JAPAN.

h: 35 Km.

Mag: MB: 5.5, MS: 5.9(CGS).

UPPSALA:

(h= 35 Km). m=6.3, M=6.3(Up, Ki).

11	eiP	23 38 00.8	
	ei	38 05.3	
	ei	41 06	
		micr sec	
	Mx Z	8.2 11	
	Mx N	16.0 12	
	Mx E	5.6 9	

D=15.4°

USCGS:

 H: 23 34 21.0; 36.7 N; 27.1 E;
 DODECANESE ISLANDS.

h: 23 Km.

Mag: MB: 4.8(CGS).

11	e	23 56 45	
12	i P	00 55 08 C	
	i	55 11.0	
	eiPP	57 40	
	e S	01 04 03	
	i(SKS)	04 56	

NOVEMBER 1968

(cont.)

		micr	sec
P	Z	3.2	8

D=67.7°

USCGS:

 H: 00 44 12.8; 27.5 N; 128.4 E;
 RYUKYU ISLANDS.

h: 48 Km.

Mag: MB: 5.0, MS: 5.6(CGS).

UPPSALA:

h: 60 Km(Ud,De).

m= 6.6, M=5.7(Up,Ki).

12 e P 02 32 12

12 e P 03 41 10

i 44 20

		micr	sec
--	--	------	-----

Mx Z	8.8	10
------	-----	----

Mx N	16.3	12
------	------	----

Mx E	7.6	9
------	-----	---

D=15.2°

USCGS:

 H: 03 37 35.7; 36.6 N; 27.3 E;
 DODECANESE ISLANDS.

h: 17 Km.

Mag: MB: 4.7(CGS).

12 e P 06 12 28

ei 15 40

ei 15 57

		micr	sec
--	--	------	-----

Mx Z	8.6	11
------	-----	----

Mx N	15.9	12
------	------	----

Mx E	8.8	9
------	-----	---

D=15.2°

USCGS:

 H: 06 08 54.3; 36.6 N; 27.3 E;
 DODECANESE ISLANDS.

h: 24 Km.

Mag: MB: 4.7(CGS).

12. i P 09 08 48 D

i S 18 01

D=71.1°

USCGS:

 H: 08 57 27.1; 41.2 N; 143.9 E;
 HOKKAIDO, JAPAN REGION.

h: 17 Km.

Mag: MB: 5.3(CGS).

UPPSALA:

h= 45 Km(Up,Sk,Um).

m= 5.8, M= 5.5(Up,Ki).

12 i PKP 22 20 04

e 23 12

i SKP 23 47

D=139.0°

USCGS:

 H: 22 00 39.1; 15.6 S; 172.8W;
 SAMOA ISLANDS REGION.

h: 47 Km.

Mag: MB: 5.2(CGS).

13 e P 07 31 04

eiS 31 16

13 e PKP 16 07 37

eiSKP 10 24

D=137.5°

USCGS:

 H: 15 49 26.4; 20.8 S; 178.8 W;
 FIJI ISLANDS REGION.

h: 590 Km.

Mag: MB: 5.2(CGS).

13 iiP 18 53 02 C

iipP 53 14.5

ei 53 42.0

i(PP) 55 32

i 55 50

i(PPP) 57 16

e S 19 02 14

i sS 02 34

eiSS 06 52

		micr	sec
--	--	------	-----

P Z	4.7	7
-----	-----	---

pP Z	6.4	4
------	-----	---

Mx Z	10.6	16
------	------	----

Mx N	13.5	17
------	------	----

Mx E	9.0	16
------	-----	----

D=70.8°

USCGS:

 H: 18 41 47.9; 40.2 N; 142.5 E;
 NEAR EAST COAST OF HONSHU, JAPAN.

h: 49 Km.

(cont.)

NOVEMBER 1968

(cont.)

Mag: MB; 5.5, MS: 5.8(CGS).

UPPSALA:

m= 6.4, M= 6.2(Up, Ki).

 PP appears early by about 9-10
sec at Um, Sk, Ud.

14	iiSKP	11 57 32	C
	eisSKP	59 14	
		micr sec	
	SKP Z	2.3 4	

D=139.3°

USCGS:

 H: 11 35 12.0; 20.0 S; 176.0 W;
FIJI ISLANDS REGION.

h: 220 Km.

Mag: MB: 5.1(CGS).

14	i P	12 22 52	C
	eiPPS	32 26	

D=67.9°

USCGS:

 H: 12 11 50.1; 31.6 N; 131.5 E;
KYUSHU, JAPAN.

h: 6 Km.

Mag: MB: 5.0(CGS).

UPPSALA:

(h= 5 Km), M= 5.6(Up, Ki).

14	e P	17 37 11	
	i S	38 08.8	
14	i PKP	23 27 52	
	i PP	30 04	
	i SKP	31 08	
	ei	41 51	

D=129.2°

USCGS:

 H: 23 08 54.4; 21.5 S; 170.1 E;
LOYALTY ISLANDS REGION.

h: 103 Km.

Mag: MB: 5.4(CGS).

15	eiP	00 19 35	
	eiS	29 50	

D=83.0°

USCGS:

H: 00 07 09.7; 58.3 N; 150.4 W;

GULF OF ALASKA.

h: 26 Km.

Mag: MB: 5.1(CGS), 6¼-6½(PAS).

15	eiP	06 27 48	
	i	27 52	
	i	28 00.0	
	i S	29 32	

D=9.4°

BCIS :

 H: 06 25 36 ; 37.5 N; 58.2 E;
IRAN-URSS BORDER REGION.

Mag: MLH: 5.7(Collm).

UPPSALA:

m= 5.9, M= 5.8(Up, Ki).

16	i PKP	00 42 25.0	
		micr sec	
	PKP Z'	0.06 0.6	

D=126.1°

USCGS:

 H: 00 23 40.7; 18.0 S; 168.5 E;
NEW HEBRIDES ISLANDS.

h: 173 Km.

Mag: MB: 5.3(CGS).

16	eiP	03 10 11.4	
	i S	10 31.5	

16	ei	03 48 32	
----	----	----------	--

D=154.8°

USCGS:

 H: 03 27 39.6; 35.8 S; 102.2 W;
SOUTHERN PACIFIC OCEAN.

h: N

Mag: MB: 4.8, MS: 5.4(CGS).

16	i PKP	08 04 59	C
	i PP	07 18	C
	iiPKS	08 25	
	i SKP	08 28	

		micr sec	
--	--	----------	--

	PKP Z	1.4	4
	PP Z	1.6	7
	PKS E'	3.2	3.5
	PKS E	5.4	4
	SKP Z	1.5	6

D=131.0°

(cont.)

NOVEMBER 1968

(cont.)

USCGS:

H: 07 45 51.7; 16.6 S; 175.9 E;
 FIJI ISLANDS REGION.
 h: 66 Km.
 Mag: MB: 5.6(CGS), 6.1(PAS), 6.3-
 6.5(BRK), 6-6¼(GOL).

17 e pP 01 30 49
 e PP 34 18
 e SKS 40 23
 eiS 41 42
 ei 43 04
 i SP 43 28

D=106.0°

USCGS:

H: 00 16 08.6; 9.6 N; 72.6 W;
 VENEZUELA.
 h: 172 Km.
 Mag: MB: 5.7(CGS), 6½-6¾(PAS).

17 i P 05 31 35 C
 i(pP) 31 44.6

D=86.0°

USCGS:

H: 05 18 59.4; 3.3 S; 128.7 E;
 CERAM.
 h: 69 Km.
 Mag: MB: 5.2(CGS).

17 eiP 07 52 12
 i(pP) 52 19
 eiPcP 52 39
 i 54 33
 i PP 54 51
 i 55 16
 i 55 45
 i PPP 56 24
 i S 08 01 09
 i sSSS 08 46

micr sec
 (pP) Z 4.0 8

D=67.6°

USCGS:

H: 07 41 16.1; 1.3 S; 13.6 W;
 NORTH OF ASCENSION ISLAND.
 h: N
 Mag: MB: 5.3, MS: 5.8(CGS), 5.8
 (PAS), 6½(GOL).

17 i P 23 12 38.2 C
 e S 22 51

micr sec

P Z 0.13 1.2

D=81.8°

USCGS:

H: 23 00 20.7; 1.8 N; 126.6 E;
 MOLUCCA PASSAGE.

h: 30 Km.

Mag: MB: 5.1(CGS).

18 e P 17 09 42
 i S 10 12.2

19 e P 07 06 26
 i S 06 45.0

20 e P 13 59 19

20 e P 14 17 43
 i 18 16.0

20 e P 14 54 09
 eiS 54 51.5

20 e P 17 08 36
 i 08 43.8
 i S 09 16.8

21 i S 02 58 50.4

21 i P 03 08 57.6
 eiS 12 24

D=19.3°

USCGS:

H: 03 04 39.0; 36.4 N; 70.6 E;
 HINDU KUSH REGION.

h: 204 Km.

Mag: MB: 5.0(CGS).

21 e P 08 51 12
 i S 51 48

21 e P 14 44 16

D=85.2°

USCGS:

H: 14 32 13.0; 18.8 N; 145.0 E;
 MARIANA ISLANDS.

h: 299 Km.

Mag: MB: 5.2(CGS).

21 e P 15 11 48

NOVEMBER 1968

 21 eiP 23 38 34.2
 i S 39 04.2

 22 e P 06 29 50
 e S 30 28

 22 i P 09 10 31 C
 i PPP 14 44
 i 16 00
 i 19 29
 i S 19 36
 i 27 32

	micr	sec
P Z	4.7	12
S N	6.3	14
S E	5.2	14
Mx Z	19.3	23
Mx N	18.3	28
Mx E	14.8	25

D=69.2°

USCGS:

 H: 08 59 23.1; 16.3 N; 122.3 E;
 LUZON, PHILIPPINE ISLANDS.
 h: 26 Km.
 Mag: MB: 5.3, MS: 5.8(CGS).

 22 i P 10 44 01.6 C
 i S 54 14
 eiSP 54 53

	micr	sec
P Z'	0.29	0.8
P Z	2.0	4

D=80.6°

USCGS:

 H: 10 31 45.1; 1.5 N; 125.6 E;
 MOLUCCA PASSAGE.
 h: 7 Km.
 Mag: MB: 5.7(CGS).

 22 i P 11 49 38 C
 ei' 49 50.4
 ei 49 54.5

	micr	sec
P Z'	0.5	1.0
P Z	2.3	3

D=71.3°

USCGS:

 H: 11 38 17.3; 13.1 N; 122.6 E;
 LUZON, PHILIPPINE ISLANDS.
 h: 17 Km.
 Mag: MB: 5.5(CGS).

 22 e P 12 59 30
 i S 59 44

 22 eiPKP 16 02 23.5
 iiSKP 05 18.7
 i 05 27.0
 i 05 36.5
 i 05 47
 i PKS 06 15.0
 micr sec
 SKP Z' 0.32 1.0

D=138.1°

USCGS:

 H: 15 44 05.0; 23.6 S; 180.0 W;
 SOUTH OF FIJI ISLANDS.
 h: 516 Km.
 Mag: MB: 5.3(CGS).

UPPSALA:

h= 600 Km(Up).

 23 e P 02 32 07
 i S 32 25.0

 23 e P 02 42 16
 i S 42 47.8

23 eiP 19 14 55.7

D=136.6°

USCGS:

 H: 21 09 47.9; 15.6 S; 176.0 W;
 FIJI ISLANDS REGION.
 h: N
 Mag: MB: 5.3(CGS).

 24 iiP 21 32 12.4 C
 i pP 32 28.0
 i PcP 32 34.4
 i 34 07.5
 i 34 32
 i(sS) 41 45.5
 i 42 30

	micr	sec
P Z'	0.54	1.1
pP Z'	0.70	1.1
P Z	4.7	4

D=70.6°

USCGS:

 H: 21 20 59.9; 40.3 N; 142.3 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 51 Km.
 Mag: MB: 5.9(CGS).

NOVEMBER 1968

24 e P 21 54 52
 i 54 50.0
 i 55 06.0
 i S 55 28.6
 25 e 15 36 36
 25 e 16 31 30
 25 i P 18 48 58 C
 i S 58 58
 i PS 59 50
 micr sec
 P Z 7.2 8
 S N 16.8 13
 S E 10.5 12
 Mx Z 18.6 21
 Mx N 25.4 20
 Mx E 20.4 20
 D=79.5°

USCGS:

H: 18 36 53.0; 5.0 N; 126.9 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 31 Km.
 Mag: MB: 5.4, MS: 6.2(CGS).

26 e 00 31 10
 micr sec
 Mx Z 5.4 21
 Mx N 4.9 20
 Mx E 4.2 20
 D=105.1°

USCGS:

H: 00 03 14.3; 57.5 S; 6.8 W;
 SOUTH ATLANTIC RIDGE.
 h: N
 Mag: MB: 5.6, MS: 5.3(CGS).

26 e 01 28 39
 D=105.6°

USCGS:

H: 01 10 12.9; 5.3 S; 152.0 E;
 NEW BRITAIN REGION.
 h: 68 Km.
 Mag: MB: 5.5(CGS).

26 i SKP 02 10 44.5
 micr sec
 SKP Z' 0.14 1.0
 D=137.3°

USCGS:

H: 01 49 56.3; 21.3 S; 179.5 W;
 FIJI ISLANDS REGION.
 h: 672 Km.
 Mag: MB: 5.0(CGS).

26 e P 14 44 47
 e(S) 46 09

26 e P 18 40 20
 eiS 47 04

D=46.1°

USCGS:

H: 18 31 51.8; 55.9 N; 111.4 E;
 LAKE BAIKAL REGION.
 h: 4 Km.
 Mag: MB: 5.1(CGS).

27 e P 20 38 49
 eiS 39 35

28 e P 07 11 20

D=70.7°

USCGS:

H: 07 00 08.1; 40.1 N; 142.3 E;
 NEAR EAST COAST OF HONSHU, JAPAN.
 h: 47 Km.
 Mag: MB: 5.0(CGS).

28 eiP 10 50 58
 ei(PKP) 54 41
 i PKP 54 48
 e(PPP) 58 14
 i 11 01 00
 i SKS 01 40
 i SKKS 02 48
 i SKKKS 02 54
 i 03 53
 i(SP) 05 14
 i(PKKP) 05 36

micr sec
 PKP Z 7.7 14
 (PKKP) Z 14.6 18
 Mx Z 20.5 25
 Mx N 17.4 24
 Mx E 19.4 25

D=115.4°

USCGS:

H: 10 36 07.7; 15.4 N; 94.6 W;
 NEAR COAST OF OAXACA, MEXICO.

NOVEMBER 1968

(cont.)

h: 33 Km.
Mag: MB: 5.2, MS: 6.4(CGS), 6.1
(PAS).

28 i pPP 16 49 58
iiSP 58 31
i sPPS 17 00 44
D=109.8°

USCGS:

H: 16 30 32.1; 6.8 S; 156.2 E;
SOLOMON ISLANDS.
h: 169 Km.
Mag: MB: 5.7(CGS).

28 e(P) 18 05 33
28 e P 21 07 19
29 eiP 04 41 05.3
D=81.2°

USCGS:

H: 04 28 50.7; 2.5 N; 127.3 E;
MOLUCCA PASSAGE.
h: N
Mag: MB: 5.4(CGS).

30 eiP 19 29 12.5
D=31.5°

USCGS:

H: 19 22 49.3; 8.4 N; 58.3 E;
CARLSBERG RIDGE.
h: N
Mag: MB: 4.9(CGS).

M. S. Nabavi

September 1969

Dr. H. K. Afshar
Director,
Institute of Geophysics
Tehran University

INSTITUTE OF GEOPHYSICS
TEHRAN UNIVERSITY, IRAN

THE SEISMOLOGICAL BULLETIN OF
SEISMOLOGICAL OBSERVATORY OF TABRIZ

DECEMBER 1968

1 e P 03 51 29
i S 52 05.8

1 e P 07 36 45
eiS 37 23.7

1 eiSP 13 45 00

D=121.0°

USCGS:

H: 13 14 50.6; 10.6 S; 74.9 W;
PERU.

h: 5 Km.

Mag: MB: 5.4, MS: 5.6(CGS).

2 i P 02 43 24.2 D
i S 51 15
i SP 51 29

micr sec

P Z' 0.85 1.3

P Z 3.2 6

Mx Z 6.1 17

Mx N 12.3 12

Mx E 8.4 13

D=55.9°

USCGS:

H: 02 33 41.6; 13.9 S; 23.8 E;
ZANBIA.

h: 7 Km.

Mag: MB: 6.0(CGS).

3 e P 18 20 07
i S 20 20.1

3 i P 19 38 04 C
i pP 38 13.0
i S 47 24.0
i PPS 48 12.0

micr sec

S N 1.6 10

S E 1.2 10

D=72.0°

USCGS:

H: 19 26 39.1; 8.4 S; 105.7 E;
SOUTH OF JAVA.

h: 25 Km.

Mag: MB: 5.2(CGS).

4 eiP 04 59 51
i S 05 00 23.5

D=2.8°

H: 04 59 09; 38.1 N; 42.9 E;
TURKEY.

4 i P 18 47 11 C
e S 50 06

D=15.5°

USCGS:

H: 18 43 28.1; 36.4 N; 27.1 E;
DODECANESE ISLANDS.

h: 49 Km.

Mag: MB: 4.4 (CGS).

4 e P 18 56 04

D=15.5°

USCGS:

H: 18 52 17.6; 36.5 N; 27.1 E;
DODECANESE ISLANDS.

h: 42 Km.

Mag: MB: 3.9(CGS).

4 eiP 19 41 05.6

D=15.5°

USCGS:

H: 19 37 23.5; 36.5 N; 27.1 E;
DODECANESE ISLANDS.

h: 51 Km.

Mag: MB: 4.7(CGS).

BCIS:

H: 19 37 23; 36.5 N; 27.0 E;
MPV=5.1, MLV=4.7, MLH=4.6(Moxa).

4 e P 21 47 55
e S 53 10

D=31.5°

USCGS:

H: 21 41 32.6; 8.4 N; 58.4 E;
CARLSBERG RIDGE.

h: N.

Mag: MB: 5.1(CGS).

DECEMBER 1968

 5 e P 00 06 08
 eiS 06 58.8

D=4.1°

 H: 00 05 05; 33.9 N; 46.0 E;
 WESTERN IRAN.

 5 eiP 07 55 50.5 (C)
 i 55 56.0
 eiS 58 36

 micr sec
 Mx Z 33.5 10

D=15.5°

USCGS:

 H: 07 52 11.0; 36.6 N; 27.0 E;
 DCDECANESE ISLANDS.
 h: 35 Km.
 Mag: MB: 5.5(CGS).

BCIS:

 H: 07 52 09; 36.6 N; 26.9 E;
 h: N.
 M=6.2(Athenes), 5.9(Uppsala),
 MPH=MSH=5.9(Collm), MPH=5.8
 (Pruhonic), MLV=5.8(Moxa),
 MLH=5.7(Praha), 5.6(Moxa, Stra-
 sbourg), 5.5(Collm), 5.4(Pruhonic).

UPPSALA:

(h: 35 Km), m=6.0, M=5.6(Up, Ki).

 5 i P 09 52 46 C
 i PP 54 39
 i S 59 40

 micr sec
 P Z 1.5 3
 Mx Z 26.5 18

D=47.1°

USCGS:

 H: 09 44 11.0; 63.9 N; 21.7 W;
 ICELAND REGION.
 h: 5 Km.
 Mag: MB: 5.5, MS: 6.0(CGS), 5.9(PAS),
 6¼(BRK), 6.0(GOL).

UPPSALA:

(h: 5 Km), m=5.7, M=6.0(Up, Ki).

 5 e P 21 27 49
 eiS 28 41.2

D=4.6°

 H: 21 26 38; 34.0 N; 44.1 E;
 WESTERN IRAN.

5 e P 23 11 29

UPPSALA:

SCUTH OF GREECE.

 6 e P 04 08 48
 i S 09 05.5

 6 e P 23 40 44
 i S 41 08.3

D=2.0°

 H: 23 40 06; 36.2 N; 46.0 E;
 WESTERN IRAN.

7 i SKS 05 22 10

i SP 24 36

i SSP 30 11

i 30 59

micr sec

Mx Z 41 27

Mx N 27 24

Mx E 30 23

D=99.8°

USCGS:

 H: 04 57 49.0; 3.4 S; 145.9 E;
 NEAR NORTH COAST OF NEW GUINEA.
 h: 15 Km.
 Mag: MB: 5.3, MS: 6.5(CGS), 6¼(PAS),
 6¼(BRK).

7 i P 15 53 09.2 C

i 53 38.3

i S 16 03 13

D=80.4°

USCGS:

 H: 15 40 57.9; 51.6 N; 175.7 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.
 h: N.
 Mag: MB: 5.3, MS: 5.4(CGS).

7 i P 15 58 54

D=80.4°

USCGS:

 H: 15 46 45.2; 51.6 N; 175.8 E;
 RAT ISLANDS, ALEUTIAN ISLANDS.
 h: 59 Km
 Mag: MB: 5.0(CGS).

DECEMBER 1968

(cont.)

UPPSALA:

(h: 60 Km). m=6.1

7	i	PKP	20	54	40.0	C
	i	pPKP	54	48.0		
	i	PP	57	47		
	i		58	24		
	i	SKP	58	27		

D=140.1°

USCGS:

 H: 20 35 21.2; 45.0 S; 80.3 W;
 OFF COAST OF SOUTHERN CHILE.

h: N.

Mag: MB: 5.6(CGS).

7	e	PKP	21	54	47
	i	(sPKP)	55	15.0	

D=128.2°

USCGS:

 H: 21 35 44.8; 20.7 S; 169.4E;
 NEW HEBRIDES ISLANDS.

h; 61 Km.

Mag: MB: 5.6(CGS), 6(PAS), 6(BRK).

8	e	P	20	56	28
	i	S	56	55.5	

9	eiP	20	25	55.0
	e	30	56	

10	e	S	11	36	32
----	---	---	----	----	----

D=19.2°

USCGS:

 H: 11 28 37.5; 38.9N; 21.6 E;
 GREECE.

h: 65 Km.

Mag: MB; 4.6(CGS).

11	e	P	02	39	25
	i	S	39	51.5	

11	eiP	11	56	33	C
	eipP	56	42		

D=68.6°

USCGS:

 H: 11 45 30.8; 33.6 N; 134.0 E;
 SHIKOKU, JAPAN.

h: 32 Km.

Mag: MB: 5.4(CGS).

11	e	P	18	26	06
	i	S	26	18.5	

11	e	PKP	21	53	24
----	---	-----	----	----	----

D=141.3°

USCGS:

 H: 21 34 07.5; 23.9 S; 176.1 W;
 SOUTH OF FIJI ISLANDS.

h: 95 Km

Mag: MB: 5.4(CGS).

11	e	P	23	30	48
----	---	---	----	----	----

D=74.2°

USCGS:

 H: 23 19 0^m.3; 12.0 N; 125.5 E;
 SAMAR PHILIPPINES ISLANDS.

h: 12 Km,

Mag:

11	eiP	23	53	45.5	C
	i	S	53	51.5	

12	i	P	05	37	13.0
----	---	---	----	----	------

i	pP	37	39
---	----	----	----

i	sP	37	51
---	----	----	----

eiS	46	42
-----	----	----

	micr	sec
--	------	-----

P	Z'	0.62	1.3
---	----	------	-----

P	Z	2.3	4.0
---	---	-----	-----

D=75.8°

USCGS:

 H: 05 25 37.2; 9.7 N; 125.7 E;
 MINDANAO, PHILIPPINES ISLANDS.

h: 113 Km.

Mag: MB: 5.6(CGS).

12	e	PKP	07	38	18
----	---	-----	----	----	----

eipPKP	40	01
--------	----	----

i	SKP	41	11
---	-----	----	----

i	42	34
---	----	----

i	43	24
---	----	----

D=136.0°

USCGS:

 H: 07 19 44.8; 16.0 S; 177.8 W;
 FIJI ISLANDS REGION.

h: 431 Km.

Mag: MB: 5.5(CGS).

12	eiP	17	36	02
----	-----	----	----	----

eiS	40	34
-----	----	----

D=25.9°

USCGS:

 H: 17 30 30.2; 12.1 N; 45.9 E;
 (cont.)

DECEMBER 1968

(cont.)

WESTERN GULF OF ADEN

h; N.

Mag: MB: 4.6(CGS).

 12 eiP 18 56 19.6
 eiS 57 31.5

D=6.2°

USCGS:

H: 18 54 47.2; 35.8 N; 53.5 E;

IRAN

h: N.

Mag: MB: 4.6(CGS).

13 e P 14 42(45)

14 i P 10 11 14.0 C

i S 21 22

micr sec

P Z 4.4 9.0

D=80.4°

USCGS:

H: 09 59 02.3; 51.5 N; 175.7E;

RAT ISLANDS, ALEUTIAN ISLANDS.

h: N.

Mag: MB: 5.2, MS: 5.8(CGS), 6¼(PAS).

UPPSALA:

(h=N); M=5.6(Up, Ki).

15 eiP 01 23 48.2

eiS 24 17

15 i P 02 26 28.5 C

i S 36 36

micr sec

P Z' 1.0 1.6

P Z 8.2 10

S N 19.6 13

S E 5.0 13

D=80.4°

USCGS:

H: 02 14 17.5; 51.6 N; 175.8 E;

RAT ISLANDS, ALEUTIAN ISLANDS.

h: N.

 Mag: MB: 5.7, MS: 6.2(CGS), 6¼-6½
 (PAS), 5¼(BRK).

UPPSALA:

(h; N). m=6.7, M=5.9(Up, Ki).

15 i P 02 40 42 C

i S 50 46

D=80.5°

USCGS:

H: 02 28 32.4; 51.7 N; 175.8 E;

RAT ISLANDS, ALEUTIAN ISLANDS.

h: N.

Mag: MB: 5.4, MS: 6.1(CGS).

15 e P 12 28 24

15 eiP 14 13 11.2

D=72.8°

USCGS:

H: 14 01 43.5; 49.6 N; 155.7 E;

KURILE ISLANDS

h: 50 Km.

Mag: MB: 5.4(CGS).

15 eiP 22 48 42.2

16 eiP 21 34 19

micr sec

Mx Z 3.7 16

Mx N 4.1 16

Mx E 3.1 16

D=71.7°

USCGS:

H: 21 22 57.1; 39.8 N; 143.6 E;

OFF EAST COAST OF HONSHU JAPAN.

h: 26 Km.

Mag: MB: 4.7, MS: 5.1(CGS).

16 e P 22 23 22

SOUTH WESTERN IRAN

17 i P 12 14 22 C

i pP' 14 47

i PP 17 38

i S 24 21

i SPP 25 35

micr sec

P Z 8 14

PP Z 10 14

PP N 9.6 14

S N 24.4 13

S E 26 14

Mx Z 32.6 23

Mx N 21.1 22

Mx E 18.9 24

D=80.8°

USCGS:

H: 12 02 15.0; 60.2 N; 152.8 W;

SOUTHERN ALASKA.

h: 86 Km.

Mag: MB: 5.9(CGS), 6½(PAS), 6½(DEX).

DECEMBER 1968

18 i PKP 20 22 27.5
 i SKP 25 27.2
 micr sec
 SKPZ' 0.34 1.2
 D=138.0°

USCGS:

H: 20 03 43.9; 19.9 S; 177.6 W;
 FIJI ISLANDS REGION.
 h: 367 Km.
 Mag: MB: 5.5(CGS).

19 eiP 00 38 47.5
 D=80.6°

USCGS:

H: 00 26 37.9; 0.2 S; 124.3 E;
 MGLUCCA SEA.
 h: 46 Km
 Mag: MB: 5.5(CGS).

19 i P 05 22 06.0 C
 i 22 15.2
 i pP 22 35.5
 i S 25 34
 micr sec
 P Z 6.1 7
 S Z 13 15
 S N 16.9 10
 S E 12.3 8
 D=19.1°

USCGS:

H: 05 17 51.6; 36.1 N; 70.1 E;
 HINDU KUSH REGION.
 h: 151 Km.
 Mag: MB: 5.4(CGS).

19 i P 06 19 07.5 C
 i S 19 17.8

19 i P 15 27 21.8 C
 ei 36 11
 i S 36 38
 micr sec
 P Z' 0.17 0.5
 F Z 5.1 8
 Mx Z 16.3 18
 Mx N 16.0 18
 Mx E 13.9 18
 D=72.5°

USCGS:

H: 15 15 55.7; 53.3 N; 160.1 E;
 NEAR EAST COAST OF KAMCHATKA.
 h: N.
 Mag: MB: 5.4; MS: 5.6(CGS).

UPPSALA:

(h: N). m=6.4, M=5.8(Up,Ki).
 19 eiPP 16 48 14
 D=103.5°

USCGS:

H: 16 30 00.0; 37.2 N; 116.5 W;
 SOUTH NEVADA.
 h: 0 Km
 Mag: MB: 6.3; MS: 5.6(CGS), 6.4(BRI).
 Underground explosion

19 e P 20 46 49
 e S 47 23
 NORTH WESTERN IRAN.

20 eiP 21 53 39.0
 D=75.8°

USCGS:

H: 21 41 59.5; 9.2 N; 125.4 E;
 MINDANAO, PHILIPPINE ISLANDS.
 h: 93 Km.
 Mag: MB: 5.2(CGS).

20 e P 23 42 13
 i 42 17.6
 D=19.7°

USCGS:

H: 23 37 56.2; 36.4 N; 71.0 E;
 AFGHANISTAN-USSR BORDER REGION.
 h: 197 Km.
 Mag: MB: 4.7(CGS).

21 eiP 00 40 18.0
 i pP 40 22.5
 D=15.4°

USCGS:

H: 00 36 37.3; 36.6 N; 27.1 E;
 DODECANES ISLANDS.
 h: 17 Km.
 Mag: MB: 4.6(CGS).

DECEMBER 1968

21 e P 03 58 10

D=15.4°

USCGS:

 H: 03 54 32.5; 36.5 N; 27.0 E;
 DODECANES ISLANDS.
 h: 35 Km.
 Mag: MB: 4.2(CGS).

 22 i PKP 02 06 10.0
 i pPKP 06 19.8

	micr	sec
PKPZ'	0.22	1.0
pPKPZ'	0.18	0.8

D=144.8°

USCGS:

 H: 01 46 33.7; 33.5 S; 177.0 W;
 SOUTH OF KERMADEK ISLANDS.
 h: 39 Km.
 Mag: MB: 4.9(CGS).

 22 i P 09 14 42.0 C
 i PP 16 27.3
 i S 21 12

	micr	sec
P Z'	0.34	1.2

D=43.8°

USCGS:

 H: 09 06 36.3; 36.2 N; 101.9 E;
 TSINGHAI PROVINCE, CHINA.
 h: N.
 Mag: MB: 5.5(CGS).

 22 eiP 16 57 11
 eiPcP 57 15.6
 eipP 57 23.5
 eiPP 17 00 31
 e S 07 40

D=84.0°

USCGS:

 H: 16 44 44.2; 56.3 N; 153.8 W;
 KODIAK ISLANDS REGION.
 h: N.
 Mag: MB: 5.3(CGS).

 23 eiP 06 05 06.1 C
 eiS 15 11

	micr	sec
P Z'	0.56	1.4
P Z	3.6	4

D=81.3°

USCGS:

 H: 05 52 51.1; 1.7 N; 126.6 E;
 MCLUCCA PASSAGE.
 h: 36 Km.
 Mag: MB: 5.6(CGS).

23 i P 23 24 16.5

D=19.4°

USCGS:

 H: 23 20 00.4; 36.4 N; 70.6 E;
 HINDU-KUSH REGION.
 h: 225 Km.
 Mag: MB: 4.7(CGS).

 24 eiP 00 05 54.4
 ei 06 55.5
 i 07 15.5

 24 eiP 03 42 18
 eiS 42 56

24 e P 13 10 24

D=66.5°

USCGS:

 H: 12 59 39.0; 18.1 N; 120.1 E;
 LUZON, PHILIPPINE ISLANDS.
 h: 53 Km.
 Mag: MB: 5.1(CGS).

 24 i P 15 54 55.5 C

	micr	sec
P Z'	0.14	0.7

D=84.3°

USCGS:

 H: 15 42 43.5; 7.6 S; 123.0 E;
 BANDA SEA.
 h: 218 Km.
 Mag: MB: 5.2(CGS).

 24 i P 19 54 51.6
 i S 54 54.2

25 i P 04 07 50.8

D=70.1°

USCGS:

 H: 03 56 39.2; 41.7 N; 142.8 E;
 HOKKAIDO, JAPAN REGION.
 h: 36 Km.
 Mag: MB: 5.3, MS: 4.8(CGS).

DECEMBER 1968

 25 eiP 12 21 27.1 C
 eiS 24 44

D=17.9°

USCGS:

 H: 12 17 20.8; 35.1 N; 24.3 E;
 CRETE.
 h: 68 Km.
 Mag: MB: 5.0(CGS).

 25 e P 15 35 50
 eiS 36 00.0

 26 eiP 12 21 40.5
 i S 21 58.8

 26 i P 21 18 04.5
 eipP 18 10.6

D=81.5°

USCGS:

 H: 21 07 48.3; 1.7 N; 126.3 E;
 MOLUCCA PASSAGE
 h: N.
 Mag: MB: 5.2(CGS).

27 e P 14 42 23

27 eiP 14 45 54.0

D=40.8°

USCGS:

 H: 14 38 11.6; 24.1 N; 91.6 E;
 INDIA EAST PAKISTAN BORDER
 REGION.
 h: 26 Km.
 Mag: MB: 5.2(CGS).

 27 e P 16 58 46
 e S 59 15

 27 i P 22 43 55.7 C
 i SKS 54 08

 micr sec
 P Z' 0.15 0.9

D=85.8°

USCGS:

 H: 22 31 15.8; 3.5 S; 123.2 E;
 CERAM
 h: N.
 Mag: MB: 5.4(CGS).

 28 i P 07 37 38.2
 i S 38 28.0
 NORTH CENTRAL OF IRAN

 29 i P 07 26 58.0 (C)
 i PcP 28 23
 i S 36 05

	micr	sec
S N	2.7	15
S E	1.3	9
Mx Z	7.4	23
Mx N	3.0	24
Mx E	4.0	22

D=69.4°

USCGS:

 H: 07 15 50.5; 13.6 N; 120.6 E;
 MINDORO, PHILIPPINE ISLANDS.
 h: N.
 Mag: MB: 5.4(CGS).

 29 eiP 08 26 05.4
 eiS 27 02.4

WESTERN IRAN

29 i P 18 04 34.3

D=61.9°

USCGS:

 H: 17 54 15.3; 0.5 S; 99.2 E;
 SOUTHERN SUMATRA.
 h: N.
 Mag: MB: 4.6(CGS).

 30 eiP 02 23 22.0
 eiS 24 55

NORTH CENTRAL IRAN

 30 i P 06 09 43.5
 eiS 10 10

 30 i P 07 15 39 C
 i pP 15 49
 eiS 26 03

D=83.5°

USCGS:

 H: 07 03 11.7; 57.6 N; 151.4 W;
 KODIAK ISLANDS REGION
 h: 34 Km.
 Mag: MB: 5.4(CGS).

DECEMBER

1969

30 i P 10 35 04
 i PP 36 45
 micr sec
 Mx Z 7.7 20
 Mx N 8.5 20
 Mx E 3.2 20
 D=42.0°

USCGS:

H: 10 27 09.7; 76.2 N; 7.5 E;
 SVALBARD REGION.
 h: 23 Km.
 Mag: MB: 5.0, MS: 5.5 (CGS), 5½-5¾
 (GOL).

BCIS:

H: 10 27 06; 76.9 N; 11 E;
 MHS=5.5, MLH=4.9 (Collm),
 4.7 (Prohonice).

30 eiP 22 22 16
 D=64.8°

USCGS:

H: 22 11 34.0; 23.2 N; 121.5 E;
 TAIWAN:
 h: 2 Km.
 Mag: MB: 4.7 (CGS).

31 e P 22 43 29
 e S 44 41

M. S. Nabavi
 September 1969

Dr. H. K. Afshar
 Director,
 Institute of Geophysics
 Tehran University