

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

h = 65 meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE Benioff 100k (long and short period) NEZ Bosch-Omori 25k NE

1937
January

No. 1

07.56	H	13 20 40	$\Lambda = 101^{\circ}$ from SKS-P
NZ	eP	34 32	Preliminary phases
Z	ePP	58 41	small compared to
N	iSKS	45 22	surface waves.
E	iSKKS	46 05	JSA = 36.1° N, 98.6° E
N	iPS	47 17	
N	ePPS?	47 55	
E	eSS	53 00	
NEZ	L	14 08 00	
11.56	H	13 20 47	$\Lambda = 36^{\circ}$ from PP-P
NZ	iP	27 50	Compression = 2mm
NE	iPP	29 00	to South = 0.5mm
Z	i	30 35	
N	eS	33 25	
E	L	38 00	
13.88	H	21 10 22	$\Lambda = 6.5^{\circ}$ from S-P
EZ	iP	11 59	Compression = 1mm
EZ	iS	13 15	to East = 0.5mm
			Surface waves weak
19.93	H	22 19 48	$\Lambda = 46^{\circ}$ from L-P
Z	iP	28 11	Compression = 1mm
NZ	L	42 00	
23.46	H	11 01 08	$\Lambda = 98^{\circ}$ from PP-P
Z	iP	14 54	Dilatation = 1mm
Z	i	16 54	
NEZ	i	17 10	
Z	iPP	19 04	
NEZ	ePPS	23 19	
NEZ	eSS	33 44	
NEZ	L	48 00	
25.27	H	06 33 50	$\Lambda = 123.5^{\circ}$ from PS-P'
Z	eP	49 50	JSA = 10.6° S, 145.3° E
Z	iP'	53 00	
Z	eSKS	59 59	
EZ	iPS	07 04 44	
EZ	eSS	11 32	
NEZ	L	31 30	

Other undecipherable disturbances.

Short Period: 02.59; 06.02; 06.66; 06.81; 06.92; 07.14;
07.27; 07.30; 12.86; 20.01; 27.72; 29.78;

Long Period: 02.95; 05.29; 05.94; 07.29; 07.32; 21.63;
29.76; 30.31; 31.42.

D. Lineham, S.J.
Seismologist

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

$h = 65$ meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE

Benioff 100k (long and short period) NEZ

Bosch-Omori 25k NE

 1937
 February

No. 2

07.18	H	04 41 36	$\Lambda = 40^{\circ}$ from L-P
NEZ	eP	49 17	Compression= 5mm
NE	L	05 00 30	to South= 2mm
NEZ	M	05 00 00	to East= 2.5mm
			USCGS= 41° N, 124° W
15.10	H	02 17 21	$\Lambda = 26.1^{\circ}$ from S-P
NEZ	iP	22 57	Dilatation= 3mm
Z	iPP	23 29	to North= 2mm
EZ	iS	27 21	to West= 1mm
NZ	iPcS?	30 00	
NEZ	L	30 10	
21.29	H	07 03 12	$\Lambda = 84^{\circ}$ from S-P
NEZ	iP	15 23	Compression= 4mm
Z	i	15 57	to South= 1mm
E	ePPP	20 40	to East= 1mm
E	eS	25 50	Series of aftershocks
NEZ	eSKS	26 06	given below.
Z	ePS	26 54	JSA= 45.2° N, 148.6° E
EZ	L	41 00	
23.04	H	00 48 14	$\Lambda = 83^{\circ}$ from PP-P
NZ	iP	01 01 00	Compression= 3mm
Z	i	01 10	
Z	iPP	04 11	
NE	L	28 00	

Aftershocks of quake 21.29 (time given to nearest minute)
 21st day- 07:39, 07:50, 08:02, 08:12, 10:37, 11:05, 11:50
 12:53, 22:41.
 22nd day- 00:32, 03:06, 04:48.

Other undecipherable disturbances (decimal of day)

Short Period: 02.20; 02.68; 02.84; 04.58; 04.59; 04.89;
 04.96; 05.90; 10.69; 12.60; 12.78; 13.79;
 17.81; 18.27; 19.77; 19.90; 23.04; 24.67;
 24.79; 24.82; 25.04; 25.75; 26.98; 27.45.

Long Period: 01.90; 04.45; 09.76; 22.57; 25.26.

D. Linchan, S.J.
 Seismologist

1937
March

WESTON, MASS.

No. 3
(cont)

24.05		H	01 11 00	$\Delta = 75^\circ$ from L-P
	Z	iP	22 16	
	Z	iP ₂	22 19	
	NE	L	46 30	
25.70		H	16 49 17	$\Delta = 35.6^\circ$ from S-P
	EZ	iP	56 17	Dilatation= 4mm
	Z	ePPP	57 44	to West= 2.5mm
	NE	eS	17 02 02	JSA= 33.4°N, 116.2°W.
	NZ	ePcS	02 35	
	N	eSS	04 16	
	N	L	07 00	
29.26		H	06 17 50	$\Delta = 9^\circ$ from S-P
	NZ	iP	25 42	Dilatation= 2mm
	NZ	iPP	27 06	to South= 1mm
	N	eS	31 24	
	N	L	36 00	
29.31		H	07 40 33	$\Delta = 60^\circ$ from S-P
	NZ	iP	59 30	Dilatation= 3mm
	NZ	ipP?	08 00 01	h= apparently below
	N	eS	07 21	normal
	NZ	L	16 45	
29.54		H	12 06 55	$\Delta = 40^\circ$ from L-P
	NZ	iP	14 53	Dilatation= 3mm
	NZ	i	15 17	to South= 1.5mm
	N	eS	21 00	
	N	L	27 00	

The following disturbance, while not sufficient to give epicentral distance, is evidently of deep origin.

19	NZ	iP	18 23 13	Compression= 2.2mm to North= 1mm
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Other seismic disturbances.

Short Period: 01.01; 02.92; 04.91; 09.69; 10.65; 11.90;
 14.57; 15.26; 18.62; 20.67; 20.71; 20.80;
 21.04; 22.62; 23.83; 24.04; 24.88; 26.50;
 27.54; 27.64; 27.88; 29.27; 29.33; 29.51;
 29.81; 29.87; 31.85.

Long Period: 03.41; 15.31; 21.85; 24.05; 24.59; 26.90;
 29.27; 29.77.

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W



h = 65 meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE Benioff 100k (long and short period) NEZ Bosch-Omori 25k NE

No. 3

1937
 March

02.62 H 14 47 33 $\Delta = 9.8^{\circ}$ measured
 EZ iP 49 55

09.24 H 05 44 33 $\Delta = 9.8^{\circ}$ measured
 EZ iP 46 57

NB 'H' on both quakes given by J.S.A. as well as location, 84.2° W, 40.4° N Further readings from the Weston **grams** will be given after study by Rev. V.C. Stechschulte, S.J., Cincinnati.

09.65 H 15 40 19 $\Delta = 35.5^{\circ}$ from S-P
 NZ iP 47 18 , Dilatation= 4.5mm
 NEZ iP₂ 47 25 to South= 2.5mm
 NZ iP_P 48 37 JSA= 10.6° N, 83.4° W
 NEZ iS 53 01
 E iSS 55 43
 NZ L 57 00

10.20 H 04 54 00 $\Delta = 61^{\circ}$ from L-P
 NZ eP 05 04 22
 NE L 23 30
 NE M 28 30

14.50 H 11 56 00 $\Delta = 66^{\circ}$ from S-P
 NEZ iP 12 06 40 Compression= 12mm
 NZ iP₂ 06 42 to North= 6mm
 NZ iP_P 07 00 to West= 1mm
 NZ iP_P? 07 05 JSA= 23.8° S, 71° W
 NEZ i 07 35 h= ca. 100 km.
 N iP_P 09 19
 NZ eS 15 30
 N eSS 19 33

19.76 H 18 11 19 $\Delta = 75^{\circ}$ from S-P
 NZ iP 23 14 Compression= 2mm
 NE i 24 07 to North= 0.5mm
 N ePP 26 26
 E eS 33 02
 N L 48 06

23.03 H 00 44 23 $\Delta = 81^{\circ}$ from S-P
 NZ iP 56 45 Compression= 1mm
 Z i 58 18
 N eS 01 07 01
 N L 22 15

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

$h = 65$ meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE Benioff 100k (long and short period) NEZ Bosch-Omori 25k NE

1937
April

No. 4

05.29	H	07 00 26	$\Delta = 112^{\circ}$ from PS-P'
NZ	eP	15 49	Compression= 1.2mm
Z	i	16 04	
NE	e	18 12	
NEZ	iP'	19 19	
NE	ePS	30 10	
NE	eSS	36 24	
NEZ	L	55 40	
13.21	H	05 07 22	$\Delta = 41^{\circ}$ from S-P
Z	eP	15 29	Compression= 1mm
E	eS	21 49	NS component not
E	eSS	24 19	in operation
EZ	L	27 35	
16.13	H	03 01 35	$\Delta = 118^{\circ}$ from PKKP-P
Z	eP	15 52	$h = 400$ km
Z	epP	17 23	JSA= 22.2° S, 179° E.
Z	eP'	19 41	
NEZ	iPP	20 47	
NE	eSKS	26 07	
NE	iS	28 08	
NEZ	i	28 19	
NEZ	eSP	30 00	
NE	ePKKP	29 57	
NE	eSSS	40 07	
29.76	H	18 11 01	$\Delta = 29^{\circ}$ from S-P
Z	eP	17 27	
Z	ePP	18 04	
NE	iS	22 17	
EZ	L	25 34	
29.79	H	18 52 44	$\Delta = 57^{\circ}$ from S-P
NEZ	iP	19 02 21	Compression= 11mm
Z	iPP	04 32	to South= 2mm
NE	iS	10 14	to East= 1.5mm
E	iPS	10 34	JSA= 53.8° N, 160.5° W
NE	iSS	14 04	
NE	L	19 30	

The following disturbances, while not sufficient to give epicentral distance, are evidently of deep origin:

13	NZ	iP	13 30 36	Compression= 3.5mm to North= 2mm
20	NEZ	iP	20 31 09	Compression= 6mm to South= 1.5mm to East= 1mm

D. Linehan, S. J.
 Seismologist

1937

WESTON, MASS

 No. 5
 contin.

21.55		H	13 11 53	$\Delta = 40^\circ$ from S-P
	NZ	iP	19 57	Dilatation= 8mm
	NEZ	i	20 18	to South= 2.5mm
	NZ	iPP	21 21	USCGS= 2.5N, 78.7° W
	NEZ	iS	26 03	
	EZ	eSS	28 52	
	NE	L	31 41	

23.34		H	08 12 00	$\Delta = 61^\circ$ from S-P
	EZ	iP	22 26	Compression= 2mm
	Z	ePcP	23 19	h= below normal
	NE	eS	30 44	
	EZ	eL	41 40	
	Z	eP'P' ?	52 08	

23.77		H	18 35 13	$\Delta = 56^\circ$ from S-P
	NEZ	iP	44 49	Compression= 2.7mm
	NZ	ipP	45 34	to North= 0.5mm
	Z	isP	46 01	to South= 0.3mm
	N	iPP	47 02	h= ca. 200 km.
	E	eS	52 28	
	NE	L	54 08	

24.03		H	00 40 09	$\Delta = 45^\circ$ from S-P
	NEZ	iP	48 49	Dilatation= 2mm
	Z	i	53 22	to North= 1.3mm
	E	eS	55 25	to West= 1mm
	NE	eSS	58 35	
	NEZ	L	01 02 30	

28.65		H	15 36 00	$\Delta = 29^\circ$ from S-P
	NZ	iP	42 18	Dilatation= 3mm
	N	iPP	43 04	to North= 1mm
	N	eS	47 04	
	NE	L	50 20	

The following disturbances, while not sufficient to give epicentral distance, are evidently of deep origin.

08	Z	i	20 26 43	Dilatation= 4.1mm
13	Z	iP	19 06 57	Dilatation= 1mm
	Z	i	10 11	

Other seismic disturbances

Short Period: 03.67; 03.83; 04.67; 04.74; 05.67; 05.84; 05.86;
 05.93; 06.85; 06.67; 06.80; 06.93; 06.97; 07.78;
 07.88; 07.93; 08.58; 08.59; 08.66; 08.81; 08.84;
 10.63; 10.67; 11.69; 11.72; 11.77; 11.88; 12.56;
 12.60; 12.65; 12.67; 12.70; 12.75; 12.98; 13.67;
 13.90; 14.55; 14.67; 17.04; 17.55; 17.62; 18.67;
 18.88; 19.66; 19.67; 19.85; 20.67; 20.69; 20.70;
 20.88; 21.60; 21.67; 22.56; 22.67; 25.57; 25.67;
 25.74; 26.67; 28.58; 28.63; 28.67; 28.70; 29.60;

Long Period: 05.60; 06.61; 08.85; 12.46; 13.89; 26.23.

 D. Linehan, S.J.
 Seismologist

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

h = 65 meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE Benioff 100k (long and short period) NEZ Bosch-Omori 25k NE

No. 5

1937
May

01.51 H 12 20 47
 NZ iP 33 33
 EZ i 33 40
 NZ ePP 37 23
 NE eS 44 14
 N ePS 44 39
 NEZ L 13 01 30

$\Delta = 85^{\circ}$ from S-P
 Compression= 6mm
 to North= 0.5mm

01.65 H 15 36 00
 NEZ iP 43 10
 Z i 44 04
 EZ i 44 39
 EZ eS 48 36

$\Delta = 34^{\circ}$ from S-P
 Dilatation= 3mm
 to South= ?
 to West= 0.5mm
 h= below normal

04.21 H 05 08 53
 NEZ iP 17 49
 NZ iPcP 19 04
 NE eS 25 09
 N ePS 25 30
 NE L 34 19

$\Delta = 51^{\circ}$ from S-P
 Compression= 10mm
 to South= 2mm
 to East= 1.5mm
 USCGS= 59.5° N, 154° W

07.59 H 14 11 10
 NEZ iP 20 42
 NE iS 28 33
 E ePS 28 51
 NE L 38 30

$\Delta = 56^{\circ}$ from S-P
 Dilatation= 3mm
 to North= trace
 to West= trace

09.62 H 14 46 29
 NZ iP 59 12
 NZ i 59 37
 E eS 15 09 52
 N iPS 10 30
 E eSS 15 32
 NE L 26 20

$\Delta = 87^{\circ}$ from S-P
 Dilatation= 3mm
 to North= 0.5mm

12.11 H 02 44 40
 Z iP' 03 03 54
 Z i 04 05
 Z i 04 23
 Z i 04 37
 NE i 07 22
 NE i 07 59
 Z i 08 18
 NE L 43 00

$\Delta =$ ca. 122° from L-P'
 Dilatation= 8mm
 Δ from travel times for
 normal quakes. This one
 is evidently of deep
 focus. Grams show strong
 phases, but identification
 of these is uncertain.

13.39 H 09 17 44
 NZ iP 25 39
 NEZ iPPP 27 16
 NEZ eS 31 41
 NE e 36 08
 NZ L 37 16

$\Delta = 39^{\circ}$ from S-P
 Compression= 2mm
 to North ?

1937
June

WESTON MASS

No. 6
(contin)

24.83		H	20 00 01	$\Delta = 26^\circ$ from S-P
	WZ	iP	05 56	Dilatation= 2mm
	WZ	i	06 05	to East= 2mm
	E	iPP	06 24	
	Z	i	08 25	
	NE	iS	10 24	
	NEZ	eL	13 00	
28.81		H	19 33 12	$\Delta = 85^\circ$ ca from L-S
	E	eS	56 34	
	NE	eSSS	20 06 02	
	NE	eL	13 40	
	NE	eM	19 40	
30.40		H	09 35 45.7	$\Delta = 88$ km from P-H
	Z	iP	36 00.3	H determined from Harvard records local quake?

The following disturbances, while not sufficient to give epicentral distance, are evidently of deep origin.

08	Z	iP	18 12 55	compression= 3mm
	Z	i	13 39	
	Z	i	16 10	
24	Z	iP	15 06 20	compression= 5mm
	Z	i	06 33	

Other seismic disturbances.

Short Period: 01.62; 01.65; 01.89; 02.61; 02.69; 02.73;
 02.84; 02.85; 03.68; 03.69; 04.70; 04.73;
 04.80; 05.63; 05.66; 05.87; 06.01; 06.09;
 07.56; 07.90; 08.76; 09.62; 10.94; 11.33;
 11.84; 12.66; 12.99; 13.42; 13.73; 14.52;
 14.89; 15.69; 15.80; 16.82; 17.58; 17.90;
 18.75; 21.40; 21.83; 22.71; 23.84; 24.73;
 25.89; 26.84; 28.54; 29.64; 30.67

Long Period: 02.07; 02.90; 05.65; 08.19; 10.65; 14.24;
 14.56; 14.60; 16.83; 18.76; 22.00; 23.31;
 24.16; 28.84; 30.63.

Daniel Linehan, S.J.
Seismologist

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

$h = 65$ meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE

Benioff 100k (long and short period) NEZ

Bosch-Omori 25k NE

 1937
 June

No. 6

08.94	H	22 29 36	$\Delta = 40^{\circ}$ from S-P
NEZ	iP	35 52	Compression= 3mm
NEZ	ipP	36 31	to North= 2mm
NEZ	esP	36 51	to East= 1.5mm
Z	ePP	36 59	$h = 200$ km
N	iS	40 52	JSA= 14.7° N, 92.6° W
NE	isS	42 00	
NEZ	i	42 59	
13.97	H	23 23 54	$\Delta = 37^{\circ}$ from S-P
NEZ	iP	30 49	Compression= 1.5mm
EZ	i	31 21	to East= 0.5mm
NZ	ipP	31 53	$h = \text{ca } 350$ km
E	iS	36 28	Δ is doubtful. Period
E	esS	41 19	of 'P' appears quite
			long for this distance.
21.63	H	15 13 12	$\Delta = 50^{\circ}$ from S-P
Z	eP	22 04	Compression= 22mm
NEZ	iP	22 05	to North= 17mm
N	ipP	22 19	to East= 3.5mm
N	iPcP	23 09	JSA= 8.8° S, 79.9° W
Z	iPP	24 09	P and S groups very
NEZ	iS	29 18	large on NS component.
EZ	iSS	32 53	S has maximum of 70 mm.
NE	eL	37 11	
Z	iP'P'	53 02	
The following two quakes were reported by the JSA Preliminary Bulletin as being ca. 1 ^m 53 ^s apart (cf JSA Bull. #14-1937)			
24.55a	H	13 11 36	$\Delta = 36^{\circ}$ from S-P
NZ	iP	18 39	Compression= 4mm
NEZ	ePP	20 05	to North= 1.5mm
N	eS	24 17	JSA= 8.1° N, 84.2° W
NZ	eSS	26 36	coordinates for both
NE	eL	28 56 (ca)	quakes are same.
24.55b	H	13 13 29	$\Delta = 36^{\circ}$ from S-P
NZ	iP	20 32	Compression= 6mm
NEZ	ePPP	22 03	to North= 2mm
NE	iS	26 11	to East= trace
NEZ	eSSS	28 46	
NEZ	eL	30 56	
24.62	H	14 57 32	$\Delta = 50^{\circ}$ from S-P
NZ	iP	15 06 20	Compression= 4.5mm
Z	i	06 32	to North= 1mm
N	eS	13 39	
N	eSSS	20 00	
NEZ	eL	22 00	

1937
July

WESTON, MASS

No. 7
(contin.)

27.38	NEZ	H	09 10 00.2	$\Delta = 110$ km from S-P Felt in Rockville, Conn. Located by L.D. Leet of Harvard = $41^{\circ}50'N$ $72^{\circ}26'W$
	NEZ	iP	10 18.7	
	NEZ	iS	10 32.2	
29.01	NZ	iP	00 14 34.1	$\Delta = 78$ km using the Harvard tables
	NEZ	iP ₂	14 36.3	
	NEZ	iP ₃	14 37.1	
	NE	iS	14 43.7	
	Z	iM	14 48.6	
31.86		H	20 35 00	$\Delta = 108^{\circ}$ from SS-PP
	Z	ePP	53 53	
	N	iSKS	21 00 22	
	NZ	ePS	02 53	
	N	eSS	09 00	
	NE	eL	26 33	

The following disturbances, while not sufficient to give epicentral distance, are evidently of deep origin:

05	Z	iP	17 18 58	Dilatation = 3mm
09	Z	iP	13 45 52	Compression = 2mm
	Z	i	46 06	
09	Z	iP	21 46 16	Compression = 4.1mm
	Z	i	47 08	
21	Z	iP	06 19 41	Compression = 3mm

Other seismic phases:

Short period: 02.58; 03.83; 04.81; 05.72; 06.35; 06.88;
 07.80; 09.51; 10.58; 11.04; 11.13; 11.30;
 15.80; 16.58; 16.82; 18.70; 20.36; 22.58;
 22.81; 23.61; 24.82; 24.97; 26.52; 27.38;
 28.89; 29.75; 30.01; 30.58; 30.87.

Long period: 01.26; 03.99; 11.59; 16.47; 22.55; 23.32;
 23.69; 23.76; 24.01; 24.69; 26.35; 30.53;
 30.61; 30.76.

D. Linehan, S.J.
 J. P. Shea, S.J.
 Seismologists

1937
July

WESTON, MASS

No. 7
(contin.)

22.71	H	17 09 33	$\Lambda = 46.4^\circ$ from S-P
NEZ	iP	18 00	Compression
N	i	18 02	to South
Z	iPcP	19 13	to East
NEZ	iPP	19.56	SS and G at this distance
NE	iS	24 47	arrive at same time
EZ	iSS (G?)	28 19	amp/2 of P group= 48mm
NE	M	36 00	" " M " = 300mm
			USCGE= 64.6°N, 145.8°W.
22.99	H	23 52 05	$\Lambda = 46^\circ$ ca. from M-P
23	Z iP	00 01 04	aftershock of 22.71
	E e	05 01	
	EZ e	08 05	
	N eSS	11 27	
	NZ eM	19 27	
24.38	H	09 01 22	$\Lambda = 46^\circ$ ca. from PP-P
NZ	iP	10 16	Compression= 2mm
Z	iP ₂	10 21	to South= 0.5mm
Z	iPCP	11 32	aftershock of 22.71
EZ	ePP	12 00	
NE	eSS	20 52	
Z	eL	26 57	
25.48	H	11 29 30	$\Lambda = 43^\circ$ ca. from L-P
NZ	iP	38 40	Compression= trace
Z	iP ₂	38 45	
NZ	eSS	48 45	
NEZ	eL	53 30	
25.55	H	13 12 45	$\Lambda = 49^\circ$ ca from S-P
Z	iP	21 47	Compression= 2.5mm
Z	ePcP	25 11	
L	eS	28 49	
NE	eSS	32 15	
NEZ	eL	36 45	
26.16	H	03 46 44	$\Lambda = 31.1^\circ$ from S-P
NZ	iP	53 30	Compression= 8mm
NEZ	iPP	54 29	to North= 8mm
NEZ	iPPP	54 39	to East= 8mm
NE	iS	58 36	
Z	ePcS	59 57	
NEZ	eL	04 02 30	
26.83	H	19 56 10	$\Lambda = 95^\circ$ from PP-P
Z	iP	20 09 50	USCGE= 40°N, 141°E
NE	i	09 57	
NZ	iPP	10 46	
N	eSKS	20 22	
E	iSKMS	20 53	
E	eS ?	21 24	
NZ	iPS	22 14	
N	ePPS	22 44	
NEZ	eL	42 44	
NEZ	eM	48 56	

1957
July

WESTON, MASS

No. 7
(contin)

14.96	Z	i	23 02 50.5	quake felt in Quebec
	E	i	02 54.5	
	E	i	03 06	
	N	iM	03 09	
15.80	NEZ	iP	19 15 02	Compression= 4mm to North= 1mm to East= 1mm aparently very deep
	NZ	i	15 10	
	Z	i	15 34	
	Z	ipP	15 37	
	Z	i	16 00	
18.05	NEZ	iP	01 11 17	$\Delta = 40^\circ$ ca. from P'P'-P Compression= 14mm to South= 2mm to East= 1.9mm h= uncertain, but below normal.
	E	i	11 21	
	NEZ	i	11 25	
	NZ	ipP	11 32	
	EZ	i	11 47	
	Z	iPcP	12 12	
	NE	eS	18 55	
	E	ePS	19 23	
	Z	eP'P'	43 17	
19.12		H	02 55 53	$\Delta = 117^\circ$ from SS-P'
	Z	e	03 12 47	
	Z	e	13 09	
	Z	eP'	14 54	
	NE	ePP	16 05	
	Z	ePPS ?	26 42	
	NE	eSS	32 12	
	NE	eL	52 00	
19.16		H	03 51 24	$\Delta = 273$ km from Sn-Pn Harvard tables used in determining distance. Located in western end of Long Island, N.Y. from Harvard and Weston.
	NEZ	iP	52 05.3	
	NEZ	iP ₂	52 06.7	
	EZ	i	52 09.5	
	EZ	i	52 13.3	
	EZ	iS	52 37.3	
	NEZ	iS	52 42.5	
19.39		H	09 25 35	$\Delta = 130^\circ$ ca. from SSS-PP
	EZ	ePP	46 55	
	NZ	e	48 14	
	EZ	e	55 57	
	NEZ	eSSS	10 10 00	
	NE	eL	29 30	
19.82		H	19 55 30	$\Delta = 42^\circ$ from S-P Compression= 11mm to North= 3mm to East= trace h= 180 km ca. amp/2 of iP ₂ on Z SP very large= ca. 72mm amp/2 of iSS on E LP large= 49mm USCGS= 0.0°N, 77°W
	NEZ	iP	43 20	
	Z	iP ₂	43 26	
	NEZ	ipP	44 01	
	Z	isP ?	44 29	
	Z	iPcP	44 55	
	NEZ	i	45 45	
	NZ	iS	49 39	
	E	iSS	53 55	
	E	e	55 45	
	E	e	57 11	
	E	e	59 13	

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

$h = 65$ meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE

Benioff 100k (long and short period) NEZ

Bosch-Omori 25k NE

 1937
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01.45		H	11 52 15	$\Delta = 102^{\circ}$ ca. from SS-P Compression = 1.5mm
	Z	eP'	12 11 20	
	NZ	e	11 30	
	N	iPP	12 32	
	E	eSS	29 14	
	NE	L	48 42	
02.11		H	02 39 14	$\Delta = 110^{\circ}$ ca. from L-P'
	Z	eP'	57 44	
	Z	i	03 06 10	
	E	ePS	07 22	
	NE	eSS	14 32	
	E	eSSS	18 22	
	NE	eL	31 08	
04.25		H	05 55 10	$\Delta = 120^{\circ}$ ca. from SS-PP
	Z	ePP	06 16 04	
	NEZ	ePS	25 50	
	N	ePPS	27 10	
	NE	eSS	32 40	
	NE	eL	52 40	
05.04	NZ	iP	01 49 05	Compression = 3.5mm to South = 0.9mm
	Z	iP ₂	49 09	
	Z	iPP ?	49 19	
	E	e	50 19	
	E	eS ?	55 11	
08.54		H	12 50 34	$\Delta = 42^{\circ}$ from S-P Compression = 4mm to North = 1.5mm
	NZ	iP	58 55	
	N	ePP	13 00 32	
	NE	eS	05 10	
	NE	eSSS	08 53	
	NZ	eL	11 29	
09.73	NZ	iP	17 37 07	Compression = 4mm to North = 1mm apparently of deep origin
	NZ	iP ₂	37 09	
	NZ	iPP	39 18	
	NL	i	44 39	
	E	e	50 48	
11.72		H	17 19 30	$\Delta = 18^{\circ}$ from S-P Compression = 10.5mm to North = 2mm to East = 2.2mm JSA = 20.7° N, 108.3° W
	Z	eP	26 47	
	NZ	iP	26 49	
	N	ePP	28 06	
	N	ePcP	28 41	
	NE	iS	32 42	
	N	eSS	35 05	
	NL	eL	37 00	

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(contin.)

20.50		H	11 59 30	$\Delta = 122^\circ$ from PS-P' USCGS = 17° N, 122° E
	Z	eP'	12 18 19	
	Z	ePP	19 49	
	NZ	ePPP	23 22	
	N	eSKKS	26 30	
	N	iPS	29 54	
	Z	ePPS	31 08	
	NEZ	eSS	36 44	
	NZ	eSSS	41 26	
	NZ	eL	57 34	
	NEZ	eM	13 04 54	

24.78	Z	i	18 47 00
	E	e	54 01
	N	i	54 58
	Z	i	56 29
	NE	e	19 02 41
	NE	eL	13 10
	NE	eM	20 00

24.84		H	20 13 02	$\Delta = 40^\circ$ from S-P Compression = 2 mm to North = 1 mm to East = trace
	NZ	iP	21 05	
	NE	ePPP	23 03	
	EZ	eS	27 15	
	NEZ	eSS	30 01	
	NEZ	eL	33 00	
	NEZ	eM	36 10	

25.85		H	20 24 46.1	$\Delta = 170$ km from S_2 - P_2 Compression to South to East Using Harvard Tables
	NEZ	iP ₂	25 13.5	
	NEZ	iP ₁	25 14.5	
	NEZ	iS ₂	25 33.5	

26.81	N	e	19 21 57
	NE	e	27 27
	Z	e	38 35
	E	eL	42 00

31.13	E	c	05 06 50
	Z	eL	28 00
	NE	eM	34 10

Other seismic phases:

Short period: 02.76; 04.84; 04.88; 07.85; 09.65; 09.84;
10.58; 10.62; 10.95; 11.80; 12.52; 15.85;
14.75; 15.75; 16.80; 17.59; 17.68; 17.86;
18.88; 20.58; 20.63; 22.51; 22.52; 25.85;
25.95; 26.02; 28.77; 29.75; 30.59; 30.81;
30.89.

Long period: 01.44; 01.47; 02.66; 04.18; 09.03; 12.03;
15.02; 17.86; 20.29; 22.00; 24.97; 26.81;
27.02; 30.14; 31.62.

D. Linchan, S.J.
J.P. Shea, S.J.
Seismologists

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

h = 65 meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE Benioff 100k (long and short period) NEZ Bosch-Omori 25k NE

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01.46 N i 11 05 41
 Z i 08 13
 NE eL 28 40
 NE eM 37 00

02.66 NZ iP 15 57 54
 E e 16 08 22
 NEZ eL 30 00

Compression = 2 mm

04.88 Z H 21 13 06.6
 Z iP₁ 13 25.3
 Z i 25.5
 Z iS₁ 39.2
 Z iS₂ 40.2

$\Lambda = 113.0$ km from S₁-P₁
 Using Harvard Tables
 Dynamite blast ?

04.99 Z i 23 54 25
 Z i 56 42
 Z i 57 43
 Z i 58 14
 05.00 Z i 00 08 34
 NE e 14 10
 NE eL 34 00

05.62 Z H 14 48 43
 Z eP 15 02 53
 NEZ e 04 24
 E eP' 06 20
 NE e 07 30
 NE ePS 15 01
 NE eSS 22 00

$\Lambda = 115^{\circ}$ from SS-P
 Dilatation = 1.7 mm
 Deep focus ?

11.04 NZ H 00 56 00
 Z iP' 01 14 19
 Z i₂ 14 22
 Z i₃ 14 34
 Z iP' 16 42
 NZ eSKP 16 50
 Z i 17 04
 Z iP' 17 38
 Z IPT 17 45
 Z i 17 51
 N iPKS 18 06
 Z i 18 16
 Z epPP 19 12
 Z i 19 39
 NE eSKS 20 27
 Z ePPP 20 44
 N eSS 34 36
 NE eSSS 40 09

$\Lambda = 140^{\circ}$ ca. from pP'-P'
 H from Batavia readings
 for S-P where h = 600 km
 Dilatation = 6 mm
 to North = 1 mm
 i₂ = 65 mm
 i₃ = 63 mm
 h = 600 km ca.
 UGGI = 7°S, 115.7°E

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(contin)

30.33		H	07 58 14	$\Delta = 685$ km from S-P
	NEZ	iP _n	59 43.0	Dilatation= 2 mm
	NEZ	iP _{n2}	45.3	to North= 1 mm
	EZ	i	59.1	to East= 1 mm
	NEZ	iP ₁	08 00 06.0	(these taken from iP _{n2})
	E	iS _n	00 52.9	Harvard= 47.4°N, 66.3°W
	EZ	iS ₂	01 14.9	Felt in New Brunswick (INS)
30.92	NEZ	iL	22 09 54.5	Reported felt by one person at Verona, New Jersey.

The following disturbances, while not sufficient to give epicentral distance, are evidently of deep origin.

01	Z	iP	22 00 09	Compression= 3 mm
	Z	i	00 23	
	Z	i	00 57	
16	EZ	iP	18 05 50	Compression= 2 mm
	EZ	i	05 51	to East= 1 mm
20	NEZ	iP	07 11 01	Compression= 3 mm
	EZ	e	16 57	to East= trace
				to North= trace
21	Z	iP	09 59 03	

CORRECTION:

For quake of August 20.50 (Bulletin No.8) 1937, 'H' should read 11 59 13. We wish to thank Rev. W. Repetti, S.J., of the Manila Observatory for calling our attention to this error.

Other seismic phases:

Short period: 01.56; 01.68; 01.71; 01.92; 02.92; 03.75;
03.84; 03.85; 05.46; 08.63; 10.01; 14.67;
17.66; 17.67; 19.99; 20.33; 20.75; 21.67;
21.71; 21.88; 21.90; 22.61; 22.67; 23.67;
23.78; 23.80; 24.28.

Long period: 09.23; 10.09; 20.30; 20.35; 20.42; 21.90;
22.17.

Daniel Linchan, S.J.
Seismologist

1937
 September

WESTON MASS.

 No. 9
 (contin)

15.99	H	23 48 52	$\Delta = 34^\circ$ from S-P
NZ	eP	55 26	Compression= 5 mm
NEZ	iP	55 28	USCGS= 14° N, 92° W.
NZ	i	55 55	
Z	iPP	56 34	
16.00	NE	00 00 46	
Z	iG (SS)	02 54	
NEZ	iL	05 13	
NEZ	iM	08 46	
16.95	Z	22 47 44.6	$\Delta = 250$ km (ca) M-S
E	e	47.8	This was reported by
NE	iS	48 03.7	Harvard as being off the
E	i	48 11.6	Gulf of Maine.
NEZ	iM	19.2	It was preceded by another
			shock at 20 32 00
17.38	H	09 30 30	$\Delta = 106^\circ$ from SS-PP
NZ	iPP	49 28	
E	i	56 54	
N	ePS	58 35	
NE	eSS	10 04 17	
EZ	M	30 20	
23.54	H	13 05 55	$\Delta = 129^\circ$ from SKP-P'
Z	eP'	24 59	Dilatation= 5.5 mm
Z	iP'	25 02	JSA= 6.5° S, 153.8° E
Z	i	25 15	
NEZ	iPP	26 55	
Z	iSKP	29 02	
NE	iSKS	32 11	
NE	iSKKS	34 04	
NEZ	iSS	44 36	
NEZ	eSSS	48 38	
NZ	iL	14 04 48	
27.37	H	08 55 00	$\Delta = 149^\circ$ from PP-P'
NZ	eP'	09 14 53	Dilatation= 15 mm
NZ	iP'	14 54	to North= 1.5 mm
NZ	iP' ₂	14 57	P' group very large
NEZ	iP' ₃	15 27	a/2 = 50 mm
NZ	iPP	18 14	
N	iSKKS	25 01	
NEZ	eSS	36 58	
Z	eL	10 05 50	
28.26	H	06 20 20	$\Delta = 33.8^\circ$ from S-P
NEZ	iP	27 30	Dilatation= 8 mm
Z	i	27 59	to South= 2.5 mm
Z	iPPP	28 41	to West= 1.5 mm
NE	iS	32 53	JSA= 14° N. 91.7° W
NZ	iG	33 22	
E	eSS	33 33	
NE	eL	37 06	
NZ	eM	40 10	
28.76	H	18 17 56	$\Delta = 40^\circ$ from S-P
Z	iP	25 55	Dilatation= 2.6 mm
Z	i	26 18	microseisms very large.
E	iS	32 03	
EZ	eM	39 10	

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

$h = 65$ meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE

Benioff 100k (long and short period) NEZ

Bosch-Omeri 25k NE

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01.33	H	08 38 28	$\Delta = 125^{\circ}$ from PP-P'
Z	iP'	57 38	Dilatation= 5 mm
Z	i	57 44	USCGS= 31° S, 179° W
Z	ePP	59 21	
NE	eSKS	09 04 37	
E	eSKKS	06 16	
Z	iPKKP	07 29	
NE	iPPS	10 59	
NE	eSS	16 09	
05.46	H	11 08 15	$\Delta = 450$ km from S_n - P_n
NEZ	e P_n	09 11.0	Harvard Travel Times
Z	i	11.3	Harvard= 41.5° N, 66° W
NEZ	i S_n	10 05.8	near Nova Scotia
Z	i	11.0	
Z	i	20.8	
NE	i S_1	24.0	
08.03	H	00 40 00	$\Delta = 106^{\circ}$ from PS-PP
EZ	eP	54 29	phase at 01 04 22 is
NZ	eP'	58 10	very large on all components
NEZ	iPP	58 45	
N	e	01 04 09	
NEZ	iPPPPP ?	04 22	
N	eSKS	05 05	
EZ	iPS	08 07	
NE	iSS	13 47	
NE	iM	34 45	
09.21	NE	e	05 46 34
Z	e	47 33	
NE	eL	51 57	
EZ	eM	53 42	
10.63	H	15 13 59.5	$\Delta = 138$ km from S_2 - P_2
EZ	i P_2	15 36.4	Harvard Travel Times
E	i P_1 P $_1$	37.4	
EZ	i $2P_1$ P $_1$	38.5	
NZ	i S_2	53.0	
NEZ	iM	16 02.0	
15.52	H	12 27 37	$\Delta = 123^{\circ}$ from PS-P'
Z	iP'	46 25	Dilatation= 1 mm
Z	i	46 48	JSA= 8.3° S, 162° E
Z	iPP	48 04	
E	iPP	48 08	
Z	iSKP	50 04	
NE	eSS	13 05 16	
NEZ	eM	31 00	

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 October

WESTON MASS.

 No. 10
 (contin)

25.98	Z	iP	23 32 45	$\Delta = 90^\circ$ (ca) from L-P
	Z	i	32 58	Dilatation= 4 mm
26.00	Z	eL	00 04 00	

The following disturbances, while not sufficient to give epicentral distance, are evidently of deep origin:

04	Z	iP	12 34 28	Dilatation= 5 mm
	Z	i	35 07	
	Z	i	35 22	
12	Z	eP	16 06 27	Compression= 7.5 mm
	NEZ	iP	06 29	to North= 1 mm
	Z	ipP ?	06 39	to East= 0.5 mm
	E	eL ?	16 24	readings from iP
17	NEZ	iP	10 09 03	Compression= 10 mm
				to South= trace
				to West= trace
27	Z	iP	00 33 04	Compression= 2.5 mm
	Z	i	33 31	
28	Z	eP	09 54 33	
	Z	iP	54 39	
	Z	i	54 47	
29	Z	iP	07 39 21	Compression= 2 mm
	Z	i	39 41	
	Z	i	41 10	
	Z	i	42 36	

Other seismic phases:

Short period: 01.60; 01.82; 01.85; 02.22; 02.93; 03.81;
 04.80; 04.81; 05.76; 05.96; 07.35; 08.80;
 13.61; 15.72; 17.21; 17.42; 19.41; 20.61;
 20.70; 20.72; 22.60; 26.00; 26.43; 26.44;
 26.69; 27.71; 27.79; 28.12; 29.33; 29.73;
 30.89.

Long period: 02.15; 03.87; 04.36; 05.69; 06.92; 07.89;
 20.10; 22.73; 23.75.

 Daniel Linchan, S.J.
 Seismologist

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

h = 65 meters
Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE Benioff 100k (long and short period) NEZ Bosch-Omori 25k NE

1937
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01.80	Z Z	ePP eL	19 37 50 20 16 00	
02.21	Z Z N	e e eL	05 06 47 10 05 22 00	
05.26	Z N NZ	H eP iS M	06 21 17 28 36 34 12 41 32	$\Delta = 35^{\circ}$ fro S-P JSA = 22.5° N, 108.5° W
06.41	NEZ NZ NEZ NEZ NE NEZ E	H iP iP ₂ ipP iPP iS iScP iss	09 47 16 53 53 53 58 54 13 55 13 59 13 59 18 59 50	$\Delta = 34^{\circ}$ from S-P Dilatation = 5 mm to South = 2 mm to West = trace h = 100+ km JSA = 17.7° N, 99.0° W
06.71	Z Z Z E NE E	H cP iP cPP iSKS cPS cSS	17 04 20 23 52 23 56 25 48 31 09 35 48 43 14	$\Delta = 125^{\circ}$ from PS-PP
12.87	Z NZ N NE	H iP ipP iS isS	20 50 45 21 01 40 02 07 10 31 11 21	$\Delta = 69^{\circ}$ from S-P Compression = 10 mm to North = 2.5 mm (readings taken from iP ₂) h = 110 km
17.20	Z N Z N Z	H cP c e eSS eM	04 46 30 05 00 33 11 02 13 13 18 35 41 00	$\Delta = 97^{\circ}$ from SS-P Strasbourg = 35.7° N, 141° E
20.24	Z Z N N Z	H eP i iPP iS eL	05m47 00 54 01 54 06 55 11 59 19 06 03 21	$\Delta = 33^{\circ}$ from S-P
24.48	H		11 36 01	$\Delta = 48^{\circ}$ measured Near Seward, Alaska. USCGS = 62° N, 150° W. Time breaks not working on Weston records, although well recorded quake.

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

$h = 65$ meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE Benioff 100k (long and short period) NEZ Bosch-Omori 25k NE No. 11

1937
November

06.61	H	14 32 54.1	$\Delta = 220$ kms from S-P
NEZ	iP	33 27.5	Joliats Travel Times
NEZ	iS	33 52	
EZ	iL	34 08	
12.61	H	14 44 12	$\Delta = 330$ km from S-P
NEZ	eP	44 59.5	Joliats Travel Times
NE	eS	45 35.7	felt in St. Jerome, Quebec
12.71	H	16 58 01.5	$\Delta = 330$ kms
NEZ	iP	58 49	aftershock of the above
NE	iS	59 24.2	
13.41	H	09 51 00	$\Delta = 120^{\circ}$ (ca) from M-SS
E	eSS	10 27 45	H taken from Wellington
NEZ	eM	56 00	readings
14.47	H	10 58 52	$\Delta = 96^{\circ}$ from S-P
NEZ	iP	11 11 08	Compression= 5 mm
NZ	iPP	12 00	to South= 3 mm
NEZ	iPP	14 56	Strasbourg= 36.5° N, 70.5° E
NE	iSKS	21 20	Destructive in NW India
NE	iS	22 01	$h = 250$ kms
NE	iPS	23 05	
Z	eP'P' diff	37 41	
17.71	N	17 10 51	Felt in central Illinois
NEZ	M	12 01	Basin
28.23	H	05 25 00	$\Delta = 138^{\circ}$ (ca) from PP-P'
NZ	eP'	43 40	
NZ	iPP	46 12	
Z	eSKP	47 44	
Z	eSKKS	53 14	
E	eSS	04 18	
30.54	H	12 57 55	$\Delta = 105^{\circ}$ (ca) from SS-PS
E	ePS	13 24 34	
E	eSS	30 04	
E	eL	43 40	

The following disturbances, while not sufficient to give epicentral distance, are evidently of deep origin:

09	Z	iP	10 34 00	Compression= 1.5 mm
	Z	i	34 19	
25	Z	iP	01 10 53	Compression= 2.5 mm
	Z	i	11 01	

Other seismic phases:

Short period: 01.71; 01.74; 02.71; 04.17; 04.60; 06.61;
 08.71; 10.88; 11.13; 11.76; 12.61; 19.81;
 20.88; 22.71; 23.64; 23.66; 23.68; 23.78;
 23.81; 23.84; 23.85; 26.16; 30.00; 30.66.

Long period: 02.45; 05.41; 10.31; 11.04; 14.79; 15.93;
 18.00; 23.60; 25.23; 26.49; 27.60; 28.05;
 30.05; 30.11.

Daniel Linchan, S.J.
 Seismologist

1937
December

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(contin)

23.97		H	23 21 16	$\Delta = 35^\circ$ from S-P
	Z	iP	28 11	
	Z	iPP ?	29 06	
	NE	eS	33 47	
	NE	eL	41 21	
24.26		H	06 20 38	$\Delta = 53.5^\circ$ from S-P
	Z	oP	29 56	
	Z	iP	29 58	
	Z	i	30 07	
	Z	iPcP	31 11	
	NZ	iPP	32 02	
	Z	i	32 12	
	NE	iS	37 30	
	N	eSS	41 21	
	N	eL	46 19	
28.26		H	06 19 35	$\Delta = 60^\circ$ (ca) from L-S Strasbourg = 1.8° S, 22° W
	Z	iP ?	29 07	
	N	iS	37 00	
	NE	eL	47 00	
30.49		H	11 40 48	$\Delta = 55^\circ$ (ca) from L-P USCGS = 15.5° N, 98° W
	Z	iP	47 51	
	N	eL	12 03 48	
31.74		H	17 41 21	$\Delta = 35^\circ$ from S-P Dilatation = 3 mm to South = 1.5 mm to West = 2 mm felt in Mexico
	NEZ	iP	48 15	
	NE	iS	53 55	
	N	eSS	55 47	
	NE	iG	57 20	
	N	iL	18 02 00	

The following disturbance, while not sufficient to give epicentral distance, is evidently of deep origin:

20	Z	iP	22 55 41	Dilatation = 8 mm
	Z	i	59 44	

Other seismic phases:

Short period: 01.90; 04.99; 06.74; 13.81; 13.84; 13.86;
16.61; 16.65; 16.69; 16.70; 16.79; 24.18;
25.43; 28.15; 30.76.

Long period: 02.72; 02.98; 05.68; 06.23; 06.89; 08.12;
10.59; 12.33; 13.97; 17.42; 18.73; 18.88;
20.16; 25.92; 26.99; 30.44.

Daniel Linchan, S.J.
Seismologist

$\phi = 42^{\circ} 23' 00''$ N
 $\lambda = 71^{\circ} 19' 20''$ W

h = 65 meters
 Gabbrodiorite.

WESTON, MASS.

BULLETIN

of the Weston College Seismological Observatory

Wiechert 80k NE

Benioff 100k (long and short period) NEZ

Bosch-Omori 25k NE

No. 12

 1937
 December

01.38	E EZ E	iS iS ₂ M	09 14 29 14 49 14 55	Local Quake
05.24	Z NE	iP ? oL	05 48 42 06 59 37	Dilatation
08.36	N EZ	eSS oL	09 09 05 21 35	$\Delta = 112^{\circ}$ from L-SS USCGS = 26° N, 119° E microseisms very large
13.79	N E	oPS oL	19 24 11 47 36	$\Delta = 114^{\circ}$ from L-PS Strasbourg = 23° N, 120° E felt in Formosa
16.74	NEZ Z	iP ? i	17 46 44 46 59	$\Delta = 68^{\circ}$ (measured) Compression = 10 mm to South = trace to West = trace Athens = 36.4° N, 21° E
18.55	Z N N EZ	H iP ? oS oSS M	13 17 10 30 57 41 32 48 07 14 08 12	$\Delta = 90^{\circ}$ (ca) from SS-S Strasbourg = 41° N, 72.5° E
22.15	NEZ EZ NEZ N E N NEZ	H oP iP iPP oS iS iG oL	03 37 20 44 43 44 46 46 09 50 39 50 41 55 19 56 30	$\Delta = 38.5^{\circ}$ from S-P Dilatation = 3 mm to South = 1 mm
22.32	Z N N	iP oS oM	07 42 28 48 15 56 30	Aftershock of the above
23.55	NEZ NEZ NZ NEZ NE NE NE NEZ NE	H eP iP i iPP ePcP iS iG oL oM	13 17 56 24 46 24 49 24 59 26 15 27 13 30 15 32 10 34 20 38 50	$\Delta = 34.4^{\circ}$ from S-P Compression = 30 mm to North = 15 mm to East = 17 mm P group very large $a/2 = 65$ mm JSA = 16.6° N, 98.0° W