

$\phi = 42^{\circ} 23' 04.9''$ N
 $\lambda = 71^{\circ} 19' 19.5''$ W

WESTON, MASS.

$h = 60$ meters
Metavolcanics

BULLETIN of Weston Observatory



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

PRELIMINARY BULLETIN

January 1960

No. 265

✓ 09	iP	07 36 57	Compression	
✓ 11	iP	23 06 49	Compression	
✓ 13	iP	15 50 12	Dilatation	57°
	iS	58 11		
✓ 13	iP	16 40 43	Dilatation	
✓ 15	iP	09 40 00	Compression	57°
	iS	47 56		
2 16	iP	20 58 03	Dilatation	
3 17	iP	03 07 34	Compression	
2 18	iP	19 37 00	Dilatation	38°
	iS	42 39		
✓ 19	iP	02 28 48	Dilatation	76°
	iS	38 33		
✓ 20	iP	20 11 07		
✓ 23	iP'	05 00 24		
✓ 23	iP'	07 50 51		
✓ 23	iP'	18 16 05		
✓ 24	L	05 16 00		

Rev. R. A. Haus, S.J.

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of Weston Observatory

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

PRELIMINARY BULLETIN

February 1960

No. 266

04	eP	04 07 58
	eQ	44 40
10	eP'	00 15 14
	ePP	17 53
	eSS	37 11
24	iP	21 56 09
	eSS	32 09
26	iP	23 40 21
29	iP	23 49 15

Rev. D. Linehan, S.J.

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

PRELIMINARY BULLETIN

March 1960

No. 267

08	iP'	16 52 09	Dilatation	107°
	ePP	53 46	times somewhat	
	ePS	17 03 18	uncertain due to	
	eSS	10 18	change of clocks	
09 10	iP	00 04 10	Dilatation	
12	iP ₁	12 52 31		670 km
	iS ₁	53 36		
15	iP	09 31 44	Dilatation	
20	eP	17 20 42	Dilatation eP	88°
	iP	20 49	Compression iP	
	eSKS	31 24		
	iS	31 40		
23	eP	00 36 41		
	iP	36 55	Compression iP	91°
	iS	47 48		
27	iP	20 22 50	Compression	
28	iP	00 20 43	Compression	38°
	iS	26 29		
29	eP'	06 49 54		121°
	iP'	49 57		
	eS	07 00 22		
31	iP	20 03 22	Dilatation	

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of Weston Observatory

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

PRELIMINARY BULLETIN

April 1960			No. 268	
- 13	iP	12 44 11	Mexico	32.5°
	eS	49 28		
	eS	49 38		
- 15	eS	03 47 48		
	eSS	53 00	Easter Islands	
- 15	iP	11 51 59	Japan	
- 15	eP	22 24 09	New Hebrides	
20	iP	15 38 15		
20	iP	18 23 11	Canada	210 miles
	iS	23 53		
- 21	eP	02 26 16		
23	iP ₁	11 49 30		345 miles
	iS ₃	50 28		
	iS ₂	50 34		
	iS ₁	50 39		
- 24	eP'	03 40 55		
	iP'	40 57	Java Sea	145°
- 28	iP	00 59 29	Fiji Islands	
28	iP ₁	18 44 29	Canada	235 miles
	iS	45 13		
	iS ₁	45 16		

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

PRELIMINARY BULLETIN

May 1960

No. 269

05	iP	11 37 51	Kamchatka	
06	iP	18 59 04	Kamchatka	
08	iP	14 41 49	Kurile Islands	
12	eP	22 39 34		
	iP	39 35		
	eS	45 14	Panama	37°
13	iP	16 16 58	West Alaska	
14	iP	22 31 38	Kamchatka	
18	eP	06 49 12		
	ePP	53 28		104°
	ePS	07 03 10		
19	ePP	10 34 10	Mascarene Is.	143° (ca)
	eSS	53 10		
20	eP'	11 31 46	Norfolk Is.	134°
	iP'	31 48		
	ePP	34 04		
	ePKS	35 12		
21	iP	10 15 02	Chile	78°
	iS	25 07		
21	iP	12 18 25		
21	iP	13 12 09		
	i	12 21		
22	iP	10 42 49	Chile	79°
	iS	52 54		
22	iP	10 44 53	Chile	79°
	iS	54 59		
22	iP	12 23 58		
22	iP	19 08 11	Chile	79°
	iP	08 12		
	iS	18 16		
22	eP	19 22 51	Rest of phases lost in previous	
	iP	22 58	quake	
22	iP	19 23 27 ?	Uncertain due to previous quake	
	iP	23 36 ?		

May 1960 (Cont.)

22	iP	22 20 19	
22	iP	22 26 20	
22	iP	22 26 41	
23	eP	00 37 55	
	iP	37 59	
23	iP	01 03 24	
23	iP	01 06 17	
23	iP	01 47 12	
23	iP	05 26 49	
23	eP	10 04 28	
24	eP	15 06 12	New Zealand
	ePP	09 02	
	ePKS	09 50	
	eSKKS	15 44	
25	eP	08 47 22	Chile
	iP	47 26	
	eS	58 06	
26	iP	05 20 58	Albania-Greece
	eSS	34 00	
27	eP	23 19 43	
28	iP	03 18 13	
28	eP	11 17 50	
29	iP	07 51 40	Chile
	i	51 54	
	iS	08 01 40	
	e	01 52	
29	iP	08 46 32	
	i	46 41	
29	iP	14 17 33	
	i	17 47	
29	iP	21 36 34	
29	eP	21 50 52	
31	iP	02 52 22	
31	iP	11 07 52	Leeward Is.
	eS	12 20	
	iS	12 24	
	eT	31 45	
31	iP (?)	21 19 11	

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WESTON, MASS.
BULLETIN
of Weston Observatory

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

PRELIMINARY BULLETIN

June 1960

No. 270

01	iP	05 15 07	Compression	
02	eP	05 14 51		
02	iP	06 10 57	Dilatation	
	eS	21 40		
02	iP'	08 06 21	Dilatation	
02	iP	08 48 33	Other phases lost in previous quake	
04	iP	02 34 08	Compression	
04	eP	03 15 06		
06	eP	01 24 25		
	eS ?	31 26		
06	iP	06 08 35	Dilatation	
	iP	08 41	Compression	
	iS	19 21		
08	iP	16 25 50	Dilatation	
	i	25 55		
09	ePP	11 44 41		
09	iP	17 54 30		
11	iP	00 44 52		
11	ePP	15 35 30		
	ePKS	37 04		
	eSSS	58 20		
11	ePP	16 59 00		
	ePKS	17 00 25		
12	iP	07 32 06	Dilatation	83°
	eS	42 20		
	G	53 50		
13	iP	05 59 53		
	eS	06 10 34		
15	eP	15 50 02		
	i	50 13		
17	eP	16 46 04		
	iP	46 14	Dilatation	64°
	eS	54 50		

June 1960 (Cont.)

18	eP	03 29 04		
20	eP	02 13 21	Compression	80°
	iS	23 28		
20	iP	13 11 59	Compression	80°
	iS	22 10		
22	iP	23 39 28	Dilatation	
25	iP	14 00 41	Compression	
25	iP	19 46 33		
26	iP	17 08 20		
29	iP	01 30 20		
29	eP	02 09 47		
29	eP	09 57 12		
29	iP	10 29 24		
29	iP	17 17 15	Dilatation	
30	eP	20 07 23	Dilatation	
	iP	07 24	Compression	

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

PRELIMINARY BULLETIN

July 1960

No. 271

01	iP	00 01 10	
01	eP	08 10 19	
02	eP	04 40 10	
03	eP	03 29 57	
03	iP	20 31 42	Dilatation
	eS	40 38	
03	eP	23 03 23	
04	eP	04 36 17	42°
	eS	42 30	
	eSS	45 12	
04	eP	13 19 15	
07	eP	11 50 00	
07	eP	15 53 14	
10	eP'	00 24 44	138°
	ePP	27 20	
	eSS	45 26	
10	eP	13 46 21	
11	iP	12 04 58	
13	iP ?	16 30 52	
14	iP <i>kp</i>	10 46 13	
18	eP <i>kp</i>	02 02 16	
20	iP	09 42 42	
20	iP <i>kp</i>	21 18 08	
	eSS ?	37 00	
24	iP	10 00 17	
	eSS	14 10	
25	iP	03 52 34	Compression
	eS	04 01 50	

July 1960 (Cont.)

<u>25</u>	iP	11 23 35	Compression	77°
	ipP	24 10		
	iS	33 02		
	isS	34 00		
	eP'P'	50 55		
<u>27</u>	iP	10 17 40		
	eS	28 02		
<u>29</u>	eP	00 43 11		
<u>29</u>	eP	17 44 47	Compression eP	90°
	iP	44 50	Dilatation	
	iS	55 44		
<u>31</u>	eP'	03 17 04		
	ePP	18 12		
	e	29 54		
	eSS	35 20		

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

PRELIMINARY BULLETIN

August 1960

No. 272

<u>02</u>	iP ^o ?	05 26 25		
	i	28 00		
	e	36 40		
	eG	59 20		
<u>02</u>	iP	06 25 41		
	i	26 10		
02	e	10 25 25		
	e	33 40		
<u>02</u>	e	14 03 40		
	eSS	06 12		
	eR	13 00		
02	eR	21 18 00		
<u>04</u>	iP	07 45 51		69 ^o
	iP	45 57		
	eS	54 48		
	eSS	59 30		
04	iP	09 19 32		
<u>05</u>	i	22 38 38		
	eR	59 18		
<u>09</u>	iP	07 47 10	Eureka, Cal.	46 ^o
	iS	53 24		
	iSS	56 22		
10	iP	12 45 40	Dil. So., West-	
<u>11</u>	iP	02 47 32	Dil	
<u>11</u>	iP	05 09 30	Dil, North	
	i	11 25		
<u>13</u>	eP	07 24 11	Dil, North	
	iP	24 12		
	ipP	24 26		
	eS	35 06		
<u>13</u>	iP	14 27 14.5	Dil, South	
	i	27 26	Chile	
	eS	37 30		
<u>14</u>	iP	04 13 22	Comp.	
<u>14</u>	iP	22 56 31.5	Dil	

August 1960 (Cont.)

<u>15</u>	iP	06 08 25
<u>15</u>	e	15 10
15	Q	08 05 40
<u>16</u>	iP	02 57 05
<u>17</u>	eP ?	09 46 08
<u>17</u>	eP ?	11 36 33
<u>18</u>	eP	20 59 46
	i	59 51
18	Q	23 45 00
<u>20</u>	eP	00 25 57
	Q	36 00
<u>20</u>	e	20 23 46
	e	32 30
	e	34 35
	Q	51 00
21	Q	18 20 00
<u>23</u>	eP	14 18 09
	eS	26 08
	Q	35 00
<u>23</u>	e	23 19 55
	e	29 30
	G	36 30
<u>24</u>	iP	01 55 35
	R	02 24 00
24	Q	06 50 00
<u>25</u>	iP	17 52 18
	i	52 31
	e	18 13 56
	Q	19 00
<u>26</u>	iP	18 46 11
<u>28</u>	eP	06 12 46
	eS	18 52
	eSS	21 40
<u>30</u>	eP	06 56 53
	e	07 06 25
	G	22 00
31	Q	07 59 45

Dil Noth

60°

41°

Errata in Bulletin of May 1960

21	iP	12 18 25	should read	21	iP	12 33 25
21	iP	13 13 09	should read	21	iP	13 12 09
	i	13 21	" "		i	12 21
29	iP	21 35 34	" "	29	iP	21 36 34
29	eP	21 50 52	" "	29	eP	21 51 52

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

PRELIMINARY BULLETIN

1960
September

No. 273

01	iP e	06 06 50 07 14	Dilatation	35°
01	Q	08 36 30		
01	Q	10 26 00		
01	Q	11 35 00		
01	iP eS eScS eSS	15 46 27 53 50 56 14 57 40	Compression to Northeast	55°
02	e R	20 37 38 58 00		
02	eP?	21 45 14		
02	eP ePcP eS eP'P'	22 13 16 13 40 21 45 42 25	Dilatation to Northwest	63°
03	eP	00 32 14	Japan	88°
03	iP i i	12 59 48 13 01 43 02 30	Solomon Is	
03 04	iP e	23 59 06 00 09 36	Dilatation to Northwest	
04	eP	05 30 27		
05	eS ₁	02 26 57		Local
06	iP	15 37 37	Dilatation to North Japan	
06	eS ₃ eS ₁	21 37 04 37 29		Local
07	iP e e	01 30 57 42 16 43 24		96°
07	eP	11 57 34	Dilatation Kurile Is	87°

September 1960 (Cont.)

08	iP'	11 26 47	Dilatation	130°
	i	27 13	Mindanao	
	iPKS	30 03		
08	iP	14 43 46.8	Compression to	77°
			Southeast	
09	Q	16 41 42		
09	R	17 28 00		
10	iP	00 30 41	Compression	
10	eP	11 03 03		
	i	05 34		
	e	22 25		
12 to 14 Power failure due to Hurricane "Donna". Part of the time on emergency power. Time marks uncertain.				
14	eP	01 58 40	Dominican Repub.	24°
	eS	02 02 34	Times may be incorrect. On emergency power.	
	eT	17 54		
	iT	18 52		
17	iP	08 04 58.5	Kurile Is	79°
	e	20 40		
17	iP	08 17 38.5	Kurile Is	80°
	i	18 02	Compression to	
			Southeast.	
17	Q	20 25 00		
18	iP	19 36 53	Compression	
19	iP	19 08 24	Dilatation to	
	iPP	09 45	Southwest	
	ePPP	09 50		
	ePcP	10 28		
	eS	14 02		
22	Q	06 26 00		
22	G	09 48 00		
	R	10 10 01		
22	iP	22 57 23	Compression	
23	eP	00 26 03		
24	R	00 03 00		
26	iP	00 43 18	Dilatation	
26	iP	15 24 00		
	i	24 15		
26	eP	16 52 54		
29	iP	06 37 53	Compression to North	

September 1960 (Cont.)

29	iP	11 36 40	Dilatation
<u> </u>	i	37 22	
	e	39 34	
	e	44 03	

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

PRELIMINARY BULLETIN

1960
October

No. 274

<u>01</u>	eP i	05 57 01 57 20	Compression	
<u>01</u>	eP iP i eS	16 21 26 21 30 21 41 30 20	Dilatation Northwest Aleutians	
06	eQ	20 09 00		
<u>07</u>	iP' iPP i iPPS? R	15 37 53 41 43 41 54 53 20 16 28 00	Banda Sea	143°
<u>08</u>	eP e Q	01 58 32 58 34 02 13 30	Mexico	
<u>08</u>	iP i i	06 05 29 07 47 15 03	Sea of Japan 600 km	
<u>09</u>	iP eS G	09 13 39 24 34 40 00	Japan Dilatation	97°
10	iP	22 04 25	Compression	
11	iS	08 19 52	Colorado	
<u>13</u>	eP iP ePcP eS eSS	15 04 05 04 07.5 04 18 13 30 18 20	Kamchatka Compression Southeast	78°
14	eS	13 34 04		
<u>14</u>	iP	18 00 41	Chile	
<u>14</u>	eP iP iS iScS eSS G P'P'	21 29 42 29 44.5 38 18 39 38 42 40 47 50 58 41	Aleutians Compression Southeast	62°

October, 1960 (Cont.)

14 eP 23 01 22

16 eP 09 41 14
G 51 50
R 55 00

16 iP 16 03 27

16 iP 19 07 58

~~17~~ iP 15 52 50
eS 58 40

Columbia 38°
Dilatation South

~~17~~ iP 22 22 03
Q 58 00

18 iP 00 32 11

21 eP 07 22 42.8
iP₁ 22 44.8
iS₁ 23 06.5

Compression 118 mi.
Southwest

~~22~~ eP 08 40 50

~~23~~ eP 06 38 02

~~28~~ iP 04 26 32
eS 29 54
e 30 00

Dilatation North

~~28~~ eP 13 29 59
iP 30 01.5
ipP 30 26
isP 30 43
iS 39 36
i 40 04
i 40 22

Compression South

~~30~~ iP 21 43 26
i 43 52

Dilatation South

Rev. Daniel Linehan, S.J.
Director

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

PRELIMINARY BULLETIN

1960
November
No. 275

<u>01</u>	iP	08 58 09	Dilatation to South	79°
	ePP	09 01 14	Coast of Chile	
	iS	08 17		
	ePS	08 38		
	eSS	13 20		
<u>02</u>	eSS	17 52 40		
	eG	18 05 00		
<u>05</u>	eP	20 31 38	Coast of Greece	
	iP	31 41		
<u>06</u>	iP	04 50 00	Dilatation to Northwest Kamchatka	
<u>06</u>	iP	22 20 21	Compression to Southeast	
	Q	42 00		
<u>09</u>	eP	03 27 38	Sandwich Islands	110°
	ePPS	43 09		
	eSS	46 22		
	G	04 05 00		
<u>09</u>	eP	20 16 57	Chile	66°
	eS	25 42		
	G	33 10		
<u>10</u>	iP'	15 04 02	New Guinea	140°
	ePP	07 28	Compression	
	ePKS	07 48		
	eSS	25 30		
	G	42 30		
<u>13</u>	iP	06 56 18	Molucca	
<u>13</u>	iP	09 30 56	Compression Southeast	62°
	ePP	33 10	Fox Islands-Aleutians	
	ePPP	34 53		
	eS	39 24		
	eP'P'	10 00 05		
13	iP	10 43 23	Compression	
13	iP	12 36 01	Dilatation	
		4	Fox Islands	
13	iP	13 34 50	Fox Islands	

November 1960 (Cont.)

13	iP	13 38 29		
13	iP	14 02 50	Fox Islands	
13	iP	17 29 33		
15	eP	02 23 40		
	eP	23 50		
	eS	27 50		
20	iP	22 10 48	Compression to North	50°
	eS	17 56	Peru Coast	
22	iP	12 41 14	Dilatation	
23	ePS	14 42 10		
	eSS	48 30		
	eG	59 12		
24	iP	07 12 37	Compression	
	eSKS	22 10		
	eSS	28 50		
	G	39 30		

D. Linehan, S.J.
Director

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BULLETIN

of Weston Observatory

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

No. 277

1960
December

<u>01</u>	eS	20 59 00	Vancouver Island	
	e	21 03 02		
	Q	09 00		
01	Q	22 10 00	Vancouver Island	
02	eP	09 21 32	Compression to South	
<u> </u>	iP	21 38		
	i	22 00		
	i	30 26		
	R	47 00		
<u>02</u>	iP	09 48 27.5	Compression to North Other phases lost in previous disturbance	
<u>03</u>	iP	04 37 39	Outer Mongolia	98°
	ipP	37 44	Compression	
	eS	50 15		
	eSS	55 20		
	G	05 09 00		
<u>03</u>	iP	07 18 22	Andreof Islands	
	i	19 08		
<u>03</u>	eP ?	20 31 11		
	eSS	44 00		
	R	56 00		
<u>06</u>	eP	09 03 06		
<u>06</u>	iP	09 06 41	Compression to N-Northwest	
	ipP	06 53		
	G	58 00		
<u>15</u>	eP'	00 10 41		135°
	ePP	12 57		
	rPKS	14 00		
	eSS	30 29		
	Q	54 20		
16	iP	01 30 33		
18	eS ₁	08 15 48	Local-Eastern Canada?	
<u>21</u>	iP	14 48 41.5	Dilatation from Northwest	
26	R	01 57 00		

27	iP	10 42 58	Dilatation from west	40°
	eS	59 00		
29	eP	10 49 22		94°
	i	49 30		
	eS	11 00 06		
	Q	27 00		
29	iP	19 11 53	Dilatation from South	
30	iP	05 49 09		
31	iP	16 25 11		
31	eP	18 20 48		
	i	20 56		
	eS	31 30		

Rev. Daniel Linehan, S.J.