

12 JAN 1960
RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
January 7, 1960

63

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)
Jan. 2

Revised Interpretation from
air-letter dated July 10,
1959.
July 6

iP! 09 21 33
Compression from
southeast
ipP 09 23 47
isP 24 50
isPP 27 51
iS 30 50
iSP 31 48
iG 43.3
eP'P' 48 15
e(SKPP') 50 46
Distance 82°
Depth 640 km
Magnitude 6½ - 6¾

	mu	sec
PZ	6	4
PH	2	2¼
SH	2¼	4

July 6
iP! 09 34 43
Compression from
southeast
i 09 34 56
ipP 36 55
ipPP 39 54
iPPP 40 09
iS 43 56
iScS 44 14
iSP 59
iSSS 52.9
iG 56.3
eP'P' 10 01 23
eSKPP' 03 43
Distance 82°
Depth 640 km
Magnitude 6¾

	mu	sec
PZ	3½	1½
PH	2	2¼
SH	5	3

Continuation:
Jan. 1
2
2

1960
iP 23 22 17
iP 02 02 28
iP 03 32 42
Dilatation
ipP 03 33 18
isP 33
eS 41.6
esS 42.6
Distance 70°
Depth 150 km
Magnitude 6¼

2	PZ	0.3	1
	PH	0.2	1
	eP	05 28 18	
	eL	06 01.6	
2	iP	07 09 20	
	iPcP		51
	eS		17 14
	eSS		21 10
	eG		23.7
	eR		26.3
	Distance	60°	

2	PZ	0.2	1½
	MH	¼	20
	MZ	¼	20
2	e	11 50 02	
2	eP	12 41 24	
	eP'		44 42
	eS		53.6
	eSS	13 01 04	
	eSSS		06.1
	eG		12.6
	eR		16.1
	Distance	115°	

Interpretation doubtful

	MH	¾	20
	MZ	1	20
	iP	21 36 10	
	i		20
3	eP	07 00 53	
	i		01 02
	i		23
3	iP	11 45 22	
	i		30
	i(S)		53 42
3	iP	21 31 08	
	eS		40 42
	eScS		41 38
	eG		49.6
	eR		51.9
	Distance	73°	

4	iP	15 15 14
5	iP	09 43 32
6	e	13 23 32
7	iP	11 02 45

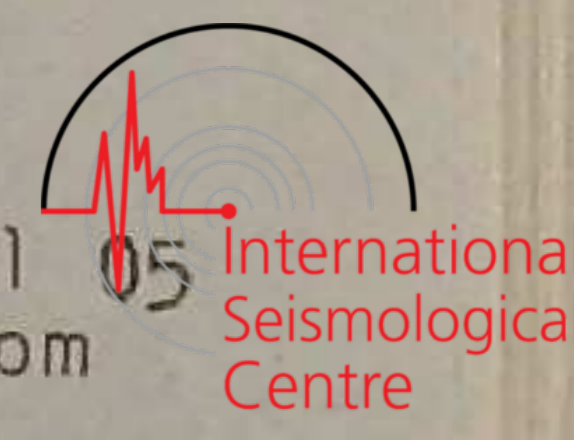
Violet M. Taylor
Seismological Assistant

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British Geological Survey (BGS)

46/11



PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Continuation:
Jan. (7)

Jan. (13)

	eP'	13	46	47	
	i		47	04	
	iPP'		48	17	
	eSKS		53	54	
	ePS		58	08	
	eSS	14	04.6		
	eG		17.6		
	e(R)		24.8		
	Distance	120°			
	Magnitude	6 $\frac{1}{4}$ - 6 $\frac{1}{2}$			
		mu	sec		
	PPZ	0.15	2		
	MH	3 $\frac{1}{2}$	20		
	MZ	1 $\frac{3}{4}$	20		
7	eP	14	05	06	
8	iP	02	53	55	
	e		54	39	
8	eP	07	55	41	
	e		56	35	
	eS	08	05	10	
	eScS			58	
	eSS		09.9		
	eG		14.2		
	eR		16.6		
	Distance	75°			
8	eP'	11	48	07	
	ePP		49	27	
	eSS	12	05	30	
	eG		19.0		
	eR		24.4		
	Distance	120°			
8	eP'	15	04	24	
	ePP		06	00	
	ePS		15	58	
	eSS		22.9		
	eR		42.5		
	Distance	115°?			
8	e(P)	22	02	37	
9	iP	04	57	25	
9	eP'	07	41	11	
	iPP		42	21	
	eSKS		48	26	
	eS		50	22	
	ePS		51	48	
	e		53.0		
	eR	08	17.0		
	Distance	120°?			
	Deep?				
9	iP	07	53	15	
9	iP	08	00	43	
11	iP	15	12	34	

	iP! 2	15	51	05	
	Dilatation from				
	southeast				
	i	15	51	25	
	ipP			51	
	iPP'			53.6	
	i			55.6	
	iS'			59	54
	iScS	16	00	27	
	eG			09.1	
	iR			12.6	
	eP! P!?			19	48
	Distance	70°			
	Depth	170 km?			
	Magnitude:	m=7.5, M=8			
		mu	sec		
	PZ	18	3		
	PH	16	5		
	PPZ	15	15		
	SH	175	20		
	iP	16	38	17	
	i	21	01	23	
	i		02	29	
	eL		05.0		
	iP	10	37	55	
	Dilatation				
	i	10	38	25	
	eS		47.7		
	eG		58.6		
	eR	11	02.1		
	Distance	80°			
(15)	iP 2	09	40	46	
	Compression from				
	southeast				
	ipP	09	41	21	
	i		43	02	
	iS'		49	24	
	iSS		53.5		
	eR	10	01.3		
	eP! P!		09	45	
	Distance	67°			
	Depth	150 km?			
	Magnitude	7			
		mu	sec		
	PZ	6 $\frac{1}{2}$	5		
	PH	9	5		
	SH	15	9		
	MH	35	20		

WIDE AREA TELETYPE UNIT
RICHMOND, SURREY
JAN 15 1960
JAN 15 1960
JAN 15 1960

Violet M. Taylor
Seismological Assistant

**KEW
OBSERVATORY**

25 JAN 1960

**RICHMOND,
SURREY.**

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
January 22, 1960

**PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)**

63 ✓



International
Seismological
Centre

Continuation:

Jan. 16	iP	12 42 04	
	eS	51 21	
16	e(P)	20 27 37	
16	iP	20 56 16	
	i	46	
	i	58 43	
16	iP	21 02 19	
16	iP	21 54 38	
(17)	e	51	
	iP ²	03 08 17	
	ipP	52	
	eS	16 55	
	eSS	21.3	
1	eG	25.1	
	eR	28.4	
	Distance	69°	
	Depth	150 km	
	Magnitude	6 1/4	
		mu	sec
	PZ	0.5	2
	PH	0.1	1
18	iP	01 24 01	
	i	19	
18	ePP	09 23 55	
	eSKS	30 19	
	ePS	33.4	
	ePPS	34.2	
	eSS	38.6	
	eG	49.6	
	eR	54.9	
	Distance	108°	
18	eP	19 38 32	
	eS	45 13	
	eG	48.5	
	eR	53.6	
	Distance	45°	
(19)	iP ²	02 27 03	
	eS	35 15	
	eG	42.1	
5	eR	44.6	
	Distance	60°	
	Magnitude	6 1/4 - 6 1/2	
		mu	sec
	PZ	0.4	1
	PH	0.1	1
(19)	iP ¹	08 55 53	
	eS	09 00.5	
	eG	01.8	
5	eR	03.1	
	Distance	27°	
		mu	sec
	PZ	0.1	1
	MH	1	20

Jan. (19)	iP ²	09 26 31	
	e(pP)	28 55	
	iS or SKS	36 07	
	eG	48.3	
	No short-period surface waves.		
	Distance 80°?		
	Magnitude 6		
	Very deep?		
		mu	sec
	PZ	0.2	1
	PH	0.1	1
	SH	2	10
19	iP	16 23 02	
20	iP	03 26 50.4	
	i(S)	27 40.9	
	Magnitude 5±		
20	iP	03 01 07	
21	eP	10 54 33	
	i	42	
	i	56	
	eS	11 04 27	
	e	59	
	eG	14.0	
	eR	17.2	
	Distance	78°	

ENCLAVE
 RICHMOND - BOWEN
 KEW OBSERVATORY
 SURREY

INTERNATIONAL SEISMOLOGICAL CENTRE
 220 NORTH SAN RAFAEL AVENUE
 PASADENA 2, CALIFORNIA
 U.S.A.

Violet M. Taylor
Seismological Assistant

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 January 26, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Continuation:

Jan. 23
 ePP1 04 59 37
 eSKS 05 05 44
 e(S) 08 10
 ePS 10.1
 e 11.5
 eSS 16.2
 eSSS 20.1
 eG 26.8
 eR 32.3
 Distance 118⁰
 Magnitude 6 $\frac{1}{2}$

mu sec

PPZ .04 1

MH 7 20

MZ 7 20

23 iP 06 35 17

23 eP 07 46 02

Part of following?

23 eP1 07 49 56

iPP1 50 42

eSKS 56 40

eS 58 16

ePS 08 00 16

eSS 06.3

eSSS 10.6

eG 17.3

eR 24.9

2 Distance 112⁰

Magnitude 6 $\frac{3}{4}$

mu sec

PPZ 0.2 1 $\frac{1}{2}$

MH 14 20

MZ 9 20

23 eP1 18 15 15

ePP1 16 23

e 18 30

eSKS 22 08

eS 23 40

12 ePS 25 35

eSS 32.0

eSSS 35.8

iG 42.6

eR 47.7

2 Distance 115⁰

Magnitude 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$

mu sec

PPZ 0.2 1 $\frac{1}{2}$

MH 10 $\frac{1}{2}$ 20

MZ 7 20

23 eP 18 31 06

23 iP 22 10 26

Jan. 24 iP 00 42 23
 i 34
 i 40
 24 iP2 04 33 39
 iS1 43 28
 10 eScS 44 10
 eSS 48 10
 eSSS 51.7
 iG 53.4
 eR 56.2

2 Distance 76⁰

Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$

mu sec

PZ 0.2 1 $\frac{1}{2}$

PH 0.1 1

SH 2 $\frac{1}{2}$ 12

MH 14 20

MZ 10 $\frac{1}{2}$ 20

24 iP 09 29 11

25 eP 08 56 25

i 43

eS 09 04 46

eG 11.7

eR 14.8

Distance 65⁰

25 iP2 16 41 26

e 42 24

iS 51 16

iScS 52

eSS 56.1

10 iG 17 01.1

eR 04.2

2 Distance 77⁰

Magnitude 6 $\frac{1}{4}$

mu sec

PZ 0.15 1

PH 0.05 1

MH 7 20

MZ 3 $\frac{1}{2}$ 20

Violet M. Taylor
 Seismological Assistant

KEW
 OBSERVATORY
 - 1 FEB 1960
 RICHMOND,
 SURREY.

KEW
OBSERVATORY
-8 FEB 1960
RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
February 5, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Additional:
Jan. 20

China Lake
iP! 03 26 44.6
King Ranch
iP! 03 26 27.0
Barrett
iP 03 27 17.3
iS 28 42.6
Isabella
iP 03 26 36.0
Tinemaha
iP 03 26 37.1
iS 27 13.1
Ft. Tejon
iP 03 26 36.3
Riverside
iP 03 26 58.6

Continuation:
Jan. 26

iP 18 29 18
27 iP 22 34 01
i 17
29 eP 03 40 18
29 e(P) 08 05 49
e 08 46
29 eP 22 59 54
30 eP 02 57 34
30 iP 04 57 47
30 iP 15 39 57
30 eP 18 08 41
30 iP 18 50 49
e(S) 19 02 10
eSS 06 52
eG 12.9
eR 17.0
Distance 85°?
31 iP 03 47 19
31 eP 04 15 29
e 16 25
31 eP 05 20 52
e 21 30
iS 31 16
iSS 36.9
iSSS 40.4
eG 42.9
eR 47.2
Distance 82°
31 eP 19 18 50
i 19 07
Feb. 1 iP 02 11 59
i 12 08
e 14 40
e 15 02

Feb. 1 eP 02 53 45
1 iP 14 06 16
i 23
3 iP 11 33 08
eG 35.7
eR 38.7
Distance 15°
4 eP² 03 59 39
i 53
iP 04 00 13
iSP 27
iPP² 03 00
i 51
17 iS or SKS 09 57
iPS 11.7
iSS 16.2
isSS 17.3
iSSS 20.2
iG 24.0
iR 28.1
Distance 86°
Depth 150 km?
Magnitude 6½ - 6¾
mu sec
PZ 1 2
PH 0.2 1
PPZ 1 2
PPH 0.2 1½
MH 45 44
MZ 22¾ 20
4 eP? 09 40 51
eSKS 51 01
eS 13
eG 10 04.7
eR 08.9
Distance 88°

We have sustained a
great loss in the
death of our dear
colleague and former
director, Dr. Beno
Gutenberg, on January
25, 1960.

Violet M. Taylor
Seismological Assistant

KEW
OBSERVATORY
22 FEB 1960
RICHMOND,
SURREY.

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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
February 19, 1960
PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Continuation:
Feb. 4

	eP	17	02	19
	eS		11	57
	e		12.7	
	eSS		16.9	
	eSSS		20.4	
	eG		21.8	
	eR		24.7	
	Distance	76°		
4	iP	20	49	19
4	eP	21	09	41
5	eP	02	13	54
5	e	05	53	21
	e(S)	06	02	29
6	iP	17	33	50
7	eP	03	26	41
7	iP	10	25	24
	e		26	08
	i		28	02
7	iP	11	28	23
	i			35
	eS		37	53
	eG		46.7	
	eR		49.7	
	Distance	75°		
8	ePPI	13	03	49
	eSKS		10	11
	eS		11.6	
	iPS		12.9	
	iSS		18.4	
	eSSS		22.7	
	eG		29.0	
	eR		34.0	
	Distance	108°		
	Magnitude	6 $\frac{3}{4}$		
		mu		sec
	PPZ	0.8		5
	MH	12		20
	MZ	10		20
8	iP	19	16	01
9	e	12	15	37
10	i(P)	00	15	29
	ipP			47
	isP			53
	iSKS		26.0	
	iPS		28.7	
	iG		41.6	
	iR		47.3	
	Distance	100°		
	Depth	60 km?		
	Magnitude	6 $\frac{1}{2}$ - 6 $\frac{3}{4}$		
	Interpretation	doubtful. Micro-seisms heavy.		

Feb. 10

	PZ	0.1		1
	MH	25		20
	MZ	31		20
10	eP	01	42	31
11	iP	04	39	05
11	iP	13	06	09
	ipP			38
11	iP	21	08	48
	iS		19.2	
	i		20.7	
	eG		30.7	
	eR		34.9	
	Distance	85°		
12	iP	23	28	51
	e		29	20
13	iP	00	33	03
	e			47
13	iP	20	51	01
	ipP			43
14	eP	18	30	19
14	iP	21	17	41
14	eP	22	25	46
15	iP	07	43	17
	e		45	12
	e		46	21
16	iP	05	12	51
	i		13	08
16	iP	05	35	41
17	e	00	01	43
17	eP	12	42	49
	iS		51	34
	iSS		55.9	
	eG		59.3	
	eR	13	02.5	
	Distance	68°		
	Magnitude	6 $\frac{1}{2}$		
		mu		sec
	PZ	0.4		2
	PH	0.2		2
	MH	17		20
	MZ	10		20

Violet M. Taylor
Seismological Assistant

- 7 MAR 1960

RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

March 1, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

63



International
Seismological
Centre

Additional:

Feb. 16	iP	10	48	31
16	eP	13	25	10
17	iP	11	28	47
17	iP	16	39	01
17	eP	18	40	08

Continuation:

Feb. 18	eP	19	31	55
18	eP	21	45	12
	i			27
	i			55
19	iP	05	16	08
19	iPP	10	55	34
	eSKS	11	01	18
	eS		04	36
	ePS		06.8	
	eSS		12.7	
	eSSS		18.2	
	eG		25.4	
	eR		31.7	
	Distance		120°?	
20	iP	06	17	04
21	iP	08	02	04
21	eP	08	26	46
21	iP	09	50	31
22	iP	01	05	36
22	iP	08	45	12
23	iP	11	42	13
23	iP ²	16	18	00
	i			35
	eS or eSKS		28.7	
	eSS		35.3	
	eSSS		38.7	
	eG		42.7	
	eR		46.2	
	Distance		90°	
	Magnitude		6 - 6 $\frac{1}{4}$	
		mu	sec	
	PZ	0.2	1	
	PH	0.05	1	
	MH	1	20	
	MZ	1	20	
	iP ²	21	50	11
	i			22
	i			37
	i		51	14
	ePP ²		53.9	
	eSKS	22	00	31
	iS		01	23
	iPS		02	23
	eSS		07.5	
	eSSS		10.9	
	iG		14.9	
	eR		18.3	

Feb. 24

Distance 90°
Magnitude 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$
Deeper than normal?

		mu	sec	
	PZ	1 $\frac{1}{4}$	2	
	PH	0.4	2	
	PPZ	0.8	12	
	PPH	0.6	12	
	MH	6	20	
	MZ	10	20	
26	e	02	33	15
26	iP	06	44	23
	i			39
	eS		54	07
	e			55
	eG	07	03.6	
	eR		06.4	
	Distance		76°	
26	eP	21	35	31
26	iP ²	23	37	50
	iPcP		39	07
	eS		44	34
	iScS		47.6	
	eSS		48.2	
	eR		50.0	
	Distance		48°	
	Magnitude		6 - 6 $\frac{1}{4}$	
		mu	sec	
	PZ	0.1	1	
	PH	0.1	1	
	SH	1	5	
	MH	3 $\frac{1}{2}$	20	
	MZ	3 $\frac{1}{2}$	20	
27	eP	02	49	04
27	eP	08	18	28
	e			55
	eS		25.2	
	e		28.6	
	eR		31.4	
27	eP	09	08	46
	eSKS		19.3	
	eS		20.3	
	eG		32.4	
	eR		35.1	
	Distance		90°	
27	eP	14	10	51
	i		11	34
27	iP	14	36	20
28	eP	23	19	29
29	iP	02	20	20

Violet M. Taylor
Seismological Assistant

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24

16

2

7

14 MAR 1960

RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
March 10, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Additional:

Feb. 21	eP	17	30	21
22	eP	01	37	24
22	eP	08	34	40
24	iP	00	15	09
26	eP	15	20	58
27	eP	12	14	04

Continuation:

Feb. 29	iPP ²	23	53	05
	ePS	24	03	51
	eG		19.2	
	eR		24.7	

Distance 115⁰
Magnitude 6 $\frac{1}{2}$

	mu	sec
PPZ	0.1	1
PPH	0.1	1
MH	3 $\frac{1}{2}$	20
MZ	3 $\frac{1}{2}$	20
Mar. 2	i(P)	00 15 20
3	iP	01 15 26
4	iP	01 21 40
4	iP ²	02 24 18
	i	36
	i	46
	iPP ¹	25 58
	eG	35 10
	eR	36.6

	mu	sec
PZ	0.4	1 $\frac{1}{2}$
PH	0.2	2
PPZ	0.2	1 $\frac{1}{2}$
4	iP ²	04 05 48

Compression		
ipP	04	06 09
ijsP		22
iPP ¹		09 16
eS or SKS		16 06
ePS		17 28
eSS		21.3
esSS		22.1
eG		29.1
eR		33.6

Distance 84⁰
Depth 60 km?
Magnitude 6 $\frac{1}{2}$

	mu	sec
PZ	0.4	1 $\frac{1}{2}$
PH	0.2	1 $\frac{1}{2}$
PPZ	0.2	2

Mar. 5	e(P)	14	03	49
	e		04	19
	e(P')		07	51
	eSKS		14.5	
	e		18.3	
	ePKKP		19	19
	eSS		23.6	
	eG		34.1	
	eR		38.3	

Distance 109⁰
Magnitude 6 $\frac{3}{4}$

	mu	sec
MH	28	20
MZ	11 $\frac{3}{4}$	20
6	eP	04 15 06
	eG	17 39

Distance 14 ⁰		
7	iP	05 31 46
7	iP	09 51 04
8	iP ²	16 45 56

Dilatation from southwest		
ipP	16	46 53
iPP ²		49 17
iSKS		55 57
iS!		56 11
iPS		57 51
iSS	17	02.0
esSS		03.5
iSSS		06.7
iG		08.8
iP!P!		12 00

Distance 86⁰
Depth 250 km
Magnitude 7-7 $\frac{1}{4}$

	mu	sec
PZ	13 $\frac{1}{2}$	3
PH	2	2
PPZ	4	2
PPH	1	2
SH	8 $\frac{1}{2}$	10
8	eP	17 32 11

Violet M. Taylor
Seismological Assistant

KEW
OBSERVATORY
21 MAR 1960
RICHMOND,
SURREY.

63 ✓

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

March 18, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Additional:

Feb. 28	eP	15 03 41
28	eP	15 16 47
29	eP	23 14 55
Mar. 1	iP	03 37 45
1	eP	08 20 27
1	eP	15 02 46
1	eP	20 11 33
	e	42
2	eP	22 06 53
3	eP	01 52 25
3	eP	02 50 49
3	eP	05 06 32
3	eP	19 30 00
4	eP	12 07 12
4	eP	16 36 14
5	eP	21 09 37
7	e	00 24 23
8	eP	00 14 42
8	iP	04 12 04

Continuation:

Mar. 10	iP	00 05 04
	Dilatation	
	i	00 05 37
	iS	13 51
10	e	00 31 23
	e	33 38
10	iP	09 57 52
	eSKS	10 08 31
	eS	47
	eSS	15.5
	eG	21.4
	eR	25.5
	Distance 90°	
10	iP	13 55 50
	Compression	
	i	13 56 09
	eS	14 05 11
	e	43
	e	06 03
	eG	14.2
	eR	17.0
	Distance 75°	
10	iP	14 43 18
	Compression	
	i	14 43 40
10	iP	19 02 07
12	iP	02 28 00
	e	48
12	iP	08 37 13
12	iP	14 00 07

Mar. 12	iP ₂	20 43 59
	Dilatation	
	ePP	20 47 33
	eSKS	54 45
	iS	55 21
12	iPS	56 17
	ePPS	57 15
	eSS	21 01.0
	iG	09.0
2	eR	13.0
	Distance 93°	
	Magnitude 6½	
		mu sec
	PZ	1¼ 2
	PH	0.2 1
	MH	3½ 20
	MZ	5 20
14	iP ₂	00 01 55
	Dilatation	
	iPcP	00 02 57
	ePP	03 28
	eS	08 57
	eG	12.4
	eR	16.0
	Distance 48°	
	Magnitude 6 - 6¼	
		mu sec
	PZ	0.2 1
	PH	0.1 1¼
	PPH	0.1 1½
14	i	21 00 31
15	iP	09 29 05
	i	19
	i	47
	iPP	30 51
	eS	35 36
	eL	39.2
	Distance 48°	
15	e	10 20 45
15	iP	22 44 04
16	eP	17 50 48
	iS	18 00 09
	iScS	47 <i>hatched</i>
	eSS	05.0
	eG	09.0
	eR	12.1
	Distance 72°	

Violet M. Taylor
Seismological Assistant

29 MAR 1960

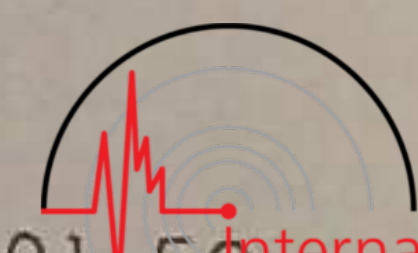
RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

March 24, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

63 ✓



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Additional:

Mar.	9	eP	01	18	59
	9	eP	19	57	00
	10	eP	05	12	24
	11	eP	01	59	08
	11	iP	11	37	20
	11	eP	13	23	29
	12	eP	06	02	52
	13	eP	11	52	05
	14	iP	01	04	34

Continuation:

Mar.	16	eP	21	53	48
	18	iP	22	06	21
	19	iP	14	21	30
	19	iP	19	29	40
		i		30	35
		e			56
		e		42.9	
		eG		58.0	
		eR	20	02.5	
20		eP	13	48	33
		eS		58	10
		eSS	14	03.0	
		eG		08.0	
		eR		11.3	
		Distance	75°		
(20)		iP ²	17	19	12
		iPP		22.1	
		iS\		28	47
		eSS		33.2	
8		eG		38.2	
		eR		41.7	
		eP ¹ P ¹		46	43
		Distance	75°		
		Magnitude	7		
			mu	sec	
		PZ	1½	1¼	
		PH	1	2½	
		SH	24	12	
20		iP	23	39	16
(21)		iP ¹	00	46	39
		iS\		56	12
		i		57	02
		eSS	01	01.0	
		eSSS		04.4	
		eG		06.8	
		eR		09.4	
		Distance	77°		
		Magnitude	6½		
			mu	sec	
		PZ	0.3	1½	
		SH	2	4	
21		eP	02	01	14
		iS		10	38
		eG		19.9	

Mar.	21	eP	04	01	52
	21	eP	09	30	02
		eS		39	42
		eSS		44.6	
		eSSS		47.7	
		eG		50.2	
		eR		52.8	

		Distance	76°		
21		iP	11	51	43
		e		52	20
		eS	12	01	14
		eG		10.0	

		Distance	76°		
21		eP	20	02	16
		i		27	next sl
22		e	01	54	03
		e		58.7	
		eL	02	02.7	
22		iP	13	24	01
		e		27	46

		eL		29.2	
22		i(P)	18	14	46
22		eP	20	14	30
22		iP	21	31	45
		e		34	50

(23)		eP ²	00	35	07
		i		37	33
		e		40	27
		iS\		44	47
		eSS		49.5	
		iSSS		53.5	
		iG		54.5	
		iR		57.0	

2 Distance 76°
Magnitude 6½ - 6¾

		mu	sec	
		PZ	1	3
		PH	0.6	4
		SH	8	13
		MH	15	20
		MZ	6	20

23		iP	01	19	00
		i		20	36
		e		21	45
		eS		58	39
23		iP	01	46	59
23		eP	02	03	22
		e		04	08
23		eP	08	58	27
23		eP	10	40	21
		e			56
23		iP	14	11	16
		i			26

correct
end

Violet M. Taylor
Seismological Assistant

**KEW
OBSERVATORY**

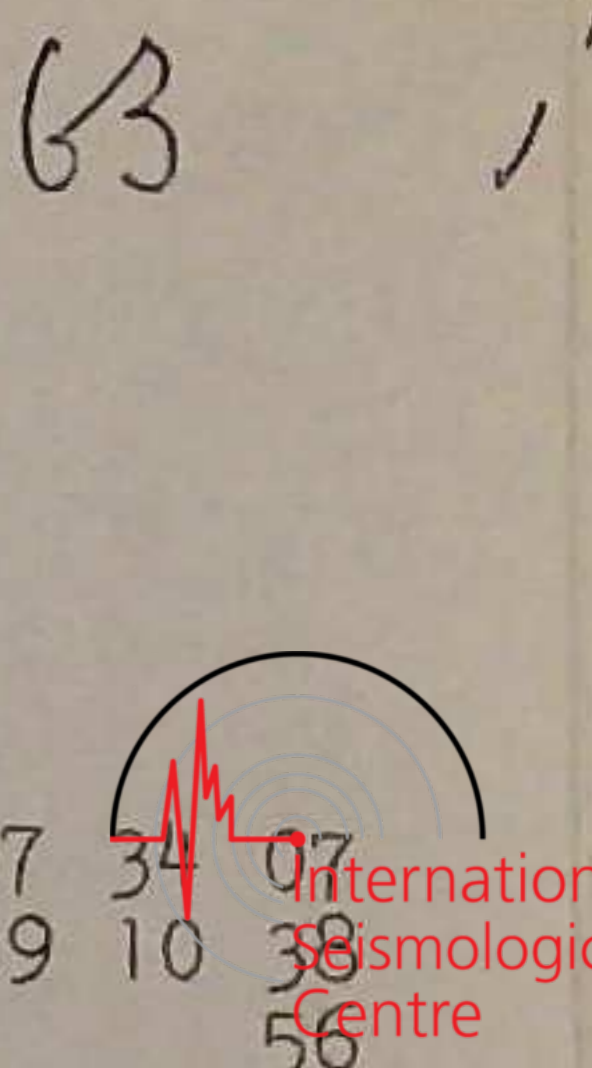
- 4 APR 1960

**RICHMOND,
SURREY.**

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

March 29, 1960

**PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)**



Correction:

Mar. 21 eP 20 02 16
i 27
Should read
eP 20 00 16
i 27

Additional:

Mar. 17 eP 11 44 57
18 iP 01 21 07
18 iP 06 48 24
18 iP 10 48 17

Continuation:

Mar. 23 eP 22 34 20
i 27
e(PP) 37 30
iS 44 00
iSS 48.8
eSSS 52.4
eG 54.4
eR 56.5
Distance 75°
Magnitude 6

10

		mu	sec
	MH	2 1/4	20
	MZ	3	20
24	iP	03 05	15
	i		39
24	iP	06 05	13
	i		30
	eS	13	54
	eG	21.4	
	eR	24.3	
24	iP	10 03	59
	e	04	18
24	eP	10 10	23
	i		33
24	iP	14 11	50
25	iP!	02 40	14
26	e	23 23	51
27	iP	04 01	12

Compression
i 04 01 24
eSKS 11 32
eS 44
iPS 12 48
iSS 16.9
iSSS 20.9
iG 23.7
eR 27.5

27 Distance 86°
iP 07 30 37
Dilatation
i 07 30 45
eG 33.5
eR 34.5
Distance 16°

Mar. 27 iP 07 34 07
27 iP 09 10 38
i 56
iSKS or iS 21 13
iPS 22.4
eSS 27.1
eSSS 30.7
iG 33.2
eR 36.8
Distance 86°
27 iP 17 37 24
ipP 40
27 iP 19 48 09
ipP 26
27 iP 20 20 03
i 14
iPP1 44
iS 23 20
i(G) 24 02
eR 25.1

27

7

Distance 20°
Magnitude 6 - 6 1/4
Deeper than normal

		mu	sec
	PZ	2	1 1/2
	PH	1	2
	PPZ	1 1/2	2 1/2
	SH	2	8
27	iP	20 25	22
27	e(P)	20 59	31
27	e	21 17	44
27	iP	21 22	57
	i		23 15
27	iP	23 41	25
27	iP	23 45	20
28	iP 2	00 21	40
	iPP1		23 29
	iS 1		28 12
	eSS		31.8
	iG		33.1
	eR		35.1

2 Distance 46°
Magnitude 6 1/2 - 6 3/4

		mu	sec
	PZ	1 1/2	2
	PH	1	3
	PPZ	0.6	2 1/2
	SH	3 3/4	7
	MH	4 1/4	20
	MZ	8 1/4	20

Violet M. Taylor
Seismological Assistant

KEW
OBSERVATORY

- 4 APR 1960

RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

April 1, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

63

Additional:

Mar.	17	eP	20	22	35
	18	eP	22	37	17
	19	eP	01	38	22
	19	eP	15	20	23
	20	eP	07	45	14
	20	eP	18	42	15
	20	eP	21	48	23
	21	eP	07	03	09
	21	eP	16	50	37
	21	eP	23	08	43
	21	eP	23	33	39
	22	eP	02	50	24
	23	eP	00	57	02
	23	eP	02	20	59
	23	eP	03	18	06
	23	eP	05	28	17
	23	eP	12	02	53
	23	eP	21	46	03
	24	eP	20	06	47
		e		07	22
	27	eP	09	20	44
	27	eP	12	35	44

Mar. 29	eG	22	50
	eR	55.1	
2-	Distance	100 ⁰ ?	
		mu	sec
	MH	1 $\frac{1}{4}$	20
	MZ	1 $\frac{3}{4}$	20
30	iP	11	02 29
	i		34
	eS		13 13
	iPS		14 09
	e		45
11	eSS		18.7
	eSSS		22.5
	eG		25.0
	iR		28.9
2-	Distance	86 ⁰	
		mu	sec
	MH	1	20
	MZ	1 $\frac{1}{4}$	20
30	eP	12	17 25
30	iP	15	32 14
	i		20
	i		35
	e		35 36
	iP	00	52 10
	iP	01	52 57
	ipP		53 12
	iP	11	45 48
	eL		48.9
	e	15	18 29
	iP2	19	58 53
31	iP2		
	Dilatation		
	eG	20	01.0
	eR		01.7
4	Distance	13 ⁰	
		mu	sec
	PZ	0.5	1 $\frac{1}{4}$
	PH	0.1	1
31	eP	20	20 17
	e		23
	eG		22.5
	eR		23.3
	Distance	14 ⁰	
	iP	14	16 09
Apr. 1	eG		19.0
	eR		19.4
	Distance	16 ⁰	



Continuation:

Mar.	28	iP	06	48	44
	28	iP	06	52	24
	28	iP	06	55	29
		ipP			45
28	iP	12	50	01	
29	iP2	06	43	46	
	i		44	03	
	ePP2		47	09	
	eSKS		54	09	
	iS1			31	
	iPS		55.5		
15	i		56.1		
	iSS	07	00	25	
	eSSS		03	14	
	iG		07.0		
	iR		10.2		
2-	Distance	87 ⁰			
	Magnitude	6 $\frac{3}{4}$			
		mu		sec	
	PZ	0.8		1 $\frac{1}{2}$	
	PH	0.15		1	
	PPZ	0.2		1 $\frac{1}{2}$	
	PPH	0.3		2	
	SH	3		7	
	MH	17		20	
	MZ	21		20	
29	eP	22	24	13	
	eS		35	37	
	ePS		36	49	
	eSS		41	57	
	eSSS		45.9		

Apr. 1	iP	14	16 09
	eG		19.0
	eR		19.4
	Distance	16 ⁰	

Violet M. Taylor
Seismological Assistant

19 APR 1960

RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Correction:

Mar. 23 iP 01 19 00
i 20 36
e 21 45
eS 58 39
Should read:
iP 01 19 00
i 20 36
e 21 45
eS 28 39

Additional:

Mar. 22 eP 20 36 04
23 eP 08 02 39
24 eP 20 14 37
25 eP 11 15 39
28 eP 08 08 44
29 iP 00 23 38
e 55
30 iP 07 07 05
i 20
30 eP 09 50 50
i 59
30 eP 09 53 29
31 eP 03 52 41
31 iP 16 00 00
Apr. 1 eP 13 28 55

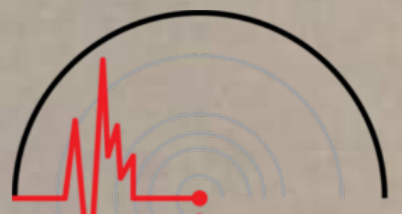
Continuation:

Apr. 2 iP 06 51 42
3 eP 05 22 11
3 eP 17 16 05
4 eP 04 27 06
i 13
4 eP 08 08 58
i 09 22
eSKS 19 22
eS 20 14
eSS 25 22
iG 32.3
iR 35.7
Distance 90°
4 iP 12 58 39
i 52
eL 13 24.3
4 eP 23 31 07
5 ePKP 07 36 37
e 37 12
ePP 38 09
ePS 48 01
eSS 54.8
eG 08 08.9
eR 16.0
Distance 125°
5 iP 12 55 09
5 iP 14 52 58

Apr. 13, 1960

Apr. 5 eP 17 36 33
6 iP 02 16 31
i 54
6 eP 07 07 54
6 eP 21 25 17
7 eP 03 16 50
7 iP 13 59 01
i 14 00 51
e 01 36
iS 08 37
7 iP 14 02 18
i 25
8 Part of preceding?
iP 00 07 38
i 44
iS 17 17
eSS 22.2
eG 27.4
eR 28.5
Distance 75°
8 eP 08 49 14
10 iP 09 04 36
10 eP 13 19 54
10 iP 16 10 21
13 iP² 12 43 51
Compression
eS 12 48 56
eG 50.5
eR 52.1
7 2 Distance 32°
Magnitude 6
mu sec
PZ 0.2 1
PH 0.1 1
MH 7 1/2 20
MZ 3 3/4 20

Violet M. Taylor
Seismological Assistant



International
Seismological
Centre

- 2 MAY 1960

RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
April 28, 1960

63

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Additional:

Apr. 11 eP 01 57 29

Continuation:

Apr. (15) iP2 03 35 55

iS\ 44 22

eSS 48.4

eG 51.9

iR 54.4

2 Distance 62°

Magnitude 6½

mu sec

PZ 0.4 1½

PH 0.4 2

SH 1¼ 7

MH 16¾ 20

MZ 12¼ 20

15 iP 04 26 08

15 iP 08 45 40

15 iP 11 50 34

i 38

i 55

(15) iP2 22 17 54

eSKS 28 25

ePS 29 33

eSS 33.7

10 eSSS 37.8

eG 41.4

eR 44.3

2 Distance 90°

Magnitude 6½

mu sec

PZ 1½ 5

PH 1¼ 5

MH 3 20

MZ 5¼ 20

17 eP 18 35 47

17 iP 22 00 45

18 iP 08 18 54

Dilatation

iP 08 20 34

18 eP 09 14 07

18 eP 13 14 59

19 eP 19 34 03

19 eP 20 40 49

21 iP 00 23 01

21 iP 02 23 49

Dilatation

i 02 26 07

iSor iScP 29 45

iG 32.5

iR 34.7

Distance 37°

Deeper than normal?

Apr. 21 eP 13 09 55

21 eP 16 33 51

22 iP 20 37 48

i 38 10

i 39 39

iS 47 07

eScS 41

eSS 51.9

eG 55.2

eR 58.4

24 Distance 70°

iP 03 42 15

iPP 45 14

iPS 54 09

iPPS 55 17

iSS 58.6

iSSS 04 02.5

eL 17.3

Distance 90°

Interpretation

doubtful

24 eP 03 50 05

24 eP 15 02 54

Violet M. Taylor
Seismological Assistant

**KEW
OBSERVATORY**
17 MAY 1960
RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
May 13, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Continuation:

Apr. 25	eP	04 11 55
25	eP	15 00 29
25	eP	18 59 58
28	eP	00 56 06
29	eP	04 23 29
Apr. 29	iP	13 51 12
	i	26
29	eP	14 58 23
29	iP	19 51 08
	i	26
	iS	20 02 07
	iSS	08 14
	iSSS	11.6
	iL	24.6
	Distance	90°
30	iP	03 09 10
30	eP	04 20 18
	e	37
	eS or SKS	30 50
	iSS	37.4
	iSSS	41.4
	iL	53.9
	Distance	90°
30	eP	11 11 36
30	iP	14 30 23
30	eP	15 00 08
30	eP	15 24 43
30	iP	22 27 47
	Dilatation	
	e	22 29 02
30	iP	22 30 23
May 1	eP	03 02 33
2	eP	12 28 56
	i	41
	eS	39 42
2	eP	20 44 21
3	iP	22 34 46
	eS	44 47
4	eP	00 08 43
4	eP	01 39 46
4	eP	18 42 24
5	iP	11 36 09
	i	22
	eS	44 27
	e(ScS)	45.6
	eSS	48.4
	eG	51.2
	eR	54.0
	Distance	62°

May 6	eP	06 30 43
6	eP	12 18 15
6	eP	18 57 22
6	iP	20 30 38
8	iP	03 30 34
	eS	36 58
	iG	40.3
	eR	42.2
	Distance	45°
8	eP	05 22 10
8	iP	05 42 16
8	eP	14 40 10
10	eP	23 29 41
10	iP	23 30 52
	i	31 11
11	ePP	18 54 59
	e(PPP)	57 29
	eSKS	19 01 10
	e(SKKS)	28
	iSS	10.6
10	eSSS	14.3
	eG	22.7
	eR	25.6
2	Distance	115°
	Magnitude	6½
		mu sec
	MH	6 20
	MZ	7 20

Violet M. Taylor
Seismological Assistant

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 May 20, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

Apr. 27	eP	21	17	33
May 9	e	16	39	50
9	e(P)	20	21	18
	iS		27	49
	iG		31.0	
	iR		33.0	
	Distance	44 ⁰		

10	eP	23	22	23
----	----	----	----	----

Continuation:

May 11	eP	20	19	26
12	e	16	11	15
12	iP ₂	22	40	40
	i			51
	i	41	14	
	i(PcP)	42	03	
	iPP			28
	eScP	45	55	
	iS ¹	47	27	
	iScS	50	24	
	iSS			56
	iG		52.3	
	iR		53.6	

Distance 50⁰
 Magnitude 6 $\frac{1}{2}$

	mu	sec
PZ	0.6	1 $\frac{1}{2}$
PH	0.5	1 $\frac{1}{2}$
PPZ	0.2	1 $\frac{1}{2}$
SH	4	9
MH	8	24
MZ	7	20

12	e	23	08	53
13	iP	10	04	37

Compression
 iG 10 07.7
 iR 08.9

Distance 17⁰

13	eP	10	09	29
13	eP	10	25	13
13	iP ₂	16	14	20

Compression
 i 16 14 29

e 15 30

iS¹ 19 54

e(ScP) 59

eG 22.7
 iR 24.1

Distance 37⁰
 Magnitude 6 $\frac{1}{4}$

May 13	PZ	mu	sec
	PH	1 $\frac{1}{4}$	2
	SH	0.5	2
	MH	2 $\frac{1}{2}$	5
	MZ	14	20
13	e	20	59 29
14	eP	22	29 57
18	iP ₂	06	48 05

Dilatation
 i 06 48 18

ePP₂ 51 33

i 49

iSKS 58 40

iS¹ 54

i 59 04

iPS 07 00.1

iSS 05.0

iSSS 08.8

iG 12.5

iR 16.6

Distance 86⁰

Magnitude 6 $\frac{3}{4}$

PZ mu sec

PH 1 $\frac{1}{2}$ 3

PPZ 0.3 2

PPH 0.6 3

SH 0.1 1 $\frac{1}{2}$

MH 3 5

MZ 7 22

19 iP 10 32 30

i 33 00

i 33

i 37 16

e 44.1

e 47.5

e 57.2

e 58.5

eL 11 05.0

19 i(S) 11 11.4

i 18.1

i 22.1

iR 30.1

Earlier motion lost
 in preceding shock

Violet M. Taylor
 Seismological Assistant

KEW
 OBSERVATORY
 23 MAY 1960
 RICHMOND,
 SURREY.

**KEW
OBSERVATORY**

30 MAY 1960

**RICHMOND,
SURREY.**

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
May 25, 1960

63 ✓

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)
May 22



Continuation:
May 20

	eP1	11	25	54
	ePP2		29	34
	eSKS		36	38
	ePS		38.1	
11	eSS		43.7	
	eSSS		47.2	
	eG		51.8	
	iR1		55.4	
2	iR2	13	19.0	
	Distance	95°		
	Magnitude	6½ - 6¾		
		mu	sec	
	PZ	0.2	1	
	PPZ	0.6	1½	
	PPH	0.1	2	
	MH	14	20	
	MZ	10	20	
(21)	eP2	10	15	18
	Compression from southeast			
	i	10	15	23
	iS1		25	30
	e		26	00
	eG		38	--
71	Distance	88°		
	Magnitude	7¼		
		mu	sec	
	PZ	1	1	
	PH	1	2	
	SH	4	4½	
	MH	105	20	
21	iP	11	06	20
	i			40
21	iP	13	12	26
	i			39
21	iP	14	11	51
21	iP	15	21	11
22	iP	08	23	30
	i			41
(22)	iP1	10	43	08
	Compression			
	i	10	43	17
	i			36
5	iS1		53	22
	iG	11	03.9	
	Distance	85°		
	Magnitude	6½		
		mu	sec	
	PZ	0.2	1½	
	SH	5	24	
22	iP	10	45	14
	i			18
	iS		55	30
	iL	11	12.7	

	Distance	85°		
	Magnitude	7¼ - 7½		
		mu	sec	
	PZ	1	1½	
	PH	0.1	1	
	SH	71	22	
	MH	208	20	
22	iP	12	29	24
	i			43
(22)	iP1	19	23	12
	Compression			
	iS1	19	33	52
	Distance	88°		
	Magnitude	8.3		
		mu	sec	
	PZ	18	5	
	SH	10	7	
	MH	1100	20	
22	iP	22	20	35
22	iP	22	26	32
22	iP	22	27	54
	i			28 00
22	iP	23	20	11
	i			14
23	iP	00	38	13
	i			22
	i			29
23	iP	01	03	53
23	iP	01	06	30
	i			34
23	iP	02	59	13
23	iP	03	09	03
	i			18
23	iP	03	16	00
23	iP	05	00	51
	i			56
23	iP	05	26	07
	i			18
23	iP	07	22	12
23	iP	07	26	01
23	iP	08	26	03
	i			10
23	iP	10	04	57
	i			05 07
23	iP	10	50	51
23	iP	14	14	23
	i			30

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 Pasadena 2, California
 June 1, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

May 15	iP	04 15 57
15	eP	21 44 34
17	eP	15 55 43
19	e	16 53 29
(22)	iP	19 08 30
Compression		
iS	19 18 50	
Distance	82°	
Magnitude	6½	
	mu	sec
PZ	1	6
PH	0.4	2

Continuation:

May 24	eP	08 04 54
(24)	ePP	15 04 58
	iSKS	11 20
	ePS	14 10
	eSS	20.0
9	iSSS	23.6
	iG	29.1
2	iR	34.1
Distance	102°	
Magnitude	6¾ - 7	
	mu	sec
MH	8	20
MZ	8	20
(25)	iP2	08 47 26
	i	48 01
	ePP	50 50
	iS\	58 10
	iPS	59 20
11	iSS	09 03.8
	iSSS	07.3
	iG	10.8
	iR	12.6
Distance	88°	
Magnitude	6¾	
	mu	sec
PZ	0.1	1½
PH	0.2	1½
SH	2	6
MZ	10	20
25	iP	10 12 01
25	iP	10 26 02
26	eP	01 23 57
(26)	eP1	05 23 46
	iPP1	27 39
	eSKS	34 58
40	iPS	36 30
	eSS	42.3
	eSSS	45.7
	eG	51.8
	eR	55.3

May 26	Distance	102°
	Magnitude	6½
		mu sec
	PZ	1 1¼
	PPZ	0.2 1½
	MH	5 20
	MZ	5 20
26	iP	19 46 25
27	e	03 29 59
27	iP	23 19 48
28	iP	03 18 35
28	iP	06 19 03
28	iP	10 56 48
28	eP	11 18 09
	i	17
	i	35
	eS	28 30
	eSS	34.0
	eSSS	37.8
	eG	40.2
	eR	45.8
	Distance	85°
(29)	iP2	07 51 59
	Compression	
	i	07 52 08
	i	27
	ePP	55 22
12	iS\	08 02 20
	iSS	07.8
	iSSS	11.6
	eG	14.8
	iR	19.8
2	Distance	84°
	Magnitude	6½
		mu sec
	PZ	0.4 1½
	PH	0.1 2
	SH	3 10
	MH	5 20
	MZ	5 20
29	iP	21 36 41
	eS	47 26
	iPS	48 20
	eSS	53.1
	eG	59.8
	eR	22 04.5
	Distance	88°
29	iP	21 52 22
30	iP	17 59 10

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PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Continuation:
 May (31) iP2 03 52 32
 Dilatation
 i 02 52 40
 i 53 02
 ePP 55 48
 iS 1 03 02 53
 iPS 03.8
 eSS 08.7
 iSSS 11.9
 iG 14.6
 eR 19.6
 2 Distance 85°
 Magnitude 6 1/2
 mu sec
 PZ 0.4 1 1/2
 PH 0.1 1
 SH 2 1/2 10
 MH 4 20
 MZ 5 20
 (31) iP2 11 11 36
 Compression from east
 ipP 11 11 44
 iPP1 13 38
 iS 1 19 04
 iScS 21 26
 eSS 23.1
 eG 24.0
 iR 27.6
 2 Distance 54°
 Magnitude 6 1/2 - 6 3/4
 mu sec
 PZ 0.5 1
 PH 1 2
 PPZ 2 3
 SH 0.6 5
 MH 7 20
 MZ 4 20
 Slightly deeper than normal
 31 iP 11 51 33
 31 i(P) 13 24 24
 June 1 eP 05 15 28
 e 16 57
 eS 25 46
 eSS 31.0
 eSSS 34.7
 eG 37.6
 e(R) 43.4
 Distance 83°

June 2 iP2 06 11 03
 Dilatation
 i 06 11 10
 ePP2 14 44
 eSKS 21 41
 ePS 23 14
 eSS 28.3
 eG 37.1
 eR 40.3
 2 Distance 92°
 Magnitude 6 3/4
 mu sec
 PZ 0.8 1 1/2
 PH 0.2 1 1/2
 PPZ 0.1 1 1/2
 PPH 1 4
 MH 3 20
 MZ 3 1/2 20
 (2) iP2 08 00 33
 Compression
 ipP 08 00 52
 ePP1 04 16
 epPP 30
 eS 1 11 26
 14 iPS 12 50
 eSS 17.8
 esSS 18.4
 eSSS 21.8
 eG 26.0
 iR 28.8
 2 Distance 94°
 Depth 60 km?
 Magnitude 6 1/2 - 6 3/4
 mu sec
 PZ 0.5 1
 PH 0.2 1
 PPZ 0.1 1 1/2
 SH 2 8
 MH 21 20
 MZ 14 20
 2 iP 08 48 47
 2 eP 12 07 52
 2 iP 19 10 18
 i 23
 3 iP 07 51 36
 Dilatation

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June 7, 1960
 PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)
 June 4



Additional:

May	22	eP	23	41	55
	23	iP	00	40	12
	23	eP	01	14	12
	23	eP	01	47	26
		i			34
	23	iP	04	39	25
	23	e	06	21	32
	23	e	12	03	11
	23	eP	14	13	15
	23	eP	16	04	24
	24	eP	01	50	23
	24	eP	15	28	47
	25	iP	15	10	34
	25	iP	15	16	34

Continuation:

June	3	iP ²	13	25	42
		Compression from southwest			
		i	13	26	04
		ipP ¹		27	52
		isP		28	47
		ePP ¹		29	18
		eS		34	44
		eG		48.1	
		Distance 80°			
		Depth 600 km			
		Magnitude 6			
			mu	sec	
		PZ	0.4	1	
		PH	0.15	1	
		pPZ	0.2	2	
		PPZ	0.2	2	
		iP ²	13	34	40
		Compression from southwest			
		i	13	34	46
		i		35	02
		ipP ¹		36	49
		isP		37	36
		ePP ¹		38	19
		eS		43	49
		e		52.6	
		eG		55.6	
		Distance 80°			
		Depth 600 km			
		Magnitude 6			
			mu	sec	
		PZ	0.6	1½	
		PH	0.15	1	
		pPZ	0.6	2½	
		PPZ	0.1	1½	
		eP	16	29	41
		i			59

		iP	02	31	27
		Dilatation from southeast			
		iG	02	34.2	
		iR		35.2	
		Distance 16°			
		Magnitude 6 - 6¼			
			mu	sec	
		PZ	1¾	2	
		PH	1¾	2	
	4	iP	03	15	22
	5	iP	20	40	32
	6	iP!	01	19	53
		Compression from northwest			
		i	01	20	30
		iL		22.1	
		Distance 12°			
	6	iP ²	06	08	47
		Compression			
	6	eS	06	19	10
		ePS		47	
		eSS		25.5	
		eG		30.1	
		Distance 82°			
		Magnitude 6¾			
			mu	sec	
		PZ	2	3	
		PH	0.5	2	
		SH	5	10	
		MH	30	20	
		MZ	26	20	
	6	i(P)	06	58	07
	7	iP	05	35	19
		eS		45	37
	7	iP	05	45	54
	7	iP	13	07	23
		Dilatation			
		i	13	07	33
		i		08	28
		eS		15	25
		e(SS)		18	54
		eG		23.8	
		eR		24.6	
		Distance 63°			
	7	iP	13	39	03
	7	iP	14	15	04
		e			12

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28 JUN 1960

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220 North San Rafael Ave.
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PROVISIONAL READINGS AT PASADENA
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International
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Additional:

June 6 Santa Barbara
iP 01 19 39

June 11 iP 17 21 25
12 iP 04 08 06

Continuation:

June 11 iP!2 00 45 59
Dilatation from
southeast

12 iP 07 10 30
12 eP2 07 31 16

ipP2 00 47 07

i(PcP) 43

isP 29

ePP 34 25

iPP2 49 49

12 iS1 40 45

iS1 55 11

iScS 41 25

i 45

iSS 45.1

ePS 56 43

iSSS 49.0

e 57 45

iG 50.5

iSS 01 00 09

iR 54.1

iSSS 01.9

2 Distance 73°
Magnitude 6 1/4

Distance 73°

Depth 250 km

Magnitude 6 1/4

	mu	sec
PZ	1	1
PH	0.2	1
pPZ	0.4	2
pPH	0.6	1
PPZ	0.2	2
PPH	0.3	2
SH	2	6
iP	00 54 56	
iP2	15 27 33	
i	28 48	
ePP	31 17	
i	37 15	
iSKS	38 13	
iS		53
iPS	39.9	
iSS	45.1	
iSSS	48.7	
iG	52.1	
iR	56.8	
Distance 93°		
Magnitude 6 1/2 - 6 3/4		
	mu	sec
PZ	0.4	1 1/2
PH	0.04	1
MH	17	20
MZ	20	20
iP	16 51 05	
e		11
i		43
i	52 21	
ePP	54 26	
eSKS	17 02 17	
iS	03.0	
eR	20.0	
Distance 95°		

PZ 1 1

PH 0.2 1

pPZ 0.4 2

pPH 0.6 1

PPZ 0.2 2

PPH 0.3 2

SH 2 6

iP 00 54 56

iP2 15 27 33

i 28 48

ePP 31 17

i 37 15

iSKS 38 13

iS 53

iPS 39.9

iSS 45.1

iSSS 48.7

iG 52.1

iR 56.8

Distance 93°

Magnitude 6 1/2 - 6 3/4

	mu	sec
PZ	0.4	1 1/2
PH	0.04	1
MH	17	20
MZ	20	20
iP	16 51 05	
e		11
i		43
i	52 21	
ePP	54 26	
eSKS	17 02 17	
iS	03.0	
eR	20.0	
Distance 95°		

PZ 0.4 1 1/2

PH 0.04 1

MH 17 20

MZ 20 20

iP 16 51 05

e 11

i 43

i 52 21

ePP 54 26

eSKS 17 02 17

iS 03.0

eR 20.0

Distance 95°

12 iP 07 50 28

12 iP 15 18 01

12 eP 15 29 39

13 iP 05 59 56

eS 06 10 17

i(SS) 16.7

eG 23.4

iR 25.1

Distance 84°

13 iP 23 44 37

14 iP 03 07 02

15 e(P) 09 53 26

15 iP 12 27 25

ipP 44

15 iP 15 48 38

i 49

iS 58 10

ePS 59.0

iSS 16 02.8

eSSS 06.3

iG 08.7

iR 11.2

Distance 77°

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PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



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Continuation:

Date	Station	Time	mu	sec	
June 15	iP2	23 44 11			
	iSKS	54 42			
	iS	54			
	iSS	24 01 34			
	iSSS	05 10			
	iG	07.5			
	iR	10.8			
	Distance 90°				
	Magnitude 6 1/4 - 6 1/2				
				mu	sec
	PZ	0.3	1 1/2		
	PH	0.2	2		
	SH	1 1/2	18		
	MH	9	20		
	MZ	7	20		
16	iP	09 18 14			
	i	40			
16	iP	10 08 32			
	i	42			
16	iP	10 39 55			
	i	40 03			
	i	12			
16	eP	11 54 19			
17	iP	02 55 55			
17	iP	05 13 33			
17	iP2	16 43 36			
	i	44 01			
	i	18			
	iPP1	45 24			
	iS	50 04			
	iSS	53 26			
	iG	54.2			
	eR	55.4			
Distance 46°					
Magnitude 6 - 6 1/4					
			mu	sec	
	PZ	0.2	1 1/4		
	PH	0.1	1		
	PPZ	2	1 1/2		
	SH	1	6		
	MH	3 1/2	20		
	MZ	4	20		
19	iP	08 50 26			
19	iP	09 56 33			
19	iP	12 32 54			
19	iP	12 45 42			
19	eP	17 29 47			
	i	30 06			
20	iP2	02 13 40			
Compression					
	iPP2	02 14 46			
	iS	24 03			
	iSS	29.6			

Date	Station	Time	mu	sec	
June 20	iSSS	02 33.2			
	iG	35.7			
	iR	40.6			
	Distance 84°				
	Magnitude 7				
				mu	sec
		PZ	0.5	1	
		PH	0.3	1 1/2	
		PPZ	0.4	1 1/2	
		PPH	0.4	2	
	SH	13 3/4	15		
	MH	100	20		
	MZ	108	20		
20	iP2	13 12 15			
Compression					
	i	13 12 25			
	i	13 45			
	iS or SKS	22 32			
	iSS	28.2			
	iSSS	31.6			
	iG	35.4			
	iR	39.5			
Distance 86°					
Magnitude 6 3/4					
			mu	sec	
	PZ	0.4	1 1/2		
	PH	0.2	1		
	SH	15	11		
	MH	45	20		
	MZ	42	20		
20	iP	13 36 49			
21	eP	08 42 18			
	iS	48 31			
	e(SS)	51.3			
	iG	51.8			
	eR	53.9			
Distance 43°					
21	iP	18 20 41			
21	eP	21 52 45			
22	iP	06 52 45			
	e	57			
22	iP	08 24 45			

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PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Additional:

June 10	iP	11 42 10
14	iP	11 57 39
14	eP	23 51 39
15	eP	11 31 03
17	eP	16 47 44
	i	56
17	eP	16 59 50
17	iP	17 24 29
18	eP	19 16 24
19	iP	08 45 16
19	eP	21 55 12
20	iP	17 03 08
20	iP	17 12 05
21	iP	14 15 00
22	eP	04 33 06

Continuation:

June 22	e(P)	12 42 41
22	eP	20 25 46
22	iP	23 36 51
25	iP	01 29 30
	i	45
	iS	30 50
	Distance 80°	
25	iP	02 15 16
	i	25
	iSKS	25 49
	i	27.4
	eR	41.3
	Distance 90°	
25	e	14 07 35
25	eP2	14 54 29
	i	55 01
	ePPI	58 01
	e	59 45
	iS1	15 04 55
	ePS	06.2
	eSS	10.4
	eSSS	13.7
	eG	16.6
	eR	20.3
2	Distance 84°	
	Magnitude 6½ - 6¾	
	mu	sec
	PZ	0.3 1
	PH	0.1 1
	PPZ	0.1 2
	SH	7 21
	MH	3½ 20
	MZ	3½ 20
25	iP	19 47 15
	ipP	41
	isP	50
	i	48 08

June 25	eS	19 56 59
	eL	20 12.7
	Distance 80°	
	Depth 60 km	
26	iP	06 29 44
	i	51
27	eP	17 03 12
	eSKS	13 43
	eSS	19.8
	eG	26.5
	eR	29.6
	Distance 90°	
28	e(P)	14 56 13
	i	32
	eL	59.6
29	eP	01 30 33
29	iP	02 10 05
	eSKS	20 29
	eSS	26.2
	eG	33.3
	eR	36.3
	Distance 86°	
29	iP	04 41 52
	i	42 27
	eS	52 19
	eSS	57.3
	eG	05 04.1
	eR	07.5
	Distance 83°	
29	iP	05 26 37
29	eP	09 56 30
	e	57 19
	eS	10 05 52
	eScS	06.6
	eSS	10.3
	eG	13.9
	eR	16.3
	Distance 70°	
29	iP	10 33 53
	i	59
	i	34 03
29	iP	17 14 35
	i	50
	eS	20 36
	eL	23.7

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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
June 22, 1960

PROVISIONAL READINGS AT PASADENA
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Correction:

June 7 iP 05 45 54
Should read:
iP 05 44 54

Additional:

June 5 iP 07 48 00.9
iS 50.1
Magnitude 4.7
Barrett
iP 07 48 24.8
iS 49 38.5
China Lake
iP 07 47 39.4
Ft. Tejon
iP 07 47 49.5
Isabella
iP 07 47 39.4
King Ranch
iP 07 47 46.7
Palomar
iP 07 48 15
iS 49 30
San Nicolas
eP 07 48 11.6
iS 55.6
Santa Barbara
iP 07 47 57.9
iS 48 38.2
Tinemaha
iP 07 47 17.7
Mt. Wilson
iP 07 48 00.2
Riverside
iP 07 48 04.6
iS 59.7
Woody
iP 07 47 38.4
6 Tinemaha
iP 01 19 25
i 32
iS 20 38
Barrett
iP 01 20 18
i 21 14
China Lake
iP 01 19 40
i 47
i 21 51
Ft. Tejon
iP 01 19 40
i 57
i 21 06

June 6 Mt. Wilson
iP 01 19 52
i 20 04
i 21 30
Riverside
iP 01 20 00

Continuation:

June 8 iP 02 56 18
i 26
i 57 53
8 iP 16 30 42
eS 39 25
eScS 40 47
eG 47.0
eR 49.5
Distance 70°
9 eP 05 23 32
i 37
9 eP2 11 36 43
ePP1 38 26
e 40 23
14 iS 47 27
iPS 49
e 48 35
i 49 15
iSS 52 49
iSSS 57 07
iG 12 00.1
iR 03.5
2 Distance 85°
Magnitude 6 1/4
mu sec
PZ 0.2 1
PH 0.04 1
PPZ 0.15 2
MH 10 20
MZ 7 20
9 eP 17 59 04
10 iP 09 19 31
10 iP 21 23 34
iS 33 05
ePS 49
eSSS 41 25
iG 42 41
eR 44.4
Distance 76°

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Continuation:
June 30

iP 20 05 16
i
eS 29
eG 10 34
eR 13.2
14.9

Distance 35°
July 1 iP 08 08 35
i 51
eS 16 24
eSS 20.1
eG 22.5
eR 24.5

Distance 58°
2 e(P) 04 37 43
eS 43 34
eL 47.4
2 eP 12 14 24
i 52
i 15 57
eSKS 24 45
eS 27 16
iSS 36.2
iSSS 39.9
iG 47.4
iR 52.7

Distance 120°
3 eP 03 27 12
e 23
eS 33 48
eSS 37.1
iG 37.9
iR 39.4

Distance 47°
3 iP 07 24 31
i 50
eS 30 44
eG 34.0
eR 35.5

Distance 43°
3 eP 10 25 48
3 iP 20 29 07
Dilatation from
northwest
i 20 29 24
i 30 47
iPP 55
iS 35 48
iSS 39.0
eG 39.3
iR 41.1

Distance 47°
Magnitude 7

July 3

PZ 1 1½
PH 0.2 2½
PPZ 1½ 2½
SH 6 8
MH 35 13
iP 23 00 46

Dilatation
i 23 00 54
iP 02 00 19
iP!2 04 33 12
Compression from
northwest
iS \ 04 37 00
eL 38.6

Distance 20°
Magnitude 6½ - 6¾

mu sec
PZ 4 1½
PH 5 2
SH 77 15
MH 146 20
MZ 85 20
iP 08 11 29
eP 08 55 57
iP 09 52 23
eP 11 17 51
eP 12 56 23
i 28

iP? 13 14 43
Compression from
northwest
i 13 15 07
e 17 11
iS \ 18 36
iL 19.7

Distance 20°
Magnitude 6

mu sec
PZ 1 1
PH 0.6 1½
SH 5 7
MH 7¾ 20
MZ 5¼ 20
eP 18 26 17
iP 21 42 09
i 34

Violet M. Taylor
Seismological Assistant

KEW OBSERVATORY
19 JUL 1960
RICHMOND, SURREY.

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Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 July 15, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

July 2	eP	22 01 38
	i	53
3	eP	05 24 08
4	eP	04 21 19
4	eP	13 58 07
5	iP	21 24 32

Continuation:

July 5	iP	05 16 23
	eS	23 12
	eSS	26 36
	eG	27.9
	eR	29.5

5		Distance 48°
	iP	05 58 00
	iS	06 08 20
	iSS	14.1
	eSSS	17.5
	eG	20.5
	iR	21.9

6		Distance 84°
	i(P)	05 35 26
7	eP	15 59 52
	e	16 00 02
7	eP	16 56 00
7	eP	17 50 18
7	iP	21 53 34

8	i(P)	10 17 33
8	iP	13 04 14
8	eP	15 36 00
8	eP	16 18 47
9	eP	00 32 05
9	eP	02 16 11

10	iP"	00 24 37
	ePPI	26 57
	iSKP	27 59
	eSKS	31 53
	eSKKS	33.8
	eSKSP	37.1
	ePS	37.3
	e	39.0
	iSS	45.7
	iSSS	49.9
	iG	59.1

	eR	01 03.7
		Distance 130°
		Magnitude 6½

		mu	sec
	PPZ	0.9	3
	MH	3½	20
	MZ	3½	20

July 10	eP	13 47 17
	e	23
11	iP	12 02 33
11	iP	12 06 34

Dilatation from southwest
 7
 eS 12 16 25
 iSS 20.2
 eG 24.9
 eR 27.1

Distance 74°
 Magnitude 6

		mu	sec
	PZ	0.1	1½
	PH	0.1	1½
	SH	3½	20
	MH	3½	20

13	eP"	08 15 30
	ePPI	18 02
	ePPP	21.0
	eSKS	22.4
	ePS	28.0
	eSS	36.3
	eSSS	40.6
	eG	52.1
	eR	58.3

2
 Distance 130°
 Magnitude 6

		mu	sec
	PPZ	0.2	2
	MH	3½	20
	MZ	3½	20

13	i(P)	14 41 26
13	e	16 29 30
14	eP	10 41 20
	eP"	45 14
	ePP	46
	eSKS	51.9
	ePS	55.0

	eSS	11 01.0
	eSSS	04.7
	eG	11.2
	eR	15.6

2
 Distance 108°

		mu	sec
	MH	3	20
	MZ	3	20

15	iP	05 22 06
	i	16

Violet M. Taylor
 Seismological Assistant

SEISMOLOGICAL LABORATORY
 220 North San Rafael Ave.
 Pasadena 2, California
 July 26, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

July 9	eP	21 30 48
11	eP	07 10 57
13	eP	02 41 56
13	eP	13 42 21
13	eP	17 15 01
14	eP	10 56 27

Continuation:

July 16	iP	04 55 55
	e	56 30
16	e(P)	10 16 44
16	iP	16 53 33
16	eP	17 29 23
16	iP	21 27 41
16	e	22 10 55
17	e	02 06 48
17	iP	09 14 58
18	iP ²	01 56 26
	i	40
	e(PP) ¹	59 34
	ePPP	02 00 09
	eS	07 36
	ePS	08 36
	eSS	13.5
	iG	21.8
	iR	25.2
	Distance	94°
	Magnitude	6½ - 6¾
	mu	sec
	PZ	0.4 1
	PH	0.15 1
	PPZ	0.1 1
	MH	6 20
	MZ	4 20
18	eP	03 30 44
18	eP	07 58 34
	i	44
18	iP	19 10 34
	i	41
19	iP	04 28 44
	e	29 56
	eS	36 26
	e	36
	eSS	40.7
	eG	42.9
	eR	46.4
	Distance	60°
19	iP	16 09 07
	ipP	49
19	iP	18 42 11

July 20	iP	09 40 59
	Dilatation	
	i	09 41 43
	eS	49 40
	e(SS)	53.3
	eG	56.6
	eR	59.2
	Distance	66°
20	iP ¹	21 11 57
	ePP ¹	15 03
	iS	22 36
11	iPS	23 42
	ePPS	24 06
	eSS	28.5
	eSSS	31.9
	eG	34.8
	eR	37.4
2	Distance	87°
	Magnitude	6 - 6¼
	mu	sec
	PZ	0.15 1
	PPZ	1½ 4
	MH	3½ 20
	MZ	3½ 20
23	iP	07 42 47
24	iP ²	09 58 37
	i	51
	i	59 01
	iPcP	35
13	iPP ¹	10 00 46
	ePPP	02 07
	iS ¹	06 23
	iSS	10.2
	iG	12.8
	iR	15.2
2	Distance	58°
	Magnitude	6¼
	mu	sec
	PZ	0.2 1
	PH	0.1 1
	PPZ	0.2 2
	SH	9 30
	MH	3½ 20
	MZ	3 20

Violet M. Taylor
 Seismological Assistant

KEW
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 - 3 AUG 1960
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- 5 AUG 1960

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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
July 29, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



53

Correction:

May 31

iP 05 52 32
Dilatation
i 05 52 40
i 53 02
ePP 55 48
iS 03 02 53
iPS 03.8
eSS 08.7
iSSS 11.9
iG 14.6
eR 19.6

Should read:

iP 02 52 32
Dilatation
i 02 52 40
i 53 02
ePP 55 48
iS 03 02 53
iPS 03.8
eSS 08.7
iSSS 11.9
iG 14.6
eR 19.6

Continuation:

July 25

iP 03 50 50
Dilatation
ipP 03 51 07
iS 58 40
iSS 04 02.7
iG 05.1
e(R) 09.3
eP'P' 19 56
e 20 11
Distance 60°
Depth 60 km
Magnitude 6½

	mu	sec
PZ	0.4	1½
SH	8	16
MH	7	20
MZ	7	20

25
25
iP 10 38 06
iP! 2 11 21 56
Compression from
northwest

ipP 11 22 16
isP 31
iPP 24 10
i 26 33
iS 29 55
isS 30 52
iScS 31 33
eSS 33.8

July 25

isSS 11 34.8
iG 36.9
iR 39.8
eP'P' 51 07
e 31

Distance 60°
Depth 100 km
Magnitude 7

	mu	sec
PZ	1	1½
PH	0.6	1
PPZ	1	1½
SH	20	11

27

Dilatation followed
by sharp compression

eS 10 28 27
i(PS) 29.5
iSS 33.8
iSSS 37.8
iG 41.3
iR 42.8

Distance 87°
Magnitude 6¼ - 6½

	mu	sec
PZ	0.5	2
PH	0.3	2
SH	3½	18

29

eP 2 00 36 58
eSKS 47 28
eS 46

ePS 48.7
ePPS 48.9
iSS 53.6
iSSS 57.0

eG 01 00.0
eR 03.7

2
Distance 88°
Magnitude 6½ - 6¾

	mu	sec
PZ	2	5
PH	2	5
SH	2	10
MH	9	20
MZ	10	20

Violet M. Taylor
Seismological Assistant

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- 8 AUG 1960

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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

August 3, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Continuation:
July 29

11
2
iP2 17 43 21
i 36
iSt 52 56
eScS 53 28
iSS 57.2
iSSS 18 01.1
iG 03.0
iR 06.1

Distance 74°
Magnitude 6 $\frac{3}{4}$

mu sec
PZ 0.4 1 $\frac{1}{4}$
PH 0.3 1
SH 26 19
MH 58 22
MZ 44 20
30 iP 14 22 14
e 24 15
e(S) 30.1
eG 36.2
eR 39.3

31
14
2
eP2 03 09 07
i 22
ePP 12 58
eSKS 19 48
iSt 20 26
iPS 21 36
ePPS 22 36
iSS 27.1
iSSS 30.5
eG 35.1
eR 38.1

Distance 96°
Magnitude 6 $\frac{3}{4}$

mu sec
PZ 0.2 1
PH 0.1 1
SH 2 5
MH 30 20
MZ 45 20
31 iP 07 17 53 ✓
eS 29 08
ePS 30 28
eSSS 39.3
eG 45.1
iR 48.6

Distance 102°
Magnitude 6 $\frac{1}{2}$

mu sec
PZ 0.2 1 $\frac{1}{2}$
MH 3 20
MZ 3 20

July 31

iP 15 07 42
eS 18 38
ePS 19 28
ePPS 48
eSS 24.1
eSSS 27.6
eG 31.1
e(R) 36.2

Aug. 2

Distance 82°
iP2 05 20 01
Compression from
northwest
i 05 20 26
ePP2 23 27
ePPP 25 34
15 iSt 30 39
ePS 31 18
ePPS 32 20
eSS 36.1
eSSS 40.1
eG 43.4
iR 47.7

2
Distance 86°
Magnitude 6 $\frac{1}{2}$

mu sec
PZ 0.7 2
PH 0.1 1
PPZ 0.3 2
PPH 0.2 2
SH 3 10
MH 3 $\frac{1}{2}$ 20
MZ 3 $\frac{1}{2}$ 20
2 e(P) 06 23 13
2 iP 09 42 52
i 43 03
eS 53 20
ePS 54 28
eR 10 08.1
2
Distance 84°
iP 13 50 03
eS 56 20
eG 59.5
eR 14 01.2
Distance 40°

Violet M. Taylor
Seismological Assistant

16 AUG 1960
RICHMOND,
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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)
August 12, 1960



Correction:
July 31 iP 07 17 13
Should read:
iP 07 17 53 ✓

Additional:
July 19 eP 02 50 42
20 e(P) 21 50 51
21 eP 08 07 44
24 eP 01 22 25
24 eP 02 35 06
24 eP 10 43 43
24 eP 23 27 07
25 e(P) 15 40 30
e 41 01
27 eP 13 40 10
28 eP 06 37 01
28 eP 09 15 37
28 eP 10 48 21
28 eP 21 12 08
30 eP 02 13 55
30 eP 14 16 23

Continuation:
④ iP₂ 07 43 28
ePP 45 34
iS\ 50 22
⑩ eScS 53.3
iSS 54.1
iG 55.1
② eR 56.9
Distance 50°
Magnitude 6 - 6 $\frac{1}{4}$

	mu	sec
PZ	0.6	2
PH	0.2	1 $\frac{1}{2}$
SH	19	17
MH	21	20
MZ	14	20
4 eP	07 48	06
e		46
4 eP	07 50	34
4 iP	11 28	16
5 eP	08 49	54
5 iP	16 16	50
5 ipP	17	03
5 iP	22 36	16
eS	43	09
eG	47.0	
eR	49.9	
Distance	50°	

Aug. 6 iP 15 02 26
e 34
9 iP 06 21 21
eS 30 40
eSS 35.4
eG 39.4
eR 43.5
Distance 72°
⑨ e(P) 06 31 28
⑨ iP 07 41 36
Dilatation from northwest
iL 07 43.8
Distance 13°
mu sec
MH 100 10
⑨ iP₂ 16 58 36
ePP₁ 17 01 45
9 iS\ 08 52
iSS 13.5
eG 19.3
2 eR 23.1
Distance 82°
Magnitude 6 - 6 $\frac{1}{4}$

	mu	sec
PZ	0.1	1
PH	0.1	1
PPZ	1	3
SH	1	10
MH	3 $\frac{1}{2}$	20
MZ	5	20
9 iP	23 49	44
e(S)	24	01.0
eG	11.5	
eR	15.5	
Distance	85°	
10 iP	12 46	29
i		59
10 eP	12 55	29
e	56	04
11 iP	02 45	05
11 eP	05 04	37
11 iP	05 08	51
e	09	07

Violet M. Taylor
Seismological Assistant

26 AUG 1960

RICHMOND, SURREY.

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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California

August 23, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



International Seismological Centre

Additional:

Aug. 1	eP	18	37	58
1	eP	20	29	21
4	iP	09	17	09
4	eP	14	14	06
6	eP	17	46	27
7	eP	10	12	01
7	eP	22	34	42
8	eP	01	28	49
8	eP	09	20	11
9	eP	07	07	52
9	eP	18	28	44
11	eP	05	20	15

Continuation:

Aug. 12	eP	10	20	14
12	e(P)	10	41	49
12	eP	13	24	29
	i			40
	eS		34	17
	eSS		39.0	
	eSSS		42.8	
	eG		44.6	
	eR		47.9	

Distance 80°

12	eP	15	49	21
13	iP	04	35	05
13	iP ²	07	22	45
	ipP			58
	ePP\		25	39
	eS		32	25
	eSS		37.1	
	eSSS		41.0	
	eG		42.5	
	eR		45.8	

Distance 78°
Magnitude 6

		mu	sec
PZ		0.1	1
PH		$\frac{1}{4}$	1
PPZ		0.1	1
MZ		$3\frac{1}{2}$	20
13	iP!	14	27 25
	Dilatation from southwest		
i		14	29 16
iS			37 49
e(PS)			38 06
iSS			42.7
eSSS			47.0
eG			49.8
eR			54.5

Distance 82°
Magnitude $6\frac{3}{4}$ - 7

Aug. 13

PZ	mu	sec
PH	0.8	1
SH	0.4	1
MH	10	13
MZ	26	20
13	iP	20 20
13	iP	14 41 22
13	iP	17 17 31
14	iP!	22 57 32
	Dilatation	
i		22 57 40
15	iP	05 45 03
i		13
15	iP	06 06 50
16	iP	02 58 04
16	iP	10 50 50
19	iP	12 53 34
19	iP	17 13 23
20	iP	00 25 44
i		26 00
eS		31 26
eG		34.1
eR		34.9

Distance 38°

20	ePP\	20	28	38
	ePS		38	28
	eSS		44.9	
	eSSS		49.4	
	eG		57.8	
2	eR	21	04.9	
	Distance 125°			
	Magnitude 6			

		mu	sec
PPZ		0.1	2
MH		5	20
MZ		5	20
21	iP	00	31 44
21	iP	01	12 33
21	eP	13	07 23
	i		48
	eS		18 38
	eSS		23.4
	eSSS		27.1
	eR		34.1

Distance 86°

21	eP	17	32	35
	eS		42	08
	eScS			44
	eG		51.3	
	eR		53.1	

Distance 73°
Violet M. Taylor
Seismological Assistant

**KEW
OBSERVATORY**

- 5 SEP 1960

**RICHMOND,
SURREY.**

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
September 2, 1960

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**PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)**

Correction:

Aug. 19 iP 19 13 23
i 35
Should read:
iP 17 13 23
i 35

Additional:

Aug. 18 eP 20 58 11
18 e(P) 22 56 29
19 eP 04 09 30
19 eP 12 14 43

Continuation:

Aug. 23 iP 22 56 24
iS 23 05 58
ePS 06 22
iG 15.1
eR 17.5

Distance 72°
Magnitude 6

	mu	sec
MH	6	20
MZ	5	20
24 iP	01 53	59
i	54	22
iS	02 01	36
eSS	05.5	
eG	07.8	
eR	11.1	

24 Distance 60°
eP 06 00 42
i 01 03
eS 10 26
eScS 11.1
eSS 15.0
eG 19.9
eR 23.1

25 Distance 77°
i(P) 17 29 53
25 iP 17 49 43
e(PS) 55 35
eS 49
eG 58.9
eR 18 01.1

26 Distance 40°
iP 18 39 57
eSKS 50 29
ePS 51 29
ePPS 52.2
eG 19 02.4
eR 06.7

27 Distance 89°
iP 18 26 26
iPP 27 04
isP 20

Aug. 27 eS 18 34 49
esS 36 04
eG 44.1
eP'P' 55 01
Distance 66°
Depth 150 km
Magnitude 6 - 6 1/4

28 eP 06 13 30
eS 20 15
eSS 23.7
eR 27.4
Distance 49°

29 eP 05 01 38
eS 08 25
eSS 11.9
eG 12.5
eR 15.6

30 Distance 49°
iP 06 54 47
e 58
e 55 13
iS 07 02 37
eSS 06.6
eG 08.7
eR 11.2

31 Distance 58°
iP 07 25 45
eS 33 33
eSS 37.4
eG 39.6
eR 42.2

Sept. 1 Distance 60°
eP 07 46 57
eS 57 17
ePS 58.5
eSS 08 06.0
eG 07.7
eR 11.2

Distance 80°

Violet M. Taylor
Seismological Assistant

**KEW
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12 SEP 1960

RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
September 7, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



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Additional:

Aug. 20 eP 00 28 43
e 56

Sept. (2) iP 22 10 37
i 50

Continuation:

Sept. (1) eP 09 41 07
eSKS 51 29

e 13 27
e 15 57
iS 16 52

8 ePS 52.7
eSS 57.6

eG 19.5
eR 20.2

2 eG 10 04.1
eR 07.7

2 Distance 40°
Magnitude 5 $\frac{3}{4}$ - 6

2 Distance 89°
Magnitude 6

mu sec
PZ 0.15 1

MH 7 20

SH 1 $\frac{1}{4}$ 5

(1) MZ 5 20

MH 13 20
MZ 15 20

8 eP 10 47 44

2 iP 22 16 19
3 eP 05 53 29

eSKS 58 21

ePcP 51

eS 29

eS 06 03 09

iPS 59.4

ePS 04.2

2 eG 11 10.8

eG 13.1

eR 14.6

eR 16.7

2 Distance 90°
Magnitude 6

3 Distance 76°

MH 3 $\frac{1}{2}$ 20

iP 07 59 19

MZ 5 20

(3) Compression

(1) iP2 15 43 49

iP 2 12 53 55

i 58

Dilatation

10 iPP2 45 14

ipP 12 55 44

iS 49 09

iPP2 57 38

iG 51.3

iPPP 59.8

2 eR 52.6

eS 13 04 19

2 Distance 35°
Magnitude 6 - 6 $\frac{1}{4}$

eSP 05 34

PZ 0.15 1

ePS 06 24

PH 0.05 1

esS 07 15

PPZ 0.2 1 $\frac{1}{2}$

eSS 10.5

PPH 0.2 1 $\frac{1}{2}$

esSS 13.1

SH 3 8

eG 19.9

MH 18 18

Distance 90°
Depth 500 km
Magnitude 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$

MZ 14 20

mu sec
PZ 1 $\frac{1}{2}$ 1

1 iP 15 47 21

PH 0.5 1

1 iP 15 50 17

PPZ 0.2 1 $\frac{1}{2}$

1 iP 18 53 04

PPH 0.5 3

i 18

1 i(P) 20 13 54

e(S) 24 42

eL 36.6

2 iP 11 04 47

i 05 18

2 iP 18 44 31

e 54

Violet M. Taylor
Seismological Assistant

19 SEP 1960

RICHARD D.
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
September 13, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Additional:

Aug. 25 eP 12 14 02
28 iP 00 35 49
28 eP 05 46 47
31 eP 11 39 47
Sept. 1 eP 11 27 51

Continuation:

Sept. 3 iP₂ 23 57 25
i 43
iPcP 54
eS 24 06 29
iSS 11.0
iSSS 14.5
eG 15.5
iR 18.0

Distance 70°
Magnitude 6 $\frac{1}{4}$

mu sec

PZ 0.1 1

PH 0.2 2

SH 1 6

MH 3 $\frac{1}{2}$ 20

MZ 3 $\frac{1}{2}$ 20

4 eP 05 27 53

eS 33 13

eG 35.5

iR 36.7

Distance 35°

6 iP! 14 15 45

Compression

ePP 14 19 02

eS 26 49

ePS 27.6

e 29.6

eSS 32.2

eSSS 36.2

eG 39.3

eR 43.2

Distance 87°

Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$

mu sec

PZ 0.2 1

PH 0.1 1

PPZ 0.6 3

7 eP 01 37 43

i 38 02

eL 02 07.9

7 eP 11 56 11

eS 12 06 06

eSSS 14.3

eG 15.9

eR 17.9

Distance 76°

Sept. 8 ePP 11 26 07
eSKS 32 30
ePS 35.6
eSS 41.6
eG 52.2
iR 56.5

Distance 110°

8 iP 14 42 06

Compression

ipP 14 42 22

10 iP 10 07 43

iL 29.3

10 eP 11 02 23

10 iP 11 05 03

ePP 06.9

i 08 10

eS 11 48

eG 15 38

iR 18 10

Distance 47°

10 ePP 11 08 14

iSS 22 28

iSSS 25.6

eG 28.3

iR 31.4

Distance 90°

10 iP 14 17 16

eSKS 27 54

eS 28 50

eSS 36.3

eG 43.8

eR 47.6

Distance 98°

10 eP 15 10 18

12 iP 02 51 18

i 55

12 iP₂ 12 30 17

i 30

ePP 31 42

eSKS 40 55

ePS 42.5

eSS 47.9

eSSS 51.2

eG 54.5

eR 59.2

Distance 93°

Magnitude 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$

mu sec

PZ 0.3 1 $\frac{1}{4}$

PH 0.1 1

PPZ 0.1 1 $\frac{1}{2}$

Violet M. Taylor
Seismological Assistant



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KEW OBSERVATORY
27 SEP 1960
RICHMOND, SURREY.

63. ✓

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 September 21, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)
 Sept. 15



Additional:
 Sept. 5 eP 07 51 09
 6 iP 15 36 08
 8 eP 08 18 30
 8 eP 10 59 01
 9 eP 10 33 25
 9 iP 16 30 00
 9 eP 17 12 40
 9 iP 20 15 18
 11 eP 08 08 17

Continuation:
 Sept. 12 iP 16 19 59
 Dilatation
 eS 16 28 22
 eSS 33 04
 eG 35 54
 eR 37 26
 Distance 66°
 13 iP 03 20 57
 iPcP 21 20
 eS 29 36
 iScS 30 34
 eSS 34 30
 Distance 68°
 Depth 60 km
 13 iP 17 57 35
 Dilatation
 eS 17 07 38
 eL 12 36
 Distance 77°
 14 iP 02 01 38
 eS 11 22
 ePS 12 02
 eSS 16 06
 eG 21 02
 eR 23 22
 Distance 75°
 14 eP 05 08 25
 i 41
 eS 17 40
 iPS 18 28
 eSS 21 58
 eSSS 25 42
 iG 27 10
 eR 29 30
 Distance 72°
 14 iP 23 30 30
 eS 40 20
 ePS 41 06
 eSS 45 02
 eG 49 38
 e(R) 51 22
 Distance 75°

Sept. 15 iP! 18 09 43
 Compression
 eS 18 19 22
 eL 32 24
 Distance 76°
 17 iP 08 03 15
 eS 11 44
 eSS 15 42
 iG 19 10
 iR 21 46
 Distance 65°
 17 iP2 08 15 55
 i 16 11
 i 21
 iP\ 17 20
 iS\ 23 42
 iScS 24 48
 iG 31 50
 e(R) 34.5
 iP\ 45 00
 Distance 62°
 Depth 400 km
 Magnitude 6
 mu sec
 PZ 0.8 1½
 PH 0.2 2
 pPZ 0.2 1½
 SH 1 5
 17 iP 13 11 50
 eL 39 38
 17 eP\ 20 07 57
 i 08 09
 i 19
 eS\ 17 51
 eSS 22 32
 eSSS 26 18
 iG 27 44
 eR 31 14
 2 Distance 76°
 Magnitude 6¼
 mu sec
 PZ 0.3 2
 SH 1½ 5
 MH 1½ 20
 MZ 3½ 20
 18 eP 09 58 59
 ePP 10 03 18
 iPPP 05 30
 eSKS 09 26
 ePS 11 20
 e(SS) 16 16
 eG 26 58
 eR 30 18
 Distance 100°

Violet M. Taylor
 Seismological Assistant

**KEW
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- 4 OCT 1960
**RICHMOND,
SURREY.**

Seismological Laboratory
220 North San Rafael Avenue
Pasadena 2, California
September 30, 1960
PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

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Additional:

Sept. 12 eP 02 53 44
12 eP 18 05 54
14 iP 16 35 16

Continuation:

Sept. 19 iP 02 13 17
eP 19 06 07
iP 19 09 49
ipP 10 39
iPcP 11 14
isPcP 12 19
iS 16 41
isS 18.3
e 20.3
i(G) 22.6
iR 24.0
Distance 50^o
Depth 200 km
Magnitude 6

	mu	sec.
PZ	0.5	1 1/4
PH	0.2	1 1/4
pPZ	0.8	2 1/2
SH	1 1/4	5
MH	30	30
MZ	15	20

20 iP 03 48 09
eS 58 30
ePPS 59.8
eSS 04 03.7
iG 10.0
eR 13.8
Distance 84^o
21 iP 03 51 25
iP 07 37 32
e 08 05 46
eP 10 46 04
eS 51 46
eG 54.8
iR 56.6
Distance 38^o

eP 12 50 57
eP 16 21 18
22 eP 02 17 47
e(P) 06 10 42
eSKS 21 58
ePS 23.7
ipPS 25.1
eSSS 33.7
eG 38.2
eR 42.3
Distance 104^o

Sept. 22

eP 09 33 43
eP" 36 58
i 38 02
eSKS 44 12
i(PS) 49.4
i(PPS) 50.8
eSS 55.2
iSSS 10 00.4
iG 07.8
iR 14.6

Distance 120^o
* Magnitude 6 1/4

23 eP 22 54 37
i 01 31 06
iP 23 28 58
24 eP 14 04 06
iP 14 07 49
e 08 21
25 eP 15 50 51
eP 17 42 43
26 iP 00 44 00
iP 15 21 19
i 50
eS 27 58
eG 31.5
eR 33.5

Distance 46^o
iP 17 08 54
ipP 09 22
27 iP 02 26 39
iP 06 00 03
ipP 20
iP 18 48 30
i 54
29 iP 06 38 59
i 39 31
eS 47 51
eSS 52.7
eG 56.7
eR 58.6
Distance 68^o

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*		mu	sec
22	MH	8	20
	MZ	5	20

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October 4, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Continuation:
Sept. (29)

18

iP2	11	30	44
i		31	12
ipP2		32	22
isP		33	02
iPP1		34	16
iPPP		36	11
iSKS		40	25
iS1			32
iSP		41	27
iPS		42.5	
isPS		44.2	
iSS		46.4	
iSSS		50.1	
iG		54.3	
ipP"P"		58.4	
iSKPP1		59	35

Distance 85°
Depth 400 km
Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$

	mu	sec
PZ	0.8	1 $\frac{1}{2}$
PH	0.2	1 $\frac{1}{4}$
pPZ	0.15	1
pPH	0.1	1
PPZ	0.2	1 $\frac{1}{2}$
SH	6 $\frac{3}{4}$	6

29	ePP	19	01	00
	eS		06.0	
	eSS		10.1	
	eG		11.3	
	eR		12.5	

(30)	Distance	53°
	iP2	06 39 13
	i	40 18
	eG	42.1
	eR	42.7
	eLg	44.3

Distance 17°
Magnitude 5 $\frac{1}{2}$ - 5 $\frac{3}{4}$

	mu	sec
PZ	0.4	2
PH	0.2	2
MH	7	20
MZ	7	20

Oct. (1)	eP2	16	18	47
	iP!			51
	ipP		19	20
	isP			26
	iPP1		20	53
	iS1		25	29
	eScS		28	41
	iSS		29.0	

Oct. 1	iG	16	29.7
	iR		31.3
	Distance	45°	
	Depth	60 km?	
	Magnitude	6 $\frac{1}{2}$	
		mu	sec
	PZ	2	2
	PH	1	2
	PPZ	0.6	1 $\frac{1}{2}$
	SH	2	5
	eP	12	05 30
	e		38
	eS		15 19
	eSS		19.9
	eSSS		23.5
	eG		26.2
	eR		29.7
	Distance	77°	
	eP	05	23 02
	e(SKS)		33 17
	eS		27
	ePS		34.1
	eSS		38.6
	eSSS		42.4
	eG		45.3
	e(R)		50.2
	Distance	85°	
	eP	20	10 03
	e		13 28
	e(P)	10	04 13
	eSKS		14 39
	eS		15 11
	ePS		16.2
	eSS		20.6
	eSSS		25.1
	eG		29.2
	eR		32.5
	e(Lg)		37.7
	Distance	90°	

RICHMOND OBSERVATORY, 216 WEST 11TH STREET, PASADENA, CALIFORNIA

Violet M. Taylor
Seismological Assistant

**KEW
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**17 OCT 1960
RICHMOND,
SURREY.**

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
October 11, 1960

**PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)**



Additional:

Sept. 26	iP	03 42 38
26	eP	08 59 40
26	eP	11 49 07
26	eP	21 21 44
28	iP	17 45 51
29	eP	12 45 18
29	eP	21 53 42
29	iP	22 24 30

Compression

	ipP	22 25 00
30	eP	01 49 37
30	e	03 24 20
30	eP	07 49 43
30	eP	14 57 13
Oct. 1	eP	09 40 01
1	eP	16 09 46
1	eP	16 30 59
2	eP	02 31 41

Continuation:

Oct. 6	iP	16 29 01
6	eP	20 05 49
	e	09 31
	eS	14 03
	e(SS)	17.7
	e(L)	23.8
7	iP	15 33 11
	i	25
	iP	37 06
	iPP	47
	eSKS	43.7
	eS	45.7
	iPS	47.2
	iSS	53.5
	eG	16 04.3
	iR	10.2
	Distance	112°
7	iP	20 10 43
	eS	18 29
	eScS	20.6
	eG	24.3
	Distance	58°
8	iP	01 07 26
8	iP	01 57 12
	iS	02 01 53
	eG	03.4
	Distance	28°
(8)	iP! 2	06 04 29
	Compression	
	i	06 05 37
	ipP	59
	i	06 43
	iPP	07 54

Oct. (8)	iS!	06 13 38
	i	17 47
	iSS	19.4
	eSSS	23.0
	iR	26.6
	e(P'P')	33 15
	Distance	80°
	Depth	300 km
	Magnitude	6½ - 6¾

	mu	sec
PZ	1½	1½
PH	0.4	1
PPZ	4	1½
SH	4	5

Interpretation
doubtful

(9)	iP 2	09 12 17
	i	23
	i	35
	iPP1	14 56
	iPPP	16 42
	iS1	21 47
	iPS	22 23
	iSS	26 37
	iSSS	30.3
	iG	32.1
	iR	35.8

Distance 74°
Magnitude 6¼

	mu	sec
PZ	0.4	1½
PH	0.05	1
PPZ	0.1	1
SH	2	7

9	iP	10 02 36
	e	03 05
11	eP	08 07 47
	i	08 25
	iG	10 22
	iR	11.2

Distance 16°

Violet M. Taylor
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Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 October 21, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

Oct. 5	eP	10 41 19
6	eP	16 31 47
	i	55
6	iP	16 33 22
7	eP	03 25 33
7	eP	11 20 22

Continuation:

Oct. 12	iP	09 22 40
	eS	32 11
	ePS	43
	eG	41.1
	eR	43.5
	Distance	73 ⁰
13	iP!	15 02 25
	iPcP	03 23
	iPP	04 37
	ePPP	05 53
	i	07 16
	iS	10 16
	iScS	12.3
	iSS	14.3
	iG	16.7
	iR	19.2
	eP!P!	32 22
	Distance	57 ⁰
	Magnitude	6 $\frac{3}{4}$

	mu	sec
PZ	1	2
PH	0.2	1
SH	3	4
MH	16	20
MZ	35	20
13 iP	15	08 28
14 iP	13	18 03
14 eP	18	00 57
		11 27
		17.0
		20.7
		23.2
		27.9
		83 ⁰
(14) iP! 2	21	27 04
	Dilatation from southwest	
i	21	28 13
iPP		49
iPPP	29	15
iS	33	26
eG		36.8
iR		38.2
		42 ⁰
		6 $\frac{1}{2}$

Oct. 14

	PZ	0.9	1
	PH	0.8	1 $\frac{1}{4}$
	PPZ	0.6	1 $\frac{1}{4}$
	SH	4	7
	MH	77	20
	MZ	14	20
14	iP	23 05 42	
	i	06 02	
16	iP	00 54 31	
16	e(P)	09 40 59	
17	iP	15 54 04	
	i	15	
	iS	16 01 57	
	eG	06.5	
	eR	09.0	
	Distance	46 ⁰	

	mu	sec
PZ	0.4	1 $\frac{1}{2}$
PH	0.3	2
17 iP	19	12 51
17 i(P)	22	21 37
		26 51
		29.8
		31.5
19 eP	12	00 36
20 eP	04	10 46
		11 05
20 i(P)	04	22 28
		24.2
		24.5
		12 ⁰
(20) iP 2	11	18 36
	Dilatation	
i	11	18 48
e		58
e		28 55
		29 11
iS		30.2
i(PS)		40.9
eG		44.9
eR		44.9

2	Distance	82 ⁰
	Magnitude	6 - 6 $\frac{1}{4}$
	mu	sec
PZ	0.7	2
PH	0.1	1 $\frac{1}{4}$
MZ	3 $\frac{1}{2}$	20

Violet M. Taylor
 Seismological Assistant

KEW
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 27 OCT 1960
 RICHMOND,
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Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 October 31, 1960



PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Oct. 22	eP	07 04 08		
	iS	06 43		
(22)	iP!2	08 34 46		
	ipP	35 03		
	i(PcP)	17		
2	iPP	38 13		
	eS	45 10		
	iSS	51.2		
	iSSS	54.7		
	iG	57.9		
2	eR	09 00.4		
	Distance	87°		
	Depth	60		
	Magnitude	6 $\frac{3}{4}$	- 7	
		mu	sec	
	PZ	1 $\frac{1}{2}$	2	
	PH	2	2	
	SH	5	6	
	MH	8	20	
	MZ	8	20	
23	iP	06 42 55		
	eS	51 36		
	eR	07 02.1		
	Distance	65°		
24	eP	05 24 35		
	ipP	25 04		
	eS	34 14		
	eG	44.3		
	eR	47.4		
	Distance	77°		
	Depth	100 km.		
24	iP	17 22 30		
	eG	47.9		
	iR	53.5		
	Distance	95°		
		mu	sec	
	PZ	0.1	2 $\frac{1}{2}$	
	MH	1	20	
	MZ	$\frac{3}{4}$	20	
27	eP	04 44 26		
27	eP	05 32 54		
(28)	iP'	04 29 14		
	i	22		
	iS	37 52		
	iSS	42 02		
	iG	44 52		
	iR	46.6		
2	Distance	65°		
	Magnitude	6 $\frac{3}{4}$		
		mu	sec	
	PZ	0.2	1 $\frac{1}{2}$	
	SH	5	6	
	MH	9	20	
	MZ	4	20	
28	e(P)	05 20 56		

Oct. (28)	iP'	13 28 19		
	compression			
	ipP	38		
	iS	36 24		
	eSS	40 18		
7	iG	43 32		
	iR	46 22		
	iP'P'	57 36		
	Distance	63°		
	Depth	80 km.		
	Magnitude	7±		
		mu	sec	
	PZ	6	3	
	SH	10	18	
	GH	15	35	
	RZ	12	35	
(28)	eP	22 41 26		
	i	42		
	iS	51 20		
	iSS	54 44		
9	i(SSS)	56 28		
	eG?	23 01.8		
	iR	05 16		
2	Interpretation			
	uncertain.			
		mu	sec	
	MN	3 $\frac{1}{2}$	20	
	MZ	4	20	
29	iP	04 27 53		
	eG	44 30		
	eR	48 18		
	Distance	63°		
29	iP	09 49 00		
	i	16		
	eS	58 24		
	eSS	10 03 08		
	iG	07 16		
	eR	10 12		
	Distance	72°		
29	iP	13 37 00		
30	eP	08 29 34		
30	e?	08 43 26		
	i	45 00		
	eG	09 33.2		
	eR	38.2		

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 - 7 NOV 1960
 RICHMOND,
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 Seismological Assistant

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 November 7, 1960

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:

Oct. 26 iP 14 59 51
 26 eP 16 47 44
 i 52
 27 iP 00 37 41
 i 49
 27 iP 14 48 35

Continuation:

Oct. 30 iP² 12 26 03
 i 30 52
 10 iS¹ 35 32
 iSS 40.2
 iSSS 43.6
 iG 45.7
 iR 49.6
 2 Distance 76⁰
 Magnitude 6³/₄
 mu sec
 PZ 3¹/₂ 3
 PH 1 3
 SH 5 8
 MH 7 20
 MZ 3 20
 30 iP 13 23 23
 30 iP 16 26 36
 30 iP! 2 21 44 21
 dilatation from
 southeast
 ipP 21 44 27
 isP 57
 i 45 11
 9 iS¹ 53 47
 i 54 34
 e(G) 22 04.4
 e(R) 09.4
 Distance 78⁰
 Depth 100 km
 Magnitude 6³/₄
 mu sec
 PZ 1 1¹/₂
 PH 1 1¹/₄
 SH 1¹/₂ 6
 31 eP 07 05 08
 eS 24
 Nov. 1 iP! 2 08 58 22
 dilatation from
 southeast
 i! 08 58 30
 iS! 09 08 42
 iSS 13 24
 ePKKP 16 37
 iSSS 17 32
 12 iG 20.2
 2 eP!P! 24 55

Nov. 1 eP!P! 09 44 59
 Distance 84⁰
 Magnitude 7¹/₄ - 7³/₄

mu sec
 PZ 3 2
 PH 1¹/₂ 3
 SH 8 5
 MH 30 20
 MZ 30 20
 1 iP 12 41 53
 iS 52 20
 iSS 57 56
 iR 13 09 16
 Distance 84⁰

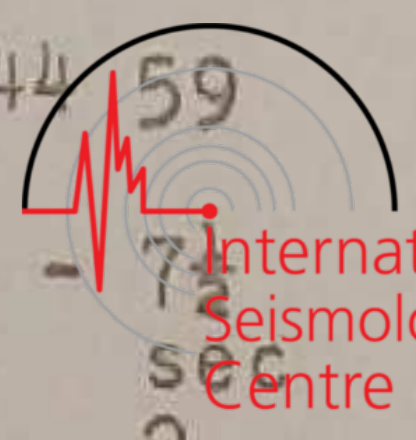
Aftershock?
 2 iP! 2 17 27 29
 dilatation from
 west

17 27 42
 B i 54
 i 37 26
 iS¹ 53
 iSS 43 08
 iSSS 47 07
 iG 49.9
 2 iR 53.2
 eP!P! 53 38

Distance 84⁰
 Depth 50 km
 Magnitude 6¹/₂ - 6³/₄
 mu sec
 PZ 2 3
 PH 1 3
 SH 4 25
 MH 8 20
 MZ 7 20

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 10 NOV 1960
 RICHMOND,
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Violet M. Taylor
 Seismological Assistant



Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 November 11, 1960
 PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

Nov. 1 iP 19 16 42
 2 iP 00 10 45
 2 iP 15 36 24
 ipP 42

Continuation:

Nov. (6) iP1 04 48 17
 compression
 10 i 04 48 27
 i 39
 iPcP 49 02
 iS1 56 25
 iSS 05 00.4
 iG 03.0
 2 eR 05.9
 Distance 61°
 Magnitude 6 $\frac{1}{4}$

	mu	sec
PZ	0.2	1
SH	2	5
MH	12	20
MZ	7	20

(6) iP2 06 27 29
 i 43
 iSKS 38 04

10 ePS 39.3
 eSS 43.7
 eG 50.6

1 eR 53.9
 Distance 89°
 Magnitude 6 $\frac{1}{2}$

	mu	sec
PZ	0.2	1
PH	0.2	1
MH	14	20
MZ	5	20

(6) iP2 22 17 40
 i 49

9 i 57
 iS 24 08
 iG 26.8

2 eR 28.2
 Distance 42°

	mu	sec
PZ	0.15	1
PH	0.1	1
MH	5	20
MZ	7	20

7 iP 13 35 52
 8 iP 05 33 25
 8 eP 05 38 24
 i 37

Nov. (8) iP!2 11 39 20
 dilatation
 i! 11 39 29
 iG 42.4
 iR 43.6

1 Distance 18°
 mu sec

PZ	0.7	1
PH	0.4	1
MH	7	20

8 iP 12 46 29
 9 iP 01 29 00

ipP 32
 isP 49

9 ~~(e) 20 11 55~~

e(P) 17 45
 e(S) 27 15
 e(G) 37.6
 e(R) 41.5

SSS 35

Interpretation
 doubtful

10 eP 05 42 11
 eS 50 49
 eG 59.5
 eR 06 01.7

Distance 67°

(10) iP1 14 58 41
 ePP1 15 02 53

eSKS 09 19
 eS 11 55

eSS 17.4
 eSSS 21.3
 eG 27.0

iR 30.8
 2 Distance 102°
 Magnitude 6 $\frac{3}{4}$

	mu	sec
PZ	0.2	1 $\frac{1}{2}$
PPZ	1	2 $\frac{1}{2}$
PPH	0.8	3
MH	17	20
MZ	20	26

**KEW
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15 NOV 1960

**RICHMOND,
 SURREY.**

Violet M. Taylor
 Seismological Assistant

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 November 23, 1960

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PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Nov. 13

ip2 09 28 09
 dilatation from
 northwest
 iS 09 33 49
 iScP 34 04
 iL 37.7
 Distance 38⁰
 Magnitude 7

	mu	sec
PZ	2 $\frac{1}{2}$	1
PH	1	1
MH	300?	20

13 ip 13 32 04
 13 ip 13 35 41
 13 ip 14 00 03
 14 iPP 20 05 37

i 46
 eS 10 38
 eG 13.6
 eR 14.8

Distance 43⁰
 15 ip 04 12 41
 15 e 06 57 26
 17 ip 04 20 40

eS 31 06
 eG 43.4
 eR 46.8
 Distance 84⁰

17 ip 05 28 49
 i 57
 i 29 04

17 eP 09 01 38
 17 ip 19 54 47
 17 ip 21 35 48
 18 eP 12 54 05

e 43
 20 eP2 22 11 15 small
 i! 22 large
 10 iPP1 12 58
 iS' 18 55

eSS 22.9
 i(G) 25.2
 2 iR 28.0
 Distance 64⁰
 Magnitude 6 $\frac{3}{4}$

	mu	sec
PZ	0.4	1 $\frac{1}{2}$
PH	0.1	1
PPZ	1	2 $\frac{1}{2}$
SH	22	14
MH	56	20
MZ	16	24

Nov. 21

ip 04 41 36
 dilatation
 i 04 41 48
 22 ip 03 43 38
 i 44 17
 iS 53 14
 eG 04 02.5
 eR 04.3

Distance 73⁰
 22 ip1 06 41 57
 ip'2 43 23
 ePP2 47 17
 eSS 07 08.6
 eG 33.8
 eR 42.8

Distance 170⁰
 Magnitude 6 $\frac{3}{4}$

	mu	sec
PPZ	2 $\frac{1}{4}$	4
PPH	2	4
MH	7	20

22 e(P) 07 19 17
 22 ip 2 12 41 24
 Dilatation

i 12 41 33
 i 42 10
 14 ePP2 44 40
 iS' 51 46
 iPS 52.8
 iSS 57.7
 iSSS 13 01.0
 iG 04.5
 2 iR 08.6

Distance 87⁰
 Magnitude 6 $\frac{1}{2}$

	mu	sec
PZ	0.5	1 $\frac{1}{2}$
PH	0.3	2
PPZ	0.4	2 $\frac{1}{2}$
PPH	0.1	1 $\frac{1}{2}$
SH	3	10
MH	5	20
MZ	3 $\frac{1}{2}$	20



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Violet M. Taylor
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KEW
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 28 NOV 1960
 RICHMOND,
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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
November 29, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Revised Interpretation from
air-letter dated November 11,
1960
Nov. 9

eP 20 17 45
i 51
eS 27 15
eSSS 35.6
eG 37.5
eR 41.5
Distance 80°

Additional:
Nov. 18

eP 11 04 42
i 57
iS 06 02
Fort Tejon:
eP 11 04 29
iS 05 46
Tinemaha:
eP 11 04 07
i 11
iS 54

Continuation:
Nov. 23

(23)
iP 04 23 48
e 25 20
iP² 14 24 33
i 41
iS 34 50
ePS 35 40
iSS 39.7
iSSS 43.2
iG 45.1
eR 47.7
2 Distance 80°
Magnitude 6³/₄

	mu	sec
PZ	0.4	1
PH	0.2	1
SH	15	17
MH	45	20
MZ	30	20
23 iP	14	35 32
23 iP	18	08 48
e		19.7
e(G)		29.3
eR		32.8
(23) iP	20	23 16
(24) iP	05	03 16
ePPI		06 59
iPS		15.0
7 eSS		20.3
eG		27.3
eR		31.3

2 Distance 90°
Magnitude 6 - 6¹/₄

Nov. 24

	mu	sec
PZ	0.1	1
PPZ	0.2	2
MH	8	20
MZ	7	20

(24) iP! 07 04 55
compression from southwest

12 iPP 07 08 02
iS! 15 03
iPS 15.9
iSS 19.7
iSSS 23.6
iG 25.3
iR 28.6
2 eP!P! 31 49

Distance 81°
Magnitude 7

	mu	sec
PZ	5	5
PH	2	5
SH	25	30
MH	90	20
MZ	70	20
24 iP	07	45 01
24 iP	08	28 59
24 iP	08	38 27
24 iP	09	40 25
25 iP	22	05 57
i		06 22
eS		16 10
e(SS)		21.5
eSSS		24.8
eG		26.0
eR		29.2

Distance 80°

26 iP 07 48 55
i 49 09
27 iP 15 28 38
27 eS 21 47 08
eSS 52.6
eG 58.8
e(R) 22 04.4

Distance 85°

28 eP 15 11 36
e 54
28 eP 19 58 07
iP 09 44 43
[29] iP 14 20 09
ipP 35

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 December 6, 1960
 PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:
 Nov. 18

Haiwee			
eP	11	04	28
iS		05	20
China Lake			
eP	11	04	26
i			36
iS		05	29
i			36
23	iP	17	41 05
23	eP	18	45 54
23	eP	21	16 01
23	iP	21	25 43
24	iP	07	42 39
24	iP	08	03 00
24	eP	09	28 40
24	iP	18	32 42

Dec. (2)	iP2	09	22	
	i			26
(1)	iS1			31 50
	iS			32 06
	iSS			36.4
	iSSS			37.3
	eG			42.3
2	i(R)			46.7
	Distance 77°			
	Depth 60 km			
	Magnitude 6 $\frac{3}{4}$			

	mu	sec
PZ	0.6	1
PH	0.3	1
SH	10	5
MH	126	28
MZ	45	20

Continuation:
 Dec. 1

1	iP	08	53	19
1	iP	10	25	19
1	eP	10	52	40
	eS	11	02	50
	ePS		03.8	
	eG		13.4	
	eR		16.2	

(2)	iP2	09	49	12
	i			22
	i			30
	i		51	33
7	eS1		58	46
	esS		59	10
	Distance 77°			
	Depth 60 km			
	Magnitude 6 $\frac{3}{4}$			

	mu	sec
PZ	3	2 $\frac{1}{2}$
PH	0.1	1
SH	3 $\frac{1}{2}$	4

(1)	iP2	20	53	45
	iG		56.7	
7	i(S)		57.1	
	iLg		58.7	

2 Distance 18°

	mu	sec
PZ	3	2 $\frac{1}{4}$
PH	1	2
MH	51	20
MZ	38	20
1	iP	21 53 39
	eG	56.8
	e(S)	57.1
	eLg	58.6

Distance 18°

	mu	sec
PZ	1	2
PH	0.2	5
MH	11	20
MZ	10	20
2	iP	04 50 44
	i	50
	i	51 04

(3)	iPP2	04	37	35
	iPPP		40	55
	iPS		48	08
11	iPPS			50
	iSS		55.7	
	eSSS		59.5	
	iG	05	07.5	
	iR		10.3	
2	Distance 128°			
	Magnitude 7			

	mu	sec
PPZ	1 $\frac{1}{2}$	3
PPH	0.6	2
MH	52	20
MZ	21	20

see revised pg. 48

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 Seismological Assistant

KEW
 OBSERVATORY
 12 DEC 1960
 RICHMOND,
 SURREY.

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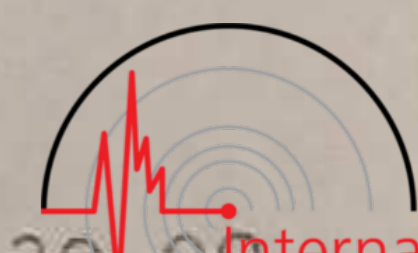
20 DEC 1960

RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
December 13, 1960

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PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



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Additional:

Nov.	24	eP	07	34	44
	24	eP	08	49	40
	24	eP	20	16	52
	24	eP	22	44	15
	25	iP	03	37	25
	25	e(P)	05	47	30
	27	iP	12	07	41
	27	eP	22	18	39
	29	iP	19	27	46
	29	iP	22	02	37

Dec.	8	iP	11	32	09
		i			48
	9	iP	04	02	15
		i			27
		i			36
	9	iP?	06	01	46
		i			02 03
		iG			03 14
		iR			30

Continuation:

Dec.	3	iP	07	15	57
		i		16	13
		i			35
	3	iP	07	21	08
		i		22	25
	3	iP	12	37	12
	3	iP	18	09	51
	3	iP	20	31	20
		i			26
		e(S)			40.5
	3	iP	22	00	21
	5	ePKP	08	52	04
		ePS	09	04	26
		eSS			09.8
		eG			22.1
		eR			25.3
		Distance 120°			
	5	iP	18	17	20
	6	iP	09	03	58
		iS		10	24
		iG			15.0
		e(L)			20.0
		Distance 47°			
	6	iP2	09	07	35
		ePPI		10	14
		iS1		16	56
		i(PS)			17.6
		eG			26.8
		iR			31.5
	2	Distance 77°			
		Magnitude 6 $\frac{3}{4}$			
		mu		sec	
		PZ	3	3	
		PH	0.3	1	
		PPZ	0.6	3	
		SH	3 $\frac{1}{2}$	8	
		MH	6	20	
		MZ	5	20	
	8	eP	09	22	45
		iS		24	03
		i(Lg)			24.4
		Distance 8°			

10	eP	13	43	41
	eS		53	11
	eScS			51
	eG	14	02.1	
	eR		04.5	
	Distance 72°			
11	iP	00	13	47
	eS		24	31
	ePS		25.0	
	eSS		29.4	
	eG		37.4	
	eR		41.6	
	Distance 88°			
11	iP	14	50	06
11	iP	19	02	41
11	iP2	19	05	44
	ePPI		09	07
	eSKS		15.8	
	eS		16.1	
12	ePS		17.6	
	eSS		21.5	
	eSSS		25.8	
	eG		29.1	
	eR		32.4	
2	Distance 90°			
	Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$			
	mu		sec	
	PZ	0.2	1	
	PH	0.05	1	
	PPZ	0.1	1	
	MH	7	20	
	PPZ	7	20	
	Interpretation			
	doubtful			
11	eP	19	11	40

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220 North San Rafael Ave.
Pasadena 2, California
December 21, 1960
PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Additional:

Nov. 21 eP 18 54 18
Dec. 5 iP 00 06 49
Dec. 8 iP 01 35 27

Continuation:

Dec. 13 ePKP 07 54 54
iPP¹ 55 50
e 58 58
iSKS 08 01.9
iS 03.9
iPS 05 21
e 06 15
iPKKP 33
iSS 11.4
iG 21.6
iR 26.7

B

2 Distance 110°
Magnitude 7 $\frac{1}{4}$

	mu	sec
PPZ	0.5	2 $\frac{1}{2}$
MH	70	20
MZ	105	20
13 iP	09 15	03
13 eP	10 17	45
i	18	07
14 iP	01 09	59
eS	20	31
ePS	21	31
eG	32.4	
eR	35.9	
Distance 85°		
15 iP	00 05	52
iP ¹	09	16
ePP	10	29
e	12	06
iSKS	16	25
eS	17	54
iPS	19	40
iSS	25.7	
iSSS	29.7	
iG	35.9	
iR	40.4	

Distance 108°
Magnitude 6 $\frac{3}{4}$ ±

	mu	sec
PZ	0.2	1 $\frac{1}{2}$
PPZ	0.3	1 $\frac{1}{2}$
PPH	0.2	1 $\frac{1}{2}$
SH	1 $\frac{1}{2}$	8
MH	10	20
MZ	7	20
15 iP	18 44	36
16 iP	09 04	21
i		

Dec. 16 eP 18 32 26
34 51
17 iP 02 12 37
17 iP 07 49 14
ipP 42
isP 50 00
17 iP¹¹ 10 55 53
Dilatation from
northeast
ipP¹¹ 10 56 59
iPP 57 52
i(pPP,SKP) 58 47
eSKKP 11 09 07
eSS 14.7
esSS 16.9
eG 30.5
Distance 126°

Depth 250 km

	mu	sec
PPZ	1	1 $\frac{1}{4}$
PPH	0.05	1 $\frac{1}{4}$
17 iP	13 38	22
17 e	16 55	26
17 eP	21 00	37
18 iP	05 24	26
19 iP	01 57	32
i		41
19 iP	07 12	44
i		49
19 eP	13 33	22
i		50
(21) iP ²	14 46	44
Dilatation from northwest		
ipP	14 47	09
isP		27
iScP		52 44
eS		52.9
eG		54.9
iR		57.0

Distance 38°

Depth 120 km

Magnitude 5 $\frac{3}{4}$

	mu	sec
PZ	0.9	2
PH	0.1	1

Violet M. Taylor
Seismological Assistant

MERRY CHRISTMAS and
HAPPY NEW YEAR TO ALL!!

KEW 28
OBSERVATORY
28 DEC 1960
RICHMOND,
SURREY.



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Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
December 30, 1960

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Revised interpretation from
air-letter dated Dec. 6, 1960

Dec. (3)

iP2	04	37	35
iPP		41	20
iSKS		48	08
iS			50
iSP		49.9	
iSS		55.7	
iG	05	07.5	
iR		10.3	

Distance 92°
Magnitude 7

	mu	sec
PZ	1½	3
PH	0.6	2
MH	52	20
MZ	21	20

Continuation:
Dec. 21

21	iP	21	06	59
	i		07	10
22	iP	02	37	34
22	iP	03	21	28
22	iP	03	57	58
	e		58	23
22	iP	06	43	57
	i		44	26
22	iP	11	43	41
	eL		46.0	
22	iP	12	33	26
	i			38
22	eP	14	24	42
22	iP	14	35	16
	eG		50.8	
	eR		53.3	

Distance 65°

22	iP	21	15	00
	Compression			
	ipP	21	16	38
	iSKS		24	51
	e		26.7	
	e		28.4	
	e		31.8	

Interpretation
doubtful.
Deep, probably
distant.

23	iP	10	00	52
	i		01	10
	i		02	11
	i			44

25	iP	05	33	18
25	iP	20	37	24

i 32
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Dec. 26	eP	01	08	25
	i			35
	eS		18	47
	eScS		19	15
	i		19.8	
	eSS		23.6	
	eSSS		27.3	
	eG		29.3	
	eR		32.9	

Distance 82°

26	iP	01	57	07
	eG	02	18.9	
	eR		22.9	
26	i(P)	04	51	22
	e		54	
	e		53	11
	e		54	43
	eL	05	09.1	
(27)	iP!2	10	37	41
	eG		39.7	
6	iR		40.1	

6 2

Distance 13°

		mu	sec	
	PZ	1	1	
	PH	0.4	1	
	MH	26	20	
	MZ	26	16	
27	iP	10	58	50
	i			57
	i		59	02
27	iP	11	10	57
	i		11	18
	iG		13.6	
	iR		14.1	

Distance 15°

27	iP	11	29	26
27	iP	18	20	06
	i			29
	eS		28.7	
	eSS		32.9	
	eG		35.4	
	eR		40.9	

Distance 65°

29	eP	06	13	47
	e		16	05
	eS		23	31
	eSS		28	27
	eG		33.2	
	eR		35.9	

Distance 75°

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1960 Dec
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220 North San Rafael Ave.
Pasadena 2, California
January 4, 1961

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Continuation:
Dec. 29

iPZ	10 49 30
Compression	
i	10 50 53
iPP	52 56
eSKS	59.9
eSv	11 00.4
e	01.9
iSS	06.4
eSSS	09.8
eG	13.2
eR	17.9
Distance	90°
Magnitude	6½ - 6¾
	mu sec
PZ	0.8 2
PH	0.3 2
PPZ	0.2 1½
SH	3 10
iP	19 12 51
i	13 04

Dec. 31	iP	18 20 53
	Dilatation	
	i	18 21 00
	eSKS	31.5
	eS	31.8
	ePS	32.8
	eSS	37.5
	eSSS	40.9
	eG	44.3
	eR	49.5
	Distance	88°
	Magnitude	6½ - 6¾
		mu sec
	PZ	1 4
	PH	0.6 3
	MH	5 20
31	iP	21 19 06

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11 JAN 1961
RICHMOND,
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