

KEW OBSERVATORY

7 JAN 1958

RICHMOND, SURREY

63

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
January 3, 1958

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Continuation:

Dec. 23	eP	12	44	50
	eS		53	08
	eL	13	00.5	
23	eP	13	26	21
	e			48
24	iP	15	51	50
25	eP	00	44	34
25	iP	02	19	13
25	iP	13	52	04
	i			14
25	iP	16	35	42
26	iP	06	51	57
	e		52	08
26	iP	12	22	05
	i			13
	i		23	16
	eL		25.5	
28	iP	14	48	11
	i			19
28	iP	15	41	04
28	iP	19	12	48
	i			59
29	iP	15	24	05
	i			18
29	eP	19	22	05
	e			36
	e			47

Dec. 29	iP	23	59	39
30	e	12	53	35
31	eP	14	45	40
31	iP	21	36	00
	i			11
1958				
Jan. 1	eP	02	33	38
1	iP	15	14	03
	i			15
2	iP	00	34	39

RICHMOND, SURREY
 KEW OBSERVATORY
 THE ROYAL OBSERVATORY
 GREENWICH
 LONDON, S.E. 10
 ENGLAND
 RECEIVED
 JAN 10 1958
 INTERNATIONAL SEISMOLOGICAL CENTRE
 PASADENA, CALIFORNIA
 U.S.A.

C. F. Richter
Professor of Seismology

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NEW OBSERVATORY
20 JAN 1958
RICHMOND, S.F.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
January 15, 1958

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

63

Additional:

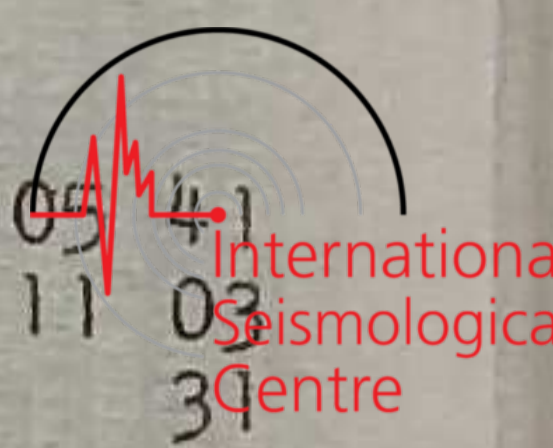
Dec. 27	eP	08 39 17
29	eP	20 52 09
31	eP	13 12 44
31	eP	14 42 26
	e	43 05
31	eP	14 58 26
31	eP	21 05 41
Jan. 1	eP	14 34 53
1	eP	23 13 57

Jan. -12	iP	15 09 41
-13	i(P)	00 11 03
	i	31
	i	45
	e	13 45
	e	16 03
	e	17 29
	i	20 42
	e	22 45
	e	22.9
	e	25.6
-13	i	03 07 07
	i	22
	i	32
	e	14.0
	e	14.4
	e	16.3
	eL	29.4
	iR	32.8
-13	iP	20 33 34
14	i(P)	01 42 25
-14	iP	06 06 50
-14	iP	07 32 31
15	iP	07 44 18

Continuation:

Jan. -2	eP	21 22 42
-2	eP	22 45 16
3	iP	02 07 32
-3	iP	06 35 03
-3	e	07 12 43
-3	eP	18 07 22
	e	32
	e	08 26
-4	eP	06 50 20
-4	iP	08 07 36
	iS	11 56
	iR	13.1
	Magnitude	5 $\frac{3}{4}$ - 6
4	eP	15 26 22
-4	eP	23 40 33
-5	iP	11 42 38
	i	43
5	iP	12 41 22
	i	37
6	eP	09 11 36
6	eP	09 14 44
	e	55
6	eP	10 10 55
6	e(P)	10 14 14
7	iP	03 07 05
7	eP	03 45 13
7	eP	08 33 20
7	iP	08 51 03
9	iP	00 56 09
-9	iP	11 27 16
-9	eP	17 53 09
	e	18
10	eP	13 45 06
11	iP	04 57 31
-11	iP	13 31 02
	iS	41 00
	i	42 18
	i	43 02
	eSS	45 50
	eG	52.0
	Distance	80°

C. F. Richter
Professor of Seismology



KEW OBSERVATORY
 27 JAN 1958
 RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 January 24, 1958

63

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:

Jan. 12	eP	01 13 50
13	eP	00 48 59
13	eP	01 43 59
	e	44 19
13	eP	03 00 40
13	eP	05 26 38
13	iP	13 20 59

Continuation:

Jan. 15	iP	19 25 16
---------	----	----------

SECOND Compression
 ipP 36
 isP 43
 iPP 28 05
 iS 34 02
 iSS 38.3
 iG 42.2
 iR 47.4
 eP!P! 53 35
 Distance 68°
 Depth 100 km
 Magnitude 7

		mu	sec
	PZ	1½	2
	PH	¾	2
	SH	12	7
-15	e(P)	22 28	29
	e		45
	e	32	04
	eL	51.4	
✓ 16	iP	04 27	57
✓ 17	iP	05 34	59
	i	35	42
-17	eP	07 34	40
	e		51
✓ 18	eP	19 37	11
	i		30
	i		47
19	eP	14 16	09
	ipP		19
	iPcP	17	15
	iS	23	12
	iG	27.1	
	iR	31.9	

Distance 52°
 Depth 60 km
 Magnitude 7½
 Magnitude mu sec
 PZ 11 4
 PH 10 5
 SH 40 20
 MH 100 20

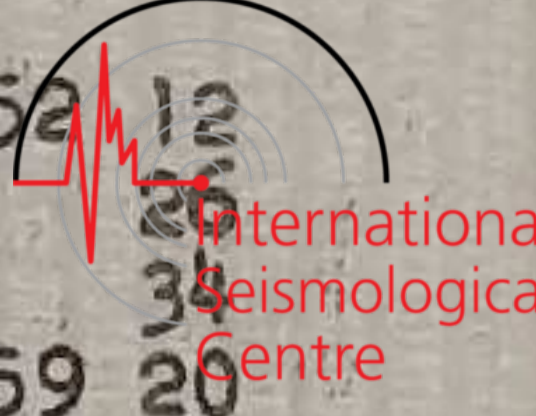
Jan. 19

iP	14 52 12
i	26
i	34
iS	59 20
Distance	52°
Depth	60 km
Magnitude	6½

-20	iP	02 31 55
	i	32 05
	i	24
	iS	41 52
	eL	57.3
20	eP	10 07 46
	eS	17 49
	eL	33.3
21	eP	08 18 46
-23	iP!	02 45 14
	i	22
	i	46
-23	iP!	09 04 51
	i	05 25
23	iP	13 46 32
24	iP	04 07 06
-24	iP	04 48 00
24	iP	06 03 41
	iS	11 33
	eSS	15.4
	eG	17.9

Distance	59°	
Magnitude	6½	
	mu	sec
	PZ	1½ 7
	SH	1½ 7
	MH	4 20
24	eP	06 20 46
24	eP	07 07 59
	i	08 06
	i	17

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 Professor of Seismology



MONTANA STATION

KEW OBSERVATORY
7 FEB 1958
RICHMOND, SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
February 4, 1958

63

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Additional:
Jan. 13 eP 09 51 20
e 36

Continuation:
Jan. 24 iP 18 12 50
i 13 07
iP! 23 24 11
ipP 28
iS 29 34
eG 31.8
eScS 35.1

Distance 34
Depth 60 km
Magnitude $6\frac{1}{4}$ - $6\frac{1}{2}$

	mu	sec
PZ	$\frac{1}{4}$	1
PH	$\frac{1}{4}$	1
SH	1	5
iP	00 04	31
eP	03 48	17
iP	07 55	29
iS	08 04	57
iG	14.3	
iR	16.5	

Long train of Rayleigh waves.
Distance 78
Magnitude $6\frac{1}{4}$

	mu	sec
PZ	$\frac{1}{2}$	3
SH	5	22
MH	20	20
iP	05 09	40
iP	06 26	35
i		48
i	28	17
iS	37	08
iG	51.5	
eR	54.3	

Distance 90
Magnitude $6\frac{1}{2}$

	mu	sec
PZ	$\frac{1}{4}$	2
MH	20	20
eP	21 11	44
iP	16 19	00
isP		36
i	20	44
iPP		58
iS	26	04
iSS	29.6	
iG	31.2	
iR	33.7	

Distance 51
Depth 100 km

Feb. 1 Magnitude $6\frac{3}{4}$ 7

	mu	sec
PZ	$\frac{1}{2}$	2
PH	1	3
SH	20	12
MH	40	20
MZ	20	20
iP	18 11	26
isP		06
iS	18	31

Distance 51
Depth 100 km
Magnitude $6\frac{1}{2}$

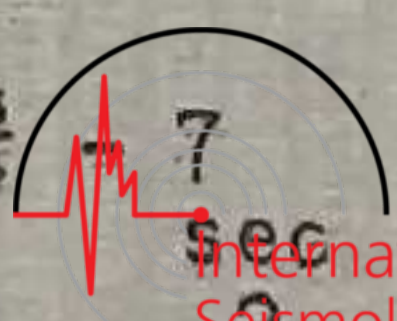
	mu	sec
PZ	$\frac{1}{4}$	2
PH	$\frac{1}{4}$	2
SH	8	8
MH	16	20
iP	20 54	34
ipP		02
isP		13
iS	21 01	38

Distance 51
Depth 100 km
Magnitude $6\frac{3}{4}$

	mu	sec
PZ	$\frac{1}{4}$	3
PH	$\frac{1}{4}$	$2\frac{1}{2}$
SH	7	7
MH	15	14
eP	22 13	26
eP	01 23	49
eP	02 43	47
e		59
eP	03 20	17
e		34
eP	03 31	47
iP	04 44	08
e		23
iP	08 22	27
i		41
eS		31 03
iG		38.5
iR		41.3
eP <i>iP</i>		51 23

Distance 62
Magnitude $6\frac{1}{2}$ - $6\frac{3}{4}$

	mu	sec
PZ	$\frac{3}{4}$	2
iP	08 58	02
i		10



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Seismological
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25
26
27

30
30

Feb. 31
1

C. F. Richter
Professor of Seismology

KEW OBSERVATORY

24 FEB 1958

RICHMOND, SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
February 18, 1958

63

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Additional:

Jan. 28	eP	11	22	32
29	i(P)	10	20	24
29	eP	20	37	29
30	iP	15	53	15
	ipP			29
30	iP	22	52	53
31	eP	06	46	06
	e			18
Feb. 1	eP	02	48	30
1	eP	13	40	47

Continuation:

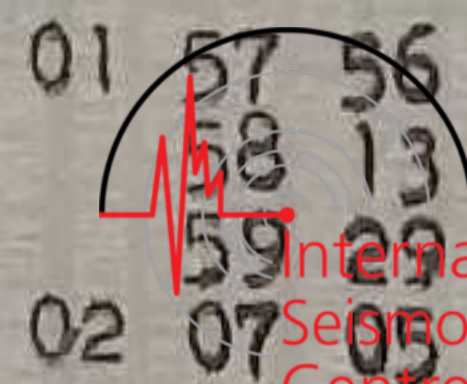
Feb. 2	eP	12	06	00
3	eP	08	37	31
3	eP	14	10	46
5	eP	03	33	41
6	iP	16	12	17
	i		13	16
6	eP	23	20	50
7	eP	00	51	37
7	iP	01	23	20
	e		24	15
7	eP	04	46	52
	i		47	04
	i			12
7	e	05	13	11
7	e(P)	23	41	41
	e			55
9	iP	04	23	20
11	iP	01	08	44
	i			54
12	eP	06	48	18
12	iP	07	34	48
12	iP	23	51	57
	i(pP)		52	04
	i(sP)			11
	iPcP		53	58
	eScP		57	29
	iS		58	23
	iScS	24	01	53
	eG		02	0
	eR		04	1

Distance 45°
Magnitude 6

mu sec

PZ	0.3	3
SH	6	20
MH	8	20
MZ	8	20
13 e(P)	22	54
e		38
i		56
14 e	08	12
		12

Feb. 15	eP	01	57	56
	i		58	13
	i		59	29
	eS	02	07	05
	eSS		11.7	
	e		14.9	
	eG		16.0	
	eR		19.0	
	Distance	71°		
	Magnitude	6 - 6½		



International
Seismological
Centre

	SH	2		7
	MH	2		20
	MZ	2		20
15	iP	10	41	13
15	iP	10	44	23
	i			37
15	iP	11	40	54
16	eP	06	15	57
	i		16	09
	eS		25	37
	iSS		30.4	
	eG		35.4	
	eR		39.0	
	Distance	74°		
	Magnitude	6 - 6½		

	SH	1		6
	MH	4		20
16	iP	07	54	33
16	iP	14	20	01
16	e	20	13	48
17	iP	00	07	54
	e		08	58
17	eP	02	35	51
	i		36	01
17	eP	05	36	32
	i		37	19
17	eP	12	01	12

C. F. Richter
Professor of Seismology

Violet Taylor



KEW OBSERVATORY
 3 MAR 1958
 RICHMOND, SURREY.

63

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 February 28, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Continuation:

Feb. 18	iP	03 58 51	
18	eP	07 46 00	
	e		32
18	eP	13 34 05	
	eS		44 33
	eL	14 00.0	
21	eP	03 29 24	
21	iP	23 48 39	
	i		48 02
21	eP	23 58 51	
22	iP	08 25 05	
22	iP	10 58 37	
	iPcP	11 00 19	
	eScP		04 13
	iS		05 09
	i		17
	iL		08.5
	Distance	44 ⁰	
	Magnitude	6 ³ / ₄	
		mu	sec
	PZ	3	4
	PH	2	4
	SH	3	4
	SH	7	20
22	iP	13 30 01	
	e		43
	e		31 43
22	eP	17 13 24	
	e		37
	eS		19 52
23	iP	08 26 04	
	i		11
	e		28 05
	iS		35 25
		mu	sec
	PZ	0.1	1
	PH	0.1	1
	SH	1 ¹ / ₂	5

Feb. 23	iP	09 24 09	
	e		25 46
	i		50
	eS		33 32
		mu	sec
	PZ	0.1	1
	SH	0.4	3
23	iP	11 00 16	
	i		24
	i		38
	iS		10 31
	eG		22.3
	eR		25.3
		mu	sec
	PZ	1 ¹ / ₄	2
	SH	1 ¹ / ₂	3
24	iP	12 40 28	
	i		35
	iS		51 48
25	iP	02 05 17	
26	iP	17 01 11	
	i		25
27	iP	23 52 30	
	iS	24 01 05	
	iL		10.4
28	eP	10 05 05	
	e		20
	iS		13 54
	eL		24.8

C. F. Richter
 Professor of Seismology

✓

KEW OBSERVATORY

18 MAR 1958

RICHMOND, SURREY.

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

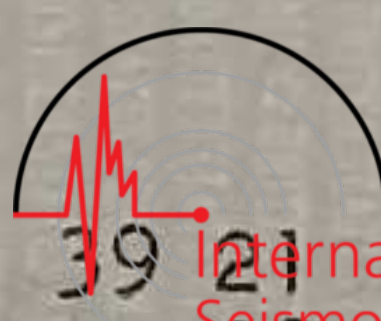
March 14, 1958

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Continuation:

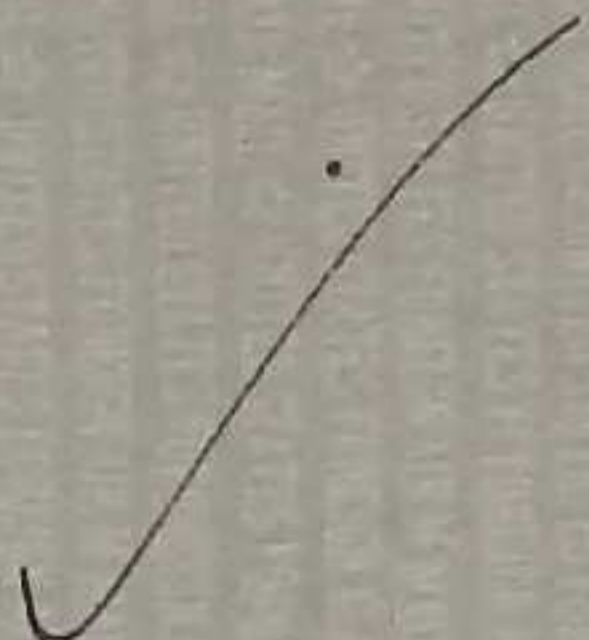
Mar. -1 iP 09 16 03
 1 iP 17 28 05
 -3 iP 16 27 48
 i 57
 i 28 06
 eS 35 29
 eG 41.1
 Distance 58°
 Magnitude $6\frac{1}{4}$ - $6\frac{1}{2}$
 mu sec
 PZ 0.6 2
 3 eP 17 20 26
 -3 iP 17 42 19
 i 26
 i 37
 4 e(P) 01 59 00
 8 iP 19 05 58
 -8 iP 20 22 33
 i 56
 i 23 07
 9 iP 08 15 58
 -9 iP 10 35 20
 i 27
 i(pP) 35
 iPP 38 55
 iS 46 12
 iG 58.8
 iR 11 02.3
 Distance 89°
 Depth 50 km.
 Magnitude $6\frac{1}{2}$ - $6\frac{3}{4}$
 mu sec
 PZ $\frac{1}{2}$ $1\frac{1}{4}$
 SH 0.6 $3\frac{1}{2}$
 MH 5 20
 MZ 4 20
 10 iP 08 05 59
 i 06 54
 10 eP 08 11 25

Mar. 11 eP 00 39 21
 i(pP) 39
 i 57
 iPP 43 12
 i! 34
 eSKS 49 33
 iS 50 07
 iSP 47
 ePKKP 56 34
 iSS 56.8
 iSSS 01 01.1
 eG 04.4
 Distance 92°
 Depth 60 km?
 Magnitude 7
 mu sec
 PZ $1\frac{1}{2}$ 3
 PH $\frac{1}{2}$ $1\frac{1}{2}$
 PPZ 0.2 2
 PPH $1\frac{1}{4}$ 6
 MH? 25± 20
 11 eP 14 11 52
 e 12 27
 e 52
 eS 22 30
 eL 37.8
 11 eP 23 58 21
 e 25
 i 24 00 25
 12 iP 12 11 16
 e 13 33
 13 iP 21 41 25



International
Seismological
Centre

C. F. Richter
Professor of Seismology



7 APR 1958

RICHMOND, SURREY.

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

March 31, 1958

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



International
Seismological
Centre

Additional:

Mar. 4	e	18 01 43
5	eP	05 49 38
5	eP	20 01 07
	e	30
6	iP	05 25 18
	i	46
10	eP	21 43 23
11	iP	08 53 33
11	iP	21 49 52
12	eP	00 13 58
12	iP	18 28 35

Continuation:

Mar. 15	eP	08 35 09
	eS	0 36 12
	Distance	5 ⁰
	Magnitude	5
	Preceded and followed by smaller shocks from the same distance	
	Barrett	
	iP	08 34 27
	Palomar	
	iP	08 34 50
15	iP	19 19 26
	i	43
18	iP	22 28 00
19	eP	11 43 01
19	eP	14 57 51

Mar. 20	iP	01 46 02
	iPP	47 44
	iS	52 25
	eG	55.6
	eR	57.6

Distance 43⁰
Magnitude 6¹/₂

		mu	sec
PZ		1	2
PH		1 ¹ / ₂	1 ¹ / ₂
SH		3 ¹ / ₄	5
MH		30	15
eP	20	15 00	00
eP	25	18 51	24
i			31
iP	25	21 47	25
e(P)	26	04 57	14
e			56
eP	27	06 45	14
iP	28	12 24	32
iP	30	17 44	31
iP	31	10 36	41
i			37 13
i			22

C. F. Richter
Professor of Seismology



NEW OBSERVATORY
 21 APR 1958
 RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 April 14, 1958

63

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:
 Mar. 30 iP 14 32 02
 i 18
 30 eP 22 48 56
 31 eP 01 03 04
 31 e(P) 15 09 10
 e 16
 e 24
 31 eP 20 02 40
 31 eP 21 18 30

Continuation:
 Apr 1 eP 14 19 06
 3 i(P) 08 34 32
 4 iP 02 07 10
 4 iP 07 30 14
 4 iP 15 51 21
 ipP 33
 7 iP 15 38 05
 iPP 39 38
 iS 44 04
 iSS 46.9
 eL 49.4

Distance 39^o
 Magnitude 7

	mu	sec
PZ	3	5
PH	4	4
PPZ	14	12
SH	23	13
MH	1500	20
MH	900	14
7 iP	18	16 55
i		17 01
8 iP	00	21 47
i		55
8 iP	13	32 57
9 iP	06	20 50
i		21 12
eL		25.7
9 iP	19	56 14
10 e(P)	01	54 34
e		47
10 eP	12	01 53
iS		11 37
e(L)		21.7
10 e	13	30 15
i		47
i(S)		39 43
10 iP	19	21 37
10 iP	23	20 35
iS		26 51
iG		29.7
eR		31.2

Apr. 10 Distance 40^o
 Magnitude 6

	mu	sec
PZ	$\frac{3}{4}$	$2\frac{1}{2}$
PH	0.3	2
SH	2	8
MH	15	20
11 iP	01	10 02
i(S)		19 40
eL		30.2
11 eP	04	44 18
11 iP	17	35 22
eS		40.7
eR		44.1
11 iP	23	22 01
ipP		22
isP		35
iS		30 35
iG		38.0
eP'P'		50 43

Distance 64^o
 Depth 100 km
 Magnitude 6 $\frac{1}{2}$

	mu	sec
PZ	0.3	1 $\frac{1}{2}$
PH	0.4	1 $\frac{1}{2}$
SH	1	2 $\frac{1}{2}$
eP	10	27 20
e(S)		30 07

Distance 11^o
 Magnitude 5 $\frac{1}{2}$?
 Foreshock of next
 12 iP 11 49 24
 Compression from
 southeast
 iG 51 12
 i(Lg) 52 16
 Distance 11^o
 Magnitude 6 $\frac{1}{2}$

	mu	sec
PZ	1	21 $\frac{1}{2}$
MH	200	20
12 eP	13	38 48
i		39 05

RICHMOND, SURREY
 NEW OBSERVATORY OF DEER BUNK
 THE SUBSTANTIAL



International
 Seismological
 Centre

C. F. Richter
 Professor of Seismology

KEW OBSERVATORY
22 APR 1958
RICHMOND, SURREY

63 ✓

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 April 16, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:
 Apr. 5 eP 05 19 41
 7 iP 16 46 02
 8 iP 17 23 43
 i 56
 10 iP 23 16 02

Continuation:
 Apr. 13 eP 01 56 08
 13 eP 08 36 38
 13 iP 09 14 51
 i 15 07
 eS 20 49
 eG 23.4
 iR 26.3
 Distance 38⁰
 Magnitude 6³/₄

	mu	sec
PZ	3	3
PH	5	4
SH	4	5
MH	15	20
iP	12	39 06
iS		47 07
iSS		51.3
iG		53.5
eR		56.1
eP <i>P</i>	13	08 52
Distance	57 ⁰	
Magnitude	6 ¹ / ₂	

	mu	sec
PZ	0.2	1
PH	0.15	1
SH	12	15
MH	20	20
eP	13	29 13
i		16
i		34
e(S)		33.8
eP	18	18 37
iP	21	41 19

Dilatation from southeast
 i 27
 iPP 43 18
 iS 48 24
 eScS 49 03
 iSS 51.9
 eR 55.4

Apr. 14 Distance 50⁰
 Magnitude 6³/₄ - 7

	mu	sec
PZ	2 ¹ / ₂	3
PH	3	4
SH	15	11
MH	60	18
eP	22	57 21
e		28
iP	01	39 33
i		38
iPP		41 34
iS		46 38
iScS		49 22
eSS		50.2
Distance	50 ⁰	
Magnitude	6 ¹ / ₂ - 6 ³ / ₄	

	mu	sec
PZ	2 ¹ / ₂	3
PH	4	4
SH	6	12
MH	20	18
iP	4	04 00 16

Dilatation from southeast
 i 02 06
 iS 06 34
 i(SS) 09.9
 Distance 42⁰
 Magnitude 6³/₄

	mu	sec
PZ	1 ¹ / ₂	3
PH	5	4
SH	50	18
MH	50	30

RICHMOND SURREY
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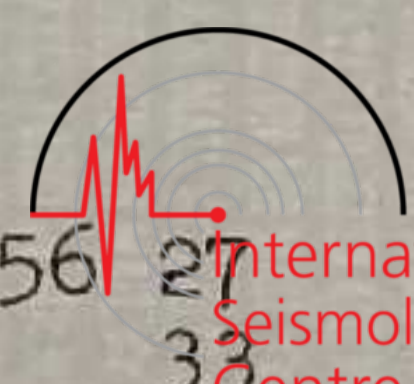


KEW OBSERVATORY
30 APR 1958
RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 April 25, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

63



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Additional:
 Apr. 4 iP 07 43 12
 14 eP 03 00 32
 14 eP 03 19 50

Continuation:
 Apr. 15 eP 11 07 36
 15 eP 13 01 17
 15 eP 15 50 25
 17 iP 02 28 46
 17 iP 06 34 51
 i 35 05
 e(S) 45.6
 eL 07 03.3

17 eP 10 18 04
 iS 28 56
 17 eP 11 44 47
 i 45 01
 17 eP 17 03 51
 18 iP 03 22 26
 18 iP 07 43 11
 18 iP 17 50 41
 19 iP 04 05 55
 iG 07 58
 iLg 09 03
 Distance 11⁰
 Magnitude 6±

	mu	sec
PZ	0.6	4
PH	0.7	5
MH	50	20
MZ	24	20
19 iP	14	26 53
20 iP	21	08 22
20 iP	21	33 51
21 eP	12	25 19
21 iP	20	26 26
iS		35 49
i		36 25
iG		44 55
iR		47.3
Distance	72 ⁰	
Magnitude	6½	

	mu	sec
PZ	½	3
PH	0.2	1½
SH	10	30
MH	13	20
MZ	10	20

Apr. 21

eP''	22	56	27
iP''			33
ePP		58	28
iSKP		59	39
eSP	23	09	04
eSS		16	39
eG		31.3	
Distance	131		
Magnitude	6½		

	mu	sec
P''Z	0.4	2
PPZ	1	6
PPH	1	6
e(P)	03	08 35
eS		17 24
eG		25.0
eP	13	22 35
eS		33 15
ePS		34 07
eSS		38 43
eSSS		42.5
e(G)		46.3
eR		49.7
Distance	88 ⁰	

RICHMOND OBSERVATORY OF THE UNIVERSITY OF SURREY
 THE SUBSIDIARY STATION

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KEW OBSERVATORY
 7 MAY 1958
 RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 May 2, 1958

63

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

Apr. 11	eP	18 03 13
11	eP	18 17 17
12	iP	01 16 08
15	eP	03 31 59
15	eP	04 13 03
	e	17
15	e	05 43 17
18	eP	13 51 05
19	iP	00 58 31
19	iP	01 10 42
19	eP	11 02 43
21	iP	20 38 05
22	iP	11 43 20
	i	35

Apr. 30	eP	14 20 10
	e(S)	30 13
30	iP	19 38 50
	Dilatation	
	iPcP	39 10
	ipP	20
	isP	33
	eS	48 12
	i	45
	eG	058.7
	Distance	75
	Depth	120 km
	Magnitude	6

Continuation:

Apr. 24	iP	18 17 27
	iS	12 23 56
	iSS	27 32
	eR	031.2
	Distance	50 ?
		mu sec
	PZ	0.3 1
26	iP	09 38 30
	i	39 06
27	iP	18 49 38
27	eP	19 11 43
	iScP	17 16
	iS	40
	iG	20.8
	iR	22.3
28	iP	11 57 59
	Compression from	
	southeast	
	iS	12 06 23
	iScS	07 40
	eSS	10 35
	iG	13.6
	iR	18.8
	Distance	63
	Magnitude	6 1/2
		mu sec
	PZ	1/2 2
	PH	0.4 2
	SH	2 1/2 8
	MH	10 19
	MZ	5 20

May 31	PZ	1/4 1
	iP	00 41 33
	Compression from	
	west	
	ipP	42 22
	iPP	44 53
	isPP	45 58
	eS	51 27
	iS	38
	iSP	52.6
	iSS	57.7
	iSSS	01 01.0
	iG	04.1
	eP	07 40
	Distance	84
	Depth	200 km
	Magnitude	6 1/4
		mu sec
	PZ	0.6 2
	PH	1/4 1
	PPZ	1/2 2 1/2
	PPH	0.2 2
	SH	7 19
	SH	4 24
	iP	12 45 27

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 RICHMOND, SURREY, ENGLAND

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 Professor of Seismology



Kew Observatory

27 MAY 1958

RICHMOND, SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
May 20, 1958

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PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Additional:

Apr. 25	e	08 43 08
28	eP	08 01 49.8
	iS	02 54.8
	Barrett	
	iP	08 01 03.7
	iS	55.9
	Hayfield	
	iP	08 01 15.7
	Palomar	
	iP	08 01 17.2
	iS	02 14.8
	Riverside	
	e(P)	08 01 27.8
	i	44.2
	iS	02 40.3
	King Ranch	
	iP	08 02 28.4
	China Lake	
	e	08 02 04.2
	Magnitude	4.8
May 11	eP	05 44 11
	e	25
Continuation:		
May -12	iP	17 02 10
	i	34
12	iP	18 41 43
-12	iP	21 22 00
	i	15
	i	28
	i	53
13	iP	10 12 32
	e	52
13	eP	11 24 34
-15	iP	04 32 56
	i	33 18
15	iP	07 14 38
15	iP	18 53 18
16	iP	01 41 45
	i	42 15
-17	e	07 26 42
	e	28 30
	e	33 42
	eG	40.3
	iR	45.7
-17	eP	15 46 57
17	eP	17 55 16
	e	28

May 18

iP	02 45 34
Compression from west	
ePP	48 40
eS	55 58
e(ScS)	56 30
ePS	54
iPPS	57 16
iSS	03 02 26
iSSS	05 26
iG	07 54
iR	11.8
Distance	86°
Magnitude	6 1/4 - 6 1/2
	mu sec
PZ	1 14
MH	7 20
MZ	7 20
iP	12 34 00
ePP	37 18
eS	44 22
iPPS	45 34
eSS	49.7
iSSS	53.6
iG	56.3
iR	13 00.0
Distance	86°
Magnitude	6 - 6 1/4
	mu sec
MH	5 20
MZ	5 20
iP	05 56 21

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MAY 20 1958
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 2 JUN 1958
 RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 May 27, 1958

1163

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:

May 11	iP	06 43 58
11	eP	07 52 56
11	iP	09 15 55
11	iP	13 29 25
12	eP	22 23 35
	i	58
13	iP	13 50 04
	i	34
	i	47
14	e(P)	04 11 43

Continuation:

May 21	iP	14 17 16
	i	41
21	eP	15 18 25
22	iP	11 41 00
	e	38
22	e	15 34 27
	e	39 05
	eR	51.7
23	e(P)	06 52 29
	e	55 21
24	iP	23 06 40
	Compression from northwest	
	i	51
	i	07 04
	iS	08 10
	eG	08.5
	eR	09.3
	Distance	10 ⁰
	Magnitude	4 $\frac{3}{4}$ ±
		mu sec
	PZ	$\frac{3}{4}$ 1
	PH	$\frac{1}{2}$ 1
25	eP	00 43 52
	e	44 10
	iPcP	45 17
	iS	50 23
	eSS	53.4
	eL	53.8
	Distance	45 ⁰
	Magnitude	5 $\frac{1}{2}$ - 5 $\frac{3}{4}$
		mu sec
	PZ	0.1 1 $\frac{1}{2}$
	SH	1 $\frac{1}{2}$ 22
	MH	1 $\frac{1}{4}$ 20
25	eP	15 02 50
	eS	09 33
	eSS	12.4
	eL	13.0
	Distance	45 ⁰
	Magnitude	5 $\frac{1}{2}$ - 5 $\frac{3}{4}$
		mu sec
	PZ	0.1 4
	SH	1 24
	MH	1 $\frac{1}{4}$ 20

May 25	eP	17 05 31
	e	55
25	iP	21 20 57
	Compression from southeast	
	ipP	21 08
	iPP	23 00
	iScP	26 07
	iS	28 33
	e(SS)	32 15
	iR	37.9
	eP'P'	51 00
	e	27
	Distance	55 ⁰
	Depth	40 km.
	Magnitude	6 $\frac{1}{2}$
		mu sec
	PZ	1 3
	PH	$\frac{3}{4}$ 3
	SH	1 5
	PPZ	$\frac{3}{4}$ 2 $\frac{1}{2}$
	PPH	1 2 $\frac{1}{2}$
	MH	10 20
	iP	08 59 01
	i	08
	eS	09 06.5
	Distance	55 ⁰
	Aftershock	
	iP	11 04 14
	Dilatation from northwest	
	ipP	04 33
	i	45
	i	53
	iPP	05 51
	ipPP	06 13
	eScP	09 51
	iS	10 21
	esS	51
	eL	13.4
	iScS	14 08
	Distance	41 ⁰
	Depth	80 km.
	Magnitude	6 - 6 $\frac{1}{4}$
		mu sec
	PZ	1 2
	PPZ	$\frac{1}{2}$ 3
	PPH	$\frac{1}{2}$ 3
	SH	$\frac{1}{4}$ 3

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10 JUN 1958
RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 June 5, 1958

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PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:

May 15	eP	04 53 12
16	iP	20 29 44
19	eP	17 42 46
	e	43 22
20	e(P)	15 16 00
20	iP	16 03 50
22	iP	22 17 22
23	iP	16 00 52
25	iP	06 26 39
26	iP	02 50 35

Continuation:

May 26	iP	16 29 08
27	iP	23 46 22
29	iP	00 07 17
29	iP	03 51 04
29	iP	05 33 17
29	eP	07 04 44
	eS	09 24
	eG	09.9
	eLg	13.1
30	eP	06 03 34
	e	45
	eL	32.0
30	iP	18 12 30

Dilatation from northwest
 iS 18 18 23
 eG 21.5
 Distance 40°
 Magnitude 6 - 6 1/4

	mu	sec
PZ	1 1/2	1 1/2
PH	1 1/4	1 1/2
SH	5	20
MH	20	20
31	iP	08 13 10
	i	24
31	iP	19 45 11
	Compression from south of west	
iPP	19 48 27	
iS	55.44	
iSS	20 01.6	
iSSS	04.9	
iG	07.5	
iR	11.1	
eR2	21 43.2	
	Distance 87°	
	Magnitude m=7 1/4, M=7 1/2	

May 31

June 1

PZ	1 1/4	
PH	1	2
SH	80	20
MH	90	20
MZ	80	20
June 1	iP	02 39 44
1	e(P)	03 59 14
1	iP	04 10 09
	e	46
1	iP	10 51 17
	e	48
1	iP	18 27 49
1	iP	19 58 39
1	iP	19 44 34
	Compression from southwest	
ePP	19 47 54	
iS	55 00	
iPS	56.0	
iSS	20 01.0	
iSSS	04.2	
iG	07.0	
iR	10.6	

Distance 86°
 Magnitude 6 1/2

	mu	sec
PZ	2	5
PH	1 1/2	3
PPZ	0.1	1
SH	2	5
MH	7	20
MZ	7	20
4	iP	14 37 22

Dilatation
 ePcP 14 39 16
 eS 43 21
 iG 46.4
 Distance 38°
 Magnitude 6 - 6 1/4

	mu	sec
PZ	0.4	1 1/2
PH	0.2	1 1/2
SH	3	6
MH	14	20
MZ	3	20

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16 JUN 1958

RICHMOND, SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
June 10, 1958

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PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Additional:

May	24	eP	16	46	42
	26	iP	09	16	07
		i			19
	30	iP	16	25	11
	31	iP	07	38	45
	31	eP	14	26	13

Continuation:

June	5	iP	04	36	13
		i			31
	5	iP	08	33	47
	5	iP	08	43	21
		e		44	07
	5	iP	13	31	03
	6	iP	09	18	58

Compression from southeast

ipP	09	19	14
i(sP)			26
iPP		20	35
iPcP		21	06
iS		25	12
iG		28.6	
iR		31.2	

Distance 40°
Depth 70 km.

mu sec

PZ	1.8	2
PH	1.1	2 ³ / ₄
PPZ	1	4
PPH	3	5
SH	19	12
MH	28	24
MZ	12	24

6 iP 12 35 07
i 40

6 eP 15 59 50
e 16 00 05

6 iP 19 23 35

Compression

iPP	25	24
iPPP	26	12
iS	30	19
i(SS)	33.7	
i(G)	34.0	
eR	37.1	

Distance 44°
Magnitude 6

June 6

PZ	0.2	
PH	0.1	1 ¹ / ₂
PPZ	0.3	2 ¹ / ₂
PPH	0.6	3
SH	1.2	7
eP	22	50 07
iP		51 59
iS		53 24
iL		54 22
iS		57 29

Doubtful
Distant?

Two shocks?
iP 00 46 21

Dilatation
i 32
i 44

i 47 02
iPcP 48 20

i 30
eS 52 30

iL 54.4
e(R) 55.7

Distance 38°
Magnitude 6¹/₂ - 6¹/₄

mu sec

PZ 0.8 1
PH 0.6 1¹/₂

MH 9 20
iP 16 06 36

eS 12 32
eG 15.6

iP 21 26 56
iP 00 18 04

e 15
eS 24 03

eG 27.1
i(P) 04 12 43

i 54
i 13 01

iScS or 23 20
iSKS 38.7

eG 05 05 17
iP 05 05 17



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PROVISIONAL READINGS AT PASADENA

9

9

10

10

10

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

June 18, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Correction:

June 8, 1958, 00h
 for $6\frac{1}{2}$ - $6\frac{1}{4}$
 read $6\frac{1}{2}$ - $6\frac{3}{4}$

Additional:

June 3	eP	01 58 13
4	eP	03 45 09
4	eP	10 01 11
5	eP	02 27 30
6	eP	14 46 39
7	eP	11 04 24
7	iP	21 42 33
	i	40
8	e	21 22 13
9	eP	07 52 22
	e	52

Continuation:

June 11	iP	16 27 32
11	e	18 53 52
12	iP	12 01 50
	i	56
	i	02 06
	ePP	03 40
	iS	08 08
	iG	11.4
	eR	14.6

Distance 44⁰
 Depth 60 km
 Magnitude 6 - $6\frac{1}{4}$

	mu	sec
PZ	0.4	2
PH	0.1	$1\frac{1}{2}$
SH	3.3	15
iP	21 00	29
iS	06	18
iR	09.3	

Distance 35⁰
 Magnitude $6\frac{1}{2}$

	mu	sec
PZ	0.4	$1\frac{1}{2}$
PH	0.4	2
SH	8	13
MH	40	20

12	eP	21 40 57
12	eP	22 46 20
13	eP	10 17 57
15	iP!	02 52 17
15	iP	07 29 44
15	eP	11 46 18
	e	29

June 15	iP	15 05 39
	Compression from southwest	
	i(PcP)	15 05 49
	ipP!	07 36
	Compression	
	isP	15 08 34
	iS	14 48
	e	17 24
	e	48
	e	18 40
	iSS	20 04
	e	23.4
	i(G?)	26.6
	Distance	79 ⁰
	Magnitude	$6\frac{1}{4}$
	Depth	550 km

	mu	sec
PZ	0.3	1
PH	0.2	1
pPZ	2	4
pPH	$1\frac{1}{2}$	4
SH	4	8
eP	16 17	26
iP	07 26	20
i		27
eP	08 24	41
e		51
eS		34 32
eG		43.8
eR		47.0
iP	14 38	42
eP	14 45	01
iP	19 03	53
e	13 25	54

RICHMOND, SURREY
 JUN 15 1958
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 JUN 15 1958
 KEW OBSERVATORY

C. F. Richter
 Professor of Seismology

KEW OBSERVATORY
 23 JUN 1958
 RICHMOND, SURREY.



KEW OBSERVATORY
30 JUN 1958
RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 June 25, 1958

63

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Correction:	Date	Time	Phase	Reading	Date	Time	Phase	Reading
June 13	eP	10 17 57		June 23	eP	05 23 05		
	read			23	eP	07 32 28		
	eP	11 17 57		24	iP	00 28 06		
17	e	13 25 54			ipP		23	
	read			24	eP	06 49 15		
	e	13 10 54			eS	07 00 04		
Additional:					iSS	05 58		
June 5	eP	13 33 25			eG	12.7		
16	iP	14 41 18			eR	14.6		
	epP		34		iP	09 40 17		
17	iP	00 38 39		25	eP	09 50 13		
Continuation:				25	ePP	54 37		
June 17	iP	19 19 12			iSKS	10 00 52		
	ipP		24		iS	01 37		
	eS	29 36			iPS	02 52		
	eG	41.1			eSS	08.1		
	eR	44.0			eSSS	12.9		
18	iP	01 25 33			e(SSSS)	16.0		
	eS	34 04			eG	16.6		
	eG	40.3			eR	20.9		
18	e(P)	07 04 53			Distance	99°		
19	iP	05 28 24			Magnitude	6 1/4 - 6 1/2		
	Dilatation from					mu	sec	
	west				PZ	0.3	4 1/2	
	ipP	05 28 38			PPZ	0.9	10	
	isP		44		SH	1.2	35	
	iS	36 04			MH	10	20	
	iSS		49		MZ	7	20	
	iSS	40.5			iP	12 57 13		
	eG	44.0			ipP		32	
	iR	46.5						
	Magnitude	6 1/2						
	Distance	56°						
	Depth	60 km						
		mu	sec					
	PZ	0.3	1 1/2					
	SH	1.5	13					
	MH	8	20					
	iP	09 54 14						
	iP	00 59 27						
	i		38					
	eS	01 08 44						
	iG		17.8					
	Distance	72°						
		mu	sec					
	SH	0.4	25					
	MH	1	20					
20	eP	01 07 55						

RICHMOND, SURREY, ENGLAND
 JUN 25 1958
 THE OBSERVATORY

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 Professor of Seismology

KEW OBSERVATORY
7 JUL 1958
RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 June 30, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

June 19	eP	04	07	10
19	eP	04	10	13
19	iP	07	58	21
25	eP	02	35	12

Continuation:

June 25	iP	23	01	26
	e			56
25	iP	23	33	50
25	eP	23	55	31
26	iP!	04	48	11

Compression from northwest

i	04	48	28
i			39
i			48
i			58
i	49	13	
ePPP	51	51	
iS	56	11	
i			37
i			58
e(SS)	05	00	09
eG		03	28
iR		06.0	
eP!P!		17	44

Distance 60°
 Magnitude $6\frac{1}{2}$ - $6\frac{3}{4}$
 Depth Intermediate
 70 km? 150 km?

	mu	sec
PZ	1.4	$2\frac{1}{4}$
PH	0.5	$2\frac{1}{4}$
SH	1.6	4
eP	23	41 48
eS		51 46

	mu	sec
SH	0.2	11
MH	4	20
MZ	4	20

26	iP!	05	51	15
	iPP			30
	iSP			44
	iPP	52	22	
	iPPP			48
	iPcP	53	46	
	iPPcP	54	07	
	eS	56	38	
	iScP	57	29	
	isScP	58	07	

June 27

iG	05	59.5
iScS	06	01 33
isScS		02 05
iR?		03 16
Distance	34°	
Depth	70 km	
Magnitude	6	

	mu	sec
PZ	0.3	$1\frac{1}{2}$
PH	0.1	1
SH	0.6	12
MH	$3\frac{1}{4}$	20
MZ	4	20
iP	08	44 38
eS		54 48
eG	09	06.0
eR		09.7
iP	19	41 44
iP	03	36 22
Dilatation		
ipP	03	36 49
isP		37 06
iS		45 01
iP	09	26 08
i		16
eS		35 35
iP	12	52 13
e		39
eS	13	01 41
eP	19	09 31
e(P)	09	00 30
iP	09	12 52

JUN 28 1958
 JUN 29 1958
 JUN 29 1958

C. F. Richter
 Professor of Seismology



KEW OBSERVATORY
11 JUL 1958
RICHMOND, SURRY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 July 7, 1958

63 ✓

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Correction:

June 9 eP 07 52 22
 e 52
 Read
 eP 07 51 51
 e 52 21

Additional:

June 8 eP 16 03 06
 e 15
 24 e 03 44 47
 25 eP 10 07 17
 25 eP 23 13 42
 26 eP 13 29 10
 27 eP 18 41 46
 27 iP 23 44 08
 i 20
 30 eP 14 10 33
 i 40

Continuation:

June (30) iP 18 38 34
 ipP 52
 iS 48 33
 iPS 50.0
 iSS 54.0
 e(G) 19 01.3
 iR 03.1
 Distance 83°
 Magnitude 6³/₄

	mu	sec
PZ	1/2	1
SH	1	4
MH	8	20
MZ	11	20

July (1) iP 06 01 25
 Compression
 ipP 06 01 41
 isP 49
 iPcP 02 40
 iPP 03 19
 ipPP 38
 iS 08 09
 iSS 12.1
 iR 14.2

Distance 50°
 Depth 60 km
 Magnitude 6

	mu	sec
PZ	1/2	2
PH	0.2	1 1/2
SH	2	20
MH	4	20
MZ	2	20
iP	00 54	41

July 2 iP 04 59 24
 i 52
 i 05 00 44
 i 50
 eP 06 05 25
 ePP 10 05
 eSKS 16.1
 ePPS 20.4
 e(SSS) 30.0
 eL 44 25
 Distance 112°?
 Doubtful;
 possibly 160°
 iP 06 39 44
 ipP 41 22
 eSP 42 01
 eSKS 49 36
 iS 47
 eSP 50 51
 ePS 51.6
 Distance 88°
 Depth 400 km
 Magnitude 6

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 THE SEISMOLOGICAL
 DEPARTMENT

	mu	sec
PZ	0.6	3
PH	0.2	1 1/2
SH	3/4	4
eP	10 36	19
eS	46	57
ePS	48	05
eSS	53.1	
eG	59.8	
eR	11 05.0	

Distance 90°
 iP 12 58 23
 ipP 42
 eP 19 07 18
 eS 16 13
 eP 18 53 14
 e 54
 iP 16 10 40
 eS 16 37
 iP 18 32 35
 iS 33 34

Magnitude 4³/₄
 Smaller shock
 precedes

July 7 iP 05 24 39
 eS 31 37

C. F. Richter
 Professor of Seismology

2

63

July 15, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:

June 16	iP	15	06	31
18	e	06	46	53
20	eP	17	43	49
30	iP	21	53	55
July 2	eP	02	39	11
	e			18
4	eP	00	31	16
4	iP	14	59	19
5	iP	14	04	18

Continuation:

July 7	eP	13	46	28
	e			34
7	eP	15	19	48
	eS		26	29
8	e(P)	05	14	37
	e			59
8	eP	06	18	26
	e			55
	e		19	14
	eS		28	15
	eG		38.1	
	eR		39.8	
8	iP	12	39	56
8	eP	17	21	45
	e			55
8	iP1	23	08	41
	iP2		09	29
	ePP		13	16
	ePPS		26.5	
	eSS		34.5	
	eL	24	00.7	
	Distance	161		
	Magnitude	6		
		mu	sec	
	PPZ	$1\frac{1}{2}$	4	
	MH	$1\frac{1}{2}$	20	
9	iP	14	30	22
9	eP	15	24	34
	e		25	26
	eS		29	41
	eL		31.8	
9	iP	18	31	40
10	iP	06	21	40
	Dilatation from northwest			
	iS	06	26	32
	iL		28.0	
	Distance	30 ⁰		
	Magnitude	m=7 $\frac{1}{2}$	M=8	
		mu	sec	
	PH	8	3	
	SH	150	15	
	MH	4400	20	
10	eP	07	51	03
10	iP	08	04	21

July 10	eP	08	45	16
10	eP	09	02	19
10	eP	09	31	03
10	iP	10	11	20
10	iP	10	22	44
10	eP	12	32	41
	i			49
10	eP	16	52	32
10	iP	22	16	28
10	eP	23	57	11
11	e	07	21	29
11	iP	07	51	17
	e(S)		58	01
	eL	08	01.5	
11	iP	19	21	48
	iPcP		22	02
	i			22
	eS		31	09
	esS			33
	eR		44.4	
	eSKPP		55	52
	Distance	73 ⁰		
	Magnitude	6 $\frac{1}{2}$		
		mu	sec	
	PZ	0.4	2	
	PH	0.2	1	
	SH	3	8	
12	eP	00	56	12
	iS	01	02	20
	iG		05.5	
	iR		07.3	
	Distance	43 ⁰		
	Magnitude	6		
		mu	sec	
	PZ	0.6	3	
	PH	0.1	1 $\frac{1}{2}$	
	SH	1 $\frac{1}{4}$	5	
	MH	10	20	
	eP	02	39	29
	eS		45	53
	eG		49.0	
	eR		50.8	
	Distance	43 ⁰		
12	iP	03	41	29
12	iP	21	15	46
13	eP	08	15	47
	eS		20	30
	eL		21.8	
	Distance	28 ⁰		
13	iP	12	16	33
13	eP	20	46	05
14	iP	05	26	14.8
	iS			29.3
	Magnitude	4 $\frac{3}{4}$	- 5	
	C. F. Richter			
	Professor of Seismology			

International
 Seismological
 Centre



KEW OBSERVATORY
28 JUL 1958
RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 July 22, 1958

63 ✓

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:
 July 10 eP 11 42 42
 10 eP 13 22 19
 13 eP 13 53 04

Continuation:
 July 16 eP 04 00 59
 e 01 10
 16 iP 13 04 52
 eS 13 33
 eSS 17.6
 eG 20.5
 eR 24.1
 Distance 63°

16 eP 13 21 12
 16 e 17 07 10
 16 e 18 09 09
 17 e 13 34 15
 17 eP 19 10 20
 ePP 12 25
 eS 17 05
 eG 21.0
 eR 23.3
 Distance 46°

17 eP 19 37 54
 i 38 19
 17 eP 20 36 42
 17 eP 21 07 40
 iS 14 17
 eSS 17.7
 eG 18.1
 eR 20.3
 Distance 46°

18 eP 00 47 37
 e 53 03
 eS 54 17
 eSS 57.8
 eG 58.3
 eR 01 00.6
 Distance 46°

18 iP 01 56 31
 19 eP 06 34 48
 19 iP 06 44 09
 e 31
 iPP 48 21
 i 49 13
 i 21
 eSKS 54 35
 iS 55 47
 eSS 07 03.0
 eG 13.4
 eR 17.4
 Distance 105°

19 iP 09 14 53

July 19 e(P) 15 09 02
 e 24
 19 eP 17 31 38
 ePP 33 32
 eS 38 19
 eG 41.8
 Distance 46°

19 eP 18 31 26
 e 45
 e 35 25
 iS 43 23
 ePS 44.9
 iSS 51.2
 eG 19 01.2
 eR 05.4
 Distance 110°

19 iP 19 00 49
 20 eP 11 17 40
 20 iP 11 55 53
 i 56 10
 eS 12 06 39
 eG 17.4
 eR 22.0
 Distance 85°

20 eP 16 08 07
 21 iP 07 36 11
 i 21
 i 32
 iS 45 13
 eSS 49.1
 eSSS 52.0
 eG 53.4
 eR 56.6
 Distance 68°

(21) iP 14 45 44
 i 53
 i 57
 i 46 12
 iPcP 47 19
 iS 52 29
 iSS 55 37
 eG 56.2
 eR 58.9

PZ mu sec
 0.4 2
 PH 0.5 2
 SH 1½ 4½
 MH 10 20
 Distance 46°



C. F. Richter
 Professor of Seismology

Violet Taylor
 Seismological Assistant

NEW OBSERVATORY
19 AUG 1958
RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 August 14, 1958

63 ✓

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:
 July 26 iP 18 50 46
 29 eP 04 10 42
 Continuation:
 July 29 iP 21 50 21
 30 eP 02 58 23
 i 40
 30 eS 03 07 22
 eP 04 59 14
 e 05 03 14
 iSKS 10 04
 e(S) 12 24
 eSS 17 48
 eG 30.8
 Distance 109⁰
 30 iP 07 44 48
 31 eP 02 12 09
 31 eP 02 34 52
 31 iP 09 29 59
 31 eP 12 12 53
 Aug. 1 iP 05 48 49
 2 eP 04 51 17
 3 iP 01 17 42
 Compression from southwest
 iP 01 19 42
 iP 20 36
 iS 27 08
 esS 30.7
 esSP 31.6
 esSS 35.6
 e 38.6
 Distance 84⁰
 Depth 550 km.
 Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$
 mu sec
 PZ 0.4 1
 PH 0.3 1
 pPZ 0.8 5
 pPH 0.7 5
 SH 2 8
 4 iP 04 31 41
 e 33 14
 e 35 33
 5 eP 21 38 42
 6 iP 10 02 33
 6 iP 21 20 41
 Compression
 i 21 20 51
 ePP 23 33
 iS 30 11
 iG 39.2
 iR 41.8

Aug. 6 Distance 73⁰
 Magnitude 6 $\frac{3}{4}$
 mu sec
 PZ 0.4 1
 PH 0.2 1
 PPZ 0.1 1 $\frac{1}{2}$
 SH 0.8 6
 MH 9 20
 MZ 4 20
 6 eP 22 03 24
 e 58
 9 iP 13 07 03
 eS 18 51
 e(SS) 25.3
 Distance 100⁰
 iP 07 04 16
 iS 05 14
 eP 20 26 01
 11 iP 08 06 03
 eS 17 13
 eP 08 24 19
 e 27
 eP 16 26 07
 iR 27 59
 iLg 29 08
 Distance 11⁰
 eP 19 39 45
 e 50
 eP" 43 43
 ePP 44 24
 eSKKS 51 17
 iPS 53 45
 iSS 59 45
 iG 20 09.1
 Distance 111⁰
 Magnitude 6 $\frac{1}{2}$ \pm
 mu sec
 MH 10 20
 12 iP 23 25 26
 13 e 04 19 15
 eG 36.3
 Distance 111⁰
 13 eP 10 55 12
 i 23
 e(S) 11 01 57
 13 iP 15 00 20



RICHMOND, SURREY
 AUGUST 14 1958
 12

C. F. Richter
 Professor of Seismology

KEW OBSERVATORY
 25 AUG 1958
 RICHMOND, SURREY.

63

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 August 19, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

Aug. 5 eP 20 52 31
 6 iP 03 00 31
 10 iP 23 53 56

Continuation:

Aug. 13 iP 17 03 23
 13 iP 20 21 24
 Dilatation
 iPP 20 23 32
 iS 28 10
 iG 32.7
 i(R) 34.4

Distance 47⁰
 Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$
 mu sec

PZ 0.2 2
 PH 0.5 1
 PPZ 0.5 1
 SH 0.5 14
 MH 2 $\frac{3}{4}$ 20
 14 eP 09 57 26
 e 43
 eS 10 07 29
 14 eP 12 15 46
 e 16 03
 14 iP 15 03 23
 Compression
 i 15 02 57
 iPP 05 23
 iS 09 55
 iG 15 13.3
 iR 16.0

Distance 44⁰
 Magnitude 6 $\frac{1}{2}$
 mu sec

PZ 0.2 1 $\frac{1}{2}$
 PH 0.1 1 $\frac{1}{2}$
 PPZ 0.8 5
 SH 3.2 12
 MH 28 20
 MZ 28 20

15 iP 06 29 30
 i 30 07
 e 31 27
 eS 36 29
 15 eP 13 29 04

Aug. 15 eP 20 05 35
 Compression from northwest

i 20 05 48
 i 53
 iS! 13 39
 iSS 17.6
 iG 20.2
 iR 23.3
 eP'P' 35 08
 iP'P' 21

Distance 59⁰
 Depth 60 km?
 Magnitude 6 $\frac{3}{4}$
 mu sec

mPZ 1 1 $\frac{1}{2}$
 mPH 1 $\frac{1}{2}$ 1 $\frac{1}{2}$
 SH 40 40
 MZ 60 26
 eP 22 43 39
 eP" 47 30
 iPP 48 36
 e(S) 55 35
 iS 59
 ePS 57.5
 ePKKP 58 43
 iSS 23 03.2
 iSSS 07.5
 iG 14.0
 eR 20.2

Distance 110⁰
 Magnitude 6 $\frac{3}{4}$ - 7
 mu sec

PZ 0.1 1 $\frac{1}{2}$
 PPZ 0.6 3
 MH 25 20
 MZ 15 20

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RICHMOND, SURREY
 KEW OBSERVATORY
 25 AUG 1958
 15

NEW OBSERVATORY
26 AUG 1958
RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 August 21, 1958

63

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Correction:
 Aug. 15

Continuation:
 Aug. 16

Aug. 17

Distance 95°
 (possible 108°)

Magnitude 6 1/4 - 6 3/4

eP 13 29 04
 read
 eP 13 28 04
 eP 11 25 57
 iS 36 00
 eL 46.2
 eP 13 26 08
 Dilatation
 i(pP) 13 26 18
 i 27
 eS 32 21
 eG 36.1
 eR 38.7

Distance 43°
 Depth 40 km?
 Magnitude 6 - 6 1/4

	mu	sec
PZ	1	4
SH	3 1/2	24
MH	8	20
MZ	5	20
iPP	19	32 56
eSKS		38 52
iPS		42 27
iPPS		43 37
iSS		49.5
eG	20	01.5
iR		06.4

Distance 120°
 Magnitude 6 3/4

	mu	sec
PPZ	1	6
PPH	3/4	6
MH	20	20
MZ	12	20
eP	09	16 54
iS		23 29
iG		27.0
eR		29.7

Distance 44°

eP 10 59 02
 e(S) 11 05 45
 e 11 24 35
 e(P) 18 14 45
 e(PS) 26 11
 i(PPS) 27 29
 iSS 31.9
 i 32.7
 eG 40.1
 iR! 44.1

Interpretation
 doubtful.

—17

18

18

18

18

18

18

19

19

19

19

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19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

19

iP 21 24 14

eS 35 15
 eG 48.2
 eR 52.4

Distance 92°
 eP 06 02 21
 eS 03 21

Magnitude 5 1/4
 e 06 36 58
 eP 06 45 30

eS 46 41
 Magnitude 5 1/2

eP 09 27 52
 e 10 25 06

eP 19 11 42
 eP 04 58 10
 eS 05 08 25

eSS 13.9
 eG 19.5
 iR 23 33

Distance 84°
 e 16 14 40

eP 16 39 35
 e 54

eP 22 01 25
 eSKS 11 47

eS 12 29
 eSP 13 33

eSS 18 35
 iG 26 11

iR 30 09
 Distance 94°

i(P) 01 19 46
 iP 03 53 47

Compression
 iS 04 03 26
 iSP 04 28

iR 18 55
 Distance 88°

Magnitude 6 1/4 - 6 1/2
 mu sec

PZ 1 7
 SH 1 1/2 7

MH 9 20
 MZ 5 20
 e 09 00 12

C. F. Richter
 Professor of Seismology

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

August 29, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:
 Aug. 14, e

Continuation:
 Aug. 21

11 46 14
 21

00 24 01
 epP 25 22
 eS 33 05
 eScS 33 37
 esS 35 29

Distance 76°
 Depth 350 km.

— 21

eP 01 21 11
 iS 31 17
 e 32 07
 e 33
 eG 41 33
 eR 45 10

Distance 82°

21

e? 04 15 43
 i 49
 e? 26.7
 eR 39.8

— 21

e? 12 16.1
 e 26 49
 e 32 27
 i 36 26

Interpretation
 doubtful

— 21

iP 21 10 29
 Compression
 ipP 21 11 21
 esP 45
 iS 19 51
 e(ScS) 20 13
 i 25
 eG 30 35
 eR 33 09

Distance 76°
 Depth 180 km.
 Magnitude less
 than 6

mu sec

— 22

PZ 1 1/2 10
 iP 23 28 48

Dilatation

— 26

eP'' 12 26 06
 eSKS 33 30
 eSS 44.0
 eG? 56.2
 eR 59 52

Distance 120°
 Overlaps the next

eSKS 12 57 48
 eSS 13 09 50
 eG 20.5

Aug. 26

eR 13 24 10
 Distance 120°?

— 26

iP 18 08 22
 eS 18 46
 eSP 19 50
 eSS 24.3
 eG 31.1
 eR 34.8

Distance 86°

— 26

eP 23 44 22
 e 56 14
 eSS 24 02.8
 eG 07.8
 eR 11.2

Distance 90°
 Doubtful

— 27

e 02 33 20
 eS 35 05
 e 36
 eG 42 39
 eR 44 38

Distance 66°
 Doubtful

27

eP? 15 30.2
 iPP 34 21
 iSKS 40 47
 eS 41.8
 iPS 43 15
 iSS 48 33
 eG? 57.8

Distance 105°
 Magnitude 6±

mu sec

MH 3 20
 MZ 4 20

— 28

iP 09 48 25
 eL 10 15.5

— 29

eP 12 37 07
 eS 47 39
 eSP 48 43
 eSS 53.0
 eSSS 57 03
 iR 13 03 17

Distance 87°
 Magnitude 5 3/4 - 6

mu sec

PZ 0.2 4
 SH 1/2 18
 MH 2 1/2 20
 MZ 2 20

C. F. Richter
 Professor of Seismology

63

NEW OBSERVATORY
9 SEP 1958
RICHMOND, SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
September 5, 1958
PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



Additional:
Aug. 28 eP
Continuation:
Aug. 30 iP

30

18 23 37
14 44 50
45 03
18 40 30
42.1
42 54
Distance 8°?
Magnitude 5³/₄ - 6 ?
(very uncertain)

Sept. 3

ePP. 04 02 09
eSKS 08 39
eS 09 35
ePS 10 53
eSS 16.2
eG 25.6
eR 30.6
Distance 102°
Magnitude 6 - 6¹/₄

mu sec

MH 120 15
iP 06 47 39
iP 23 06 55
eS? 12.3
iG 15.0

MH 5 20
MZ 3 20
eP 04 24 13
e 19
iP 08 22 04
iS 31 35
eSS 36.3
eG 40.9
eR 42.7

Distance 35°?

mu sec

MH 3 20
iP 23 39 21
iP 01 13 04
eL 30.0
eP 11 03 30
eL 05.0

Distance 70°
eP 07 07 39

Distance 8°?

14 42 16
31
15 41 09
42 40
02 40 41
57
e(S) 50 52
03 03.3
03 44
14 39 20
49
20 13 12
18 16
19.8
21.0

Distance 31°

C. F. Richter
Professor of Seismology

Sept 31
1

1
1
2
2
2

RICHMOND, SURREY
NEW OBSERVATORY
SEP 05 1958
10 11 AM

✓

✓

KEW OBSERVATORY
 16 SEP 1958
 RICHMOND, SURREY.

63

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 September 12, 1958



PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)
 Sept. 8

Correction:
 Sept. 2

Continuation:
 Sept. 4

	iP	03 10 44	
	read		
	iP	03 09 44	
	eP	22 03 27	
	i	32	
	Dilatation from southeast		
	iPP	06 40	
	iS	13 48	
	iG	26.2	
	iR	29.9	
	Distance	84°	
	Magnitude	6 ³ / ₄ - 7	
		mu	sec
	PZ	1	2
	PH	1	3
	SH	7	10
	MH	35	20
	MZ	20	20
4	iP	22 04 47	
	iS	15 00	
	Overlaps preceding		
	Distance	84°	
	Magnitude	6 ³ / ₄	
4	iP	22 07 31	
	iS	17 40	
	Overlaps preceding		
	Distance	84°	
	Magnitude	6 ³ / ₄	
5	iP	06 25 18	
5	iP	13 27 24	
7	e(P)	16 15 46	
	e(G)	17 01	
	e(Lg)	39	
	Distance	7° ?	

iP	05 35 39	
Compression		
i	05 35 53	
i	36 26	
iS	43 45	
iSS	47.7	
eG	50.4	
eR	53.0	
eRIP	06 05 20	
Distance	58°	
Magnitude	6 ¹ / ₄	
	mu	sec
PZ	0.2	1 ¹ / ₄
PH	0.2	1 ¹ / ₄
SH	2	5
MH	5	20
MZ	4	20
eP	15 06 13	
eS	16 09	
eL	32.7	
iP	22 37 16	
iP	11 42 57	
ipP	43 14	
iP	22 32 50	
ePP	35 01	
eS	40 25	
eG	45.5	
eR	47.6	
Distance	54°	
iP	00 05 11	
e	01 11 54	
e(P)	13 34 53	
iP	23 50 12	
i	24	

RICHMOND OBSERVATORY
 SEP 11 1958
 THE OBSERVATORY

C. F. Richter
 Professor of Seismology

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



Additional:

Sept. 4	iP	22	15	10
4	iP	22	17	03
4	eP	22	21	44
4	eP	23	21	31
4	eP	23	31	42
5	iP	03	53	42
5	iP	11	10	23
	e			37
5	eP	13	21	15
7	iP	05	26	57
7	eP	11	32	39
7	eP	14	01	06
8	e	08	42	58
10	iP	08	43	08

Sept. 14	eP	21	55	38
	i			44
15	eP	05	42	12
	eS		47	13
15	iP	17	01	04
	i			15
<u>15</u>	eP	19	59	29
	esP	20	02	52
	iP''		03	16
	ePP		04	19
	ipP''		05	49
	epPP		06	21
	esPP		07	25
	iSKS		09	05
	iSP		12	53
	ePKKP		14	10
	isSP		16	51
	eSS		19.3	
	iSSS		23.9	
	Distance		113°	
	Depth		650 km.	
	Magnitude		6 - 6 $\frac{1}{2}$	
		mu		sec
	PZ			17
	PPZ			14
	PPH			6
17	eP	12	34	25

Continuation:

Sept. <u>14</u>	iP	14	33	32
	ePP		36	25
	iS		43	21
	eSS		48.4	
	eL		53.8	
	iL		55.5	
	Distance		78°	
	Magnitude		6 $\frac{1}{4}$ - 6 $\frac{1}{2}$	
		mu		sec
	PZ		0.2	1 $\frac{1}{2}$
	PH		0.1	1 $\frac{1}{2}$
	PPZ		0.6	10
	SH		3	6
	MH		6	20
	MZ		3	20
<u>14</u>	iP	21	51	55
	i		52	02

C.F. Richter
 Professor of Seismology

NEW OBSERVATORY
 29 SEP 1958
 WIMBORNE, SURREY.

Seismological laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 September 25, 1958
 PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

63 ✓

Additional:
 Sept. 16 iP 04 03 52
 Continuation:
 Sept. 18 eP 21 34 29
 18 eP 23 20 02
 20 eP 10 44 54
 eS? 54.0
 eG 11 01.4
 eR 04.0
 Distance 70°±
 (20) iP 17 22 33
 Compression from southwest
 i 17 22 46
 ipP 23 04
 isP 15
 ePP 26 13
 eS 33 13
 i 48
 i 34 41
 eG 46.0
 eR 50.7
 Distance 90°
 Depth 100 km.
 Magnitude 6 $\frac{3}{4}$

	mu	sec
PZ	$\frac{1}{2}$	1
PH	0.2	1
MH	10	20
MZ	6	20
21 eP	05 56	59
i	57	18
21 eP	06 02	23
e		37
eS	06	45
21 iP	13 40	21
i	41	00
i		36
iS	49	37
eL	58.5	
22 iP	07 18	21
22 iP!	08 49	13
eS	58	03
22 iP	11 41	48
22 iP	19 18	34
Compression from southwest		
isP	19 19	15
ePP	22	01
e(S)	28	53
eS	29	01
iSP	30	19
eSS	35.2	
iG	42.1	
iR	45.4	

Sept. 22 Distance 88°
 Depth 110 km.
 Magnitude 6 $\frac{3}{4}$

	mu	sec
PZ	1 $\frac{1}{2}$	1 $\frac{1}{2}$
PH	0.5	1 $\frac{1}{2}$
PPZ	.08	1 $\frac{1}{2}$
SH	1 $\frac{1}{4}$	5
MH	10	20
MZ	8	20
23 iP	03 52	12
iS	53	45
24 e(P)	03 50	21
iP		39
eS	55	41
eG	57.8	
iR	59.0	
Distance 34°		
Magnitude 6 $\frac{1}{4}$		
	mu	sec
PZ	0.2	2
PH	0.1	2
24 eP	03 57	25
24 eP	14 05	05
e		24
25 eP	07 31	52
i	32	00
iPP	34	57
ePPP	36	37
iS	41	41
eSS	46.6	
iSSS	50.2	
iG	51.7	
iR	55.7	
Distance 78°		
Magnitude 6 $\frac{1}{2}$		
	mu	sec
PZ	$\frac{3}{4}$	2
PH	$\frac{3}{4}$	3
PPZ	0.8	4
SH	4	30
MH	7	20
MZ	5	20



International
 Seismological
 Centre

NATIONAL CENTER FOR SEISMOLOGICAL OBSERVATIONS
 PASADENA, CALIFORNIA
 SEP 25 1958

C. F. Richter
 Professor of Seismology

✓

NEW OBSERVATORY
13 OCT 1958
RICHMOND, SURREY.

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

October 8, 1958

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

63 ✓

Additional:
Sept. 16

eP 23 00 03
e 17
18 eP 14 54 32
e 45
19 eP 23 19 29
20 eP 12 23 32

Continuation:
Sept. 25

eP 15 28 38
eP 17 53 51
-25 iP 20 36 11
i 15
-26 eP 18 18 40
eS 25 41
eL 30.3
-27 iP 07 55 24
i 39
i 44
e 56 26
e 58 45
e 59 10
-27 iP 14 06 19
i 56
eS 15 21
eL 24.7
29 eP 00 02 58
-29 eP 14 28 54
i 29 04
e(S) 38 28
eL 46.0
e(P') 09 48 29
e(S) 58 09
e 59 57
e 10 06 37
e 07 21
e 10.0
e 11 09
eG1 17.1
eR1 24.7
eG2 11 10.8

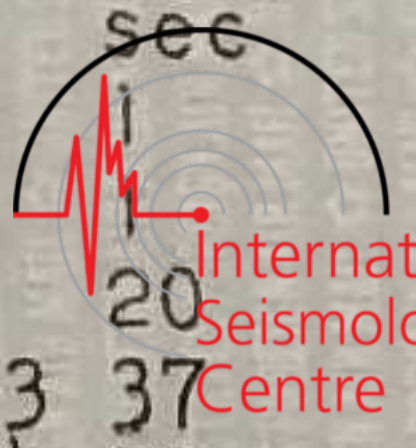
Oct. 1

(1) e(P') 09 48 29
e(S) 58 09
e 59 57
e 10 06 37
e 07 21
e 10.0
e 11 09
eG1 17.1
eR1 24.7
eG2 11 10.8
Distance doubtful
Magnitude $6\frac{1}{4}$

mu sec
MH 3 20
MZ $2\frac{1}{2}$ 20
-1 iP 17 54 37
Dilatation
ipP 17 54 50
eS 18 00 33
eG 03 21
Distance 39°
Depth 60 km.
Magnitude $6\frac{1}{4}$

Oct. 1

PZ 0.3
PH 0.2
SH 0.4
1 iP 21 43 37
iS 44 57
-2 eP 04 44 39
i 44
eL 59.3
-4 iP 01 03 13
-4 iP 10 03 59
i 04 12
-4 eP 11 45 37
i 42
i 49
iP 14 30 20
i 49
-5 iP 18 07 41
-6 iP 19 02 30
Compression from southwest
i 19 02 36
eS 10 34
Distance 60°
-7 iP 12 45 58
Dilatation from west
i 12 46 07
iS 56 42
e 58 09
i(SS) 13 03.1
e(G) 09.5
eR 14.9
Distance 88°
Magnitude $6\frac{1}{2}$ - $6\frac{3}{4}$
mu sec
PZ 0.3 $1\frac{1}{2}$
PH 0.1 $1\frac{1}{2}$
SH 1 22
MH 16 20
MZ 10 20
7 iP 15 53 13



C. F. Richter
Professor of Seismology

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 October 16, 1958
 PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:

Sept. 27 eP 22 40 08
 29 iP 17 18 53
 Oct. 3 iP 02 51 45
 3 iP 21 01 01

Continuation:

Oct. 8 e(P) 11 25 13
 -8 eP 14 13 42
 e 14 13
 9 eP 10 34 59
 -9 eP'' 11 39 06
 ePP 40 16
 eSKS 45 56
 e 47 13
 eSP 50 00
 eSS 56.6
 eR 12 16.7
 Distance 118°
 Magnitude 6½

mu sec

PPZ 0.1 2
 MH 3 20

9 eP 14 53 22
 e 34

-10 iP 08 40 18

Compression

ipP 08 40 38

iS 48 20

isS 52 18

eSSS 54.7

eP'P' 09 09 50

e 10 03

Distance 60°

Depth 80 km

Magnitude 6½

mu sec

PZ 0.3 1

PH 0.1 1

SH 0.8 5

MH 3 20

MZ 2 20

-11 iP 02 10 41

eS 18 38

eL 26.1

-11 iP 14 49 14

Dilatation from southeast

i 14 49 43

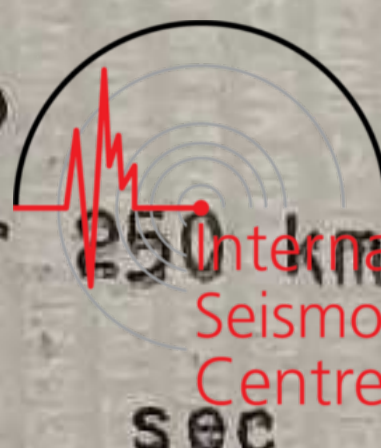
i 50 11

eS 58 40

eG 15 09.6

eP'P' 16 08

Oct. 11 Distance 78°
 Depth 150 or 250 km
 Magnitude 6



International
 Seismological
 Centre

mu sec

PZ 0.6 2

PH 0.5 2

SH 7

-12 iP 09 56 10

-12 iP 15 31 35

Dilatation

ipP 15 32 35

eSKS 41 43

eS 42 17

eSP 43 31

isS 44 09

i 45 13

iSS 48.7

Distance 94°

Depth 250 km

Magnitude 6¾

mu sec

PZ 0.3 1½

PH 0.2 1

13 iP 05 39 19

14 iP 09 16 30

15 i 42

eP 11 44 14

e(S) 52 40

C. F. Richter
 Professor of Seismology

KEW OBSERVATORY
 20 OCT 1958
 RICHMOND, SURREY.

NEW OBSERVATORY
27 OCT 1958
RICHMOND, SURREY.

63

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 October 24, 1958
PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:

Sept. 29	eP	00 15 35
Oct. 6	eP	00 59 49
7	eP	16 12 14
	e	36
8	e	15 50 50
8	eP	18 12 24
9	eP	00 15 38
	e	49
9	eP	04 38 40
	e	58
10	eP	21 14 59
11	eP	00 48 09
11	eP	09 18 43
11	eP	21 52 58
12	eP	01 45 03

Continuation:

Oct. 15	iP	15 21 16
-16	iP	18 14 28
	eS	24 40
-17	iP	10 35 19
-18	eP	06 43 10
	e(S)	50 28
18	eP	19 20 50
	e	58
-19	i(P)	02 05 42
	e(SKS)	15 08
	eSS	24.4
	eG	35.1
	DOUBTFUL	
19	iP	11 55 38
	eS	12 06 20
	ePS	07 30
	ePPS	08 04
	eG	18.8
	eR	22.7
	Distance	88°
	mu	sec
	MH	2 1/2 20
-20	iP	01 03 50
	iS	10 13
	eG	13.9
	eR	15.3
	Distance	44°
	mu	sec
	MH	2 20
	MZ	1 3/4 20

Oct. 20	iP"	01 31 39
	ipP"	51
	iPP	33 37
	ipPP	34 01
	eSS	51.1
	eG	02 05.1
	eR	10.1
	eW ₂	03 02
	Distance	128°
	Depth	100 km
	Magnitude	6 1/2
		mu sec
	P"Z	3/4 1
	PPZ	0.8 1
	PPH	1/4 2
	MH	2 23
21	iP	06 28 25
	eS	39 40
	iG	55.6
22	iP	23 55 28
	i	37
	iPS	24 07 08
	iR	21.6
	Distance	88°
	Magnitude	6 1/2 - 6 3/4
		mu sec
	PZ	0.2 1
	PH	0.06 1
	MH	1 3/4 20
	MZ	2 20
23	eP	16 56 45

C. F. Richter
 Professor of Seismology



NEW OBSERVATORY
 7 NOV 1958
 RICHMOND, SURREY.

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 November 4, 1958

63

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:

Oct. 15	eP	21	51	52
Oct. 18	eP	07	48	49
18	iP	16	29	29
	i			44
19	eP	21	27	45
20	eP	21	30	14
Continuation:				
Oct. 24	iP	14	13	41
25	iP	01	03	04
-27	iP	18	28	04
27	iP	19	30	44
	i			51
	i		31	03
28	eP	07	18	46
-28	e	11	05	56
	i		11	57
	iPS		15	33
	eSKKP		16	06
	iPPS			42
	eSS		21.7	
	eG		36.3	
	eW ₂	12	28.7	
	Distance	128°	?	
-28	iP	23	58	44
	e			58
	i	24	00	00
	iS		05	39
	eL		11.4	
	Distance	48°		
29	iP	07	52	47
	i		53	09
	i			34
	iPP		54	36
	e		55	27
	e		58	09
	iS		59	39
	eScS	08	02.6	
	eG		03.5	
	e		04.3	
	iLg		06.6	
	Distance	46°		
	Magnitude	6 1/4		
		mu	sec	
	PZ	3/4	1	
	PH	0.3	1 1/2	
	PPZ	0.1	1	
	SH	10	26	
	MH	16	24	
	MZ	15	20	
-29	iP	08	03	53
	i		04	11
-29	iP	08	14	56
	i		15	07
30	eP	10	17	40
31	iP	00	27	24

Oct. 31	e	07	13	43
31	eP	18	01	46
	e			57
-31	iP	23	52	57
	i		53	16
Nov. 1	eP	03	51	55
	i		52	03
	ePP		55	50
	iSKS	04	02	35
	iS		03	05
	iPS		04	17
	iSS		09.4	
	eG		16.7	
	eR		20.0	
	Distance	92°		
	Magnitude	6 1/4	-	6 1/4
		mu	sec	
	PZ	0.08	1	
	PH	0.04	1	
	PPZ	0.4	3	
	SH	1 1/2	8	
	MH	10	20	
	MZ	4 1/2	20	
-1	eP	06	20	25
-1	iP	12	29	24
	iS		40	01
	iPPS		41	15
	iSS		46	13
	iG		52.7	
	eR		56.3	
	Distance	88°		
	Magnitude	6	-	6 1/4
		mu	sec	
	PZ	0.06	1	
	PH	0.04	1	
	SH	2	28	
	MH	14	20	
	MZ	10	20	
-1	eP	16	03	02
	eS		13	41
	eG		26.3	
	Distance	90°		
1	e	17	38	30
1	eP	19	51	12
	e			32
1	iP	22	45	38
-2	eP	10	52	37
	e			55
	eS		59	08
	eG	11	02.9	
	eR		05.7	
	Distance	44°		

C. F. Richter
 Professor of Seismology

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

November 7, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:
 Oct. 12

eP 11 24 35
 e 41
 29 eP 19 34 15
 30 eP 03 53 19
 Continuation:
 Nov. 4 iP 08 40 57
 ipP(or sP) 08 43 28
 e 51 01
 e 52 05
 iSP 53 46
 e 54.6
 e 09 05.2
 e 07.0
 i(L?) 09.4

Interpretation
 ambiguous.

Distance $108^{\circ} \pm$

Depth 720 or 460 km

4 eP 09 25 24
 e 26 01
 4 e(P) 20 07 48
 4 eP 23 07 18
 e 09 53
 eSKS 17 45
 ePS 18 45
 iSS 23 21
 e 30.1
 iR 34.2

Distance 87°

Magnitude 6

	mu	sec
PZ	0.1	2
MH	4	20
MZ	3	20
5 eP	08 11	15
e		45
e		12 00
5 iP	15 54	22
-6 iP	15 48	17
-6 iP!2	23 09	12

Compression from
 northwest

iS 23 18 11
 iG 26.2
 iR² 29.7
 eP¹P¹ 37 18
 eG² 25 01.7
 eG³ 58

Distance 69°

Magnitudes:

M = $8-8\frac{1}{4}$

m = 7.5-7.8

Nov. 6

	mu	sec
PZ	8	13
PH	12	3
SH	60	10
MH	650	20
MZ	500	20
-7 iP	00 47	26
i		43
7 iP	00 49	12
i		27
-7 iP	01 25	06
i		17
-7 eP	01 54	05
e		18
-7 eP	01 56	14
-7 iP	02 06	55
7 eP	02 21	23
e		38
7 iP	02 49	17
e		29
-7 eP	03 02	00
e		11
-7 eP	05 10	59
i		11 12
-7 eP	07 51	44
e		54
7 iP	07 58	03
-7 iP	10 40	31
e		48
-7 eP	11 35	26
e		39
e		47
7 eP	11 42	25
7 eP	14 35	57

C. F. Richter
 Professor of Seismology

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KEW OBSERVATORY
 11 NOV 1958
 RICHMOND, SURREY.



NEW OBSERVATORY
18 NOV 1958
RICHMOND, SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
November 14, 1958

63

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)

Additional:

Oct. 29	eP	06	16	14
Nov. 2	eP	19	05	15
	e			24
3	eP	04	13	17
	e			42
3	eP	16	20	38
4	eP	03	10	31
5	eP	12	57	58
5	eP	13	11	17
6	eP	08	21	41
6	eP	15	59	13
7	eP	02	35	15
7	eP	08	24	32

Continuation:

Nov. -7	eP	17	43	55
	e		44	10
-7	iP	19	25	38
7	iP	20	36	55
7	iP	20	42	25
7	eP	21	34	28
	i(S)		35	13
7	iP	23	17	31
8	eP	03	12	21
8	eP ₂	09	32	58
	i		33	07
	i			12
	i			17
	iS		41	11
	iG		47.7	
	iR		50.9	
	eP ₁ P ₁	10	01	53
	Distance	62°		
	Depth	70 km?		
		mu		sec
	PZ	0.1		1½
	PH	0.1		1
	SH	1½		20
	MH	2		20
	MZ	2		20
-8	iP	12	19	39
-9	iP	03	25	59
	i		26	13
9	eP	10	30	17
-9	iP	18	04	05
	e			16
-9	eP	21	15	59
	e		16	11
10	eP	07	06	03
	iS		12	50
	eG		16.3	
	iR		18.7	
	Distance	46°		

Nov. 10	eP	11	21	15
	iS		27	50
	iG		32.1	
	iR		33.8	
	Distance	46°		
11	eP	11	24	58
	iG		28.6	
	eR		29.6	
	Distance	20°		

		mu		sec
	MH	3		20
	MZ	2		20
-12	iP	10	52	48
	eS	11	04	51
	eL		20.4	
-12	iP ₁	20	34	36
	ipP			47
	iS		43	35
	iSS		44	03
	iSSS		48	19
	iSSS		51.5	
	eG		52.5	
	eR		55.3	
	eP ₁ P ₁	21	02	47
	Distance	69°		
	Depth	40 km		
	Magnitude	6¾		- 7

		mu		sec
	PZ	2		2
	PH	1		2
	SH	2		5
	MH	70		20
	MZ	35		20
12	eP	23	50	55
13	iP	03	07	37
13	iP	04	15	49
	ipP		16	02
	iS		24	51
	eSS		30.0	
	eG		32.8	
	eR		36.5	
	eP ₁ P ₁		43	55
	Distance	69°		
-13	iP	06	11	44
-13	eP	09	15	27



C. F. Richter
Professor of Seismology

W OBSERVATORY
 24 NOV 1958
 RICHMOND, SURREY.

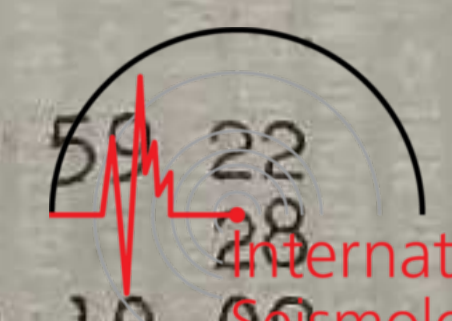
Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 November 20, 1958
 PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

63 ✓

Additional:
 Nov. 6 e 23 25 30
 6 e 23 27 11
 11 eP 22 49 21
 12 eP 06 18 11

Continuation:
 Nov. 13 iP 18 45 35
 e 58
 -14 eP 05 15 50
 eS 25 07
 -14 iP 05 46 01
 ipP 13
 -14 iP 05 52 43
~~14~~ iP 05 55 35
 e 54
 e 56 11
 14 eP 05 59 18
 e 49
 -14 eP 14 02 49
 e 03 01
 e 30
 14 e(P) 14 06 38
 e 57
 e(S) 15 08
 -14 eP 15 29 30
 i 42
 -15 iP2 09 11 56
 ipP 12 06
 isP 18
 iS 20 52
 iScS 22 00
 eG 28.9
 eR 32.5
 Distance 68°
 Magnitude $6\frac{1}{2}$ - $6\frac{3}{4}$
 mu sec
 PZ 0.5 2
 PH 0.2 $1\frac{1}{2}$
 MZ 2 20
 -16 iP2 17 56 11
 i 26
 iS 18 05 44
 iScS 06 18
 eG 14.5
 eR2 16.8
 Distance 72°
 Magnitude $6\frac{1}{4}$
 mu sec
 PZ 0.3 $1\frac{1}{2}$
 PH 0.2 $1\frac{1}{2}$
 MH 2 20
 MZ 5 20

Nov. 17 iP 09 59 22
 i 28
 eS 10 10 09
 eSS 15.8
 eG 22.5
 eR 26.2
 Distance 87°
 -18 eP 07 53 58
 i 54 11
 eS 08 00 49
 eScS 03.8
 eG 05.5
 eR 07.7
 Distance 48°
 18 eP 08 05 17
 -19 iP! 01 46 21
 -19 iP 09 34 55
 i 35 04
 i 09
 eS 43 54
 eG 51.9
 eR 55.8
 Distance 68°
 -19 iP 15 08 55
 i 09 09
 eS 14 20
 eG 16.8
 eR 18.6
 Distance 35°
 19 iP 15 11 33
 19 iP 19 42 13
 -20 eP 05 46 43
 i 51
 eS 54 50
 eG 06 01.6
 eR 04.5
 Distance 59°
 -20 iP 14 29 02
 ipP 15
 eS 38 02
 eG 45.8
 eR 49.8
 Distance 68°
 Depth 60 km



International
 Seismological
 Centre

C. F. Richter
 Professor of Seismology

KEW OBSERVATORY
- 9NFC 1958
RICHMOND, SURREY.

63

Seismological Laboratory
 220 North San Rafael Ave.
 Pasadena 2, California
 December 5, 1958

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)



Additional:
 Nov. 13 e
 19 iP
 Continuation:
 Nov. 20 eP

e
 21 eP
 e
 22 iP
 i
 e
 23 eP
 e
 23 eP
 e
 24 iP
 25 iP
 26 eP
 27 iP
 e
 28 eP
 28 eP
 28 eP
 e
 29 eP
 e
 29 iP
 29 eP
 29 iP
 29 eP
 30 iP2
 i
 ePP
 iS
 iSS
 eR 2
 Distance 80°
 Magnitude 6
 mu sec
 PZ 0.3 2
 PH 0.2 1 1/2
 SH 0.3 3
 MH 6 20
 MZ 4 20
 -30 iP 02 07 39
 i 43

05 21 20
 04 06 44
 23 11 59
 12 06
 01 52 06
 16
 00 23 33
 45
 25 33
 22 27 46
 28 10
 23 45 53
 46 17
 22 36 17
 13 33 52
 11 13 38
 15 10 03
 21
 04 56 07
 05 11 20
 07 38 11
 29
 04 59 11
 30
 10 50 11
 13 57 51
 21 24 48
 23 24 51
 01 44 51
 56
 47 51
 54 53
 02 00 13
 08.7

Dec. 1 iP 03 22 02.2
 i 07.2
 iS 42.2
 Magnitude 5.7
 Felt in Imperial Valley and San Diego
 Minor damage at Calexico.
 Magnitude preliminary
 1 iP 03 50 51.3
 i 55.2
 iS 51 32.0
 Magnitude 5.0
 Magnitude preliminary
 1 iP 04 27 32.6
 iS 28 13.8
 Magnitude 4.7
 Magnitude preliminary
 1 iP 04 56 49
 i 57
 iP 06 03 14.9
 i 18.5
 iS 55.6
 Magnitude 5.6
 Magnitude preliminary
 2 iP 17 45 32
 i 37
 i 40
 e 47 47
 3 eP 12 54 34

C. F. Richter
 Professor of Seismology

PROVISIONAL READINGS AT PASADENA
 (and auxiliary stations as noted)

Additional:
 Dec. 1

El Centro
 iP 03 21 31.2
 i 33.5
 iS 42.3
 Hayfield
 iP! 03 21 44.0
 Palomar
 iP! 03 21 43.7
 Barrett
 iP! 03 21 34.2
 iS! 45.8
 2 eP 01 23 38
 e 47

Continuation:
 Dec. 3
 4

iP 16 12 39
 eP 19 26 28
 iPcP 28 51
 iS 32 13
 iG 35.0
 Distance 36°
 6 iP² 09 41 47
 i 55
 i 42 41
 iS 48 23
 iG 51.6
 iR 55.1

Distance 45°
 Magnitude 6 - 6½
 mu sec
 PZ 0.2 1½
 PH 0.2 1½
 SH 4 16
 MH 14 20
 7 eP 17 46 30
 7 iP 18 02 36
 i 03 17
 iG 06.5
 iR 07.5

Distance 21°
 mu sec
 PZ 0.9 2
 PH 1 2
 MH 10 20
 MZ 10 20
 8 eP 12 19 31
 e 43
 eS 28 29
 eG 36.3
 eR 39.7

Distance 69°
 9 eP 12 30 32
 e 41
 9 eP 19 10 56
 9 iP 19 30 39
 i 31 13

Dec. 9 i 19 31 26
 10 iP² 07 15 43
 Compression from southwest
 i! 07 15 45
 iP 17 01
 iPP² 19 31
 iP³ 20 27
 e 25 28
 iSKS 47
 iS 26 31
 eSP 27 41
 ePS 28 16
 iSS 32.8
 ePKKP 32 54
 Distance 94°
 Depth 300 km.
 Magnitude 6¾

mu sec
 PZ 2 4
 PH 0.7 5
 PPZ 1 2½
 PPH 1 6
 SH 9 10
 10 e(P) 08 02 00
 10 eP 15 08 34
 10 eP 21 17 10
 eG 19.7

Distance 14°
 10 iP 21 52 24
 eG 54.8
 eLg 56 29
 iPcP 57 48
 Distance 14°
 Magnitude 5¾

mu sec
 PZ 0.7 2
 PH 0.9 5
 10 eP 22 12 52
 eG 15.3

Distance 14°
 10 eP 22 43 42
 i 54
 10 iP 23 17 48
 11 eP 08 25 34
 eG 28.0
 eR 28.5
 eLg 29 37

Distance 14°
 11 iP 09 53 41.1
 i(S) 54 57
 Magnitude 4.6
 Felt at San Francisco

C. F. Richter
 Professor of Seismology

16 DEC 1958

RICHMOND,
 SURREY.



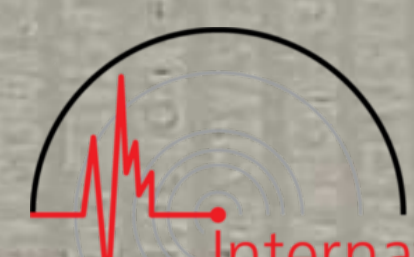
International
 Seismological
 Centre

KEW
SERVATORY
30 DEC 1958
RICHMOND,
SURREY.

Seismological Laboratory
220 North San Rafael Ave.
Pasadena 2, California
December 24, 1958

63

PROVISIONAL READINGS AT PASADENA
(and auxiliary stations as noted)



International
Seismological
Centre

Additional:

Nov. 30	iP	20	01	15
Dec. 4	eP	12	40	52
Dec. 4	eP	12	43	41
11	China Lake			
	eP	09	53	33.6
	i			35.8
	iS	54		42.7
	Haiwee			
	eP	09	53	29.7
	iS	54		24.4
	King Ranch			
	iP	09	53	16.1
	Tinemaha			
	eP	09	53	23.2
	iS	54		01.9

Continuation:

Dec. 11	eP	18	50	37
13	iP	09	26	27
14	iP ²	07	22	37
	iS		31	49
	iScS		32	17
	iSS		36	17
	iSSS		40.0	
	iG		41.1	
	eR ²		44.4	
	Distance	72°		
	Depth	60 km		
	Magnitude	6		
		mu	sec	
	PZ	0.2	1½	
	PH	0.1	1	
	SH	1.1	24	
	MH	4	20	
	MZ	4	20	
14	eP	07	36	31
14	eP	13	30	12
	iG		32.8	
	eLg		35.3	
	Distance	15°		
14	iP	15	43	54
15	e	07	58	57
15	eP	11	57	40
15	iP	12	53	12
	i			28
17	eP	02	33	13
	e			26
-17	iP	09	08	56
-17	iP	15	47	27
17	e	20	47	11
-18	iP	07	37	10
	i			26

Dec. -18	iP	19	35	21
	eS		44	29
	eL		54.0	
19	iP	04	35	19
-19	eP	10	00	58
	e		01	23
	eS		10	21
	eL		19.9	
-19	iP	11	25	24
	i			39
	eS		34	13
-19	e	18	44	33
	e			56
	e		51	25
	e		55	01
	e(G or S)		55	21
	e	19	02.1	
	e(R)		05.8	
	Interpretation			
	unsatisfactory			
-20	iP	19	33	56
20	iP	21	31	51
-21	eP"	06	03	49
	ePP		04	24
	eSKS		10	52
	ePPS		14	21
	eSS		18.8	
	eG		29.4	
	e(R)		32.3	
	Distance	103°		
		mu	sec	
	MH	3¾	20	
21	iP	13	15	41
22	iP	02	30	24
23	iP	06	36	01
	i			13

C. F. Richter
Professor of Seismology

Meilleurs Desux
Feliz Año Nuevo
Glückliches Neues Jahr
C Hobbin Togom
Merry Christmas
Happy New Year to

Continuation of Dec. 1958
all Publ. Jan 1959.