GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL INSTITUTE
POST BOX NO. 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ Quetta, the January, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st January to 8th Jan. 1969

Continuation:

January, 1969

1	Qt	eP	05	06	07.8d
1	Qt	eP	08	30	35.8
		eS		32	40.4
1	Ml	iP	09	18	41.9c
	Qt	iP		19	14.1c
	Kr	eP			35.5
1	Qt	eP	16	16	35.3
1	Qt	eP	20	06	55.9
		eS		08	09.9
2	Qt	eP	00	01	11.1
2	Qt	eP	10	20	55.4
		e(S)		24	02.5
2	Qt	eP	14	17	58.4
2	Qt	eP	16	43	18.6
2	Ch	eP	17	28	09.7
		eS			34.0
	Qt	eP		33	02.6
2	Qt	eP	18	09	23.4
		eX			44.4
2	Qt	eP	18	17	11 onset poor
3	Qt	eP	03	19	08.2
		eS		21	17.6
	Ml	eP		19	53.1
	Lh	eX		20	04
	Kr	eP			11.1
	Ch	eP		23	13

H = 03 : 16 : 27
37°.2N, 56°.3E
Khurasan, IRAN
Depth about 33 km

3	Qt	eP	11	38	19.1
3	Ml	eP	13	39	50.8
	Lh	eP			55
	Qt	iP		40	23.7c
		eS		50	28.4
	Kr	eP	13	40	40.0
3	Qt	eP	23	46	35.1d

January, 1969

4	Wr	P	01	33	00
		S			31
	Ml	eP			20.8
		iS		34	07.7
	Qt	eP			05.2
		eS		35	24.5

H = 01 : 32 : 20
36°.4N, 71°.1E
HINDUKUSH REGION
Depth about 160 km

4	Qt	eP	18	20	33.0
4	Qt	eP	20	34	37 onset poor
4	Qt	iP	22	47	53.4c
5	Qt	eP	01	43	21.1
5	Ml	eP	02	40	38.3
		iS		41	56.0
	Qt	eP			46 onset poor
5	Qt	eP	07	39	08.8
5	Qt	eP	10	00	25.7
5	Ml	iP	12	28	47.1d
		iS		29	36.5
	Qt	eP			21.6
		eS		30	39.8
5	Ch	iP	13	38	03d
		eS		47	23
	Lh	eP		39	34d
		iS		50	17
	Ml	iP		39	37.2d
	Kr	eP			59.7
	Qt	eP		40	01.9
		eS		51	06.8
5	Qt	eP	15	09	20 onset poor
	Ml	eP			42.0
		eS		10	31.5
5	Qt	eP	16	24	57.8
5	Lh	eP	17	01	02
	Ml	eP			09.5
	Qt	iP			33.8c
5	Qt	eP	18	56	58.9

January, 1969

6	Qt	eP	05	59	56.4
6	Qt	eP	06	57	44.4c
6	Qt	eP	09	43	37.1d
6	Wr	eP	15	49	09
	Qt	eP			15.3
6	Ch	eP	15	51	02
		eS	16	01	01
	Lh	eP	15	52	25
	Ml	eP			31.6
	Qt	eP			52.4
		eS	16	04	36.0
6	Wr	P	17	30	24
	Ml	eP			42.5
		iS		31	30.2
	Qt	iP		24	24.2d
		iS		32	44.9

H = 17 : 29 : 40
36°.3N, 71°.2E
HINDUKUSH REGION
Depth about 223 km.

6	Qt	eP	17	37	32.5d
6	Qt	eP	17	47	41.9
6	Wr	P	19	38	49
		S		39	21
	Ml	eP			09.0
		iS			56.5
	Qt	iP			47.7
		iS		41	05.0

H = 19 : 37 : 07
36°.2N, 70°.9E
HINDUKUSH REGION
Depth about 223 km

6	Qt	eP	20	37	55 onset poor
	Lh	eP		38	05
6	Qt	eP	21	09	04 Onset poor

January, 1969

7	Qt	iP	01	26	36.7d
7	Ch	eP	07	08	41
	Wr	P		10	48
	Qt	iP		11	20.7
7	Lh	eP	19	32	38
		eS			44
	Wr	P		33	39
	Ml	e(P)		33	50.9
	Qt	eP		34	36 onset poor
7	Qt	eP	22	08	06.0
8	Qt	eP	03	46	15.0
8	Qt	eP	06	06	35.3d
8	Qt	eP	14	07	17.9d
8	Ml	iP	16	44	23.1d
		iS		45	13.5
	Qt	eP			12.2
		eS		46	44.4
8	Qt	iP	22	07	14.1c

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services.

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
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POST BOX NO.2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ Quetta, the January, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th January, 1969

Continuation

January, 1969

9	Wr	P	07	46	13	
		S		47	07	
	Qt	eP			22.0	
		e(S)		49	10.4	
9	Qt	eP	12	36	14.4	
9	Qt	eP	13	55	41.4	
9	Qt	eP	16	00	34.3d	
9	Qt	eP	21	25	12.1	
		eS		26	36.4	
10	Qt	eP	00	59	37.3d	
10	Qt	eP	08	37	30.2	
10	Qt	eP	11	26	40	onset poor
		e(S)		31	46	
	W-	P		27	21	
10	Qt	eP	23	20	16.3	
11	Qt	eP	02	17	17.5	
		eS		18	25.4	
11	Qt	eP	04	45	21.7	
11	Qt	eP	05	06	38.1	
11	Qt	eP	07	17	05.0	
11	Qt	eP	12	11	30.8	
11	Qt	eP	13	01	57.0	
		eS		02	23.7	
11	Qt	eP	22	00	25.9	
11	Qt	iP	22	26	35.8c	
		eS		27	57.9	
11	Qt	iP	23	57	25.6d	
12	Qt	eP	14	32	12.2	
12	Wr	P	18	18	16	
	Qt	eP		19	18	onset poor
		eS		20	36.3	

January, 1969

12	Wr	P	22	22	16
		S			42
	Qt	iP		23	12.8
		eS		24	22.6
13	Qt	eP	01	25	35.0
13	Qt	eP	05	46	29.3
13	Qt	eP	06	56	16.6
	Wr	P			29
13	Qt	eP	07	08	00.6
13	Ch	P	09	06	27
	Wr	P		08	10
	Qt	eP			26.2
13	Qt	eP	09	44	35.1
13	Qt	iP	10	46	37.9c
13	Qt	eP	12	40	35 onset poor
13	Qt	eP	14	38	37.2d
13	Qt	iP	21	54	46.4
		iS		55	00.9
	Wr	P		55	48
13	Qt	eP	22	29	18 onset poor
14	Qt	eP	15	37	36.3
14	Qt	iP	16	12	08.9c
14	Qt	iP	23	18	32.0
		eS		23	38
	Lh	P		19	19
		S		25	04
	Ch	P		21	33
15	Qt	eP	08	53	12.6
15	Qt	eP	12	24	17.6
15	Qt	eP	13	09	09.0

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services

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November, 1968

7	Lh	eP	10	33	20
7	Kr	eP	14	25	59.8
7	Lh	eP	14	46	34
8	Lh	eP	10	07	31
		eS			57
8	Lh	eP	10	45	10
		eS			36

January, 1969

9	Wr	eP	07	46	13.1
		eS		47	06.1
	Ml	iP		46	21.3c
	Qt	eP		47	22.0
		eS		49	10.4

	Mu	Sec
PZ	0.01	0.5

△ - 9°.9

H - 07 : 45 : 02
39°.2N, 73°.2E
Tadzhik S.S.R.
Depth about 160 km
Mag - 4.7(Qt)

9	Wr	eP	12	35	58.2
9	Wr	eP	13	55	25.9
9	Wr	eP	21	24	07.7
	Ml	eP			28.8
11	Ml	eP	02	16	35.8
	Wr	eP		17	02.1
11	Wr	eP	12	11	51.2
11	Wr	eP	22	25	37.3
	Ml	eP			56.0
	Qt	iP		26	35.8c
		e(S)		27	57.9
12	Ml	eP	18	18	38.6c
		iS		19	24.8
12	Wr	eP	22	22	16.0
		eS			42.0
	Ml	iP			41.7d
		iS		23	27.7
	Qt	eP			12.8
		eS		24	22.6

H - 22 : 21 : 42
35°.6N: 70°.1E
Hindukush Region
Depth about 160 km

13	Wr	eP	10	47	10.6
13	Kr	eP	21	55	50.6
14	Wr	iP	23	18	52.7c
		iS		24	20.2
	Kr	eP		18	55.3
	Ml	iP		19	12.5c

January, 1969

15	Ml	iP	08	53	39.0d
15	Lh	eP	13	08	33
		eS		16	13
	Ml	eP		08	44.5d
	Kr	eP			54.2
	Wr	eP		09	08.3d

Continuation
January, 1969

16	Qt	eP	07	22	04.2
16	Qt	eP	11	25	32.0
16	Qt	eP	15	30	05.3d
16	Qt	eP	15	45	25.1d
16	Qt	eP	16	04	40.8d
16	Wr	eP	17	17	06.0
	Qt	iP			34.7c
17	Qt	eP	03	11	25.2
17	Wr	eP	03	39	59.4
	Qt	eP		40	01.5
17	Qt	eP	03	47	13.1
17	Wr	iP	20	41	26.8d
	Qt	iP		42	26.2c
		eS		43	44.1
17	Qt	eP	21	09	23.6
17	Ch	eP	03	21	22.5
	Qt	eP			07.7
	Wr	eP			16.6
18	Ch	eP	03	57	04
		eS	04	02	50
	Lh	eP	03	59	22
		eS	04	07	02
	Qt	eP	03	59	58.0d
18	Qt	eP	04	05	46.4
18	Wr	eP	06	38	40.3
		eS		39	19.1
	Qt	eP			31.2
18	Wr	eP	17	56	55.5
	Ml	iP		57	13.2c
	Qt	eP			59.4
		eS		59	26.2
18	Qt	eP	22	38	55.9d
18	Wr	eP	22	41	57.5
	Ml	eP		42	13.0
	Lh	eP			33
	Qt	eP		43	10.0
		eS		44	40.2
19	Qt	eP	03	31	24.3
19	Ch	iP	07	10	22d
		eS		16	55
	Ml	eP		11	08.6
		iS		18	26.0
	Lh	eP		11	10d
		eS		18	20
	Wr	iP		11	13.6d
		iS		18	33.7
	Qt	eP		11	51.6
		eS		19	43.1
	Kr	eP		12	13.2d
		eS		20	26.5

International Seismological Centre

19	Lh	eP	17	29	08
	Wr	iP			29.8d
	Qt	iP			47.7d
19	Ch	iP	19	03	08d
	Lh	eP		04	26
	Wr	eP		04	28 onset poor
	Ml	eP			30.4
	Qt	eP			54.2
		ePP		09	16.7
	Kr	eP		05	34.4
19	Qt	eP	19	38	20 onset poor
19	Qt	eP	19	47	45.5
20	Qt	eP	11	17	38.0c
20	Ch	eP	12	36	41
	Qt	eP		38	30.8
		eS		49	18.0
20	Ch	eP	14	30	39.4
		eS		39	09.4
	Ml	eP		30	51.3
	Wr	iP			51.7c
	Lh	eP			55
		eS		39	39
	Qt	iP		31	27.0c
	Kr	eP			50.5d
20	Qt	eP	20	34	38.6
21	Qt	eP	00	12	52.0c
21	Ch	eP	01	51	38
	Ml	eP		55	47.2
	Wr	eP		56	02.3c
	Qt	iP			04.1
21	Ch	eP	01	56	02
	Qt	eP		58	31.1c
21	Qt	eP	08	18	46.5
	Wr	eP			48.2
21	Wr	eP	14	13	19.5
	Qt	eP		14	44.8
21	Wr	eP	14	38	22.1
	Qt	eP		39	15.5
		eS		40	51.8
	Kr	eP			23.8
	Ch	eP		42	41

H - 14 : 37 : 12
38°.0N, 70°.7E
Tadzhik S. S. R.
Depth about 96 km

21	Wr	eP	19	17	49.4
	Lh	eP		17	53
		eS		18	18
22	Wr	eP	04	16	47.8d
	Ml	eP		17	13.6
	Qt	iP			41.2
		eS		18	53.3

22	Ch	eP	17	24	23
	Qt	eP		25	31.7
22	Qt	eP	18	12	09.0
22	Wr	eP	19	42	58.6
		eS		43	30.0
	Qt	eP			13.1
		eS			53.9
	Ml	iP			14.2d
	Lh	eP			19
		eS		44	04
	Kr	eP			11.9
	Ch	eP		47	17

H - 19 : 42 : 20
32°.1N, 69°.8E
West Pakistan
Depth about 96 km.

22	Kr	eP	20	04	54.2
		eS		05	12.4
	Qt	eP			59.4
22	Wr	eP	21	49	11.9
	Qt	eP			40 onset poor
22	Wr	eP	22	03	57.5
		eS		04	28.4
	Qt	iP			27.4d
22	Kr	eP	23	14	32.5
		eS			50.8
	Qt	eP		15	37.6
		eS		16	46.7
23	Qt	iP	02	09	06.2d
23	Lh	eP	15	16	59
	Ml	eP		17	06.2
	Wr	eP			31.4
	Qt	eP		18	26.5
23	Lh	eP	20	01	48
	Ml	eP			55.6
	Wr	eP		02	25.8
	Qt	eP		03	15.4
		eS		04	47.8
23	Lh	eP	23	46	53
		eS		47	17
	Ml	eP			02.1
		iS			31.2
	Wr	eP			30.6
	Qt	eP		48	22.0
		eS		49	53.5

H - 23 : 46 : 23
32°.1N, 76°.3E
Himalaya Range Region
Depth about 96 km.

(K.U.Siddiqi)T.I.
for Director,
Meteorological Service

International Seismological Centre

25 FEB 1969

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL INSTITUTE
POST BOX NO.2, QUETTA

PAKISTAN

No.SS-9(2)/69/ 3649 Quetta, 20 February, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla
x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 31st January, 1969

Continuation
January, 1969

24	Wr	iP	00	47	28.8d
	Qt	iP		48	33.6d
		eS		50	01.8
24	Ch	iP	02	45	34.0d
		iS		55	14.0
	Qt	eP		47	20.0
24	Wr	eP	02	50	42.4
	Qt	eP			47.3d
		eS		56	52.2
	Kr	eP		50	48
24	Qt	iP	04	05	15.1d
		iS		06	33.7
	Ch	eP			14
24	Qt	eP	10	51	17.4
		eS		52	41.2
24	Qt	eP	19	20	20.4c
24	Qt	eP	19	53	19.9
25	Ch	eP	05	26	49
		eS		34	29
	Lh	eP		29	05
	Wr	eP			27.2
	Kr	eP			31.2
	Qt	eP			43.0
		eS		38	01.6
25	Qt	eP	12	21	14.9
25	Wr	eP	23	25	20.9
		eS			47.9
	Qt	iP		26	25.9
		iS		27	47.1
25	Ch	eP	23	34	48.0d
	Wr	eP		39	13.9
	Kr	eP			33.2
	Qt	eP			39.0
		eS		43	48.1
		Felt in Chittagong			
26	Qt	eP	02	28	50.2
	Wr	eP		29	12.2
	Kr	eP			43.6

January, 1969

26	Qt	eP	04	40	46.3
26	Lh	eP	05	25	39
	Wr	eP		26	16.9
	Qt	eP		27	08.0
26	Ch	eP	06	13	17
		eS		19	09
	Wr	eP		15	56.6
	Qt	eP		16	17.1
26	Wr	iP	10	00	20.6d
		eS		01	12.6
	Lh	eP		00	49
		eS		02	00
	Qt	eP		01	29.8
		iS		03	16.0
	Kr	eP		02	33.4
	Ch	eP		04	01
		eS		07	58

H - 09 : 59 : 14
37°.9N, 73°.4E
Tadzhik S.S.R.
Depth about 96 km.

26	Qt	iP	12	42	57.5d
26	Qt	eP	14	35	16 onset poor
26	Ch	eP	15	15	50
	Lh	eP		16	04
	Qt	iP			36.1c
26	Ch	eP	16	46	16
	Qt	eP		49	09.8
26	Qt	eP	16	59	55.4d
27	Qt	eP	03	13	40.1
27	Qt	eP	06	47	25.2

January, 1969

27	Wr	eP	11	00	21.0
		iS			49.5
	Lh	eP		01	02
		eS		02	05
	Qt	eP		01	24.4d
		eS		02	51.6

	Mu	Sec
PZ	0.06	0.5

$\triangle = 7^{\circ}.8$

	Kr	eP	11	02	28.2
		eS		04	43.5
	Ch	eP			32d
		eS		08	39

H - 10 : 59 : 32
$37^{\circ}.1$N, $71^{\circ}.0$E
Afghanistan-U.S.S.R.Border Region
Depth about 160 km
Mag - 5.4(Qt)

27	Ch	eP	13	23	54.0c
		eS		30	43
	Lh	eP		25	53
		eS		34	20
	Kr	eP		26	11
		eS		34	54
	Wr	iP		26	11.1c
	Qt	iP			34.5c
		eS		35	11.2
27	Ch	eP	14	45	09
	Wr	eP		48	08.2
	Qt	eP			30.2c
27	Qt	eP	18	47	19.1
28	Ch	eP	00	31	10
	Wr	eP		33	47.0
	Qt	eP		34	16.6d
28	Wr	eP	19	39	33.6
	Qt	eP			37.2d
29	Qt	eP	00	38	54.3d
29	Qt	eP	02	28	07.0
29	Qt	eP	08	47	40.8c
29	Qt	eP	11	31	21.0c
29	Qt	eP	16	03	52.3
29	Qt	eP	17	09	54.3
29	Qt	eP	18	03	31.8d
30	Qt	iP	02	43	46.8c
30	Qt	eP	05	39	31.6c
30	Ch	eP	10	37	01
		eS		42	55
	Lh	eP		39	15
		eS		46	58
	Wr	eP		39	37.1
		eS		47	47
	Kr	eP		39	47.8
	Qt	iP			56.8c
		eS		48	13.6

January, 1969

30	Lh	eP	12	48	05
	Wr	eP			26.9
	Qt	eP			45.7
30	Qt	eP	15	12	15.7d
30	Qt	eP	16	50	11.0
30	Wr	eP	17	22	53.8
		eS		23	24.1
	Qt	eP			54.4
		eS		25	12.4
	Ch	eP		26	57
		eS		32	47
30	Lh	eP	17	29	10
		eS		36	53
	Wr	eP		29	31.6
	Qt	eP			51.4
		eS		38	11.9
30	Qt	eP	18	22	27.4
30	Lh	eP	18	45	08
	Wr	iP			30.6d
	Qt	iP			47.7d
30	Qt	eP	18	55	49.8c
30	Ch	eP	22	19	21
		eS		25	03
	Qt	eP		22	05.8
30	Qt	eP	22	30	24 onset poor
30	Qt	eP	22	48	56.0d
30	Qt	eP	22	53	41.0
31	Qt	eP	00	26	46 onset poor
31	Lh	eP	00	53	59c
		eS	01	01	49
	Wr	eP	00	54	21.1
		eS	01	02	36.6
	Kr	eP	00	54	33.1
	Qt	iP	00	54	40.1c
		eS	02	03	07.8
31	Qt	eP	01	30	13.1
31	Ch	eP	02	17	01
	Qt	eP		19	57.4
31	Ch	eP	03	08	07
	Qt	iP		11	03.1d
31	Ch	eP	03	52	59
	Qt	eP		55	54.8
31	Ch	eP	04	07	50
	Qt	eP		10	45.4
31	Qt	eP	04	14	31.1d
31	Qt	eP	04	21	05.6
31	Ch	eP	05	07	03
	Qt	eP		09	58.7
31	Ch	eP	09	04	14
		eS		10	12
	Wr	eP		06	50.3
	Qt	iP		07	09.8c
31	Ch	eP	10	53	12
	Qt	eP		56	08.3
31	Wr	eP	11	31	34.8
	Qt	eP			53.9
31	Qt	eP	11	58	03.5
31	Qt	eP	12	18	49.8

International Seismological Centre

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL INSTITUTE
POST BOX NO.2, QUETTA

P A K I S T A N

No.SS-9(2)/69/3742 Quetta, the 26th February,1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st February to 8thFeb.1969

Continuation
February,1969

1	Qt	eP	05	09	22.0
1	Qt	eP	07	33	34.1
1	Qt	eP	07	35	01.5
1	Ch	P	07	48	21
		S		54	13
	Qt	eP		51	21.6c
1	Qt	eP	14	45	40.5
1	Ch	P	16	26	47
	Kr	eP		29	35.2
	Qt	eP			40.7c
		eS		38	08.7
1	Qt	eP	16	48	26.1c
1	Qt	eP	17	16	38.6
2	Ch	P	00	25	01
		S		31	03
	Qt	iP		27	56.7c
2	Ch	P	01	46	20
		S		52	25
	Lh	P		48	32
		S		56	26
	Kr	eP		49	06.5
	Qt	iP			12.5c
		iS		57	45.8
2	Ch	P	02	14	36
		S		20	38
	Kr	eP		17	22.4
	Qt	eP			29.6
2	Ch	P	02	41	44
		S		47	47
	Qt	eP		44	38.7
2	Qt	eP	03	19	27.0
2	Qt	eP	04	10	33.1
2	Qt	eP	05	31	55.8c
		iS		40	26.9

February,1969

2	Qt	eP	08	00	46.5d
2	Qt	eP	08	06	55.3
2	Qt	eP	15	59	04.9
2	Ch	P	16	28	44
		S		34	52
	Wr	P		31	26
	Qt	eP			46.2
		eS		40	19.7
2	Qt	eP	16	59	14.8
2	Qt	eP	18	49	45.2
2	Qt	eP	18	52	36.5
		iS		53	56.1
2	Qt	eP	20	02	25.2
		eS		09	19.7
2	Qt	eP	20	34	21.9
		eS		35	34.5
2	Qt	eP	20	56	35.5
2	Qt	eP	21	00	47.6c
2	Qt	eP	21	06	42.5
3	Qt	eP	04	40	06.7
3	Qt	eP	05	27	40.1d
3	Qt	eP	08	09	07.1
3	Qt	iP	08	35	54.8d
3	Ch	P	09	06	49
	Qt	eP		07	57.9
3	Ch	P	09	51	37
	Wr	P		54	14
	Qt	iP			43.8d
3	Qt	eP	11	01	29.2d
3	Qt	eP	13	40	53.7
		eS		42	47
3	Qt	eP	17	22	19.0c

January, 1969

31	Qt	eP	13	29	32 Onset poor
31	Qt	eP	13	35	28.2c
31	Ch	eP	13	55	52.0
	Wr	eP		58	29.4
	Qt	eP			48.3
31	Ch	eP	14	00	24 onset poor
	Wr	eP		03	01.2
		eS		11	23.9
	Qt	eP		03	19.6
31	Qt	eP	14	46	52.8d
31	Qt	eP	15	17	59.4
31	Qt	eP	15	25	18.6
31	Ch	eP	15	47	10
		eS		52	16
	Qt	eP		49	05.6
31	Qt	eP	17	26	44.2c
31	Ch	eP	20	14	40
		eS		20	32
	Qt	iP		17	36.8c

January, 1969

31	Ch	eP	20	45	20.4c
		eS		51	25
	Wr	eP		47	56.7
	Qt	iP		48	16.4c
31	Ch	eP	23	48	28.0d
	Wr	eP		49	21.8
	Qt	iP			28.3d

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

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February, 1969

3	Lh	P	19	11	17
	Wr	P			36
		S		19	49
	Kr	eP		11	49.2c
	Qt	iP			56.3c
		eS		20	22.2
3	Qt	eP	19	41	30.8c
3	Ch	P	21	49	06
		S		54	57
	Lh	P		51	23
		S		59	08
	Wr	P		51	41
	Kr	iP			58.8c
		eS	22	00	09.4
	Qt	eP	21	52	02.9
		eS	22	00	17.8
4	Ch	P	01	45	38
	Wr	P		48	17
		S		56	22
	Qt	eP		48	32.6d
		eS		56	47.8
4	Qt	eP	04	29	42.6
	Kr	eP			54.4
	Ch	P		30	18
4	Qt	eP	04	56	39.5
		eS		57	57.0
4	Qt	eP	05	47	19. Onset poor
		eS		49	23.8
4	Qt	eP	11	31	36 Onset poor
		eS		33	32.2
4	Qt	eP	13	22	05 onset poor
		eS		23	58.5
4	Qt	eP	17	08	17.8
4	Qt	eP	17	18	26.1
4	Qt	eP	19	59	37.7c
4	Qt	eP	22	02	40 Onset poor
		eS		04	15.5
5	Qt	eP	01	44	29.0
5	Kr	eP	10	46	51.2
	Qt	eP			54.1
		eS		55	27.8
5	Qt	eP	10	56	51.0
		eS		58	58.2

February, 1969

5	Qt	eP	20	08	04.7
5	Qt	eP	20	28	20 Onset poor
6	Qt	eP	01	42	49.6
6	Qt	eP	07	44	09.5c
6	Qt	iP	09	45	59.9c
6	Qt	eP	14	54	40.1d
6	Qt	iP	17	34	32.2c
		eS			41.9
	Kr	eP		35	37.6
7	Qt	eP	01	06	52.8
	Kr	eP		07	21.2
7	Qt	eP	05	04	36.1
7	Qt	eP	06	26	14.2
7	Qt	eP	09	30	50.2
7	Qt	eP	13	26	55.0
8	Qt	eP	01	42	19.1c
		eS		43	46.7
8	Qt	eP	19	25	44.1c
8	Qt	eP	23	26	49.3
8	Qt	eP	23	54	25.6

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services

International Seismological Centre

GOVERNMENT OF PAKISTAN
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GEOPHYSICAL INSTITUTE
POST BOX NO.2, QUETTA

P A K I S T A N

No.SS-9(2)/69/3792 Quetta, the February, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th February, 1969

Additional

February, 1969

1	Wr	eP	07	33	14.5
1	Wr	eP	07	50	59.0
1	Lh	eP	16	29	00
	Wr	eS			20.9
		eS		37	40.3
2	Wr	iP	00	27	37.4c
2	Wr	eP	01	48	53.8
2	Wr	eP	02	17	10.6
2	Wr	eP	02	44	19.7
2	Ch	eP	03	16	33
2	Lh	eP	16	31	05
	Wr	eP			35.7c
2	Ch	eP	18	46	46
	Wr	eP		51	38.2
2	Ch	eP	20	02	16
2	Ch	eS	20	57	44.4
3	Ch	eP	08	06	06
		eS		13	30.3
	Wr	eP		09	00.2
3	Ch	eP	08	34	33.3
	Wr	eP		35	47.3
3	Wr	eP	09	06	18.3
3	Wr	eP	13	39	44.4
3	Ch	eP	17	19	24
		eS		25	25.6
	Wr	eP		21	58.9
3	Ch	iP	19	09	01.3c
		eS		15	02.0
3	Ch	eP	19	38	36
4	Wr	eP	04	30	46.4
4	Wr	eP	04	55	42.6
4	Ch	eP	17	05	18
4	Wr	eP	22	02	18 Onset poor
5	Wr	eP	01	44	07.9
5	Ch	eP	10	44	00
		eS		50	06
	Wr	eP		46	33 onset poor
5	Ch	eP	20	05	01.5
	Wr	eP		07	43.9

February, 1969

6	Wr	eP	07	43	39.6
6	Wr	eP	17	36	06.5
7	Wr	eP	01	07	30.7

Continuation

February, 1969

9	Wr	eP	03	49	17.3d
		iS			47.5
	Qt	eP		50	15.3
		eS		51	31.1
9	Qt	eP	03	56	49.0
9	Wr	eP	04	22	12.4
	Qt	eP			31.7
9	Qt	eP	10	36	26.6
9	Qt	eP	14	37	25.3
9	Ch	eP	15	37	24 Onset poor
	Wr	eP		40	46.1
	Qt	eP		41	10 Onset poor
9	Qt	eP	22	13	49.7
		eS		14	22.8
	Kr	eP			34.2
		eS		15	33.9
10	Qt	eP	07	23	50 Onset poor
10	Ch	eP	14	16	49
		eS		22	52
	Wr	eP		19	23.2
	Qt	eP			41.4
		iS		28	18.1
10	Qt	eP	14	30	06.0
10	Wr	eP	18	08	33.9
	Qt	eP		09	21.1
10	Qt	eP	21	58	28.1c
10	Ch	eP	23	10	25
		eS		20	00
	Ml	ePKP		15	32.8
	Wr	ePKP			33.4
	Kr	ePKP			43.8
	Qt	eP		12	11.0
		ePKP		15	47.2
		eX		17	04.8

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February, 1969

11	Qt	eP	13	39	56.6
11	Qt	eP	20	43	06.6
11	Ml	eP	22	11	10.5
	Wr	iP			12.7c
	Lh	eP			28
	Qt	eP		12	22.5c
	Kr	eP		13	18.2
	Ch	eP			46
12	Ml	eP	00	24	53.5
	Wr	eP			55.8
	Lh	eP		25	15
	Qt	eP		26	05.1
12	Ml	eP	04	19	38.0
	Wr	eP			40.7
	Qt	eP		20	49.0
12	Wr	eP	15	50	18.4
	Qt	eP			54.8
12	Qt	eP	23	53	04 Onset poor
13	Ch	eP	01	47	49.5
	Qt	eP		18	24.2c
13	Wr	iP	02	51	37.2c
		eS		59	04.2
	Qt	eP		51	41.1
13	Kr	eP	10	19	58.8
	Qt	iP		20	32.7c
	Wr	eP		21	45.1
13	Ch	eP	10	29	37
	Qt	iP		30	40.7
		iS		31	51.9
13	Wr	eP	10	38	34.6
	Ml	eP			54.4
	Qt	iP		39	38.2c
13	Kr	eP	11	12	25
	Qt	iP			59.9c
		eS		14	41.8
	Wr	eP			12.0
	Ch	eP		17	07

H - 11 : 10 : 49
23°.8N, 59°.8E
Gulf of Oman
Depth about 33 km

13	Qt	eP	11	54	14.7
13	Qt	eP	13	05	29.6d
13	Qt	eP	13	36	17.1
13	Qt	iP	14	49	47.6d
13	Qt	eP	15	32	33.1
13	Qt	eP	18	49	45.4
13	Qt	eP	22	26	12 Onset poor
14	Qt	eP	00	37	29.0

February, 1969

14	Qt	eP	01	00	01.4
	Wr	eP			02.4
14	Qt	iP	04	29	34.0d
14	Kr	eP	04	49	10.3
		iS			38.7
	Qt	eP		50	05 Onset poor
14	Qt	eP	06	24	00.2
	Ch	eP			15
14	Qt	e	17	10	24.1
14	Qt	eP	18	35	37.1
		e(S)		38	07.4
15	Qt	eP	02	41	39.8
15	Qt	eP	07	11	40.8
		eX		12	57.6
15	Qt	eP	11	58	28 Onset poor
15	Ml	eP	16	33	41.5
		iS		34	31.5
	Qt	eP			29.6
		eS		35	56.7
15	Qt	eP	21	33	58.7
15	Qt	eP	22	49	31.1
15	Qt	eP	22	50	04 Onset poor
		eS		51	22.0

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services

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P A K I S T A N

No.SS-9(2)/69/ Quetta, the March, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 22nd February '69

Continuation

February, 1969					
M					
16	Ml	eP	00	01	26.5
	Wr	eP			30.2
	Qt	eP		02	38.8
16	Wr	eP	05	37	22.3
		eS			56.5
	Qt	eP			36.1
16	Qt	eP	11	44	22.5
16	Wr	eP	15	04	40.1
		eS		05	30.4
	Ml	eP		04	48.6
		iS		05	44.5
	Qt	eP			48.2
		eS		07	36.2

H = 15 : 03 : 38
38°.2N, 73°.1E
Tadzhik S.S.R.
Depth about 160 km

16	Qt	eP	15	17	28.0
16	Wr	eP	15	29	54.8
	Qt	eP			56.8
16	Wr	eP	20	23	56.1
	Ml	eP		24	22.0
	Qt	iP			43.4d
		eS		25	55.3
17	Ch	eP	00	50	35
		eS		56	41
	Lh	eP	00	52	51
	Ml	eP			56.6
	Wr	eP		53	09.3
		eS	01	01	29.8
	Kr	eP	00	53	24.2
		eS	01	01	54.4
	Qt	eP	00	53	28.9
		eS	01	02	02.1
17	Qt	eP	01	28	56.1c

February, 1969

17	Wr	eP	01	48	44
	Qt	eP		49	03.8c
17	Qt	eP	02	45	42.1c
17	Qt	eP	04	46	46.5
17	Wr	iP	05	28	20.1d
		iS			48.9
	Ml	eP			42.5
		iS		29	29.2
	Qt	eP			22.0
		iS		30	38.1
	Ch	eP		32	37

H = 05 : 27 : 42
36°.2N, 70°.8E
Hindukush Region
Depth about 160 km

17	Ch	eP	06	34	49
	Qt	eP		37	43.1
17	Qt	eP	06	50	38.2
17	Qt	eP	15	06	44.8c
17	Qt	eP	17	30	25.8
17	Qt	eP	17	54	02.8d
17	Qt	eP	17	59	28.1
17	Ch	eP	19	10	22
	Qt	eP		13	15.1
17	Kr	eP	19	52	38.2
	Ml	eP		54	26.3
	Qt	eP		55	07.4
		eS		56	26.4
17	Ch	eP	20	21	20
	Wr	eP		23	57.2
	Qt	eP		24	16.8c
17	Qt	eP	20	47	44.7d
		eS		49	07.0

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18	Qt	iP	05	33	44.2c
18	Wr	eP	10	09	06.2
	Ml	eP			29.5
	Qt	eP		10	07.8
		eS		11	24.6
18	Qt	iP	19	51	46.2c
		iS		52	03.8
	Kr	eP			38.2
	Wr	eP			42.3
	Ml	eP			51.0
	Lh	eP		53	15

H = 19 : 51 : 23
29°.7N, 68°.4E
Duki, Loralai District
Felt : at Duki
Depth about 33 km

18	Qt	eP	21	01	00.7
18	Wr	eP	21	08	29.7
	Qt	eP			51.3
19	Qt	eP	08	47	14.6
19	Wr	eP	15	21	05.2
		eS			46.8
	Ml	eP			19.5
		iS		22	10.1
	Qt	iP			10.6
		eS		23	43.3

H = 15 : 20 : 11
37°.4N, 71°.8E
Tadzhik S.S.R.
Depth about 160 Km

20	Ch	eP	10	03	07.7
		eS		09	15
	Lh	eP		05	22
	Ml	eP			29.5
	Wr	eP			43.3
		eS		14	02.9
	Kr	eP		05	53.2
		eS		14	27.0
	Qt	eP		06	02.4
		eS		14	38.2
20	Ch	eP	10	37	52.d
	Lh	eP		40	07
	Ml	eP			13.5
	Wr	eP			28.8
		eS		48	46.4
	Kr	eP		40	39.2
		eS		49	03.4
	Qt	eP		40	47.2

February, 1969

20	Ch	eP	11	00	55
	Wr	eP		03	33.4
	Kr	eP			33.7
	Qt	iP			51.9d
		eX		09	43.4
20	Qt	eP	11	14	33 Onset poor
20	Qt	eP	11	30	43.2c
20	Qt	eP	12	25	05.1d
20	Qt	eP	12	29	16.2d
20	Qt	eP	12	39	47.7
20	Kr	eP	12	40	03.6
	Wr	eP			54.9
	Qt	iP		41	14.0c
20	Wr	eP	13	01	27.0
	Qt	eP			45.2d
	Ch	eP		03	01
20	Wr	eP	13	05	37.4
	Qt	eP			55.9
20	Qt	eP	13	09	41.4
20	Ch	eP	13	13	42
	Wr	eP		16	18.0
	Kr	eP			29.8
	Qt	eP			36.8
20	Ch	eP	13	36	37
	Wr	eP		39	12.4
	Kr	eP			24.2
	Qt	iP			31.6d
20	Kr	eP	14	16	38.3
	Qt	iP			46.2c
20	Qt	eP	14	28	39.8
20	Wr	eP	15	37	33.0
		eS			53.0
	Qt	eP		38	34.6
		eS		39	44.4
20	Wr	eP	15	48	10.9
	Kr	eP			22.5
	Qt	eP			29.4
		eS		57	03.9
	Ch	eP		51	13.4

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February, 1969

20	Ch	eP	17	05	46d
		eS		12	00
	Lh	eP		08	01
	Ml	eP			08.0
	Wr	eP			22.6
		eS		16	41.6
	Kr	eP		08	33.5
		eS		17	09.1
	Qt	eP		08	41.9
		eS		17	15.9
20	Kr	eP	17	22	39.4
	Qt	eP			45.3
20	Wr	eP	19	20	25.3
	Kr	eP			35.7
	Qt	eP			43.7

February, 29 1969

20	Qt	eP	19	37	25.9
20	Qt	eP	19	58	14.1
20	Qt	eP	20	05	26.4
21	Qt	eP	05	15	45.3
21	Wr	eP	07	20	25.3
	Qt	iP			44.9c
21	Wr	eP	08	30	42.3
	Qt			31	02.0
21	Ch	eP	16	41	59
		eS		48	13
	Wr	eP		44	36.6
	Qt	eP			53.4
		eS		53	29.9
21	Qt	eP	20	02	29.6
22	Wr	eP	04	45	27 Onset poor
	Qt	eP		46	45.8
22	Qt	iP	08	20	43.3c
22	Ch	eP	18	01	21
	Qt	eP		04	12.8
	Wr	eP			30.0
22	Qt	eP	18	16	06.6
22	Qt	eP	18	29	44.7
22	Ch	eP	20	38	18
		eS		39	00
	Wr	eP		41	30.5
	Qt	eP		42	05 Onset poor
22	Qt	eP	20	54	08.3
22	Ch	eP	23	07	53
	Wr	eP		08	30.4
		eS		16	27.8
	Qt	iP		08	42.8d
		eS		16	48.4

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services.

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL INSTITUTE
POST BOX NO. 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ 6140 Quetta, the 26th March, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 23rd to 28th February'69

Continuation

February, 1969						
23	Ch	eP	00	44	11	
		eS		49	57	
	Lh	eP		46	26	
	Wr	eP			49.4	
		iS		54	49.4	
	Kr	eP		46	49.2	
	Qt	iP		47	01.8d	
		iS		55	12.7	
23	Ch	eP	02	24	09	
	Wr	eP		26	51.1	
	Qt	iP		27	02.4d	
23	Ch	eP	02	58	08	
	Wr	eP	03	00	48	onset poor
	Qt	eP		01	00.2	
23	Ch	eP	06	11	04	
	Wr	eP		13	42.3	
	Qt	eP			56.8	
		eS		22	10.2	
23	Qt	eP	10	20	09	onset poor
23	Qt	eP	14	54	14.2c	
23	Wr	eP	22	14	05.8	
		eS			42.0	
	Qt	eP		15	11	onset poor
		eS		16	38.6	
24	Ch	eP	00	17	27	
		eS		24	17	
	Lh	P		19	28	
	Wr	eP			49.7	
		eS		28	45.6	
	Qt	iP		20	03.1c	
		iS		29	11.1	
24	Wr	eP	01	11	19.8	
	Qt	eP			37.8	
24	Ch	eP	04	25	17	onset poor
	Wr	eP		27	55.4	
	Qt	eP		28	07.9	

February, 1969						
24	Qt	eP	07	53	34.2	
24	Wr	eP	10	40	38.0	
24	Ch	eP	15	32	37	onset poor
24	Wr	eP	15	49	58.1	
24	Ch	eP	16	49	22	onset poor
	Wr	eP		51	56	onset poor
24	Wr	P	19	23	13	
25	Ch	eP	01	42	13	
	Wr	P		44	51	
25	Wr	eP	07	48	29.1	
	Qt	eP			51.9	
25	Qt	iP	07	58	09.9c	
25	Qt	eP	14	19	01	onset poor
25	Wr	iP	14	49	55.1d	
		iS		50	22.5	
	Qt	eP			59.6	
		iS		52	18.6	
26	Ch	eP	01	37	18	
		eS		42	04	
	Wr	eP		39	57.6	
		eS		46	56.4	
	Qt	iP		40	13.8d	
		iS		47	27.1	
26	Ch	eP	08	27	52	
	Wr	eP		30	23.3	
	Qt	eP			39	onset poor
26	Wr	eP	15	08	28	onset poor
	Qt	eP		09	06	onset poor
26	Kr	eP	19	16	53.2	
		eS		17	18.4	
	Qt	eP			23.7	

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February,1969

26	Ch	eP	22	55	28
	Wr	eP		58	01.3
	Qt	eP			21.4
26	Wr	eP	23	58	26.5
		eS			56.4
	Qt	iP	23	59	32.8d
		iS	00	00	54.3
27	Qt	iP	18	51	27.1d
27	Qt	eP	20	51	15.6
27	Qt	iP	21	29	27.4c
27	Qt	eP	23	34	57.1
		eS		37	06.0
28	Qt	eP	00	15	27.4
28	Wr	eP	02	50	29.0
	Qt	iP		51	03.8c
	Kr	iP			20.4c
	Lh	P			35
	Ch	eP		53	20c
		eS	03	03	47

February,1969

28	Qt	eP	04	36	07.1c
	Wr	eP			16.1
	Lh	eP			38
	Ch	eP		38	24
28	Wr	eP	13	27	56.4
		eS		36	00.3
	Qt	eP		28	09.4d
		eS		36	17.4
28	Qt	eP	14	56	52.6
28	Qt	eP	16	09	46.7d
28	Qt	eP	21	25	06.1
28	Qt	eP	21	45	14.6
28	Qt	eP	21	49	13.1

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services

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MINISTRY OF DEFENCE
PAKISTAN METEOROLOGICAL DEPARTMENT

GEOPHYSICAL INSTITUTE
Post Box No.2, Quetta

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ 6426 Quetta, the 12th April, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th March, 1969

Continuation

March, 1969

9	Wr	eP	10	17	29.9
	Ml	eP			52.0
		eS		18	40.6
	Qt	iP			24.8d
		iS		19	41.4

	Mu	Sec
PE	0.006	0.5

△ = 7°.2

H = 10 : 16 : 40
36°.7N, 70°.1E
HINDUKUSH REGION
depth about 223 Km
Mag = 3.9(Qt)

9	Wr	eP	11	44	41.2d
	Qt	eP		45	16.8
9	Wr	eP	13	16	33.5
	Kr	eP			43.4
	Qt	eP			50.6
9	Ch	eP	13	57	04
		eS	14	04	16
	Ml	eP	13	59	08.0
	Wr	eP			20.1
		eS	14	08	45.1
	Kr	eP	13	59	33.8
	Qt	eP			34.8
		eS	14	09	09.1
9	Qt	eP	14	34	57.4
9	Qt	eP	14	36	43.8
9	Ch	eP	14	48	02
	Ml	eP		50	09.2
	Wr	eP			22.1
	Kr	eP			33.2
	Qt	eP			36.1

March, 1969

9	Wr	eP	16	05	14.1
	Qt	eP			29.9
9	Wr	eP	16	32	35.3
		eS		33	07.1
	Ml	eP		32	53.2
		eS		33	40.6
	Qt	eP			35.2d
		iS		34	56.9

H = 15 : 31 : 48
36°.6N, 71°.1E
Hindukush Region
Depth about 223 Km.

9	Wr	eP	17	37	21.6d
	Ml	eP			43.8
	Qt	eP		38	25 onset poor
		iS		39	44.3
9	Qt	eP	23	38	07.9
		eS		39	25.9
10	Ch	eP	05	40	59
	Wr	eP		43	27.9
	Qt	eP			56.9
10	Ch	eP	07	04	13
		eS		12	15
	Ml	eP		06	04.2
	Wr	eP			10.4
		eS		16	02.7
	Kr	eP		06	26.2d
		eS		16	31.2
	Qt	eP		06	29.2
		eS		16	30.0
10	Wr	eP	08	28	09.5
		iS			45.3
	Ml	eP			32.8
		eS		29	26.5
	Qt	eP		28	58.4d
		eS		30	15.3

H = 08 : 27 : 21
36°.4N. 69.6E
Afghanistan
Depth about 223 Km

March, 1969

10	Qt	eP	08	34	17.1
	Ch	eP			43
10	Wr	eP	18	51	37.4
	Ml	eP			58.0d
	Lh	eP		52	17
	Qt	iP			42.3d
	Kr	eP		53	47.2
10	Wr	iP	19	04	45.4d
		eS		05	14.4
	Ml	eP			06.6
	Lh	eP			26
	Qt	eP			44.3d
		eS		07	02.5
	Kr	eP		06	48.1d

H = 19 : 04 : 04
36°.3N, 70°.6E
Hindukush Region
Felt slightly at Warsak
Depth about 160 Km.

11	Qt	eP	10	41	13.8c
11	Wr	eP	15	41	52.5
	Qt	eP		42	27.4
11	Ml	eP	19	22	45.8
	Wr	eP			50.7
	Qt	eP		23	57.7
12	Qt	eP	12	03	25.3c
12	Qt	eP	13	57	44.2
12	Wr	eP	14	12	51.5d
		iS		13	23.0
	Qt	iP			53.4c
		iS		15	14.5

	Mu	Sec
PZ	0.04	0.5

△ = 7°.2

Mag = 4.9(Qt)

12	Wr	eP	17	18	29.6d
		eS		19	19.0
	Qt	eP			33.8
		eS		21	04.0
12	Qt	eP	17	46	30.1c
13	Qt	eP	15	52	14.4c
		eS		53	35.8
13	Ml	eP	17	41	45.8d
	Wr	eP		42	11.5
		eS			36.0
	Qt	eP		43	16 onset poor
		eS		44	29.3
13	Qt	eP	18	56	27.3

March, 1969

13	Wr	eP	19	09	09.1
	Ml	eP			27.9
	Qt	eP		10	07.4c
13	Ch	eP	20	46	11
		eS		50	51
	Kr	eP		48	36.0
	Ml	eP			36.1
		eS		55	14.1
	Wr	eP		48	49.5
		eS		55	41.1
	Qt	eP		48	54.6
		eS		55	52.1
13	Qt	eP	21	06	28.5
13	Qt	eP	22	39	02.8
	Wr				05.2
	Kr	eP			12.4
	Ml	eP			13.3
14	Qt	eP	09	06	06.5
		eS		09	16.5
	Wr	eP		06	02.9
	Ch	eP			33.4
14	Qt	eP	09	16	07.7
14	Qt	eP	12	38	22.4
14	Qt	eP	20	23	20 onset poor.
		eS		25	33.9
14	Wr	eP	22	13	50.4
	Qt	eP		14	02.3
14	Qt	eP	23	01	03.5
15	Wr	eP	00	01	33.4
	Qt	eP			56.9
		eS		03	28.1
15	Lh	eP	11	54	51
	Wr	iP		55	11.6c
	Kr	eP			15.0
	Qt	iP			25.8c
		eS	12	04	10.0
15	Ml	eP	13	47	12.5
	Wr	eP			18.3
	Qt	iP			43.7c
		eS		57	46.4
	Kr	eP		48	04.9
15	Qt	eP	15	41	49.2

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

International Seismological Centre

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P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ Quetta, the 12th April, 1969

Qt-Quetta, Ih-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd March, 1969

Continuation

March, 1969

16	Wr	iP	01	34	13.0d
		iS		35	47.6
	Qt	eP			16.8
		eS		36	35.0
16	Qt	eP	09	40	19.1d
16	Kr	eP	14	14	56.2
	Qt	eP		15	46.8c
16	Ml	eP	16	03	47.7
	Wr	iP			54.9d
	Qt	eP		04	31.2
	Kr	eP			45.8
16	Ml	eP	19	30	22.8
		eS		31	07.9
	Qt	eP			00.6
		eS		32	16.3
17	Qt	eP	07	28	17.5
18	Wr	eP	07	46	38.2
	Ml	eP			49.0
	Qt	eP		47	45.0
18	Ml	eP	16	26	38.6
	Wr	eP			45.3
	Qt	iP		27	21.1d
18	Qt	eP	23	41	27.4
18	Qt	eP	23	02	43.6
19	Qt	eP	08	42	28.9d
19	Ch	eP	14	05	52
	Wr	iP		07	51.7d
	Qt	iP		08	25.5d
		eX		09	03.9
	Kr	eP			13.2d

March, 1969

19	Qt	eP	15	45	24.8
19	Wr	eP	16	15	45.8
	Qt	eP		16	10.2d
19	Qt	eP	18	29	39.9
19	Qt	eP	20	25	39.8
19	Qt	eP	21	27	28.3
20	Qt	eP	03	16	50 onset poor
20	Ml	eP	04	51	53.1
	Wr	eP		52	03.7
	Qt	eP			07.1
20	Qt	iP	13	40	38.4d
20	Ml	eP	16	28	28.3
	Wr	eP			39.8
	Wr	iS		36	32.7
	Kr	eP		28	55.4
		eS		37	01.2
	Qt	eP		29	01.5c
		iS		37	14.4

	Mu	Sec
PE	0.2	1.0
MH	10.4	20
△ =	60°.7	
Mag=	6.2(Qt)	

20	Qt	eP	17	17	50.2c
20	Qt	eP	18	28	23.4c
20	Qt	eP	20	56	43.3
20	Wr	eP	23	48	24.3
	Qt	eP			46.7c

March, 1969

21	Wr	iP	03	14	52.1c
	Qt	iP		15	28.6c
		eS		23	52.7
	Kr	eP		15	47.2
21	Qt	eP	10	34	01.1
21	Qt	eP	17	35	14.0d
22	Wr	eP	01	55	48.7
		iS		56	19.0
	Ml	eP			09.0
		eS			56.6
	Qt	iP			46.3d
		iS		58	04.9

H - 01 : 55 : 07
36°.1N, 70°.7E
HINDUKUSH REGION
Depth about 223 km

22	Wr	eP	04	14	27.8
	Ml	eP			45.8
	Qt	iP		15	33.7d
22	Wr	eP	04	53	49.2
	Ml	eP		54	11.5
	Qt	eP			47.8c
		iS		56	33.7
	Kr	eP		55	52.4
		eS		58	25.2
	Ch	eP		57	55

H - 04 : 52 : 29
39°.3N, 69°.6E
Tadzhik S.S.R.
Depth about 160 Km.

March, 1969

22	Qt	eP	13	46	35.4d
22	Wr	eP	17	41	04.7
	Qt	eP			19 onset poor
22	Qt	eP	18	01	08.4c
23	Qt	eP	00	56	51.8c
23	Kr	eP	04	22	03.7
	Qt	eP		23	01.6
	Ml	eP			54.5
	Wr	eP			55.6
	Ch	eP		25	35 onset poor
23	Kr	eP	17	5[illegible]	48.5
	Qt	eP		57	36.9
23	Qt	eP	21	15	15.7
	Wr	iP			32.1d
	Kr	eP			43.2
23	Qt	eP	23	14	06.2d

(K.U.Siddiqi)T.I.,
for Director,
Meteorological Department

International Seismological Centre

28 APR 1969

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Cable : Geophysics

GOVERNMENT OF PAKISTAN
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P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ Quetta, the 14th April, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 31st March, 1969

Continuation

March, 1969

24	Ml	eP	00	10	34.4
		eS			53.1
	Wr	iP			55.9
		iS		11	29.9
	Qt	eP		12	03.1
		eS		13	28.3

H = 00 : 10 : 10
34°.3N, 74°.9E
K A S H M I R
Depth about 33 Km.

24	Qt	iP	12	00	15.9c
	Wr	eP			48.1d
25	Qt	eP	01	10	40.2
25	Qt	eP	01	15	12.6c
25	Qt	eP	02	35	26.7c
25	Qt	eP	13	28	04.5
		eS		33	37.2

	Mu	Sec
MH	15.4	20

△ = 35°.5

	Wr	eP	13	28	04.6
	Ch	eP		31	09

Mag= 6.0(Qt)

25	Ml	eP	18	58	46.2
	Wr	eP		59	11.6
	Qt	eP			57.0

March, 1969

25	Wr	eP	22	32	26.1
		eS		33	15.6
	Ml	eP		32	33.0
	Qt	eP		33	33 onset poor
		eS		35	12.3
26	Qt	eP	09	57	44.4
26	Wr	eP	12	05	12
	Qt	eP			15.0
26	Ch	eP	15	33	40.5
	Wr	eP		36	22.4
	Qt	eP			49.4
26	Qt	eP	18	03	50 onset poor
		eS		06	07.6
	Ml	eP		05	01.6
26	Wr	eP	19	31	52.1
	Qt	eP		32	15.6
26	Qt	eP	19	41	03.2
27	Qt	eP	01	16	02 onset poor
27	Ch	eP	04	53	54
	Wr	eP		56	35.7
	Qt	eP			54.2
		eS	05	05	28.1
27	Wr	eP	06	20	43.9d
	Qt	eP		21	17.3
27	Qt	eP	06	36	02.1
27	Wr	iP	08	33	20.9d
	Qt	eP			48.6

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March, 1969

27	Wr	eP	11	20	47.4
	Ml	eP		21	03.6
	Qt	eP			48.4
		eS		25	04.0
27	Ch	eP	12	49	02
	Ml	eP		51	25.4
	Wr	iP			38.8c
	Qt	iP			58.2c
		eS	13	00	18.4
27	Qt	eP	14	16	51.4
		eS		19	11.7
	Wr	eP		17	51.5
27	Qt	eP	18	4[illegible]	02.1d
27	Wr	eP	19	39	02.4
	Ml	eP			18.6
	Qt	eP		40	04.0
		eS		42	00.[illegible]

H = 19 : 37 : 25
40°.5N, 70°.9E
KIRGIZ S.S.R.
Depth about 33 Km

27	Qt	eP	20	58	48.9c
27	Qt	eP	21	57	14.2
		eS		58	26
27	Qt	eP	22	50	53.5
		eS		53	13.4
28	Ml	eP	01	54	41.1
	Qt	eP		55	03.8
		iS	02	00	20.0
	Wr	eP	01	55	20.2
	Ch	eP		58	00
28	Qt	eP	03	17	16.6
28	Qt	eP	05	36	05.5
28	Wr	eP	05	38	42.8
	Qt	eP		39	01.6c
28	Wr	eP	09	34	24.7
	Qt	iP			54.9d
28	Qt	eP	11	30	39 onsetpoor
	Wr	eP			51.3
	Ml	eP			56.3

March, 1969

28	Wr	eP	11	42	22.1
	Qt	eP			40.6
28	Qt	eP	18	59	08.1d
29	Wr	eP	06	18	48.9
	Qt	eP		19	00.3
29	Qt	eP	09	22	01.9
		eS		27	04.0
	Wr	iP		22	49.0c
	Ml	eP			59.0
	Ch	eP		24.	42
		eS		31	53
29	Qt	eP	11	10	58.7
		eS		15	54.0
	Wr	iP		11	44.9c
	Ml	eP			56.3
	Ch	eP		13	41
29	Qt	eP	12	13	22.4
	Ch	eP		14	00
29	Qt	eP	13	14	27.7
		eS		19	20.0
	Wr	eP		15	09.0
	Ch	eP		17	05
29	Qt	eP	13	53	49.9c
		eS		55	44.0
	Wr	eP		54	41.1
	Ch	eP		55	55
29	Qt	eP	18	36	49 onset poor
		eS		41	54.4
	Wr	eP		37	36
29	Qt	eP	21	39	17 onsetpoor
	Wr	eP		40	04.1
30	Ch	eP	07	18	30
	Qt	eP		21	24.6
30	Ch	eP	08	02	38
		eS		08	36
	Ml	eP		04	59.0
	Wr	iP		05	13.3c
		eS		13	14.6
	Qt	iP		05	33.2c
		eS		14	06.2
30	Qt	eP	11	09	41.5
	Wr	eP			52.0

March, 1969

30	Ch	eP	21	04	21
		eS		09	34
	Wr	eP		06	58.2c
	Qt	eP		07	18.2c
31	Qt	eP	07	21	51.9
		eS		26	46.2
	Wr	iP		22	26.2d
	Ch	eP		25	05
31	Qt	eP	09	07	07 onsetpoor
31	Ch	eP	12	24	28
	Wr	eP		28	50.0
	Qt	eP		29	06.5

March, 1969

31	Ch	iP	19	32	27d
	Ml	eP		33	31.4
	Wr	iP			42.2d
		iS		40	25.4
	Qt	iP		34	19.5d
		iS		41	34.7
31	Qt	eP	20	03	57 onsetpoor
31	Qt	eP	20	35	48.3
31	Qt	eP	21	50	30.2

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

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GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL INSTITUTE
POST BOX NO. 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ Quetta, the April, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from Ist to 8th March, 1969

Continuation

March, 1969

1	Qt	iP	00	46	00.6c
1	Qt	eP	10	48	53.5
1	Qt	eP	19	47	35.9
		eS		48	55.7
1	Qt	eP	23	00	38.2
2	Ml	eP	04	57	28.0
	Wr	iP			43.9c
	Kr	eP			53.4c
	Qt	iP		58	01.9c
2	Wr	eP	14	07	13.4
		eS		15	17.4
	Qt	eP		07	26.4
		eS		15	34.4
2	Wr	eP	15	09	14.7
		eS			46.5
	Qt	iP		10	07.1d
		iS		11	25.7
2	Ch	iP	22	29	12 c
	Wr	eP		30	09.8
	Qt	eP			34.3
2	Wr	eP	22	31	59.7
	Qt	eP		32	23.8c
3	Qt	eP	01	05	51.9
		eS		11	07.8
	Kr	eP		06	14.9
	Wr	iP			17.6c
	Ml	eP			27.4
	Lh	eP			35
	Ch	iP		08	55 c
3	Lh	eP	06	21	38
	Ml	eP			53.4
	Wr	eP		22	23.0d
		eS		23	54.3
	Qt	eP			01.0
		eS		25	01.6
	Kr	eP		23	17.0
	Ch	eP			29
		iS		25	47

H = 06 : 20 : 26
30°.1N, 79°.8E
HIMALAYAN RANGE
Depth about 33 km

March, 1969

3	Ch	eP	09	00	27
		eS		06	30
	Wr	eP		03	06.4
	Qt	eP			29.1
3	Ml	iP	14	03	41.5c
	Lh	eP			46
	Wr	iP			48.1d
	Qt	iP		04	05.2c
		eS			53.3
	Kr	eP			49.2

H = 14 : 03 : 07
31°.5N, 71°.1E
West Pakistan
Depth about 33 Km

3	Ch	eP	14	59	30
	Wr	eP			53.4
	Qt	eP	15	00	29.8
		eS		09	27.6
3	Qt	iP	15	42	47.0c
	Wr	eP		43	30.6
	Ml	eP			49.5
	Kr	eP		44	01.2
3	Ch	eP	20	29	41
		eS		35	50
	Wr	eP		32	15.1
	Qt	eP			33.3
		eS		41	09.5
4	Qt	eP	01	53	30.7
	Wr	eP			50.6
4	Qt	eP	15	50	42.6
4	Qt	eP	17	37	45.3
	Kr	eP		38	17.0
4	Qt	eP	20	02	20.1
5	Kr	eP	06	55	54.2
5	Wr	eP	09	01	00.5
	Qt	eP			10.5
5	Ml	eP	11	16	45.6
	Qt	eP		17	54 Onset poor
	Kr	eP		18	03.3

5	Lh	eP	14	01	51
	Ml	eP			56.3
	Kr	eP		02	22.6
		eS		10	49.5
	Qt	eP		02	29.1
		eS		11	01.9
5	Qt	eP	14	45	48.2
5	Ml	eP	16	21	03.9
	Wr	eP			16.9
		eS		29	34.6
	Kr	eP		21	29.8
	Qt	eP			38.3c
		eS		30	09.8
5	Wr	eP	19	34	07.0
	Ml	eP			27.5
	Lh	eP			49
	Qt	iP		35	03.6
		eS		36	09.6
	Kr	eP			04.2c
		iS		38	09.7

H = 19 : 33 : 40
35°.0N, 70°.6E
HINDUKUSH REGION
Felt in the Northern areas of West Pakistan
Depth about 160 km.

5	Qt	eP	20	17	50.1
6	Wr	eP	01	16	07.6
		eS		24	25.4
	Qt	eP		16	27.7
		eS		25	01.5
	Kr	eP		16	20.5
6	Qt	eP	01	24	32.8
6	Wr	eP	01	30	54.5
	Qt	eP		31	13.5
	Kr	eP			17.7
6	Ch	eP	01	54	04
		eS	02	00	06
	Qt	eP	01	57	00.2c
6	Ch	eP	03	33	28
		eS		39	30
	Qt	eP		36	23.0
		eS		44	53.7
	Wr	eP		36	30.5

6	Wr	eP	07	50	12.8
	Qt	iP			39.6c
6	Wr	eP	10	34	43.4
		eS		35	15.2
	Qt	eP			40.8
		eS		36	59.1
6	Qt	eP	19	34	14.2
	Wr	eP			24.7
6	Qt	eP	20	19	47 Onset poor
		iSs		21	57.1
6	Qt	eP	20	32	12.1
6	Qt	eP	23	27	22.7c
		eS		28	52.1
7	Qt	eP	01	55	33.4
7	Qt	eP	02	02	53.2
7	Qt	eP	03	57	43.7
		iS		58	55.1
7	Ml	eP	08	09	29.6
	Wr	eP			33.6
	Qt	eP		10	42.7
7	Wr	iP	09	28	17.7d
		eS			50.1
	Ml	eP			40.7
		iS		29	28.7
	Qt	iP			17.0d
		iS		30	35.3

	Mu	Sec
PB	0.1	0.6

△ 7°.0

Kr	eP	09	30	18,8	

H = 09 : 27 : 36
36°.4N, 70°.3E
HINDUKUSH REGION
Depth about 160 km.
Mag = 5.4(Qt)

7	Qt	eP	20	35	00.2
7	Ml	eP	23	05	09.4
	Wr	iP			28.3c
	Qt	iP			48.6c

International Seismological Centre

March, 1969

8	Qt	iP	00	00	13.5
8	Ch	eP	10	28	05
	Ml	eP		29	03.7
	Wr	iP			10.8d
	Qt	iP			49.4d
		eS		37	41.5
8	Wr	eP	11	40	23.9
	Qt	eP			41 onset poor
		eS		49	14.0

March, 1969

8	Qt	eP	12	00	15.1
8	Qt	eP	18	27	41.6o
8	Qt	eP	21	16	39.1
8	Qt	eP	21	24	09.7
8	Wr	eP	21	31	22.2
	Qt	eP		32	40.2

(K.U.Siddiqi) T.I,
for Director,
Meteorological Services

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GOVERNMENT OF PAKISTAN - MINISTRY OF DEFENCE

PAKISTAN METEOROLOGICAL DEPARTMENT - GEOPHYSICAL INSTITUTE, POST BOX NO. 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ 2097 Quetta, the 16 May, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st to 8th May, 1969

Additional

April, 1969

24	Wr	eP	00	43	08.6
24	Wr	eP	14	52	37.0
24	Ml	eP	16	26	54.5
		eS		27	40.1
24	Wr	eP	16	41	58.0
25	Qt	eP	07	37	25.2c
		eS		38	04.0
	Lh	eP		37	28
	Wr	iP			29.1c
	Ml	iP			32.5d
		eS		38	09.5
	Kr	eP			15.3
	Ch	eP		41	21

H = 07 : 36 : 37
30°.8N, 70°.5E
Near Leiah
West Pakistan
Depth about 33 km

26	Lh	eP	03	57	19
26	Ml	eP	04	06	47.5
		eS		07	26.0
26	Kr	eP	06	18	26.7
	Ml	eP			46.0
26	Ml	eP	23	04	56.3
		eS		05	43.8
27	Ch	eP	01	44	08
27	Wr	eP	05	00	27.5
	Ml	eP			46.0
		eS		01	32.9
	Qt	iP			33.1c
		iS		02	58.4

	Mu	Sec
PZ	0.02	0.7

△ = 7°.7

H = 04 : 59 : 41
36°.9N, 71°.2E
HINDUKUSH
Depth about 96 km
Mag = 4.8 (Qt)

April, 1969

27	Wr	eP	20	12	24.4
		eS		13	06.9
29	Kr	eP	04	41	03.8
		eS		43	33
	Lh	eP		42	09
29	Lh	eP	21	28	19
30	Wr	eP	03	38	16.6
		eS		39	06.2
	Ml	eP		38	22.9
		eS		39	21.0
	Qt	eP			24.3d
		eS		41	11.7

	Mu	Sec
PZ	0.04	0.7

△ = 9°.9

H = 03 : 37 : 06
38°.2N, 73°.9E
Tadzhik S.S.R.
Depth about 223 Km.
Mag = 4.7(Qt)

30	Kr	eP	07	07	25.5
30	Wr	eP	15	28	38.4
	Ml	eP		29	09.2
30	Lh	eP	20	27	52
30	Wr	eP	21	40	59.3

Continuation

May, 1969

1	Qt	eP	02	12	00.8c
		eS		15	07.7
1	Wr	P	04	02	52
	Qt	eP		03	53.6
1	Qt	iP	08	10	06.9d
		iS		11	35.4

1	Wr	P	12	01	57
	Qt	eP		02	15 onset poor
1	Ch	P	16	41	44
	Qt	eP		44	48.3c
1	Qt	eP	18	08	51.0
		eS		14	13.5
	Wr	P		09	12
	Ch	P		12	52
1	Qt	eP	19	14	33.2
	Ch	P		18	46
1	Wr	P	19	23	50
	Qt	iPKP			58.9
		ePP		25	35.5
1	Qt	eP	20	13	19.0
	Wr	P			40
2	Qt	eP	20	50	21.2
2	Qt	eP	22	55	51.6c
3	Qt	eP	03	48	42.1
3	Qt	eP	13	28	00.1
3	Qt	eP	21	33	22.1d
4	Wr	P	03	22	42
		S		23	11
	Qt	eP			47.5
		iS		25	09.3
4	Wr	P	13	51	53
	Qt	eP		53	02.1
4	Qt	eP	15	22	38.4c
4	Wr	P	17	28	28
	Qt	eP			38.4
5	Qt	eP	02	51	47.8
		eS		56	42.6

	Mu	Sec
MH	3.9	20
△ =	30°.0	

	Wr	P	02	52	33
	Ch	P		54	28

Mag = 5.6(Qt)

5	Qt	eP	05	44	52.1
	Wr	P		45	02
	Ch	P		47	06
5	Qt	ePKP	14	12	13
	Wr	P			21
	Ch	P		13	32

5	Wr	P	21	57	29
	Qt	eP			42.4
		eS	22	06	06.6
5	Qt	eP	23	53	46.2d
		i(S)		54	18.3
7	Qt	iP	09	02	18.6d
7	Qt	eP	13	59	02.9
7	Qt	eP	14	03	39.6
7	Qt	eP	14	51	53.6
		eS		53	12.0
7	Qt	iP	15	40	12.1
		eS		41	40.6

	Mu	Sec
PH	0.01	0.5
△ =	7°.8	

Mag= 5.3(Qt)

7	Qt	eP	19	09	21 onsetpoor
7	Qt	eP	20	42	17.4
		iS		43	36.6
7	Qt	eP	22	30	26.4
8	Wr	P	02	01	02
	Qt	eP			32.0
8	Qt	eP	17	51	58.6
		eS		53	33.1
8	Qt	eP	22	49	38.2c
8	Qt	eP	23	46	04.5
		eS		47	31.0

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services

International Seismological Centre

28 APR 1969

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International Seismological Centre

GOVERNMENT OF PAKISTAN, MINISTRY OF DEFENCE

PAKISTAN METEOROLOGICAL DEPARTMENT, GEOPHYSICAL INSTITUTE, POST BOX NO. 2,

MURREE BREWERY SITE, QUETTA WEST PAKISTAN

No.SS-9(2)/69/6563 Quetta, the 14 April, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla
x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st to 8th April, 1969

Continuation

April, 1969

1	Qt	iP	05	50	47.9
		eP		52	06.6
	Kr	P		51	51
		S		53	58
1	Qt	iP	16	36	32.2d
		iS			40.0
	Kr	iP		37	40
		S		33	38

30.0°N, 67°.3E. Tinle 2. Shallow 2 16 36(21)

Epicentre 30 Miles southeast of Quetta in Zarghun Hills. Felt at Quetta Intensity IV.

1	Qt	eP	20	37	53 onsetpoor
1	Qt	eS	20	59	58.9
1	Qt	eP	21	45	41.0
2	Qt	eP	00	04	23.8
2	Qt	eP	07	33	37.1
2	Qt	eP	12	43	13.1
2	Qt	eP	13	39	43.1
3	Qt	eP	00	05	18.4d
		eS		06	50.3

	Mu	Sec
PZ	0.007	0.7

$\Delta = 8°.1$

Mag= 5.0(Qt)

3	Qt	eP	02	56	22.1

April, 1969

3	Qt	eP	15	09	55 onsetpoor
		eS		11	11.4
3	Ch	P	15	11	08
	Wr	P		13	37
	Qt	eP			50.4c
		eS		23	42.7
3	Qt	iP	19	31	c8.9d
3	Qt	eP	21	16	12onsetpoor
3	Wr	P	22	19	22
	Qt	eP			48.1
	Ch	P		22	51
3	Qt	eP	23	59	25.7
4	Ch	P	08	56	16
	Wr	P			37
	Qt	iP		57	08.1d
4	Qt	iP	11	24	55.4c
		eS		26	12.1
4	Qt	eP	12	24	55.4
		eS		30	09.9
4	Ch	P	14	01	26
	Qt	eP		04	36.7
4	Qt	eP	16	22	09.9c
4	Wr	P	16	35	10
	Qt	eP			17.9d
4	Ch	P	23	07	56
	Wr	P		08	08
	Qt	iP			44.3c
		eX		11	25.9
	Kr	P		09	09
4	Qt	eP	23	57	26.1
		eS		58	41.2

April, 1969

5	Qt	eP	01	39	48.8
5	Kr	P	02	24	18
	Qt	eP			39.0
		eS		29	33.8
	Wr	P		25	21
	Ch	P		27	20
		S		34	30
5	Wr	P	03	54	18
	Qt	eP			36.1
5	Ch	P	04	11	46
		S		18	46
	Wr	P		14	19
	Qt	iP			39.1d
5	Qt	eP	16	20	55 onsetpoor
5	Qt	eP	17	57	10.9
5	Qt	eP	20	12	34.1
5	Qt	eP	20	20	45.5
	Wr	P		21	28
5	Qt	eP	23	45	54onsetpoor
	Wr	P			37
6	Qt	eP	03	56	20.4
		eS	04	04	21.6
	Wr	P	03	56	38
6	Wr	P	09	59	11
	Qt	eP			33.1
6	Qt	eP	16	57	56.0
		eS	17	02	59.4
6	Wr	P	19	27	29
	Qt			28	21.7
6	Qt	iP	19	46	22.0
		eS			24.4

Mildly felt at Quetta.
Intensity III.Epicentre about 15 miles southeast of Quetta in Chiltan Hills.

6	Qt	eP	20	27	07.5
6	Qt	eP	23	37	41.8
7	Wr	P	03	49	49
	Qt	eP		50	08.4c
7	Qt	eP	06	30	02 onsetpoor
		eS		35	04.8

	Mu	Sec
MH	2.5	20

$\Delta = 31^{\circ}.2$

Wr P 06 30 47

Mag = 5.5(Qt)

April, 1969

7	Qt	eP	18	12	16.4
		eS		13	23.1
7	Qt	eP	18	50	26.3d
7	Wr	P	20	35	23
	Qt	eP			59.2
		eS		43	44.6
7	Qt	eP	21	01	15.2
		iX			24.1
		eS		02	45
8	Qt	eP	02	20	06.4
		eS		25	17.6
8	Qt	eP	10	32	13.6d
		e(S)		38	49.9
8	Qt	eP	11	43	45.2
		e(S)		45	03.0
8	Qt	eP	17	54	45.2c

(K.U.Siddiqi)T.I.,
for Director,
Meteorological Services

International Seismological Centre

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GOVERNMENT OF PAKISTAN
MINISTRY OF DEFENCE
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL INSTITUTE
POST BOX NO. 2, QUETTA

P A K I S T A N

International Seismological Centre
29 APR 1969

No.SS-9(2)/69/6672

Quetta, the 24th April, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th April, 1969

Additional
April, 1969

1	Wr	iP	05	49	48.3d
		iS		50	20.5
	Ml	eP			09.9
		eS			59.1
	Qt	iP			47.9d
		eS		52	06.6
	Kr	eP		51	51
		eS		53	58

H = 05 : 49 : 06
36°.5N, 70°.07E
HINDUKUSH REGION
Depth about 160 km

1	Wr	eP	16	37	43.1c
	Ml	eP			56.1
	Lh	eP		38	32
1	Ch	eP	20	35	08
		eS		40	00
	Wr	eP		37	33.6
2	Wr	eP	19	39	16.5
3	Wr	eP	00	04	13.1d
		eS			52.6
	Ml	eP			29.4
		eS		05	19.6
	Qt	eP			18.4d
		eS		06	50.3

	Mu	Sec
PE	0.007	0.7
△ =	8°.1	

H = 00 : 03 : 22
37°.1N, 71°.6E
HINDUKUSH REGION
Depth about 160 Km
Mag = 5.0(Qt)

April, 1969

3	Ml	eP	02	55	07.7
3	Wr	eP	15	08	55.4
	Ml	eP		09	18.0
		eS		10	06.8
3	Wr	eP	19	30	48.6
3	Wr	eP	21	15	09.4
3	Ml	eP	22	20	20.5
4	Kr	eP	08	57	29.2
4	Wr	eP	11	23	51.4
		eS		24	18.4
	Ml	eP			13.7
		eS			58.1
	Qt	iP			55.4c
		eS		26	12.1

H = 11 : 23 : 16
36°.0N, 70°.9E
HINDUKUSH REGION
Depth about 160 Km

4	Wr	eP	14	04	06.2d
4	Ml	eP	23	08	07.3
	Lh	eP			14
4	Wr	eP		56	24.7
	Ml	eP			49.1
5	Lh	eP	02	25	35
5	Kr	eP	03	54	27.8
5	Kr	eP	03	54	27.8
5	Kr	eP	04	14	32.1
5	Wr	eP	20	13	15.0
5	Kr	eP	23	45	44.4
6	Kr	eP	03	56	43.4
6	Wr	eP	16	58	38.2
6	Ml	eP	19	27	28.0
7	Ch	eP	03	47	14
		eS		53	18
	Ml	eP		49	37.1
	Kr	eP		50	01.8

April, 1969

7	Wr	eP	18	11	26.8
7	Lh	eP	20	35	56
8	Wr	eP	02	20	33.5
8	Wr	eP	10	31	57.0
		eS		38	26.0
	Kr	eP		32	04.5
8	Wr	eP	11	42	53.4
		eS		43	20.5

Continuation

April, 1969

9	Qt	eP	11	56	25.7d
9	Ch	P	13	05	21
		S		11	446
	Qt	eP		07	18.1d
10	Ch	P	15	00	40
	Lh	P		01	38
	Wr	P			45
		S		07	53
	Qt	iP		02	23.7d
		eS		09	05.6
	Kr	P		02	43
		S		09	42
10	Qt	eP	16	00	19.1
		iS		01	36.5
10	Ch	P	22	03	42
	Wr	P		05	55
	Qt	eP		06	28.9
		eS		13	33.1
11	Qt	eP	04	14	27.2
11	Qt	eP	13	45	55.8
		eS		50	46.7
11	Qt	eP	19	22	42.6
12	Qt	eP	07	45	35.2
		eS		50	30.6
12	Qt	eP	10	55	15.8c
12	Qt	eP	20	45	42.5
	Lh	P		46	19
12	Qt	eP	21	27	16 Onsetpoor
12	Wr	P	22	18	50
	Qt	eP		19	43 Onsetpoor
13	Qt	iP	05	51	15.0d
13	Qt	iP	15	28	57.5c
		eS		31	54.4
	Wr	P		29	05

Southeastern India

13	Qt	iP	17	33	46.4c
13	Wr	P	20	16	24
	Qt	eP			26.0

April, 1969

13	Wr	P	23	44	00
		S		52	45
	Qt	eP		44	13.8
		eS		53	09.4
14	Wr	P	07	08	46
	Qt	iP			48.8d
14	Qt	eP	13	15	59.0
		eS		18	22.6
	Wr	P		17	02
14	Wr	P	18	07	47
		S		08	15
	Lh	P			28
		S		09	29
	Qt	eP		08	50.0
		eS		10	06.7

H = 18 : 07 : 11
36°.0N, 71°.1E
HINDUKUSH REGION
Depth about 160 Km.

14	Qt	eP	19	45	20.1
		eS		46	55.4
15	Lh	P	17	40	32
	Wr	P			37
	Qt	eP		41	14.1c
15	Lh	P	18	02	04
	Qt	eP			33onsetpoor
	Ch	P		03	18
15	Qt	iP	21	20	31.2c
15	Lh	P	22	23	32
	Wr	P			55
		S		30	56
	Qt	iP		24	02.4d

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

International Seismological Centre

Phone : 2003,2339,2875 Cable : G e o p h y s i cs

GOVERNMENT OF PAKISTAN MINISTRY OF DEFENCE PAKISTAN METEOROLOGICAL DEPART-
MENT - GEOPHYSICAL INSTITUTE, POST BOX NO. 2, MURREE BREWERY SITE, QUETTA
P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/6823 Quetta, the 3rd May April, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla
x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd April, 1969

Additional

April, 1969					
9	Ml	eP	13	06	33.1
	Wr	eP			42.2
9	Wr	eP	14	21	58.5
9	Wr	eP	22	58	20.4
10	Wr	eP	05	39	13 onsetpoor
10	Wr	eP	15	59	24.7
		eS			57.9
	Ml	eP			48.0
		eS	16	00	40.5
	Qt	eP			19.1
		eS		01	36.5

H - 15 : 58 : 40
36°.3N, 70°.1E
HINDUKUSH REGION
Depth about 223 km

10	Wr	eP	17	19	47.2
10	Lh	eP	22	05	37
11	Kr	eP	02	28	54.1
11	Kr	iP	13	35	07.6c
		iS			20
11	Ml	eP	14	50	08.2
		eS			29.6
12	Ml	eP	02	08	47.0
		eS		09	35.5
12	Ch	eP	02	40	18
		eS			47
12	Wr	eP	21	21	52.8
12	Ml	eP	22	19	17.0
		eS		20	11.4
12	Wr	eP	23	12	39.1
13	Wr	eP	08	53	00.1d
		eS			36.9
13	Ml	eP		54	21.1
13	Kr	eP	15	28	16.8
	Ch	eP		29	31

April, 1969					
13	Kr	eP	17	33	26
	Ml	eP			27.1
13	Ch	eP	23	41	35
		eS		48	15
	Ml	eP		43	47.0
	Kr	eP		44	03.4c
14	Wr	eP	06	35	57.4
14	Kr	eP	07	08	24.9
	Ml	eP			31.1
14	Kr	eP	08	28	05.4
14	Wr	eP	10	06	50.9d
		eS		07	28.4
14	Kr	eP	13	16	09.0
14	Ml	eP	18	08	10.0
		eS		09	54.0
14	Wr	eP	19	44	13.4
	Ml	eP			30.0
		eS		45	21.5
	Qt	eP			20.1
		eS		46	55.4

H - 19 : 43 : 19
37°.5 N, 71°.7E
Tadzhik S.S.R.
Depth about 160 km.

15	Ml	eP	05	05	18.8
15	Kr	eP	17	41	31.6
15	Kr	eP	18	04	56.8
15	Ch	eP	22	26	09

Continuation:

April, 1969					
16	Ch	P	01	33	17
	Lh	P		35	00
	Wr	P			13
	Qt	eP			30.2

April, 1969

16	Qt	eP	05	00	47.2
16	Qt	eP	23	02	14.9c
		eS		07	47.8
16	Qt	eP	23	27	40.2c
17	Qt	iP	03	21	58.9c
		eS		22	21.8
	Wr	P			23
	Lh	P			38
	Wr Kr	P			44
		S		23	46

H - 03 : 21 : 27
29°.6N, 69°.2 E
Barkhan, West Pakistan
Depth about 33 km.

17	Wr	P	05	05	55
	Qt	eP		06	33.1
17	Qt	iP	12	59	57.5d
18	Qt	eP	05	56	35 onsetpoor
		eS		57	47.1
18	Qt	eP	11	53	14.7
		eS			42.4
18	Qt	iP	12	43	24.7c
		eS		52	40.0
18	Qt	eP	22	19	51.4
19	Qt	eP	08	54	13.1
		eS	09	01	22.0
19	Qt	eP	14	47	57.5
		eS		49	29.1
19	Qt	eP	15	28	14.1c
19	Qt	eP	19	38	57.0d
19	Qt	eP		45	53 onsetpoor
		eS		49	20.0
20	Qt	eP	07	59	19.7
20	Qt	eP	13	09	54onsetpoor
		eS		12	14.6
20	Qt	iP	20	25	27.0c
		iS		26	47.7
21	Qt	iP	02	38	12.6
	Ch	P			37
21	Qt	eP	04	18	26.5
		eS		19	54.4
21	Ch	P	07	26	34
	Lh	P		27	56
	Qt	eP		28	54.4c
		eS		36	47.1

April, 1969

21	Qt	eP	15	02	57.4d
21	Qt	eP	18	07	06.4
22	Qt	eP	00	48	28.9
22	Qt	eP	00	51	48.5
22	Qt	eP	06	00	27.6
22	Qt	eP KP	06	52	07.9
	Kr	P			13
22	Wr	P	08	20	59
	Qt	iP		21	35.8c
	Kr	P			54
22	Wr	P	12	50	40
	Qt	eP		51	34.1
22	Wr	P	13	37	18
		S		38	02
	Qt	eP			10 onsetpoor
22	Qt	iP	20	26	25.1
		iS		27	23.6

	Mu	Sec
PE	0.02	0.7

△ = 5°.1
Mag= 4.5(Qt)

22	Qt	eP	22	07	19.1c
22	Kr	P	22	38	05
	Qt	eP		39	00.7c
		iS		42	40.6
	Wr	P		39	58
22	Qt	eP	23	08	14.6
23	Qt	eP	02	30	34.9
		eS		32	37.2
23	Qt	eP	06	08	39.4c
23	Qt	eP	13	43	20.7
23	Qt	eP	21	05	14.0c

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

International Seismological Centre

20 MAY 1969

Phone : 2003,2875,2339

Cable : Geophysics

International Seismological Centre

GOVERNMENT OF PAKISTAN
MINISTRY OF DEFENCE
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL INSTITUTE
POST BOX NO. 2, QUETTA

P A K I S T A N

No.SS-9(2)/69/ 6998 Quetta, the 12 May, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 30th April, 1969

Additional
April, 1969

16	Wr	eP	23	02	35.2
	Lh	eP		03	04
16	Kr	eP	23	27	54.4
	Wr	eP		28	01.4c
	Lh	eP			29
17	Ml	eP	03	22	28.0
		eS		23	25.0
17	Wr	eP	07	02	23.0
	Qt	eP			26.7
17	Wr	eP	18	47	52.7
		iS		48	43.2
	Qt	eP			38.8
		eS		50	08.6
18	Wr	iP	12	43	14.1c
	Kr	eP			15.1
19	Kr	eP	08	54	01.7
	Wr	eP			09.4c
		eS	09	01	18.4
19	Wr	eP	14	46	55.0
	Ml	eP		47	07.9
		eS			58.4
	Qt	eP			57.5
		eS		49	29.1

H = 14 : 46 : 00
37°.2N, 72°.0E
Tadzhik S.S.R.
Depth about 223 Km

21	Wr	eP	02	38	08.1c

April 1969

21	Wr	eP	04	17	28.0
	Ml	eP			45.5
	Qt	eP		18	26.5
		eS		19	54.4

H = 04 : 16 : 30
37°.6N, 71°.0E
HINDUKUSH REGION
Depth about 223 Km

21	Kr	eP	07	29	08.4
22	Ch	eP	08	19	44
	Lh	eP		20	51
22	Ch	eP	12	56	15
22	Lh	eP	22	39	51
23	Wr	eP	02	29	24.6
	Ml	eP			26

Continuation
April, 1969

24	Qt	eP	00	44	01 onsetpoor
		e(S)		46	11.9
24	Qt	eP	02	30	53.6
24	Qt	eP	11	52	26.1c
24	Qt	eP	14	52	16 onsetpoor
24	Qt	eP	16	42	27.3
		iS		43	50.0
25	Wr	P	03	53	29
	Qt	eP			33.6
	Ch	P		54	08

25	Qt	eP	07	37	25.2c
		eS		38	04.0
	Wr	P		37	29
	Ch	P		41	21
25	Qt	eP	21	30	15.2
25	Qt	eP	21	45	36.9
25	Lh	P	22	50	45
	Qt	eP		51	52 onsetpoor
		eS		53	43.9
26	Qt	eP	03	56	41.1
		eS		57	58.2
26	Qt	eP	04	07	05.3
26	Qt	ePKP	06	18	23.0
		ePP		21	43.0
	Ch	P		18	53
26	Qt	eP	12	20	22.8
26	Qt	eP	20	25	31.4
26	Qt	eP	22	04	49.9d
26	Qt	eP	22	23	40.5
26	Qt	eP	23	06	15 onsetpoor
27	Qt	eP	01	47	09.6d
		eS		55	11.8

		Mu	Sec
	PZ	0.02	0.7
	△ = 7°.6		
	Mag = 4.9(Qt)		

27	Qt	eP	13	17	48.2
27	Qt	eP	20	13	10 onsetpoor
28	Qt	eP	07	43	51.4
28	Wr	P	12	55	08
	Qt	iP			39.3d
		eS	13	00	24.4
28	Qt	eP	17	30	32.2
28	Ch	P	12	51	39
	Wr	P		52	08
	Qt	eP			23.2
29	Qt	eP	04	40	46 onsetpoor
		eS		43	18.0
	Wr	P		41	45
	Kr	P			45
		S		44	14
29	Wr	P	09	35	58
	Qt	eP		36	58.2
		eS		38	12.7

April, 1969

29	Wr	P	21	28	20
	Qt	eP			56.8c
30	Wr	P	03	38	17
		S		39	06
	Qt	eP			24.3d
		eS		41	11.7

		Mu	Sec
	PZ	0.04	0.7
	△ = 9°.6		
	Mag = 5.7(Qt)		

30	Qt	eP	07	07	51.4
		eS		08	37.7
30	Qt	eP	15	23	44.1
30	Qt	iP	15	29	42.2c
		iS		30	56.1

		Mu	Sec
	PZ	0.01	0.5
	△ =	6°.5	
	Mag=	4.8(Qt)	

30	Qt	eP	16	41	20.5 c
30	Qt	eP	19	33	33.6
30	Qt	eP	20	27	06.6
		eS		32	35.0
	Wr	P		27	23
30	Qt	eP	21	41	20.1

(K.U.Siddiqi)T.I,

for Director,
Meteorological Services

International Seismological Centre

Phone : 2003,2339,2875

Cable : Geophysics

GOVERNMENT OF PAKISTAN - MINISTRY OF DEFENCE - PAKISTAN METEOROLOGICAL DEPARTMENT - GEOPHYSICAL CENTRE, POST BOX NO. 2, MURREE BREWERY SITE QUETTA

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ 7358

Quetta, the 5th June, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd May, 1969

Additional

May, 1969

10	Wr	eP	13	08	06.9d
		eS			35.5
	Ml	eP			27.0
		eS		09	10.5
	Qt	eP			12.9
		eS		10	34.4

H = 13 : 07 : 28
36°.3N, 71°.3E
HINDUKUSH REGION
Depth about 160 km

11	Kr	eP	00	22	06.1
	Wr	eP		23	55.4
11	Ml	eP	07	51	13.3
		iS			39.6
11	Wr	eP	08	56	55.0
	Ml	eP		57	15.5
		eS		58	01.6
	Qt	eP			02.2
		eS		59	19.6

H = 08 : 56 : 24
35°.7N, 71°.4E
HINDUKUSH REGION
Depth about 160 Km

11	Ml	eP	13	17	32.2
13	Wr	eP	12	28	55.3
		eS		29	48.0
	Ml	eP			05.4
		eS		30	00.5
	Qt	eP			04.3
		eS		31	55.3

H = 12 : 27 : 46
38°.5N, 73°.1E
TADHZIK S.S.R.
Depth about 160 Km

May, 1969

13	Ml	eP	14	39	30.4
	Kr	eP			37.4
14	Wr	eP	06	19	03.4
		eS			36.4
14	Kr	eP	10	12	10.4
14	Lh	eP		14	40
14	Wr	eP	17	04	05.2
		eS			41.0
	Ml	eP			22.3
		eS		05	09.3
	Qt	eP			10.7
		eS		06	37.2

H = 17 : 03 : 19
36°.8N, 71°.5E
HINDUKUSH REGION
Depth about 160 Km.

14	Ml	eP	19	44	31.5
15	Wr	eP	03	30	59.0d
15	Ml	eP	20	40	37.2
	Ch	eP		44	39
		eS		48	53
15	Ml	eP	21	36	21.5
		eS			40.5
	Wr	eP			42.4
15	Lh	eP	22	47	33
16	Ml	eP	00	27	14.2
		eS			50.9

International Seismological Centre

Continuation:
May, 1969

16	Wr	P	00	26	36
	Qt	eP		27	49.0
		eS		28	54.1
16	Qt	eP	00	53	30 onset poor
		eS		54	36.0
16	Qt	eP	04	07	46.1c
16	Qt	iP	07	05	55.5d
16	Qt	eP	07	22	18.6
16	Qt	eP	16	26	30 onset poor
16	Qt	eP	17	13	49 onset poor
		eS		15	32.6
16	Qt	eP	23	09	03.5
		eS		10	22.0
16	Qt	eP	23	58	32 onset poor
		eS		59	37.0
17	Qt	eP	11	35	53 onset poor
		eS		37	21.9
17	Qt	eP	15	41	43.2
17	Qt	eP	15	43	41.2
17	Qt	eP	16	58	14.4
		eS		59	43.9
17	Qt	eP	19	49	26.7
18	Qt	iP	04	51	23.4c
		eS		52	35.1
18	Qt	eP	08	56	45.7
18	Qt	eP	13	09	46 onset poor
18	Qt	eP	21	06	29.2c
18	Qt	eP	21	13	13 onset poor
		eS		14	40.3
19	Wr	P	08	47	26
	Qt	eP		48	04 onset poor
		eS		49	48.1
19	Wr	P	09	17	27
		S		18	00
	Qt	eP			32 onset poor
		eS		19	55.3
19	Qt	iP	10	03	29.6c
		iS		04	47.5
19	Qt	eP	18	20	06 onset poor
20	Qt	eP	08	30	10 onset poor
20	Qt	eP	09	35	46 onset poor
20	Qt	iP	16	38	18.4d
		eS		39	45.5

May, 1969

21	Ch	P	03	03	35
	Wr	P		06	13
	Qt	eP			36.5
		eS		14	34.4
21	Qt	eP	11	45	32.2d
		eS		46	53.5

	Mu	Sec
PS	0.03	0.7

$\triangle = 7^{\circ}.2$
Mag= 5.1(Qt)

21	Qt	iP	15	33	38.7d
		iS		34	53.4
	Wr	P			43

	Mu	Sec
PS	0.06	0.7

$\triangle = 6^{\circ}.6$
Mag = 5.4(Qt)

21	Qt	eP	17	17	53.2d
21	Qt	eP	21	55	56.6d
22	Qt	iP	20	01	10.8c
22	Qt	eP	21	44	24.0
22	Qt	iP	22	39	17.4c
23	Qt	iP	13	17	21.6d
23	Qt	eP	15	58	06.5
23	Qt	iP	16	21	25.1c
23	Qt	eP	17	14	56.8
23	Qt	eP	17	58	20.5
		iS		59	49.6

(K.U.Siddiqi)T.I.,
for Director,
Meteorological Services

23 JUN 1969

Phone : 2003,2339,2875 Cable : GEOPHYSICS

International Seismological Centre

GOVERNMENT OF PAKISTAN - MINISTRY OF DEFENCE - PAKISTAN METEOROLOGICAL DEPARTMENT - GEOPHYSICAL CENTRE, POST BOX NO. 2, MURREE BREWRY SITE QUETTA

P A K I S T A N

No.SS-9(2)/69/7533 Quetta, the 16th June, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

Provisional x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 31st May, 1969

Additional

May, 1969

16	Wr	eP	00	52	17.2
16	Kr	eP	04	08	36.1
16	Ch	eP	07	03	46
	Wr	eP		05	21.0d
	Kr	eP		06	09.8
16	Wr	eP	16	26	20.1
16	Wr	eP	23	08	00.3
	Ml	eP			21.8
		eS		09	05.8
16	Wr	eP	23	57	19.5
17	Wr	iP	11	35	09.9d
	Ml	eP			40.1
17	Wr	eP	15	41	54.7
18	Wr	eP	04	50	27.4d
		eS			55.5
	Ml	eP			53.9
		eS		51	40.9
	Qt	iP			23.4c
		eS		52	35.1

H = 04 : 49 : 50
35°.9N, 70°.0E
HINDUKUSH REGION
DEPTH ABOUT 160 KM

18	Wr	eP	08	56	19.0
18	Ml	eP	21	12	24.8
		eS		13	13.6
19	Ml	eP	08	46	59.5
19	Ml	eP	09	17	48.2
19	Wr	iP	10	02	24.6d
		iS			53.1
	Ml	eP			47.8
		eS		03	31.0
	Qt	iP			29.6c
		iS		04	47.5

H = 10 : 01 : 48
36°.3N, 70°.8E
HINDUKUSH REGION

May, 1969

20	Wr	iP	09	34	46.4d
	Ml	eP		35	10.0
20	Ml	eP	16	37	36.3
		eS		38	27.1
21	Wr	eP	11	44	35.6
		eS		45	07.0
21	Ml	eP	15	33	09.6
		iS			58.0
	Qt	iP			38.7d
		iS		34	53.4

	Mu	Sec
PM	0.06	0.7
△ = 6°.6		

Kr	eP	15	34	43.8
	eS		36	47

H = 15 : 32 : 03
36°.1N, 69°.9 E
HINDUKUSH REGION
Depth about 160 Km.
Mag = 5.1(Qt)

23	Ch	eP	13	16	51 onset poor
	Wr	eP			55.6d
23	Wr	eP	17	14	55.0
23	Wr	eP	17	57	16 onset poor

Continuation:

May, 1969

24	Qt	eP	09	51	24.3
25	Qt	eP	11	38	37.4
25	Qt	eP	15	11	46.1
25	Qt	eP	20	37	23.3d
25	Qt	eP	22	49	24.8
26	Qt	eP	01	36	32.8

International Seismological Centre

May, 1969

26	Wr	P	15	46	42
	Qt	eP		47	06.3c
		eS		55	03.9
27	Qt	iP	04	50	28.8d
		eS		51	45.6

	Mu	Sec
PZ	0.01	0.5

$\triangle = 6^{\circ}.7$

Mag = 4.8(Qt)

27	Qt	eP	09	37	26.8
27	Qt	iP	16	40	23.5c
27	Qt	iP	22	46	11.4d
		eS		47	28.6

	Mu	Sec
PZ	0.007	0.6

$\triangle = 6^{\circ}.8$

Mag = 4.6(Qt)

28	Qt	eP	03	50	52.3
28	Qt	eP	13	18	45.3
28	Qt	ePKP	13	49	11.2
		epPKP			54.4
		ePP		51	44.7
		ePKS		52	27.9
		ePS	14	01	41.4
		ePPS		03	47.9
		eSS		09	13.5
28	Qt	eP	17	22	57
29	Qt	eP	03	00	54.8
		eS		02	14.4
30	Qt	eP	06	07	10.6
30	Qt	eP	16	14	35.7c
30	Qt	eP	16	41	46.2
30	Qt	eP	23	30	44.6

May, 1969

31	Qt	eP	00	36	48.2
31	Wr	P	03	36	52
		S		37	14
	Qt	eP			50.3
		eS		38	51.0
31	Qt	eP	05	06	47.4
31	Lh	P	15	28	40
	Wr	P		29	18
	Qt	eP			39 onset poor
		eS		31	14.6
31	Wr	P	22	00	20
	Lh	P		01	02
	Qt	iP			21.6c
		eS		02	38.2

	Mu	Sec
PZ	0.04	0.5

$\triangle = 7^{\circ}.0$

H = 21 : 59 : 41

$36^{\circ}.3N$, $71^{\circ}.0E$

HINDUKUSH REGION

Depth about 160 Km

Mag = 5.1(Qt)

(K.U.Siddiqi)T.I.
for Director,
Meteorological Department

30 JUN 1969

Phone: 2003, 2339, 2875 Cable : Geophysics

International Seismological Centre

GOVERNMENT OF PAKISTAN - MINISTRY OF DEFENCE - PAKISTAN METEOROLOGICAL DEPARTMENT - GEOPHYSICAL CENTRE, POST BOX NO. 2, MURREE BREWERY QUETTA

P A K I S T A N

No.SS-9(2)/69/7639 Quetta, the 23 21 June, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st to 8th June, 1969

Additional

May, 1969

26	Wr	eP	01	36	19.2
27	Wr	eP	09	37	12.0
27	Wr	iP	16	40	14.7c
28	Wr	eP	03	50	28.2c
28	Wr	eP	13	49	13 ± onset poor
28	Wr	eP	17	21	48.5
		eS		23	12.3
29	Wr	eP	02	59	52 onset poor
		iS	03	00	17.4
30	Wr	eP	16	14	26.9
30	Wr	eP	16	41	40.4
31	Wr	iP	03	36	52.3c
		iS		37	14.3
	Lh	eP			03
	Qt	eP			50.3
		eS		38	51.0

H = 03 : 36 : 28
33°.1N, 72°.5E
West Pakistan
Depth about 96 Km

31	Ml	iP	15	28	53.8c
		iS		29	47.3
31	Ml	iP	22	00	43.7c
		iS		01	30.1

Continuation

June, 1969

1	Qt	iP	00	08	38.2d
		iS		18	32.0
1	Qt	eP	08	40	20.7
1	Qt	eP	12	38	07.4
		eS		39	25.5

	Mu	Sec
PE	0.03	0.7
△	=6°.9	
Mag=	5.1(Qt)	

1	Qt	eP	13	59	25.0c
1	Qt	eP	20	12	12 onset poor
1	Qt	eP	23	32	44.6
2	Qt	iP	05	50	52.9c
2	Qt	iP	17	54	46.7d
		eS		56	10.8
2	Qt	eP	22	55	08 onset poor
3	Qt	eP	09	29	50.6
		eS		31	10.1

	Mu	Sec
PE	0.03	0.6
△	=7°.0	
Mag=	5.2(Qt)	

International Seismological Centre

June, 1969

3	Qt	eP	10	25	58.0d
3	Qt	eP	13	46	22.2
3	Qt	iP	18	15	19.0c
		eS		16	48.8
			Mu		Sec
		RE	0.03		0.6
		∠ =	7°.9		
		Mag=	5.7(Qt)		
3	Qt	eP	19	34	32 onset poor
		eS		36	20.5
3	Qt	eP	22	03	23.6c
4	Qt	eP	00	43	26.5
		eS		46	10.9
4	Kr	P	16	22	51
		S		24	04
	Qt	eP		23	15.4
		eS		24	39.7
4	Qt	eP	16	51	54.6
		eX		52	24.1
4	Qt	iP	19	00	07.0c
		eS			42.8
	Kr	P			40
		S		01	53
4	Qt	eP	19	12	48.6
4	Qt	eP	20	26	40.5
5	Wr	P	06	01	16
		S			50
	Qt	eP		02	14.5
		eS		03	36.3
5	Qt	iP	10	52	55.2
		eS		58	42.4
5	Qt	iP	14	06	38.2c
		eS		08	00.1
5	Wr	P	17	30	22
	Kr	P			33
	Qt	eP			40.1
5	Qt	iP	18	48	30.1d
		eS		50	03.5
5	Qt	eP	21	03	46.6

June, 1969

6	Qt	iP	10	57	52.5d
		eS		59	07.6
6	Qt	eP	21	50	23.9
		eS		52	03.2
7	Qt	iP	22	59	44.6c
8	Qt	iP	01	02	01.8d
8	Qt	eP	06	27	25.9
		eS		28	53.6
8	Qt	eP	11	03	16.2
8	Qt	eP	11	59	34.4
8	Qt	eP	12	20	39.3c
8	Qt	iP	14	25	31.9c
		iS		26	49.0
8	Qt	eP	15	00	24.3
8	Qt	eP	15	11	58.5
8	Qt	eP	19	39	45.4
		eS		41	04.0

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services

Phone : 2003,2339,2875 Cable: Geophysics

GOVERNMENT OF PAKISTAN - MINISTRY OF DEFENCE

PAKISTAN METEOROLOGICAL DEPARTMENT - GEOPHYSICAL CENTRE, POST BOX 3, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-9(2)/69/ 7250 Quetta, the 28 May, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th May, 1969

Additional

May, 1969

1	Wr	eP	08	09	02.4d
		eS			40.8
	Ml	eP			18.2
		eS		10	08.0
	Qt	iP			06.9d
		iS		11	35.4

H = 08 : 08 : 13
37°.0N 71°.6E
HINDUKUSH REGION
Depth about 160 km

1	Ch	eP	11	59	01
		eS	12	04	45
1	Wr	eP	16	44	33.9
2	Wr	eP	22	55	15.8
3	Ch	eP	13	24	49
		eS		25	40.5
	Wr	eP		27	38.0

4	Wr	iP	03	22	42.0d
		iS		23	11.2
	Ml	iP			02.0
		iS			46.1
	Qt	eP			47.5
		eS		25	09.3

H = 03 : 22 : 04
36°.2N, 71°.2E
Hindukush Region
Depth about 160 km.

4	Kr	eP	13	53	37.8
4	Wr	eP	15	22	29.7
4	Lh	eP	17	28	02
5	Kr	eP	05	45	10.1
7	Ch	eP	08	59	16
	Wr	iP	09	01	55.8d
	Kr	eP		02	15.6

May, 1969

7	Wr	eP	14	50	45.6
	Wr	eS	15	39	06.7
	Ml	eP			23.9
	Qt	eP		40	12.1
		eS		41	40.6

	Mu	Sec
PZ	0.01	0.5

△ = 8.6

H = 15 : 38 : 10
37°.8N, 71°.5E
Tadzhik S, S. R.
Depth about 160 km
Mag = 4.7(Qt)

8	Wr	eP	17	50	54.3
		eS		51	36.3
	Ml	eP			10.9
		eS		52	05.4
	Qt	eP		51	58.6
		eS		53	33.1

H = 17 : 48 : 58
37°.7N, 71°.5E
Tadzhik S.S.R.
Depth about 160 km

8	Wr	eP	23	44	59.0
	Ml	eP		45	15.9

Continuation:

May, 1969

9	Qt	eP	17	10	28.6
9	Qt	eP	18	57	51 onset poor
		eS		59	08.3
9	Qt	eP	19	39	26.3d
9	Qt	eP	23	22	53.2
10	Qt	eP	13	09	12.9
		eS		10	34.4
10	Qt	eP	16	20	41.8
		eS		22	18.8

May, 1969

11	Qt	eP	00	22	56.3c
		eS		26	23.6

	Mu	Sec
PZ	0.04	1.1

△ = 19°.0

Mag = 4.6(Qt)

11	Wr	P	07	50	42
	Qt	eP		52	03 onset poor
		iS			56.6
11	Qt	eP	08	58	02.2
		eS		59	19.6
11	Qt	eP	10	53	08.6
11	Qt	eP	12	21	16.1
11	Wr	P	13	17	12
		S			38
	Qt	eP		18	14.7
		eS		19	35.7
11	Qt	eP	14	41	15 onset poor
		eS		43	35.7
11	Qt	eP	16	25	51 onset poor
		eS		27	07.5
11	Wr	P	18	35	58
	Qt	eP		37	12.6
		eS		38	59.3

	Mu	Sec
PZ	0.006	0.7

△ = 9°.5

Mag = 4.9(Qt)

12	Qt	eP	19	11	24.7d
13	Qt	eP	00	46	25 onset poor
		eS		47	29.4
13	Wr	P	10	06	04
		S		07	15
	Qt	eP			04.9c
		eS		09	01.4
13	Qt	eP	10	18	39.7
		eS		20	34.2
13	Qt	iP	12	30	04.3d
		eS		31	55.3
13	Qt	iP	14	29	48.2c
13	Wr	P	14	35	56
	Qt	ePKP			56 onset poor
		ePP		38	09.5
	Ch	P		36	30

May, 1969

13	Lh	P	14	39	22
	Kr	P			37
	Wr	P			44
	Qt	eP			54.3
13	Qt	eP	17	57	36 onset poor
14	Qt	eP	06	19	48.6
		eS		21	03.0
14	Qt	eP	10	11	52.6
	Wr	P		12	14
14	Qt	eP	17	05	10.7
		eS		06	37.2
14	Ch	P	19	44	21
		S		53	38
	Wr	P		44	32
	Lh	P			36
	Qt	iP		45	04.3c
		iS		54	42.6
	Kr	P		45	27
14	Qt	eP	20	22	50.2
14	Qt	eP	20	44	34.6
14	Qt	eP	23	19	55 onset poor
15	Qt	eP	02	33	49.1c
15	Qt	iP	08	02	09.7c
15	Qt	eP	12	12	20.2
15	Qt	eP	18	11	16.5
		eS		12	40.3
15	Wr	P	20	39	59
	Lh	P		40	52
	Qt	iP		41	09.9c
		eS		42	06.6

	Mu	Sec
PZ	0.1	0.5

△ = 5°.0

Kr	P	20	42	15
	S		44	04
Ch	P			39

H = 20 : 39 : 51
33°.9N, 70°.8E
Pakistan-Afghanistan Border Region
Felt:- Slightly at Warsak W.Pakistan
Depth about 15 Km
Mag = 4.8(Qt)

15	Qt	eP	21	37	47 onset poor
		eS		39	13.3
15	Ch	P	22	45	18
		S		51	04
	Kr	P		47	51
	Wr	P			56
	Qt	iP		48	06.3c
		eS		56	02.4

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services.

International Seismological Centre

15 AUG 1969

International Seismological Centre

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

No.SS-3(2)/69/ 546 Quetta, the 11.6 June, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak-Kr-Karachi,-Ml-Mangla, Nr-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd June, 1969

Additional
June, 1969

9	Wr	eP	07	03	08.0
10	Wr	eP	17	24	21.8
10	Ml	eP	22	57	10.2
10	Ml	iP	23	>2	01.9d
11	Wr	eP	02	55	12.4
11	Wr	eP	04	55	06.4d
	Ml	eP			49.5
11	Wr	eP	15	20	27.4
12	Lh	eP	07	50	59
	Wr	iP		51	05.1c
		eS		58	56.0
12	Wr	eP	15	20	49.7d
		eS		26	39.8
	Ml	eP		21	08.2
	Lh	eP			15
12	Wr	eP	19	07	26.1
13	Ch	eP	08	58	05
	Lh	eP			43
	Kr	eP		59	46.6
14	Wr	eP	00	34	55.8
14	Lh	eP	03	35	49
14	Ml	eP	06	08	41.6
		eS		09	29.1
14	Wr	eP	12	55	29.6d
		eS			59.0
15	Wr	eP	04	35	43.3
15	Lh	eP	17	04	42
	Wr	iP		05	10.4c

Continuation
June, 1969

16	Qt	eP	07	01	34 onset poor
16	Wr	P	15	56	16
	Nr	eP			17
		eS	16	04	45
	Qt	iP	15	56	38.6d
		eS	16	05	27.4
17	Lh	P	19	36	45
	Nr	eP			50
		eS		45	16
	Wr	P		36	59
		S		45	32
	Qt	eP		37	27.3c
		eS		46	18.0
	Kr	P		37	32
17	Qt	eP	23	29	35.9c
		eS		33	46.0
	Nr	eP		29	58
	Wr	P			43
18	Qt	eP	00	16	51 onset poor
18	Qt	eP	01	51	31.7
18	Qt	eP	06	36	20 onsetpoor
18	Qt	iP	08	46	31.4c
		iS		47	44.6
18	Qt	eP	15	20	02.8
18	Nr	eP	15	28	56
	Qt	iP		29	50.4d
		iS		31	09.6
18	Nr	eP	20	15	15
	Qt	iP			30.8d

International Seismological Centre

June, 1969

18	Nr	eP	20	53	23
	Qt	eP			50.4d
18	Nr	eP	23	56	15
	Qt	iP			45.2c
		eS	00	07	11.8
19	Qt	eP	04	59	04.1
19	Wr	P	05	29	20
	Nr	eP			30
	Qt	eP		30	13.0
19	Wr	P	05	40	21
		S		41	14
	Nr	eP		40	31
	Qt	eP		41	11.1d
		eS		42	39.8
19	Nr	eP	07	11	44
	Wr	P			55
	Qt	eP		12	28.7
19	Wr	P	18	20	07
	Nr	eP			20
	Qt	eP		21	06.1
		eS		22	48.6
19	Nr	eP	19	07	04
	Qt	eP			42.8c
19	Nr	eP	20	37	06
	Qt	eP			34.9c
19	Nr	eP	21	45	21
	Qt	eP			51.3d
20	Nr	eP	02	50	03
	Qt	iP			31.7d
		eS	03	01	01.9
20	Nr	eP	06	50	28
	Qt	eP		51	11.3d
20	Nr	eP	15	06	15
		eS			58
	Qt	eP			55.1
		eS		08	11.2
20	Nr	eP	15	47	10
	Qt	iP			54.5c
20	Qt	eP	16	16	35 onset poor
		eS		17	48.3
21	Nr	eP	06	45	50
	Qt	eP		46	24.2c

June, 1969

21	Nr	eP	07	56	12
	Qt	eP			52.2c
21	Qt	eP	08	24	11.6c
21	Nr	eP	15	20	27
	Wr	P			37
	Qt	iP			42.5d
		eS		27	36.8
21	Qt	iP	16	37	13.8c
		eS		38	44.0
	Wr	P			20
	Nr	eP			36
21	Qt	eP	17	36	11 onset poor
22	Lh	P	01	34	33
	Nr	eP			56
	Wr	P		35	14
	Qt	iP			55.9c
		eS		37	48.4

H = 01 : 33 : 31
30°.9N, 79°.1E
Himalaya Range, India
Depth about 96 Km.

22	Qt	eP	07	23	09 onsetpoor
		eS		24	29.6
22	Nr	eP	10	56	55
		eS	11	06	22
	Qt	iP	10	57	28.8c
		eS	11	07	27.0
	Kr	P	10	57	52
22	Nr	eP	16	09	49
	Qt	iP		10	22.4d
22	Nr	eP	02	00	22
	Qt	iP		01	24.9c
		eS		03	07.4
23	Qt	iP	06	07	17.7c
23	Qt	eP	07	27	37.9
23	Qt	eP	11	15	22.4

(K. U. Siddiqi)T.I,
for Director,
Meteorological Services.

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

No.SS-3(2)/69/581 Quetta, the 18 June, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla, Nr-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 30th June, 1969

Additional
June, 1969

16	Ch	eP	07	03	46
17	Lh	eP	23	30	14
18	Wr	eP	20	53	35.7
18	Wr	eP	23	56	16.0
	Lh	eP			21
19	Wr	P	18	20	07
	Ml	eP			27.9
		eS		21	42.2
	Qt	eP			06.1
		eS		22	48.6

H - 18 : 18 : 53
39°.0N, 70°.4E
TADZHIK S.S.R.
Depth 223 Km.

20	Wr	iP	02	50	07.7d
	Lh	eP			09
20	Ml	eP	15	06	18.8
		eS		07	13.1
21	Wr	eP	07	56	28.0
21	Ml	eP	15	20	23.1
	Kr	eP			24.6
21	Qt	iP	16	37	13.8c
		eS		38	44.0
	Kr	iP		37	15.8d
	Wr	P		38	20
	Ml	eP			38.4

H - 16 : 35 : 17
28°.0N, 57°.7E
Central Iran
Depth 96 Km.

June, 1969

21	Wr	eP	17	35	39.8
22	Ml	eP	01	34	47.6
	Kr	eP		36	16.6
22	Ml	eP	07	22	23.6
		eS		23	07.6
22	Ml	eP	10	56	55.8
	Wr	iP			58.4c
23	Wr	eP	02	00	22.2
	Ml	eP			28.0
23	Wr	eP	06	06	09.8
	Kr	eP		08	28.4
23	Wr	eP	07	27	30.8

Continuation:
June, 1969

24	Nr	eP	03	41	14.0
		eS		51	05.0
	Wr	eP		41	22.7d
	Qt	eP			37.6
24	Wr	eP	06	24	18.6
	Nr	eP			31.0
		eS		25	14.0
	Ml	eP		24	39.3
	Qt	eP		25	09.4
		eS		26	26.8
	Ch	eP		25	51.0

H - 06 : 23 : 20
37°.3N, 69°.8E
TADZHIK S.S.R.
Depth about 223 Km.

June, 1969

24	Qt	eP	08	47	41.0	onset poor
	Nr	eP		48	30.0	
24	Nr	eP	11	06	54.0	
	Wr	eP		07	11.4	
	Qt	eP			36.8	
		eS		15	16.8	
24	Wr	eP	23	58	11.6	
	Nr	eP			24.0	
		eS		59	01.0	
	Ml	eP		58	32.2	
	Qt	eP		59	18.0	onset poor
25	Nr	eP	00	17	24.0	
	Wr	eP			35.4	
	Qt	eP		18	00.2	
		eS		25	21.8	
25	Wr	eP	04	45	00.3	
	Qt	eP		46	04.0	
25	Nr	eP	07	31	48.0	
		eS		37	27.0	
	Wr	eP		32	04.4	
	Qt	eP			05.5	
25	Wr	eP	08	13	11.9	
		eS			50.9	
	Nr	eP			29.0	
		eS		14	10.0	
	Ml	eP		13	37.0	
		eS		14	24.7	
	Qt	iP			19.5	
		iS		15	40.8	

H -08 : 12 : 34
36°.4 N, 71°.1E,
HINDUKUSH REGION
Depth about 223 km.

25	Nr	eP	20	27	50.0	
	Qt	eP		28	16.0	onset poor
26	Nr	eP	08	01	07.0	
		eS		09	32.0	
	Wr	eP		01	15.3	
	Qt	eP			34.0	

June, 1969

26	Qt	eP	14	09	03.5	
26	Nr	eP	15	54	08.0	
	Qt	iP			54.1d	
26	Nr	eP	17	51	45.0	
		eS			58.0	
	Qt	eP		52	41.2	
26	Wr	eP	21	30	50.4	
		iS		31	27.7	
	Qt	eP			42.0	
		eS		33	03.9	
27	Wr	eP	02	25	19.0d	
	Qt	iP			53.9c	
27	Qt	eP	02	58	51.9	
27	Qt	eP	06	49	30.0	
27	Qt	eP	07	23	09.0	onset poor
	Nr	eP			41.0	
27	Qt	iP	15	48	58.8d	
27	Qt	iP	16	21	17.9d	
27	Qt	iP	20	07	22.4c	
	Nr	eP		09	11.0	
28	Nr	eP	14	31	44.0	
	Wr	iP			55.0c	
	Qt	eP		32	16.5c	
28	Wr	eP	17	01	29.4	
		eS			59.0	
	Nr	eP			41.0	
		eS		02	21.0	
	Qt	eP			34.7	
		eS		03	54.4	
28	Qt	eP	22	34	32.7	
		eS		36	32.8	
	Wr	eP		35	20.4	
	Nr	eP			38.0	

International Seismological Centre

June, 1969

29	Wr	eP	03	42	08.0
		eS		43	37.9
	Nr	eP		42	09.0
	Qt	eP		43	16.8
		eS		45	50.1
29	Qt	eP	07	27	39.4d
		eS			46.7
	Kr	eP			47.0
		eS		28	23.0
29	Nr	eP	10	52	53.0
	Wr	eP			54.8
	Qt	eP		53	03.1
29	Wr	iP	12	44	48.1d
	Nr	iP		45	03.0
	Ml	eP			09.5
	Ih	eP			29.0
	Qt	eP			43.4d
29	Qt	eP	12	58	49.1d
		eS		59	41.2
29	Qt	eP	17	28	02.7
30	Wr	eP	06	59	11 onset poor
	Qt	eP	07	00	18.3
		eS		02	17.0
30	Nr	eP	07	43	10.0
	Qt	eP			27.6
30	Nr	eP	08	56	00.0
		eS		59	08.0
	Qt	eP		56	56.6

June, 1969

30	Kr	eP	15	01	04.1
		eS			14.4
	Qt	eP		02	02 onset poor
30	Wr	eP	16	26	40.0
		eS		27	05.0
	Nr	eP		26	57.0
	Ml	eP		27	05.8
		iS			49.3
	Qt	eP			41.0
		eS		28	54.3
	Ih	eP			23.0

H - 16 : 26 : 06
35°.8N, 70°.4E
HINDUKUSH REGION
Depth about 223 km.

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

International Seismological Centre

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

PAAKISTAAN

International Seismological Centre

No.SS-3(2)/69/414 Quetta, the 6 June, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla, Nr-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th June, 1969

Additional

June, 1969

1	Ch	eP	08	36	18
		eS			57
	Wr	eP		39	51.6
		Felt at Sylhet			
2	Wr	iP	17	53	47.0d
		iS		54	17.8
	Ml	eP			06.5
		eS			52.5
	Qt	iP			46.7d
		eS		56	10.8

H = 17 : 53 : 03
36°.4N, 71°.0E
HINDUKUSH REGION
Depth about 223 Km

3	Wr	iP	18	14	13.3
		eS			50.3
	Ml	eP			32.0
		eS		15	19.5
	Qt	iP			19.0
		eS		16	48.8

	Mu	Sec
PZ	0.03	0.6

△ = 7°.9
H - 1[illegible] : 13 : 25
37°.0N, 71°.4E
HINDUKUSH REGION
Depth about 160 Km
Mag = 5.0(Qt)

June, 1969

3	Ml	eP	19	33	29.0
	Wr	eP			46.7
4	Wr	eP	00	42	17.5
4	Wr	eP	16	52	17.0
4	Nr	eP	20	26	03
5	Wr	iP	06	01	15.6c
		iS			50.4
	Nr	eP			27
		iS		02	10
	Ml	iP		01	34.0d
	Qt	eP		02	14.5
		eS		03	36.3

H = 06 : 00 : 28
36°.7N, 70°.9E
HINDUKUSH REGION
Depth about 223 Km

5	Nr	eP	10	52	41
	Wr	eP			52.2
5	Wr	eP	14	05	38.2
	Ml	eP			57.2
		iS		06	44.8
	Qt	iP			38.2c
		eS		08	00.1

H = 14 : 04 : 53
36°.5N, 71°.0E
HINDUKUSH REGION
Depth about 223 Km

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June, 1969

5	Nr	eP	17	30	13
		eS		38	15
5	Nr	eP	18	47	32
		eS		48	18
	Wr	eP		47	38.0
	Ml	eP			40.8
6	Wr	eP	10	56	51.4
		eS		57	20.5
	Ml	eP			12.8
		eS			57.8
	Qt	iP			52.5d
		eS		59	07.6

H = 10 : 56 : 14
36°.1N, 70°.8E
HINDUKUSH REGION
DEPTH ABOUT 160 Km.

6	Wr	eP	21	49	17.0
7	Nr	eP	22	59	14
8	Wr	eP	01	01	06.7
	Nr	eP			20
		eS		02	01
8	Nr	eP	06	26	30
		eS		27	12
8	Nr	eP	12	20	10
8	Wr	iP	14	24	29.1d
		eS			55.7
	Nr	eP			43
		iS		25	22
	Ml	eP		24	52.5
		eS		25	36.6
	Qt	iP			31.9c
		iS		26	49.0

H = 14 : 23 : 53
36°.0N, 70°.8E
HINDUKUSH REGION
Depth about 160 Km

8	Nr	eP	14	59	45
	Wr	eP			50.0
8	Nr	eP	15	12	13
8	Nr	eP	19	39	00
		eS			40

Continuation:
June, 1969

9	Nr	eP	07	03	00
	Qt	iP			25.6
		eS		13	28.0
9	Nr	eP	18	55	20
	Qt	eP		56	37 onset poor
		eS		59	58.8
9	Nr	eP	22	10	41
	Qt	eP		11	16.4
		eX		12	01.3
9	Nr	eP	23	19	34
	Qt	eP		20	16.4
10	Qt	eP	15	38	40.3
10	Nr	eP	17	24	04 onset poor
	Qt	eP			45 onset poor
10	Wr	P	22	52	55
	Nr	eP		53	09
		iS			49
	Lh	P			36
	Qt	iP			52.9d
		iS		55	10.7
	Kr	P		54	53
		S		56	52

H = 22 : 52: 12
36°.3N, 70°.7E
HINDUKUSH REGION ..
Felt at Warsak & Peshawar

Depth about 223 Km

10	Wr	P	23	31	38
	Nr	P			53
	Lh	P		32	26
	Qt	iP			32.4d
		eS		33	47.9
	Kr	P			36
		S		35	38

H = 23 : 30 : 57
36°.2N, 69°.6E
HINDUKUSH REGION
Felt at Warsak and Peshawar

Depth about 96 Km.

11	Nr	eP	01	10	32
	Qt	eP			57.4
		eX		17	47.0

June, 1969

11	Nr	eP	02	54	46
		eS		55	30
	Qt	eP			39.7
11	Nr	eP	04	55	55
		eS	05	01	55
	Qt	eP		56	08.0d
11	Qt	eP	10	56	39.7d
11	Nr	eP	15	20	17
		eS		27	31
	Qt	eP		20	56.9
12	Nr	eP	07	50	58
		eS		58	42
	Qt	eP		51	41.9c
		eS	08	00	06.0
12	Qt	eP	15	20	28.0c
		epP			34.8
		ePP		21	48.0
		ePPP		22	08.0
		eScP		24	46.8
		eS		26	00.0
		eSS		28	42.0
		eScS		30	51.0
	Kr	P		20	47
		S		29	28
	Nr	eP		21	04
		eS		27	04
12	Qt	eP	18	15	23.8
	Nr	eP		16	14
12	Nr	eP	19	07	13
	Qt	eP			57.5c
		eS		15	12.4
12	Qt	eP	19	46	05 onset poor
		eS		48	05.0

June, 1969

13	Nr	eP	08	58	35
	Wr	P			40
	Qt	eP		59	15.9c
14	Nr	eP	00	34	45
	Qt	eP		35	18.4c
14	Nr	eP	03	32	39
	Wr	P			58
	Qt	eP		33	41.9
		eX		36	16.7
14	Wr	P	06	08	09
	Nr	eP			30
	Qt	iP			54.4d
14	Nr	eP	09	38	02
	Wr	P			10
	Qt	eP			25.2
14	Nr	eP	12	55	42
	Qt	iP		56	33.7c
		eS		58	03.1
14	Qt	eP	13	54	23 onset poor
	Wr	P			46
	Nr	eP			59
14	Qt	eP	17	49	54 onset poor
		eS		54	02.8
	Nr	eP		50	22
	Wr	P			37
15	Nr	eP	04	35	33
	Qt	eP			52.9c
15	Nr	iP	17	05	01
		eS		11	48
	Qt	eP		05	11 onset poor

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

* Seismic Observatory Nilore(Nr.) has started functioning from Ist June, 1969. Coordinates and altitude etc. are as follows:-

Latitude	Longitude	Altitude	Ground
33° 39'.0N	73° 15'.1E	536 meters	Calcareous Sandstone

Phone:5103

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

Cable : Geophysics

International Seismological Centre

No.SS-3(2)/69/ 865

Quetta, the 26 Aug. 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Kr-Karachi, Wr-Warsak, Ml-Mangla, Nr-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th July 1969 to 31st July 1969

Additional
July 1969

18	Kr	eP	00	15	06.1
18	Kr	eP	05	33	12.4
		eS		40	05
21	Kr	eP	22	16	40.6
--	Kr	e(P)	23	20	44
		eS		21	20

Continuation

24	Qt	eP	00	15	35 onset poor
		eS		16	45.5
24	Qt	iP	01	36	46.2
24	Lh	eP	03	17	32
	Qt	ePKP		18	55.6
		ePP		21	32.1
24	Lh	eP	05	13	20
	Qt	eP			50.6
24	Ml	eP	06	43	50.4
		eS		44	54.8
	Qt	eP		47	29.5
24	Qt	eP	12	53	52.4
		eS	13	04	05.1
24	Qt	eP	15	21	47.8
24	Ml	eP	23	54	21.3
		eS		55	16.5
	Qt	eP		55	24.2
		eS		57	10.7
25	Qt	iP	01	09	27.3d
25	Qt	eP	04	47	53.2
25	Qt	eP	06	24	49.4
	Wr	eP		25	07.7
	Lh	eP			09
25	Qt	eP	06	27	38.5
	Kr	eP			38.6

July 1969

25	Qt	eP	09	18	06.5
25	Qt	eP	13	06	47.9
25	Lh	eP	13	43	53
	Wr	eP		44	14
	Kr	eP			24.5
	Qt	eP			31.8
25	Ml	eP	17	39	38.5
		eS		40	29.0
	Qt	iP			05.6d
		iS		41	16.7

	Mu	Sec
PZ	0.016	0.5

$\triangle$ - 6.3°
Mag - 5.0 (Qt)

25	Qt	eP	21	10	42 onset poor
25	Ch	eP	22	53	49
		eS		59	33
	Lh	eP		56	29
	Wr	eP			38
	Qt	eP		57	20.0
		eS	23	03	31.4
	Kr	eP	22	57	23.8
26	Qt	eP	12	35	02.6
26	Qt	eP	15	44	36.3
26	Ml	eP	17	51	06.6
		iS		52	02.3
	Qt	eS		53	56.7
26	Qt	eP	21	07	16.6
27	Qt	eP	02	32	53.4
27	Qt	eP	19	39	39.8
27	Lh	eP	21	34	02
	Qt	iP			23.1c
		eS		44	52.6
27	Lh	eP	22	34	43
	Qt	iP		35	33.8c

July 1969

27	Ml	eP	22	49	07.1
		eS		50	18.1
	Qt	eP			15 onset poor
		eX		52	25.6
28	Qt	eP	06	42	31.8
28	Qt	eP	12	57	58.3
		eS	13	00	00.1
28	Qt	iP	13	12	54.8d
28	Qt	iP	17	49	23.4d
		eS		50	19.0
28	Qt	eP	23	16	53.8
		eS		18	55.8
29	Qt	eP	03	37	00.5
		eS			15.3
29	Kr	eP	05	19	04.8
	Qt	eS		21	31.8

July 1969

29	Ml	eP	11	38	48.8
		eS		39	37.6
	Qt	eP		39	35.7
		eS		40	56.6
29	Qt	iP	13	07	13.5d
		eS		10	53.4
29	Qt	eP	14	50	45.4
		eS		51	46.3
29	Qt	eP	20	55	58.5
		iS		56	01.7
30	Qt	eP	03	34	34.0
30	Qt	eP	04	29	23.3
30	Qt	eP	08	46	42.7
		eS		47	02.1
30	Qt	iP	10	06	20.2d
		eS			33.3
30	Qt	eP	18	54	04.2
		eS			23.3
31	Qt	eP	05	14	52.0
		eS		15	03.0
31	Qt	eP	11	35	23.4
		eS		45	48.2
31	Qt	eP	19	06	53.5

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

Phone:5103

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

Cable:Geophysics

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/1240

Quetta, the 4 October, 1969

QUE-Quetta, LAH, Lahore, CHT, Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla, NIL-Nilore.

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st to 8th August, 1969

Additional

July, 1969

24	WRS	eP	00	14	21.0
		eS			59.0
24	WRS	eP	03	18	56.2
24	WRS	eP	05	13	34.6
24	WRS	eP	12	54	17.7
24	WRS	eP	23	54	53 ±
25	WRS	eP	04	47	39.9d
25	WRS	eP	06	24	59.9
25	WRS	eP	13	44	13.9c
25	WRS	eP	17	39	12.2d
	MLA	eP			38.5
		eS		40	29.0
	QUE	iP			05.6d
		eS		41	16.7

H 17 : 38 : 32
36.2°N, 69.9°E
H I N D U K U S H
Depth about 33 Km

25	WRS	eP	22	56	52.2
27	WRS	eP	21	33	56.4
27	WRS	eP	22	49	00.2
28	WRS	eP	13	12	21.0
29	WRS	eP	11	38	28.3d
		iS		39	03.3
	MLA	eP		38	48.8
		eS		39	37.6
	QUE	eP			35.7
		eS		40	56.6

H 11 : 37 : 42
37°.0N, 71°.4E
H I N D U K U S H
Depth about 160 Km

July, 1969

30	WRS	eP	03	33	03.0d
30	WRS	eP	04	28	35.2
31	WRS	eP	11	34	57.4

Continuation

August, 1969

1	WRS	eP	23	53	48
	QUE	iP		54	24.5
		eS	00	03	04.1
2	NIL	eP	00	44	18
	WRS	eP			22.7
	QUE	eP		45	00.1
2	NIL	eP	01	23	34
	QUE	eP		24	17.2
2	NIL	eP	04	42	40
	WRS	eP			48.6
	QUE	iP		43	04.3c
2	NIL	eP	04	52	31
	WRS	eP			41.4
		eS		59	47.4
	QUE	eP		52	44.0
2	NIL	eP	06	14	09
	QUE	eP			50.5
2	NIL	eP	10	27	52
	QUE	eP		28	35.0
2	NIL	eP	17	49	42
	QUE	eP		50	21.7
2	NIL	eP	20	23	04
	QUE	iP			29.0
		eS		32	14.3

International Seismological Centre

August, 1969

2	WRS	eP	22	23	16.4
	QUE	eP			35 ±
3	NIL	eP	00	34	56
		eS		45	14
	WRS	eP		35	03.4
	QUE	iP			20.5c
		eS		45	48.4
3	NIL	eP	04	27	44
	WRS	eP			57.0
	QUE	eP		28	29.2
3	NIL	eP	07	58	17
	WRS	eP			22.4
	QUE	eP			59.5
		eS	08	07	48.3
3	QUE	eP	18	51	52.9
		eS		52	18.8
4	WRS	eP	07	56	53.0
	NIL	eP		57	12
	MLA	eP			19.9
		iS		58	13.8
	QUE	iP		57	39.3
		eS		58	46.8

H 07 : 56 : 06
36.9°N, 69.2°E
HINDUKUSH REGION
Depth about 96 Km

4	NIL	eP	10	35	03
	WRS	eP			03.4
	QUE	iP			36.2c
		eS		45	36.3
	KAR	eP		35	59.1
4	QUE	eP	12	13	07.1
4	CHT	eP	17	26	36
		eS		32	22
	LAH	eP		28	45
	MLA	eP			53.0
		eS		36	36.6
	NIL	iP		28	57
		iS		36	42
	KAR	eP		29	06.2
		eS		36	58
	WRS	eP		29	06.7
		iS		37	01.1
	QUE	eP		29	17.7
		eS		37	23.8

August, 1969

4	QUE	eP	19	17	38.8
4	QUE	eP	22	09	31.8
	NIL	eP			44
4	NIL	eP	22	17	32
	QUE	eP		18	20.6
4	NIL	eP	22	50	50
	WRS	eP		51	01.5
	QUE	eP			30.1
		eS		52	47.1
5	CHT	eP	02	20	38
		eS		26	43
	MLA	eP		23	05.6
	NIL	eP			07
	WRS	eP			17.8
	KAR	eP		23	27
	QUE	iP			34.8c
		eS		30	40.6
5	WRS	eP	07	01	43.6
	QUE	eP			58.7
5	WRS	eP	13	13	36.0
	QUE	eP			52.7
		eS		22	24.3
5	CHT	eP	16	43	14
		eS		49	16
	MLA	eP		44	55.8
	NIL	eP			56
	WRS	eP		45	03.5
	QUE	eP			12.4
		eS		56	06.3
	KAR	eP		45	16.1
5	NIL	eP	18	43	45
	QUE	eP		44	27.9c
6	NIL	eP	05	38	39
	QUE	eP		39	05.3
6	NIL	eP	08	50	03
	QUE	eP			46.4
7	QUE	eP	00	18	11 ±
7	QUE	eP	01	10	28.7
		eS		11	06.6
7	NIL	eP	02	01	59
	WRS	eP		02	05.3
	QUE	eP			22.6

August, 1969

7	NIL	eP	06	21	24
	QUE	eP			47.3
7	NIL	eP	06	56	21
	QUE	eP		57	00.5
7	WRS	eP	11	28	29.0
	NIL	eP			42
	MLA	eP			47.5
	QUE	iP		29	27.5d
7	QUE	eP	12	20	05.0
7	QUE	eP	14	10	02.0
		eS		12	14.5
7	NIL	eP	15	41	36
	QUE	iP		42	18.1d
7	QUE	eP	23	08	31.8
		eS		09	16.0
8	NIL	eP	05	11	29
	QUE	eP		12	00.1
8	WRS	iP	06	31	38 d
	MLA	eP			59.9
	LAH	eP		32	21
	QUE	eP			38.1
	KAR	eP			42.6
		eS		35	47
	CHT	eP			49
		eS		39	53

H 06 : 31 : 15
34.6°N, 71.0°E,
HINDUKUSH REGION
Depth about 160 km
Felt in Northern Parts of
West Pakistan.

August, 1969

8	QUE	eP	11	26	40.6
		eS		33	12.7
	WRS	eP		27	40.1
	QUE	eP	16	30	24.1
	NIL	eP			44
8	CHT	eP	20	52	35
	LAH	eP		54	39
	NIL	eP			51
		iS	21	03	23
	WRS	eP	20	55	01.2
		eS	21	03	41
	KAR	eP	20	55	04
	QUE	eP			10.4
		eS	21	04	02.1

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services.

International Seismological Centre

Phone:5103

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX2, QUETTA

P A K I S T A N

Cable:Geophysics quetta.

International Seismological Centre

No.SS-3(2)/69/ 727

Quetta, the 21 August'69

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla, Nr, Nilore
x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th July, 1969

Additional
July 1969
July Ist to July 8th.

2	Nr	eP	10	05	30
		eS		10	20
2	Nr	eP	18	49	11
		eS			55
3	Nr	eP	06	44	16
3	Nr	eP	14	16	50
3	Nr	eP	15	42	39
		eS		43	17
3	Nr	eP	18	13	08
5	Nr	eP	01	54	48
8	Nr	eP	19	35	58
8	Nr	eP	21	14	09
9	Kr	eP	01	40	35
	Qt	eP		41	25.7
		eS		42	42.0
9	Qt	eP	02	07	32.6
9	Wr	eP	19	55	21.8
		eS			53.3
	Ml	eP			45.0
		iS		56	32.8
	Nr	eP		55	35.0
		eS		56	17.0
	Qt	iP		56	18.7
		iS		57	37

H - 19 : 54 : 40.3
36°.2N. 70°.47E
Depth 223 Km
Hindukush Region

July 1969

9	Ml	iP	23	02	40.8c
	Nr	eP			43.0
		eS		11	09
	Qt	iP			03 03.1c
9	Qt	(P)	02	47	09.8
		iS			14.2
	Nr	eP		48	18
		eS		49	24
10	Qt	iP	02	49	4.5d
		iS			9.6
10	Qt	iP	04	43	00.1c
10	Wr	eP	09	02	01.2d
	Nr	eP			04
	Ml	eP			07.0
	Qt	eP			18.0
11	Nr	eP	01	13	51
	Qt	eP		14	00.2
11	Nr	eP	06	04	40
		eS		05	24
	Qt	(P)		06	06 P not traceable
		eS		06	36.3
11	Nr	eP	06	58	42
	Qt	eP		59	03.6
12	Nr	eP	05	22	38
	Qt	eP		23	07.9
12	Qt	eP	06	04	14.4
	Nr	eP			41.0
	Wr	eP			46.0
12	Qt	iP	06	45	10.3c
		eS			46.2
	Kr	eP			34 onsetpoor
	Nr	eP		46	23

International Seismological Centre

July 1969

12	Ch	eP	13	10	11
	Nr	eP			46
	Ml	eP			47.0
	Lh	eP			49
	Wr	eP			51.6
	Qt	iP		11	28.2c
		eS		20	04.0
12	Nr	eP	17	49	27
	Qt	eP		50	17 onset poor
12	Ch	eP	19	25	04.0
		eS		32	11.0
	Lh	eP		26	05.0
	Nr	eP		26	05.0
	Ml	eP			06.9
	Wr	eP			16.2
	Qt	eP			48.9
		eS		35	08.5
12	Qt	eP	20	53	37.0
	Nr	eP		54	55
13	Nr	eP	03	13	57
	Qt	eP		14	46 onset poor
13	Wr	eP	15	54	53.6
		eS		55	43.6
	Kr	eP		55	17
		iS			59
	Qt	iP		56	01.3d
		eS		57	18.3
13	Wr	eP	20	27	16.6
	Nr	eP			19
		eS		28	01
	Qt	eP		28	05.9
		eS		29	25.4

July, 1969

14	Wr	eP	03	35	03.0
	Nr	eP			24.0
	Qt	eP			53.0
14	Nr	eP	12	40	57
	Qt	iP		41	41.8c
14	Qt	eP	14	59	40 onset poor
	Kr	eP			44.6
		eS	15	00	25.0
14	Nr	eP	16	05	2[illegible]
	Qt	eP		06	10.0
14	Nr	eP	18	50	34
	Qt	eP		52	27 onset poor
		eS		53	07.1
15	Nr	eP	01	03	48
	Wr	eP		04	08.0
	Qt	eP		05	07.8
		e(S)		08	40.0
15	Wr	eP	18	37	07.2
	Nr	eP			24.0
		eS		38	05
	Ml	eP		37	34.0
		iS		38	20.4
	Qt	eP		38	11
		eS		39	28.4

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

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GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

Cable : Geophysics

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/ 880-A.

Quetta, the 26 August '69

Qt-Quetta, Lh, Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla, Nr-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd July, 1969

Continuation

July, 1969

16	Wr	eP	01	15	00.6
		iS			26.6
	Qt	eP			18.1
16	Ml	eP	04	57	15.1
	Nr	eP			17.1
		eS	05	05	06.0
	Wr	eP	04	57	27.0
	Qt	eP			46.4
16	Qt	eP	05	30	41.0
		eS		37	36.1
16	Nr	eP	08	27	06.0
	Qt	iP			45.6d
		eS		36	36.9
16	Nr	eP	12	51	51.0
		eS	13	02	09.0
	Wr	eP	12	51	59.0
	Qt	eP		52	14.3
		eS	13	02	44.0
16	Nr	eP	13	05	06.0
	Qt	eP			39.9
17	Nr	eP	04	15	11.0
	Qt	iP			44.4c
18	Nr	eP	04	19	14.0
	Qt	iP			37.4c
18	Wr	eP	04	47	18.6
		eS		48	06.4
	Ml	eP		47	44.8
		eS		48	47.1
	Qt	eP			14.0
		eS		49	39.5

H = 04 : 46 : 23
37.4°, 69.6°E
HINDUKUSH
Depth about 160 km

July, 1969

18	Ch	eP	05	30	51.0
	Nr	eP		31	59.0
	Ml	eP			59.5
	Wr	eP		32	09.4
	Qt	eP			51.8
		iS		39	22.0
19	M				
19	Nr	eP	01	44	23.0
	Qt	iP			45.5c
19	Qt	eP	05	14	11.0
		ePP		17	20.6
	Nr	iP		14	27.0
	Ml	iP			29.3c
19	Wr	eP	08	47	24.9
		eS			58.8
	Nr	eP			44.0
		eS		48	27.0
	Ml	eP		47	53.2
		eS		48	43.2
	Qt	eP			27.0
		eS		49	41.4

H - 08 : 46 : 46
36.4°N, 70.2°E
HINDUKUSH
Depth about 160Km.

20	Nr	eP	04	36	02.0
	Wr	eP			07.2
	Ml	eP			08.7
	Qt	eP			18.3
20	Nr	eP	07	08	48.0
	Ml	iP			56.3c
	Ch	eP			13.0
	Qt	iP			35.4
20	Qt	eP	22	39	33.1
		eS		41	24.3
	Nr	eP		40	54.0

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July 1969

21	Wr	eP	19	53	53.1
	Qt	eP		54	29.2
21	Ml	iP	22	16	18.0
	Wr	iP			31.1d
	Qt	iP			48.6
22	Qt	eP	14	07	36.7
22	Qt	eP	20	14	15.3
23	Nr	eP	01	26	00.0
	Qt	iP			42.2d
23	Nr	eP	04	53	34.0
		eS		54	16.0
	Ml	eP		53	41.4
		eS		54	28.2
	Qt	eP			22.1
		eS		55	44.2

July 1969

23	Qt	eP	08	19	41.3d
23	Nr	iP	13	24	00.0
	Qt	iP			44.6c
23	Nr	eP	16	36	08.0
	Qt	eP			49.5d
23	Nr	eP	17	41	14.0
		eS			56.0
23	Qt	eP	23	20	47.8
	Ml	eP		22	30.2
		eS			54.4

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

PAKISTAN

International Seismological Centre

No.SS-3(2)/69/ 680 Quetta, the 18 July, 1969

Qt-Quetta, Lh-Lahore, Ch-Chittagong, Wr-Warsak, Kr-Karachi, Ml-Mangla, Nr-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st to 8th July, 1969

Continuation
July 1969

1	Qt	eP	03	46	03.4
1	Qt	eP	06	03	07 onset poor
		eS		05	44.0
2	Wr	eP	10	05	47.7
	Qt	eP		06	06 onset poor
2	Ml	eP	18	49	20.1
		iS		50	10.2
	Qt	iP			07.1d
		eS		51	34.8
3	Wr	eP	06	44	27.1
	Qt	iP			45.4c
3	Qt	iP	14	17	12.9c
3	Qt	eP	15	43	25.7
		eS		44	44.5
3	Qt	eP	18	13	41.9
3	Qt	eP	21	27	13.7
3	Qt	iP	21	41	10.4d
		eS		42	26.2
4	Qt	eP	18	48	22.6
5	Wr	eP	01	54	58.0
	Qt	iP		55	12.9c
5	Wr	eP	11	23	42.2
5	Ml	eP	16	40	51.9
		eS		41	39.9
5	Ml	eP	20	36	52.4
		eS		37	39.6
5	Ml	eP	20	46	16.1
		eS		47	03.6

July1969

6	Wr	eP	08	26	26.6
		eS		27	02.1
6	Ml	eP	16	46	01.7
7	Ml	eP	04	54	14.9
	Wr	eS			22.1d
	Kr	eP			53.9
7	Wr	eP	10	08	58.1
8	Ml	eP	04	16	34.9
	Wr	eP			49.0
	Kr	eP			58.6
	Qt	eP		17	05 onset poor
		eS		26	56.8
8	Qt	eP	08	16	42.6
		oS		22	33.2
	Wr	iP		17	00.2c
	Kr	eP			05.7
	Ml	eP			18.5
	Ch	eP		19	40
8	Qt	eP	14	28	50.0
		eS		29	38.4
	Wr	eP		28	58.8
8	Kr	eP	16	28	10.3
	Qt	eP		29	03.3
		eS		30	19.2

	Mu	Sec
PZ	0.1	0.6

△ - 6.7
Mag- 5.7(Qt)

8	Wr	eP	19	35	53.6d
		eS		36	36.3
	Ml	iP			06.4d
		iS			58.8
	Qt	eP			57.9
		eS		38	32.0

H - 19 : 34 : 57
37°.5N, 72°.1E
Tadzhik S.S.R.
Depth about 223 km

International
Seismological
Centre

July 1969

8	Qt	eP	21	12	52.9
		iS		13	03.0
	Wr	eP			55.8
	Kr	eP			59.8
	Ml	eP		14	12.6

H - 21 : 12 : 39
30°.1N, 67°.8E
Near Khost
West Pakistan
Depth about 33 km

(K.U.Siddiqi)T.I,
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GOVERNMENT OF PAKISTAN
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GEOPHYSICAL CENTRE
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P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/ 1459 Quetta, the 15-10 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore
x-Unidentified Phase, c-Compression,
d - Dilatation

Provisional Readings at Seismological Stations from 24th to 31st August 1969

Continuation

August, 1969

24	MLA	eP	02	12	57.5
		eS		13	51.5
	QUE	eP			58.0
		eS		15	42
24	QUE	eP	07	15	26.7
		e(S)		17	35.3
24	WRS	eP	20	32	00.4
		eS			33.1
	MLA	eP			22.0
		eS		33	10.0
	QUE	eP		32	57.8
		eS		34	15.0

H - 20 : 31 : 18
36.3°N, 70.5°E
HINDUKUSH REGION
Depth about 223 km.

24	CHT	eP	22	11	41
		eS		18	42
	LAH	eP		12	43
	WRS	eP			48
	QUE	eP		13	24.8
25	WRS	eP	00	07	44.4
	QUE	eP		08	54 ±
		eS		10	01.9
25	QUE	eP	00	46	09 ±
25	CHT	eP	01	14	57
	QUE	eP		16	44 ±
25	CHT	eP	01	20	42
	QUE	eP		22	27 ±

August, 1969

25	QUE	eP	02	29	04 ±
25	QUE	eP	14	14	45.5d
25	QUE	eP	19	18	36.9c
25	CHT	eP	21	39	48
	LAH	eP		42	02
	WRS	eP			23.1
	QUE	eP			40.2
26	QUE	eP	00	46	20 ±
26	WRS	eP	03	24	07.0
	MLA	eP			19.6
	LAH	eP			43
	QUE	eP		25	17.4
		e(S)		26	58.5
26	QUE	eP	11	05	50 ±
		eS		07	33.9
26	QUE	eP	16	37	34 ±
26	LAH	eP	17	10	18
	WRS	eP			30.1
	QUE	eP			46.1
		eS		21	13.1
26	QUE	eP	19	25	41.6
26	QUE	eP	20	46	58.1
26	WRS	iP	21	13	02.3d
	MLA	eP			03.0
	LAH	eP			24
	QUE	eP		14	14 ±
		eS		15	38.9
26	QUE	eP	23	49	27.7
		eX			57.8
27	QUE	eP	00	20	45.3
27	CHT	eP	01	19	25
	WRS	eP		20	20.4
	QUE	eP			56.1

August, 1969

27	QUE	eP	01	39	02.9
27	CHT	eP	03	35	16
	LAH	eP		36	03.0
	WRS	eP			05.4c
	QUE	eP			42.2
27	QUE	eP	03	43	04.1
		eX			14.8
27	QUE	eP	06	48	01.9
27	CHT	eP	13	29	02
	KAR	eP		31	23.8
	MLA	eP			28.0
	WRS	iP			45.0d
		eS		38	31.7
	QUE	eP		31	46.4
		eS		38	38.0
27	LAH	eP	19	33	14
	WRS	eP			22.8
	QUE	eP			56.3
		eS		42	42.7
	KAR	eP		34	06.8
27	QUE	eP	20	26	52 ±
		e(S)		28	46.3
27	MLA	eP	21	07	32.0
		eS		08	19.7
	QUE	eP			13.5
		eS		09	35.2
27	LAH	eP	22	36	08
	WRS	iP			16.4c
	MLA	eP			44.0
	QUE	eP		37	23.7
27	WRS	iP	23	53	36.8c
	MLA	eP		54	06.5
	LAH	eP			26
	QUE	eP			46.7
28	WRS	iP	03	59	55.6d
	MLA	iP	04	00	07.1c
	LAH	eP			27
	QUE	eP		01	05.3
		eS		03	08.0
	KAR	eP		22	05.1
28	WRS	eP	04	21	08.7
	MLA	eP			33.7
	QUE	eP		22	05.5
		eS		23	23.1
28	QUE	eP	04	54	53.3
28	QUE	eP	11	26	56.6
28	WRS	eP	14	13	09.4
	QUE	eP			15.1

August, 1969

28	QUE	eP	17	08	58.3
28	WRS	eP	21	45	14.2
	QUE	eP			51.3
		eS		54	28.0
29	MLA	eP	00	38	39.8
		eS			41.8
	WRS	eP		39	12.9
	QUE	eP		40	07 ±
		eS		41	24.6
29	QUE	eP	03	19	37.1c
29	LAH	eP	10	07	17
	MLA	eP			24.7
		iS		10	56.2
	WRS	iP		07	45.6d
		eS		11	44.0
	QUE	iP		08	18.2d
		eS		12	49.6
	KAR	eP		08	19.2
29	QUE	eP	12	26	20.7
29	MLA	eP	16	53	13.1
	WRS	eP			26.1
	QUE	eP		54	07 ±
		eS		55	47.8
30	QUE	eP	01	46	03.0
30	QUE	eP	07	03	04.2
30	MLA	eP	07	21	28.0
	LAH	eP			31
	WRS	eP			31.4
		eS		29	34.4
	QUE	eP		22	09.1
		eS		30	36.0
	KAR	eP		22	29.6
20	LAH	eP	07	51	35
	WRS	eP			37.0
	QUE	eP		52	13.3
30	LAH	eP	08	04	13
	WRS	eP			29.1
	QUE	eP			52.6
	KAR	eP		05	12.1
30	LAH	eP	08	37	57
	WRS	eP			59.3
	QUE	eP		38	36.1
	KAR	eP			56.1
30	MLA	eP	10	54	30.0
		eS			46.0
	QUE	eP		56	25.6
		eS		57	10.0
30	QUE	eP	13	04	17.1

International Seismological Centre

August, 1969

30	WRS	eP	16	54	01.2
		eS		55	09.0
	MLA	eP		54	35.2
		eS		55	17.7
	QUE	eP			20 ±
		eS		56	37.1
30	QUE	eP	18	51	22.1
		eX			33.4
30	QUE	eP	19	11	12 ±
	LAH	eP			54
30	QUE	eP	19	23	09.9
		eS		24	33.1
	MLA	eP		23	12.5
30	KAR	eP	23	01	21 ±
	QUE	eP			31.1

August, 1969

31	QUE	eP	00	07	42.2
31	QUE	eP	04	18	13.7
31	QUE	eP	05	42	37.1
31	QUE	eP	06	40	12.2
31	CHT	eP	13	11	04
		eS		15	46
	QUE	eP		13	45.2
	WRS	eP			48 ±
		eS		20	36.8
31	QUE	eP	20	20	37.4
31	QUE	eP	21	06	30.7
31	QUE	eP	22	27	26.5

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for Director,
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Cable: Geophysics

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/ 1290 Quetta, the 6 October, 1969

QUE-Quetta, LAH, Lahore, CHT, Chittagong, WRS-Warsak, KAR-Karachi
MLA-Mangla, NIL-Nilore

Provisional Readings at Seismological Stations from 9th to 15th August, 1969

Continuation

August, 1969

9	QUE	eP	13	45	35.8c
		eS		49	44.5
	NIL	eP		46	16.0
	WRS	eP			16.7
9	NIL	eP	21	41	22
		eS		42	28
	WRS	eP		41	23
	QUE	eP		42	06.5
9	WRS	eP	23	10	08.8
	NIL	eP			30.0
	QUE	eP			59.5
10	NIL	eP	04	17	17.0
	QUE	iP		18	02.1d
10	NIL	eP	05	06	57.0
	WRS	eP		07	13.5
	QUE	eP			36.3
11	NIL	eP	21	36	24.0
	LAH	iP			28.0 c
	WRS	iP			30.6 c
	CHT	eP			35.0
	QUE	iP		37	06.5 c
	MLA	eP			19.6
12	LAH	eP	02	31	36.0
	WRS	eP			54.9
	QUE	eP		32	14.1
12	QUE	eP	02	39	03.0
12	NIL	eP	02	46	40.0
	WRS	eP			43.7
	QUE	eP		47	21.7

August, 1969

12	NIL	eP	03	43	25.0
	WRS	eP			30.7
	QUE	eP		44	05.5
12	NIL	eP	05	03	23.0
	LAH	eP			28.0
	QUE	iP		04	06.5d
12	CHT	eP	05	12	28.0
	NIL	eP		13	16.0
	LAH	eP			18.0
	WRS	iP			22.3c
	QUE	eP			59.5
	KAR	eP		14	18.9
		eS		23	13.0
12	CHT	eP	06	02	33.0
	NIL	eP		03	19.0
	LAH	eP			22.0
	QUE	iP		04	01.8c
	KAR	eP			22.2
		eS		13	19.0
12	NIL	eP	07	13	33.0
	QUE	eP		14	10.5
12	NIL	eP	07	20	30.0
	LAH	eP			33.0
	QUE	iP		21	13.1d
12	NIL	eP	07	47	58.0
	QUE	iP		48	41.4d
12	NIL	eP	09	15	21.0
	QUE	eP		16	12.5

August, 1969

12	NIL	eP	09	35	26.0
	LAH	eP			29.0
	WRS	eP			33.6c
	QUE	eP		36	09.1
12	NIL	eP	09	43	29.0
	IAH	eP			31.0
	WRS	iP			34.9d
	QUE	iP		44	12.1d
12	CHT	eP	11	30	27.0
	LAH	eP		31	17.0
	WRS	iP			20.6c
	QUE	eP			55.5
	KAR	eP		32	16.4
		eS		41	12.0
12	CHT	eP	12	28	49.0
	LAH	eP		31	05.0
	NIL	eP			17.0
	WRS	eP			27.4
	KAR	eP			36.9
		eS		40	12.0
	QUE	eP		31	42.7
12	NIL	eP	13	05	34.0
	QUE	iP		06	02.0
12	NIL	eP	13	27	57
	LAH	eP		28	00.0
	WRS	iP			03.6c
		eS		36	05.0
	QUE	iP		28	40.3c
	KAR	eP		29	00.8
12	NIL	eP	15	22	09.0
	QUE	eP			52.7
		eS		26	00.0
12	NIL	eP	15	37	51.0
	QUE	iP		38	34.3c
12	QUE	eP	16	00	29.4
12	NIL	eP	16	53	27.0
	QUE	eP		54	09.8
12	NIL	eP	17	18	27.0
	QUE	eP		19	10.8
12	NIL	eP	21	25	55.0
	LAH	eP			58.0
	WRS	eP		26	00.6
	QUE	eP			38.3
12	NIL	eP	22	06	21.0
	QUE	eP		07	04.7

August, 1969

12	NIL	eP	23	15	45.0
	LAH	eP			48.0
	WRS	eP			48 ±
	QUE	eP		16	28.7c
12	NIL	eP	23	25	38.0
	QUE	eP		26	20.8
12	QUE	eP	23	38	29.8
12	QUE	eP	23	57	41.3c
	KAR	eP		58	19 ±
	WRS	eP			23 ±
	LAH	eP			31.0
	NIL	eP			31.0
13	QUE	eP	00	02	17.7
13	NIL	eP	02	16	58.0
	WRS	eP		17	06.0
	QUE	eP			41.5
13	QUE	eP	03	24	43.8c
		eS		33	14.5
13	NIL	eP	08	41	19.0
		eS		49	12.0
	LAH	eP		41	23.0
	WRS	iP			25.0c
		eS		49	24 ±
	QUE	iP		42	01.5c
		eS		50	32.5
	KAR	eP		42	20.8
13	QUE	eP	10	21	18.1c
		eS			44.5
	WRS	eP		22	26.2
13	QUE	eP	16	43	06.2
		eS		45	00.0
	NIL	eP		44	24.0
13	MLA	eP	23	06	55.4
	NIL	eP			56.0
	LAH	eP			59.0
	WRS	iP		07	01.9c
		eS		15	02.0
	QUE	eP		07	39.8c
		eS		15	52.5
	KAR	eP		08	02.8
		eS		16	51.0
14	LAH	eP	00	39	20.0
	NIL	eP			28.0
	WRS	eP			38.0
	QUE	eP			56.5
14	NIL	eP	03	17	17.0
	QUE	eP		18	12.3

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August, 1969

14	QUE	eP	04	58	23.8
14	NIL	eP	09	09	37.0
	QUE	eP		10	20.1
14	NIL	eP	11	10	28.0
	WRS	eP			36.4
	QUE	eP			50.9
14	QUE	eP	12	01	42.3
14	CHT	eP	14	28	04.0
	NIL	eP			49.0
	MLA	eP			49.3
	LAH	eP			51.0c
	WRS	iP			55.0c
		eS		36	59.4
	QUE	iP		29	31.5c
		eS		38	04.0
	KAR	eP		29	52.9
		eS		38	42.0
14	NIL	eP	15	48	06.0
	QUE	eP			46.2
14	LAH	eP	22	21	16.0
	NIL	eP		22	13.0
	QUE	eP			56.0
14	NIL	eP	23	58	59.0
	QUE	eP		59	39.0
15	NIL	eP	03	49	43.0
	WRS	eP			51.9
	QUE	eP		50	09.3
15	NIL	iP	04	41	50.0
	MLA	eP			50.1
	LAH	eP			52.0
	WRS	iP			56.1c
	QUE	eP		42	33.3c
		eS		51	18.1

August, 1969

15	LAH	eP	08	51	39.0
	MLA	eP			42.4
		eS		59	42.1
	NIL	eP		51	44.0
		eS		59	44.0
	WRS	iP		51	52.9c
		eS	09	00	01.3
	QUE	iP	08	52	29.5
		eS	09	01	09.5
15	NIL	eP	09	57	07.0
	WRS	eP			49.5
	QUE	eP			51.5
15	NIL	eP	10	12	08.0
	WRS	eP			12.9
	QUE	eP			52.5
15	KAR	eP	11	31	35.5
		eS		32	02.0
	QUE	iP			35.4
		eS		33	52.9
15	QUE	eP	15	17	15.1
	WRS	eP			34.6

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GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

No.SS-3(2)/69/ 1365 Quetta, the 9 October, 1969

QUE-Quetta, LAH, Lahore, CHT, Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla

NIL-NILORE

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd August'69

Continuation

August, 1969

16	NIL	eP	03	37	51
	QUE	eP		38	34.4
16	NIL	eP	06	34	36
	QUE	eP		35	18.3
16	WRS	eP	07	24	37 ±
		eS		25	51.4
	NIL	eP		24	41
		eS		25	49
	MLA	eP		24	45.8
		eS		25	58.5
	QUE	eP		25	53.1
		eS		28	00.2

H - 07 : 23 : 16
39.3°N, 74.7°E
Tadzhik S.S.R.
Depth about 160 Km

16	NIL	eP	08	57	36
	QUE	eP		58	18.6
16	NIL	eP	09	13	02
	QUE	eP			45.4
16	NIL	eP	10	12	41
	QUE	eP		13	23.4
		eS			46.5
16	NIL	eP	12	53	55
	QUE	eP		54	37.7

August, 1969

16	NIL	eP	15	25	17
		eS		33	10
	LZ				
	LAH	eP		25	20
	WRS	eP			22.8
		eS		33	21.4
	QUE	iP		25	59.5c
		iS		34	30.0
16	WRS	eP	17	23	31.4
	LAH	eP			32
	QUE	eP		24	12.0
16	QUE	eP	18	47	13.6
	NIL	eP			20
	LAH	eP			25
16	WRS	eP	23	11	04.6
	NIL	eP			14
	LAH	eP			42
	QUE	eP		12	07 ±
		eS		14	20.9
17	QUE	eP	01	14	40.1
	NIL	eP		15	16
17	QUE	eP	07	39	40.9
	WRS	eP			53.3
	NIL	eP			57
17	NIL	eP	08	37	12
	QUE	eP			40.8

August, 1969

17	NIL	eP	10	23	12
	QUE	eP			33 ±
17	NIL	eP	11	46	32
	WRS	eP			39.3
	QUE	eP		47	03 ±
17	WRS	eP	12	03	56.4
		eS		11	31.9
	NIL	eP		04	01
	LAH	eP			04
	QUE	eP			45.4
		eS		12	43.2
17	NIL	eP	12	41	42
	QUE	eP		42	09.1
17	NIL	eP	15	27	35
	QUE	eP		28	04 ±
17	NIL	eP	18	18	55
	QUE	eP		19	25 ±
17	WRS	ePKP	20	32	01.8
	QUE	ePKP			08.0
		ePP		33	52
18	QUE	eP	01	23	55 ±
	WRS	eP		24	24 ±
18	NIL	eP	05	35	17
	QUE	eP		36	00.5
18	NIL	eP	10	59	30
	QUE	eP	11	00	13 ±
18	NIL	eP	11	53	20
		eS	12	01	17
	WRS	eP	11	53	23.4
	QUE	eP		54	02.5
		eS	12	02	40.8
18	NIL	eP	14	28	31
	QUE	iP			41.3d
18	QUE	iP	14	58	07.4d
		eS			15.6
	KAR	eP		59	14.3
		eS	15	00	07
	WRS	iP	14	59	19.9c
	NIL	eP			30
	MLA	eP			31.5
		eS	15	00	40.9
	LAH	eP	14	59	39

H - 14 : 58 : 00
29.9°N, 67.6°E
Zarghoon Hills
Mildly felt at Quetta

August, 1969

18	LAH	eP	17	23	11
	NIL	eP			27
		eS		29	51
	WRS	iP		23	38.4d
		eS		30	11.0
	QUE	iP		23	40.7d
19	NIL	eP	01	47	58
		eS		55	04
	WRS	eP		48	09.4
	QUE	eP			12 ±
		eS		55	27.8
19	CHT	eP	08	58	55
		eS	09	06	11
	NIL	eP	08	59	42
	MLA	eP			42.8
	LAH	eP			46
	WRS	eP			48.0
		eS	09	07	50.0
	QUE	eP		00	25.2
		epP			33.1
		ePP		03	05.9
		eS		08	52.0
		eSS		13	10.9
	KAR	eP		00	44.8
		eS		09	39
19	NIL	eP	09	40	01
	QUE	eP			48 ±
19	NIL	eP	12	16	49
	QUE	eP		17	31.5
19	QUE	eP	16	00	16.7
	NIL	eP			32
19	QUE	eP	17	45	46.8
	NIL	eP			47
	WRS	eP			51.4
19	QUE	eP	23	45	30 ±
	NIL	eP		46	18
20	NIL	eP	01	37	00
20	NIL	eP	06	40	07
	QUE	eP			22.8
		eS		41	53.5
20	NIL	eP	08	00	06
		eS		08	08
	LAH	eP		00	11
	WRS	eP			12.1
		eS		08	18.4
	QUE	eP		00	42.6
		eS		09	22.0
	KAR	eP	08	01	08.2

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20	NIL	eP	11	33	32
	QUE	eP		34	11.3
20	NIL	eP	11	52	27
		eS		53	16
	MLA	eP		52	30.4
		eS		53	21.5
	WRS	iP		52	32.0d
		iS		53	25.9
	QUE	eP			43.5
		eS		55	38.8

H - 11 : 51 : 23
37.2N, 75.4E
HINDUKUSH REGION
Depth about 223 km

20	NIL	eP	16	43	23
	QUE	eP		44	18 ±
20	LAH	eP	17	34	25
	NIL	eP			32
		eS		44	44
	WRS	eP		34	37.8
	QUE	eP			56.1
		eS		45	26.8
20	WRS	eP	18	03	59.3
	NIL	eP		04	15
		eS			53
	MLA	eP			22.5
		eS		05	07
	QUE	eP		04	58.8
		eS		05	13.1

H - 18 : 03 : 24
34.9°N, 70.1°E
HINDUKUSH REGION
Depth about 223 km.

20	NIL	eP	18	33	15
	QUE	eP		34	59.9
20	WRS	eP	20	27	22.5
		eS			50.5
	NIL	eP			40
		eS		28	17
	MLA	eP		27	47.0
	QUE	eP		28	22.9
		eS		29	37.5

H - 20 : 27 : 00
34.6°N, 70.7°E
HINDUKUSH REGION
Depth about 160km.

August, 1969

21	NIL	eP	00	38	24
	WRS	eP			30.8
	QUE	eP		39	07.3
21	NIL	eP	02	53	47
	QUE	eP		54	30.2
		epP			40.6
21	NIL	eP	03	41	55
	WRS	eP		42	02.5
	QUE	eP			39.1
		epP			51.9
21	NIL	eP	04	57	13
	QUE	eP			54 ±
		epP		58	07.1
21	NIL	eP	07	32	32
	QUE	eP		33	06
21	NIL	eP	08	01	13
	QUE	eP			56.3
21	NIL	eP	13	33	49
	LAH	eP			52
	WRS	eP			55.5
	QUE	eP		34	30.7
		eS		43	04.7
22	NIL	eP	04	50	13
	WRS	eP			19.4
	QUE	iP			56.3d
22	NIL	eP	05	40	03±
	QUE	eP			40 ±
22	NIL	eP	07	22	04
	QUE	eP			53.3
22	NIL	eP	12	06	00
	QUE	eP		07	11.5
22	NIL	eP	15	57	48
	QUE	eP		58	12 ±
22	NIL	eP	17	12	28
	QUE	eP			40.8
23	NIL	eP	00	29	32
	QUE	eP		30	04.8
23	NIL	eP	03	03	58
	WRS	eP		04	05.7
	QUE	eP			39 ±
23	NIL	eP	03	59	07
	QUE	eP	04	00	03.7

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August, 1969

23	CHT	eP	06	48	00	
	NIL	eP		49	02	
	WRS	eP			09.0	
	QUE	eP			45.2	
23	NIL	eP	06	57	38	
	QUE	eP		58	21	±
23	NIL	eP	09	35	01	
	QUE	eP			55	±
23	NIL	eP	15	37	26	
	QUE	eP		38	09.1	
23	QUE	eP	17	31	17.8	
		eS		32	07.7	
	NII	eP		31	27	

August, 1969

23	QUE	eP	19	18	11.7	
		eS		19	58.8	
	WRS	eP		18	48.3	
23	NIL	eP	23	10	54	
	QUE	eP		11	06	±
		eS		12	37.0	

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P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/1613

Quetta, the 23 October, 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd Sept.1969

Continuation:

16	NIL	eP	01	27	12
	LAH	eP			15
	WRS	eP			17.9
	QUE	eP			54.2c
16	QUE	eP	02	25	40.1
16	QUE	eP	08	09	40.9
16	QUE	eP	14	44	36.8
16	QUE	eP	14	59	26.9
16	NIL	eP	21	21	03
	WRS	eP			04.2
		eS		22	15.2
	MLA	eP		21	09.2
		iS		22	23.7
	QUE	eP			12.2
		eS		24	20.2

H 21 19 30
39.9N, 74.1E
Tadzhik SSR
Depth about 160 km

17	NIL	eP	00	11	34
	QUE	eP		12	15.2
17	QUE	iP	02	24	37.8c
		eS			51.4
	NIL	eP		25	39
17	QUE	eP	03	45	57.5
17	QUE	eP	11	22	41.2
		eS		24	00.0
	NIL	eP		23	13

September, 1969

17	CHT	eP	18	47	53
	MLA	eP		49	30.9
	NIL	eP			32
	QUE	eP		50	17.8c
		eS		58	20.0
	KAR	eP		50	28.9
17	NIL	eP	18	59	53
	QUE	eP	19	00	37.7
17	QUE	eP	23	33	08.5
	NIL	eP			42
18	NIL	eP	12	02	19
	QUE	eP		03	12.0
18	NIL	eP	12	08	40
	QUE	eP		09	05.5d
		eS		18	39.6
18	NIL	eP	20	41	09
	MLA	eP			16.8
		eS		42	03.8
	QUE	eP		41	29.1
19	NIL	eP	00	56	36
		eS		57	18
	MLA	eP		56	44.9
		eS		57	33.5
	QUE	iP			21.0c
		eS		58	39.9

H 00 55 40.1
37.2N, 70.2E
Hindukush Region
depth about 160 km

September, 1969

19	LAH	eP	01	38	47
	MLA	eP		39	01.5
	NIL	eP			05
		eS		46	42
	KAR	eP		39	29.1c
		eS		47	31
	QUE	eP		39	35.1
		eS		48	39.4
19	QUE	eP	05	19	36.7
	NIL	eP			53
19	QUE	eP	14	49	38.5
19	NIL	eP	18	32	49
		eS		33	30
	MLA	eP		32	57.5
		eS		33	44.6
	QUE	eP			42.3
		eS		35	06.1

H 18 31 55.3
36.3N, 70.3E
Hindukush Region
depth about 160 km

19	NIL	eP	19	37	39
		eS		38	49
	MLA	eP		37	45.1
		eS		38	59.0
	QUE	eP			48.4
		eS		40	53.5

H 19 36 08.2
39.9N, 71.5E
Tadzhik SSR
depth about 96 km

19	NIL	eP	20	50	26
	QUE	eP		51	04.0
19	NIL	eP	21	01	32
	QUE	eP		02	02d
20	QUE	eP	04	49	11.6d
	KAR	eP			58 ±
	NIL	eP		50	08
	MLA	eP			10.2
	LAH	eP			19
20	NIL	eP	05	20	02
		eS		29	16
	QUE	eP		20	05.2
		eS		29	07.2
20	NIL	eP	09	08	21
	WRS	eP			29.0
	QUE	ip			46.4c

September, 1969

International Seismological Centre

20	NIL	eP	14	09	21
	MLA	eP			30.4
	LAH	eP			44.4
	QUE	eP			59.0
20	LAH	ePKP	15	46	12
	NIL	ePKP			14
	QUE	ePKP			20.2
		ePP		49	37.6
	KAR	ePKP		46	32.4
20	NIL	eP	20	05	24
		eS		06	09
	QUE	eS		07	58.2
20	NIL	eP	22	44	09
	QUE	eP		45	41.8
21	QUE	eP	02	20	03.1
	NIL	eP			18
	MLA	eP			19.4
21	NIL	eP	07	30	12
	QUE	eP			24.2c
21	NIL	eP	19	10	56
	MLA	eP		11	05.8
	QUE	eP			23.1
21	QUE	eP	21	07	51 ±
21	NIL	eP	21	36	32
	QUE	eP			42.9
21	NIL	eP	23	16	36
	QUE	eP		17	01.0
22	QUE	eP	01	47	21.2
	NIL	eP			22
22	MLA	eP	01	53	19.5
	QUE	eP			36.1
		eS		59	31.2
22	NIL	eP	02	45	29
	QUE	eP		46	10.3
22	NIL	eP	03	59	46
	QUE	eP	04	00	00.1
		eS		05	55.2
22	QUE	eP	05	33	16.2
	NIL	eP		35	45
22	QUE	eP	13	24	41.3
		eS		26	50.5

September, 1969

22	QUE	eP	14	01	17 ±
22	NIL	eP	16	18	21
	MLA	eP			22.0
	QUE	eP		19	41.8
		eS		23	27.1
23	QUE	eP	01	42	14.0
		eX		47	50.5
23	NIL	eP	04	11	21
	QUE	eP			41.2
23	QUE	e(P)	10	50	30.3
		eS		52	54.5
	NIL	eP		50	55
		eS		51	17

September, 1969

23	QUE	eP	12	32	33.1
		eS		33	04.0
	NIL	eP			03
	KAR	eP			24.4
23	QUE	eP	14	56	04.0
23	NIL	eP	16	58	55
		eS		59	38
	QUE	eP			36.1
		eS	17	00	52.4
23	NIL	eP	19	34	08
	QUE	eP			50.3
23	QUE	eP	22	56	44 ±

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

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31 OCT 1969

Phone: 5103 Cable: Geophysics

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69//646 Quetta, the 24 October, 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla, NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 30th September' 69

Continuation

September, 1969

24	NIL	eP	00	37	06
	QUE	eP			37.8c
24	NIL	eP	01	09	33
	QUE	eP		10	04.0d
24	WRS	eP	04	10	15.9
	NIL	eP			20
	QUE	eP			21.2
		eS		19	43.2
24	QUE	eP	04	32	13.5
	NIL				17
24	WRS	eP	04	43	12.1
		eS			54.6
	MLA	eP-			27.6
		eS		44	19.0
	NIL	eP		43	19
	QUE	iP		44	18.4d
		eS		45	53.6

H 04 42 14.9
37.7N, 72.2E
Tadzhik S.S.R.
depth about 160 km

24	QUE	eP	05	46	14 ±
	NIL	eP			18
	WRS	eP			24.7
24	QUE	eP	18	17	10.0
	WRS	eP			16.8
25	QUE	eP	01	57	43.0
		eS		59	18.2
25	QUE	eP	04	20	48.4
	NIL	eP		21	15

September, 1969

25	QUE	eP	06	14	02.6
	NIL	eP		16	45
25	QUE	eP	15	28	19.3
	NIL	eP		29	02
25	QUE	eP	19	44	38.8
		eS		47	11.9
25	NIL	eP	21	45	21
	QUE	eP			51.7c
25	NIL	eP	23	15	53
	WRS	eP		16	07
	QUE	eP		17	02.7
26	NIL	eP	01	21	43
	QUE	eP		22	14.1c
26	NIL	eP	01	52	53
	QUE	eP		53	24.2
26	QUE	eP	05	00	22.9
		eS		05	00.0
	WRS	eP		01	06.3
	NIL	eP			16
26	MLA	eP-	06	51	02.9
		eS			22.4
	WRS	eP			03.0
		eS			27.0
	QUE	eP		52	14 ±
26	QUE	eP	07	05	20.4
	WRS	eP			23.4
	NIL	eP			36 c
26	NIL	eP	08	35	57
	QUE	eP		36	23.7

September, 1969

26	NIL	eP	14	30	27
	QUE	eP			51.4
26	NIL	eP	21	01	09
	QUE	eP			39.2c
27	NIL	eP	04	11	57c
	WRS	eP		12	04.0
	QUE	eP			40.3c
27	QUE	eP	09	23	13.2
		eX		25	36.3
	WRS	eP		23	24 ±
27	WRS	eP	15	37	39.2
	NIL	eP		38	08
		eS			40
	MLA	eP	—		16.2
		eS			54.4
	QUE	eP			47.2
		eS		39	51.5

H 15 37 25
39.8N, 70.4E
Tadzhik S.S.R.
depth about 160 km

27	QUE	eP	15	58	57.9d
		eS		59	40.2 ±
	WRS	eP			27 ±
	NIL	eP			34
27	NIL	eP	16	57	48
	WRS	eP			48.9
	MLA	eP	—		54.1
		eS		58	54.1
	QUE	eP			59.2
		eS	17	01	02.8
	KAR	eP	16	59	59.6

H 16 56 20.1
39.4N, 74.9E
Tadzhik S.S.R.
depth about 160 km

27	NIL	eP	18	53	33 d
	WRS	eP			42.0
	QUE	eP		54	09.4
27	KAR	eP	19	22	59.8
	NIL	eP		23	10 c
	WRS	eP			20.5
	QUE	eP			23.1
27	QUE	eP	20	49	43.9
28	NIL	eP	07	30	12 c
	QUE	eP			50.2c

September, 1969

28	NIL	eP	10	35	48
	QUE	eP			59.2
28	NIL	eP	14	10	28
	QUE	eP			59.3
28	WRS	eP	16	27	48.9
		eS		28	26.9
	NIL	iP		27	58 d
	MLA	eP	—	28	06.0
		eS			54.9
	QUE	eP			54.9
		eS		30	15.2

H 16 27 05.1
37.7N, 70.6E
Hindukush Region
depth about 160 km

28	CHT	eP	18	06	11
	NIL	eP		08	37
	WRS	eP			48.8
	KAR	eP			57.7
	QUE	eP		09	05 ±
28	QUE	eP	18	42	21.2
	NIL	eP		43	42
28	WRS	eP	18	54	50.9
	NIL	eP			54
	MLA	eP	—	55	02.1
	QUE	eP		55	59.2
28	NIL	eP	20	01	00 c
	QUE	eP			34.2 c
28	QUE	eP	23	01	03.2
		eS		06	38.0
	KAR	eP		01	22.6
	WRS	eP			25.4
	NIL	eP			39
	CHT	eP		04	08
		eS		12	13
29	QUE	eP	00	20	14 ±
	NIL	eP			20
	WRS	eP			25 ±
29	WRS	eP	07	04	05.8
	NIL	eP			17 d
	MLA	eP	→		24.5
		eS		05	16.0
	QUE	eP			09.5
		eS		06	37.5

H 07 03 16.5
38.3N, 70.2E
Tadzhik S.S.R,
depth about 160 km

International Seismological Centre

September, 1969

29	NIL	eP	16	14	49d
	QUE	eP		15	14.2d
29	CHT	iP	16	28	17c
	LAH	eP		30	25
	NIL	eP			36c
	KAR	eP			44.6
	WRS	eP			47.6
	QUE	eP			57.4c
		ePP		33	32.5
		eS		39	53.3
29	CHT	eP	18	07	37
		eS		14	50
	NIL	eP		08	26c
	LAH	eP			29
	WRS	eP			32.6
	QUE	eP		09	08.6c
		eS		17	41.8
	KAR	eP		09	29 ±
29	CHT	eP	19	58	45
		eS		59	32
	LAH	eP	20	02	13
	NIL	eP			28
	WRS	eP			43.9
	QUE	eP		03	11.2

September, 1969

29	KAR	eP	20	15	54
	QUE	eP			25.9d
		eS		25	20.1
	LAH	eP		15	54
	WRS	eP			54.3
	NIL	eP			58.d
		eS		26	24
	CHT	eP		16	25
30	QUE	iP	11	25	05.8d
30	NIL	eP	15	01	56 c
	WRS	eP		02	06.4
	QUE	eP			07.8
30	NIL	eP	17	16	55
	QUE	eP		17	26.8
30	CHT	ePKP	18	08	46
	NIL	ePKP		10	31
	WRS	ePKP			34.5
	QUE	ePKP			40.3
		ePP		12	40.3
		ePKS		14	04
		ePPS		23	52.4
		eSS		29	06.1
30	CHT	eP	23	14	35
		eS		15	23
	NIL	eP		18	04
	WRS	eP			20.4
	QUE	eP			51.9

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

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GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA
P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/1459-A. Quetta, the 15.10 October, 1969

QUE-Quetta, LAH-Lahore, CHT,Chittagong, WRS-WARSAK, KAR-KARACHI, MLA-MANGLA

NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation.

Provisional Readings at Seismological Stations from 1st to 8th Sept.1969

Continuation

September,1969

1	QUE	eP	08	43	44.0
		iS		49	02.0
1	QUE	eP	10	00	23.0
1	QUE	eP	18	58	02.3
1	QUE	eP	23	19	43.7
		eS		22	42.2
	LAH	eP		20	55
2	QUE	eP	04	06	09.6
	LAH	eP			30
	CHT	eP			51
2	QUE	eP	13	32	03.5
		eS		33	44.0
	KAR	eP		32	28.1
2	QUE	iP	15	25	29.2c
		eS		26	47.8
2	QUE	eP	16	55	04.9
	LAH	eP			21
2	QUE	eP	21	42	09.4
3	QUE	eP	01	42	24.4c
3	QUE	eP	01	54	56.£ d
3	QUE	eP	05	34	49.8d
3	CHT	eP	16	28	31
		eS		35	03
	QUE	eP		30	39.2
3	QUE	eP	22	18	40.7
3	QUE	eP	23	41	04.3
		eS		43	29.8

September,1969

4	LAH	eP	02	58	43
		eS		59	43.2
	QUE	eP			01.2d
		eS	03	00	23.2
	KAR	eP			03.9
		eS		02	08

H 02 : 57 : 14
36.7N, 70.5E
HINDUKUSH REGION
Depth about 33 km.

4	CHT	eP	03	18	22
		eS		26	06
	LAH	eP		19	04
	QUE	eP			41.8
		eS		28	32.6
4	QUE	eP	05	49	34.3
4	QUE	eP	16	39	57.4c
4	QUE	eP	17	24	00.1
		eS		28	28.0
4	QUE	eP	18	19	27.2d
4	QUE	eP	19	32	06.2
4	LAH	eP	21	22	24
	QUE	eP		23	04.3c
		eS		31	32.8
	KAR	eP		23	25.4
4	QUE	eP	23	57	09.2

September, 1969

5	QUE	eP	00	18	02.1
		eS		20	43.6
5	QUE	eP	09	15	20.2d
		eS		16	58.6
5	QUE	eP	11	51	01.9c
		eS		58	04.0
	KAR	eP		51	06.4
5	QUE	eP	13	40	36.8
5	QUE	eP	13	55	07.5
		iS		56	30.2
5	QUE	eP	17	59	18.2
5	QUE	eP	21	15	22.2c
		eS		17	18.0
5	QUE	eP	22	15	27.3d
6	QUE	eP	01	16	17.6c
6	LAH	eP	07	53	18
	QUE	eP			57.6c
		eS	08	02	07.8
6	QUE	eP	11	52	18.0c
6	QUE	eP	14	41	14.1c
		eS		49	48.8
	KAR	eP		41	32.7
	LAH	eP			44

September, 1969

6	CHT	eP	15	01	26
	QUE	eP		03	20.0
6	QUE	eP	16	27	31 ±
6	LAH	eP	17	21	01
	QUE	eP			28.5
6	QUE	eP	20	37	08.7
7	QUE	eP	00	33	02.8c
7	QUE	eP	05	10	59.8c
7	QUE	eP	05		
7	QUE	eP	08	53	25.9
7	QUE	eP	18	54	10.1d
8	LAH	eP	12	57	59
	QUE	eP		58	28.2
		eS	13	09	01.8
8	QUE	eP	20	02	51.3
8	QUE	iP	21	02	38.1d
		eS		04	00.1

	Mu	Sec
PZ	0.07	0.8

~~Δ = 8.8°~~

Δ = 9.5°

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services.

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International Seismological Centre

Phone: 5103 Cable: Geophysics

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/1490 Quetta, the 15 October, 1969

QUE-Quetta, LAH, Lahore, CHT-CHITTAGONG, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 9th to 15th September, '69

Additional

September, 1969

1	WRS	eP	23	20	28.1
2	NIL	eP	04	05	37
	WRS	eP		06	22.8
	MLA	eP			28.9
2	WRS	eP	13	33	01.9
	NIL	eP			20
2	NIL	eP	15	24	44
		eS		25	25
2	NIL	eP	16	55	16
	MLA	eP			17.7
3	NIL	eP	01	41	55
	WRS	eP		42	06.0
3	NIL	eP	01	54	26
3	WRS	eP	16	30	06.7
3	WRS	eP	23	41	40.9
	NIL	eP		42	01
4	WRS	iP	02	58	04.8d
	NIL	eP			17
	MLA	iP			24.6d
		iS		59	13.2
	LAH	eP		58	43
		eS		59	32
	QUE	eP			01.2
		eS	03	00	23.2
	KAR	eP			03.9
		eS		02	12

H 02 57 20.2
36.5°N, 70.8°E
HINDUKUSH REGION
Depth about 223 km.

September, 1969

4	NIL	eP	03	19	00
	WRS				05.4
4	NIL	eP	05	48	51
4	NIL	eP	16	39	35
4	NIL	eP	18	18	49
4	WRS	eP	19	32	27.7
	NIL	eP			41
4	NIL	eP	21	22	21
	WRS	iP			26.4c
		eS		30	24.0
4	NIL	eP	23	56	26
5	QUE	eP	00	18	02.1
		eS		20	43.6
	WRS	eP		18	38.4
	NIL	eP			57
5	WRS	eP	09	14	09.6
		eS			52.6
	NIL	eP			14
	MLA	eP			22.5
	QUE	eP		15	20.2
		eS		16	58.6

H 00 14 37.1
33.5N, 49.0E
Central Iran
Depth about 160 km

H 09 13 12.7
37.5N, 72.9E
HINDUKUSH REGION
Depth about 160 km

September, 1969

5	NIL	eP	11	50	19
	WRS	eP			30.9
5	NIL	eP	13	39	32
5	NIL	eP	13	54	16
5	WRS	eP	21	14	15.2
	MLA	eP			25.8
		eS		15	34.1
	QUE	eP			22.2c
		eS		17	18.0

H 21 12 54
39.3N, 73.6E
HINDUKUSH REGION
Depth about 223 km

5	NIL	eP	22	14	42
6	NIL	eP	01	15	49
6	NIL	eP	07	53	15
	WRS	eP			20.7
6	NIL	eP	11	51	37
6	WRS	eP	14	41	23.1
	MIL	eP			33
		eS		50	28
	MLA	eP		41	37.6
6	NIL	eP	15	02	58
	WRS	eP		03	15.0
6	NIL	eP	16	26	49
6	NIL	eP	17	21	06
	WRS	eP			13.1
6	NIL	eP	19	08	22
7	NIL	eP	00	32	17
	WRS	eP			26.2
7	NIL	eP	08	53	03
7	NIL	eP	18	53	27
8	NIL	eP	12	58	05
		eS	13	08	25
8	WRS	eP	21	01	38.0d
	NIL	eP			50
	MLA	eP			57.6

Continuation

September, 1969

9	NIL	eP	05	24	44
		eS		32	04
	LAH	eP		24	47
	QUE	eP		25	28.1
		eS		33	28.2
9	NIL	eP	07	46	26
	QUE	eP		47	02.4
9	QUE	eP	10	40	29.2
		eS		42	54.1
9	NIL	eP	15	43	02
	QUE	eP			05.1
9	QUE	eP	16	56	05 ±
10	NIL	eP	07	56	43
	QUE	eP		57	26.0
10	QUE	eP	12	18	59.9
		eS		23	12.0
	NIL	eP		19	31
	KAR	eP			33.4
11	LAH	eP	03	25	32.0
	NIL	eP			38
	QUE	eP		26	23.1
11	NIL	eP	19	32	58
	QUE	eP		33	27.2
12	QUE	eP	02	46	12 ±
12	NIL	eP	03	33	16
	QUE	eP			28.3c
12	NIL	iP	05	08	57
	MLA	iP		09	05.9
		iS			53.0
	LAH	eP			25.0
		eS		10	26.0
	QUE	iP		09	43.3d
		eS		11	01.3
	KAR	eP		10	46.4c
		eS		12	50

H 05 08 25
36.2N, 70.5E
HINDUKUSH REGION
Depth about 33 km.

International Seismological Centre

12	NIL	eP	07	27	26
	MLA	eP			27.1
	QUE	iP			59.3
12	NIL	eP	07	54	19
	MLA	eP			20.4
	QUE	iP			52.3
12	NIL	iP	08	11	52
	MLA	iP			53.6
	QUE	eP			55.8
12	QUE	iP	08	12	25.6
12	QUE	iP	08	18	17.0
	NIL	eP		19	17
12	MLA	iP	08	21	01.4
	QUE	eP			33.5
12	CHT	eP	09	08	31
		eS		17	57
	NIL	iP		08	42
		eS		18	14
	MLA	eP		08	44.4
	QUE	iP		09	15.9c
		eS		19	13.5
	KAR	eP		09	38.2c
12	NIL	eP	09	41	19
	QUE	eP			52.3
12	NIL	eP	15	11	52
	QUE	iP		12	26.1c
12	KAR	eP	16	05	37.1
	QUE	iP		06	17.0
12	NIL	eP	18	17	28
	QUE	eP			51.4
13	QUE	eP	00	52	28.1
13	QUE	eP	11	12	08.6
	NIL	eP			23
	MLA	iP			25.1c
13	NIL	eP	11	28	39
	QUE	eP		29	22.2c
13	CHT	eP	12	01	09
	NIL	eP			59
	WRS	eP		02	08.3
	QUE	eP			42.2c
		eS		11	12.8
13	QUE	eP	13	33	17

September, 1969

13	NIL	eP	20	09	57
	QUE	eP		10	40.7
13	QUE	eP	20	22	04.0d
		eS		23	51.2
13	NIL	eP	23	13	01
	QUE	eP			35.1d
14	QUE	eP	05	28	30.2
		eS		30	50.1
14	QUE	eP	07	42	15.3
14	NIL	eP	10	11	54
	QUE	eP		12	25.2
14	NIL	eP	11	01	22
	QUE	iP			55.4c
14	NIL	eP	12	58	56
	QUE	eP		59	39.8
14	NIL	eP	14	47	55
	MLA	iP		48	01.6c
		eS		49	15.7
	QUE	iP			05.2c
		eS		51	09.9
	KAR	eP		50	08.6c
		eS		53	00.0
	CHT	eP		51	20
		eS		55	32

H 14 46 23 ±
39.7N, 74.2E
TADZHIK SSR
Depth about 160 km

14	NIL	eP	16	16	59
	MLA	iP		17	04.8
		iS		18	18.3
	QUE	iP			08.9d
		eS		20	11.8
	KAR	eP		19	10.6c
		eS		22	00.0
	CHT	eP		20	25
		eS		24	35

H 16 15 29
39.5N, 73.7E
TADZHIK SSR
Depth about 160 km

14	QUE	eP	16	38	47.1
		eS		40	56.2
14	NIL	eP	23	25	24
		eS		26	05
	QUE	eP		25	44 ±

International Seismological Centre

September, 1969

14	NIL	eP	23	46	48
		eS		47	35
	MLA	eP	—	46	56.5
		eS		47	49.5
	QUE	eP			48.2
		eS		49	28.0

H 23 45 40
37.7N, 72.5E
TADZHIK SSR
Depth about 33 km

15	QUE	eP	01	31	10.0
		eS		33	24.5
15	QUE	eP	07	33	33.5
	NIL	eP			42 ±
15	QUE	eP	13	06	34.2

September, 1969

15	NIL	eP	14	39	44
	QUE	eP		40	24.2
	LAH	eP		44	49
15	NIL	iP	14	56	57
	WRS	eP			59.6d
	LAH	eP		57	03.0
	QUE	iP			33.0
15	WRS	eP	16	36	55.1
	NIL	eP		37	06
	LAH	eP			29.0
	QUE	eP			39.9
15	QUE	eP	17	09	52.9
15	QUE	eP	18	12	31.2
15	CHT	eP	18	56	40
	LAH	eP		57	46
	WRS	eP			47.2
	QUE	eP		58	23.1

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

Phone: 5103

Cable: Geophysics

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/1692

Quetta, the 25 October, 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore
x-Unidentified Phase, c-Compression, d-Dilatation.

Provisional Readings at Seismological Stations from 1st October to 8th Oct.1969

Continuation

October, 1969					
1	QUE	eP	00	16	34.8
1	QUE	eP	05	25	15.5
	WRS	eP			15.8
	NIL	eP			19
	LAH	eP			27
	CHT	eP			51
1	QUE	eP	06	06	55.5
1	QUE	eP	06	17	41.3
	WRS	eP			42.7
	NIL	eP			48
	CHT	eP		18	20.5d
1	QUE	eP	08	47	40 ±
	NIL	eP			50
	WRS	eP			50.8
	CHT	eP		48	22
1	QUE	iP	10	19	58.8c
		iS		20	22.5
	WRS	eP			49.5
	NIL	eP			57

H 10 19 28.2
29.1N, 68.7E
Dera Bugti Hills
(West Pakistan)
depth about 33 km

1	NIL	eP	15	18	05
	QUE	eP			32.7
1	QUE	eP	17	24	17.9
1	QUE	eP	17	30	12..
	NIL	eP			17
	WRS	eP			19.9
	CHT	eP			51
1	QUE	eP	17	59	05.1
1	QUE	eP	18	53	10.6

October, 1969

1	QUE	eP	20	11	53.5
1	QUE	eP	20	38	46.4d
	WRS	eP			56.7
1	QUE	eP	20	49	21.5d
1	QUE	eP	20	57	32.7d
1	WRS	eP	22	48	58.1
		eS		49	30.4
	NIL	eP			10 c
		eS			53
	LAH	eP			38
		eS		50	38
	QUE	eP		49	55.5d
		eS		51	12.1
	KAR	eP		50	56.8
		eS		53	05

H 22 48 17.5
36.3N, 70.6E
Hindukush Region
depth about 223 km

2	QUE	eP	09	34	11.7
2	LAH	iP	22	14	54
	NIL	eP		15	05d
	WRS	eP			16.4
	QUE	eP			38.3
3	NIL	eP	01	52	12
	WRS	eP			15.8
	QUE	eP			20.2
3	CHT	eP	02	01	43
	NIL	eP		02	02 d
	WRS	eP			05.8
	QUE	eP			41.5
3	QUE	eP	07	51	40.2c
3	NIL	eP	09	15	59
	QUE	eP		16	40.8d

October, 1969

3	CHT	eP	15	45	29
		eS		50	05
	NIL	eP		47	58c
		eS		54	36
	WRS	eP		48	09.4
	QUE	eP			09.5
3	QUE	eP	23	30	09.5
4	NIL	eP	10	16	33 c
	QUE	eP		17	15.8
4	CHT	eP	14	20	42
	KAR	eP		23	00.1
	NIL	eP			12
	QUE	eP			23.3
4	NIL	eP	15	56	33d
	QUE	eP		57	21.3d
		eS		58	36.8
4	QUE	eP	22	15	20.2d
5	NIL	eP	00	59	20 c
	QUE	eP			32.3
5	QUE	eP	05	13	20.2d
5	QUE	eP	07	39	52.5d
5	NIL	eP	09	51	34
		eS		52	15
	QUE	eP		53	51.4
5	QUE	eP	10	12	21.2
5	NIL	eP	11	11	42
	QUE	eP		12	05.5c
5	CHT	eP	16	41	02 c
	NIL	eP		43	36 c
	WRS	eP			45.3
	KAR	eP		44	01.0
	QUE	eP			06.6c
5	NIL	eP	19	00	04
	QUE	eP			19.5
5	CHT	eP	20	59	36
	QUE	eP	21	04	56.9
5	QUE	eP	22	09	10 ±
5	NIL	eP	23	15	04
	QUE	eP			46.4
6	QUE	eP	01	06	24.9

6	QUE	eP	12	34	24.3
6	CHT	eP	12	53	51
	NIL	eP		56	25c
	WRS	eP	12	56	36.7
	QUE	iP		57	02.1c
		ePP		59	02.1
		eS	13	04	15.2
		eSS		07	52.5
6	NIL	eP	18	01	20
	QUE	eP			43.4
6	QUE	eP	19	42	52.9
6	NIL	eP	20	30	32
	QUE	eP		31	14.6
6	CHT	eP	21	53	19
	LAH	eP		55	42
	NIL	eP			52 c
	WRS	eP		56	02.5
	QUE	eP			23.2c
		eS		04	34.3
	KAR	eP		56	29.0
7	QUE	eP	02	07	37.8
	NIL	eP			43
7	KAR	eP	03	56	30.6
	NIL	eP			41 c
	QUE	eP			53.4
7	QUE	eP	05	15	46 ±
	NIL	eP		16	17 d
	CHT	eP		18	52
7	QUE	eP	14	44	04.6
		eS		48	02.1
7	QUE	eP	16	09	51 ±
7	NIL	eP	22	24	13 c
	QUE	eP			46.8c
8	NIL	eP	02	29	35
	QUE	eP			53.1c
8	NIL	eP	04	17	28
	WRS	eP			36.4
	KAR	eP			57.1
	QUE	eP		18	10.2d
8	NIL	eP	06	43	07 c
	WRS	eP			16.0
	KAR	e(P)			24.8
	QUE	iP			40.6c
8	WRS	eP	10	50	25.1
	QUE	eP		51	05.6
8	QUE	eP	14	12	53.5
	NIL	eP		13	07
8	QUE	eP	14	27	13.8
8	NIL	eP	14	57	22
	QUE	eP		59	35.1

8	NIL	eP	18	37	30
	WRS	eP			32.1
	QUE	eP		38	31.3
8	NIL	eP	21	49	39 c
	QUE	eP			51.5

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GOVERNMENT OF PAKISTAN
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GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/1820

Quetta, the 3 November, 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore

Provisional Readings at Seismological Stations from 9th October to 15th Oct.'69

October, 1969

9	QUE	eP	01	06	50.1
9	NIL	eP	08	11	42c
	WRS	eP			45.2
	QUE	eP		12	12.7
		eS		22	38.3

	Mu	Sec
PZ	.10	1.0
MH	1.9	20
△	85°.0	

	KAR	eP	08	12	35.4

Mag : 5.9 (Qt)

9	NIL	eP	12	08	51
	QUE	eP		09	13.9c
9	CHT	eP	14	16	38
	NIL	eP		17	27c
	WRS	eP			33.3
	QUE	eP		18	10.2d
9	NIL	eP	15	13	12
		eS			53
	QUE	eP		14	02.3
10	NIL	eP	00	07	01
	QUE	eP			43.3c
10	NIL	eP	00	23	33c
	WRS	eP			38.6
	QUE	eP		24	16.3d
10	NIL	eP	17	18	40
	WRS	eP			51.3
	QUE	eP		19	25.5
10	NIL	eP	17	55	32
	QUE	eX		56	15.8

October, 1969

11	QUE	eP	11	31	28.3
11	QUE	eP	14	08	53.6
11	QUE	eP	17	39	08.2
		eS			26.3
	NIL	eP		40	34
		eS		42	02
12	NIL	eP	03	40	49c
	WRS	eP			59.6d
	QUE	eP		41	13.8d
12	QUE	eP	13	41	40.7
	WRS	eP			55.2
	NIL	eP		42	09
12	NIL	eP	16	14	07d
		eS		20	54
	WRS	eP		14	17.0
	QUE	eP			22.8d
12	NIL	eP	20	00	06
	QUE	eX			39.3
13	QUE	eP	01	09	53.0
		eS		15	46.1

	Mu	Sec
PZ	.05	1.0
MH	2.5	20
△	= 38.5	

WRS	eP	01	10	08.9d
KAR	eP			17.5
NIL	eP			22 c
CHT	eP		12	49
	eS		21	10

Mag : 5.5 (Qt)

October, 1969

13	CHT	eP	07	08	18
		eS		18	21
	NIL	eP		09	47
	QUE	eP		10	07.6
13	QUE	eP	07	14	07.5
		eS		20	24.2
13	NIL	eP	20	20	40
QUE		eP		21	05.1
13	QUE	eP	21	25	12.2
13	NIL	eP	23	17	04
	QUE	eP			42.8
14	QUE	eP	02	39	38.9d
14	QUE	eP	04	22	39 ±
14	QUE	eP	04	34	25.6
	NIL	eP			50
14	QUE	eP	09	29	17.1
14	QUE	eP	20	48	12.3
14	QUE	eP	21	44	28.9
14	NIL	eP	22	58	22
	QUE	eP			50.3d
14	WRS	eP	23	01	54.8
	NIL	eP			58
	QUE	eP		03	05.1
		eS		05	05.2

H 23 01 35.1
39.7N, 72.5E
Tadzhik S.S.R.
depth about 160 Km

October, 1969

14	MLA	eP	23	18	14.3
	QUE	eP			15.8
14	QUE	eP	23	59	53.5d
15	QUE	eP	00	18	22.0
15	QUE	eP	01	27	11.3
15	CHT	eP	05	48	55
	WRS	eP		51	23.8
	QUE	eP			41.5
15	WRS	eP	16	33	06.8
		eS			40.9
	NIL	eP			16
		eS			59
	QUE	eP		34	04.2
		eS		35	25.3

H - 16 32 19.6
35.9N, 70.9E
Hindukush Region
depth about 223 km

15	QUE	eP	18	29	30 ±
15	NIL	eP	21	17	43
	QUE	eP			58.8

(K.U.Siddiqi)T.I,
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GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

No.SS-3(2)/69/1897 Quetta, the 10 November, 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-WARSAK, KAR-Karachi, MLA-Mangla
NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th Oct. to 23rd Oct. 1969

October, 1969

16	QUE	eP	05	13	12 ±
16	NIL	eP	12	10	54
	WRS	eP		11	05.2
	QUE	eP			06.1
16	QUE	eP	14	51	38.6d
	CHT	eP			49
16	WRS	eP	14	56	40.6
	NIL	eP			53
		eS		57	34 ±
	QUE	eP		59	08 ±
16	QUE	eP	20	54	36.3
16	QUE	eP	22	38	06.1
16	QUE	eP	23	08	10.6
17	CHT	iP	01	25	26 d
—	MLA	eP		29	47
	NIL	eP			51
	WRS	eP		30	07.1
	KAR	eP			28.1
		eS		34	42
	QUE	iP		30	32.5d
		eS		34	48.1

Felt: in eastern parts of East Pakistan

17	QUE	iP	04	19	47.9c
		eS		20	23.3
	NIL	eP			08
17	QUE	eP	10	33	34.5
17	NIL	eP	12	28	49d
—	MLA	eP	—	28	57.0
		eS		29	45.7
	QUE	iP			35.3d
		eS		30	52.9

H - 12 : 27 : 54
36.3N, 70.6E
HINDUKUSH REGION
Depth about 223 km

October, 1969

18	QUE	eP	06	12	32.5
18	QUE	eP		24	41.3
18	WRS	eP	06	50	53.3
		eS		51	27.0
	MLA	eP	—		13.4
		eS	5	52	01.2
	QUE	eP		51	50.5
		eS		53	10.5

H 06 50 07
36.6N, 70.7E
Hindukush Region
Depth about 223 km

18	WRS	eP	08	55	02.7
	QUE	iP			45.6c
		eS	09	05	26.3
	KAR	eP	08	55	10.4
18	WRS	eP	11	50	20.2
	MLA	eS	—	51	28.3
	QUE	eP		53	08 ±
18	NIL	eP	14	57	58
	QUE	eP		58	41.3
18	QUE	eP	18	35	51.2
18	QUE	eP	23	46	25.5
19	NIL	eP	09	16	50
	QUE	eP		17	23.2
19	CHT	eP	12	32	44
		eS		38	39
	LAH	eP		35	01.5
	NIL	eP			12
	WRS	eP			22.9
	KAR	eP			38.3
	QUE	eP			43.9d
		eS		43	54.1

International Seismological Centre

October, 1969

19 WRS eP 18 05 58.4
NIL eP 06 15 c
MLA eP 25.3
eS 57.5
LAH eP 52.7
eS 07 44.8
QUE .. eX 45.3

H 18 05 45.5
35.1N, 72.3E
Hindukush Region
depth about 160 km

19 QUE eP 19 45 54.8
19 QUE eP 22 18 12 ±
20 NIL eP 01 24 55
QUE eP 25 18.5

20 NIL eP 06 43 16
QUE eP 42.8

20 WRS eP 10 25 50.6
NIL eP 26 02
MLA eP 10.1
eS 53.5
QUE eP 27 05.0
eS 28 17.1

	Mu	Sec
PZ	.006	0.7
△	6.60	

H 10 25 30
35.2N, 72.3E
Hindukush Region
depth about 160 km
Mag: 4.5(Qt)

20 QUE eP 12 00 31.5
20 QUE eP 13 30 28.3
WRS eP 28.5
CHT eP 31 03

20 QUE eP 14 02 06.3d
20 WRS eP 15 38 32.4
NIL eP 39 32
QUE eP 38.9
CHT eP 57
eS 43 35.5

20 QUE eP 16 30 56 ±
NIL eP 31 50

20 QUE eP 16 50 18.2

20 NIL eP 17 05 23
WRS eP 06 24.0
QUE eP 40.0

20 NIL eP 22 12 03d
QUE eP 44.8

October, 1969

21 NIL eP 05 23 40
QUE eP 24 03.5

21 WRS eP 11 11 19.5
eS 12 05.5
QUE eP 13 04 ±

21 KAR eP 14 25 08.8
QUE eP 30.2

21 NIL eP 19 00 48
QUE eP 01 10.5

21 QUE eX 20 44 01.5
21 CHT eP 21 05 09.4c
eS 14 29
NIL eP 05 22 c
MLA eP 23.5
WRS eP 23.6
LAH eP 29.2d
eS 15 06.4
QUE eP 05 55.5c
eS 15 55.1

	Mu	Sec
PZ	0.8	1.0
△	80°.0	

Mag - 5.7(Qt)

22 NIL eP 02 37 49
QUE eP 38 45.4
22 NIL eP 03 22 31
QUE eP 23 02.0d
22 QUE eP 06 11 07.5d
22 CHT eP 07 22 45
WRS eP 24 37.8
QUE eP 54.4
22 QUE eP 10 40 23.2
WRS eP 23.6
NIL eP 28
MLA eP 30.2
LAH eP 33.0d
22 CHT eP 12 23 19
NIL eP 21 c
MLA eP 28.3
QUE eP 52.4
KAR eP 24 14.9
22 QUE eP 13 10 59.5
NIL eP 11 02
23 WRS eP 06 53 43.6
MLA eP 50.0
eS 54 20.0
QUE eP 11.5
eS 55 01.5

H 06 53 07
37.7N, 71.0E
Hindukush Region
Depth about 223 km
QUE eP 10 30 48.5

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GOVERNMENT OF PAKISTAN
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GEOPHYSICAL CENTRE
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P A K I S T A N

International Seismological Centre

No. SS-3(2)/69/2063 Quetta, the 21 Nov. 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla, NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 31st October, 1969

October, 1969

24	NIL	eP	00	58	11.5
	WRS	eP			16.7
	LAH	eP			21.6 d
	QUE	eP			45.5
		eS	01	09	11.1

	Mu	Sec
PZ	.11	1.2

△ 85°.0
Mag: 5.6(Qt)

24	QUE	eP	10	18	27.2
24	KAR	eP	11	47	07.4
	LAH	eP			38.5
		eS		48	29.2
	QUE	eP		47	39.8
		eS		48	56.3
	MLA	eP		47	55.0
	NIL	eP		48	01 d

H - 11: 46 : 01
25.4N, 71.9E
Rajasthan, India
Depth about 33 km

24	NIL	eP	14	36	43
	QUE	eP		37	15.6
24	NIL	eP	21	54	38 c
	QUE	eP			59.5c
25	NIL	eP	05	26	58
	KAR	eP		27	15.8
	QUE	eP			24.8

October, 1969

25	CHT	eP	12	12	42
	NIL	eP		13	33 c
	LAH	eP			35.6
	QUE	eP			15.5
	KAR	eP			42
25	QUE	eP	14	35	16.7
25	NIL	eP	20	22	49
		eS		23	30
	QUE	eP			35.5c
26	NIL	eP	02	11	32c
	QUE	eP		12	05.0
26	NIL	eP	03	09	26
	QUE	eP			56 ±
26	NIL	eP	04	03	39
	QUE	eP			49.5
26	CHT	eP	06	51	39
	KAR	eP		56	48.0
	QUE	eP			48.8
26	QUE	eP	08	13	30.5
26	QUE	eP	15	44	36.0
		eS		50	53.0
	WRS	eP		44	46.0
	NIL	eP			57
	KAR	eP		45	04.6
	CHT	eP		47	24
26	QUE	eP	17	12	38.9

26	CHT	eP	19	24	52
	NIL	e(P)		25	40 c
	LAH	eP			43.1
		eS		33	44.3
	WRS	eP		25	46.5
	QUE	eP		26	22.2
	KAR	eP			42.4
26	QUE	eP	21	44	27.6
26	KAR	eP	21	52	03.8
	QUE	eP			25.5
		ePP		55	41.5
		eS	22	02	16.2
	LAH	eP	21	52	43.2
		eS	22	04	11.5
	CHT	eP	21	52	44
	WRS	eP			49.2
26	QUE	eP	3	26	38.5
	NIL	eP		27	50
27	LAH	eP	00	47	19 ±
	NIL	eP			43
	QUE	eP		48	24.5
		eS		49	56.5
27	MLA	eP	04	08	18.6
		eS		09	04.8
	QUE	eP		08	59.3
		eS		10	17.0
27	QUE	eP	08	18	43.7
		eS		24	57.2
	NIL	eP		19	04 c
		eS		25	39
	KAR	eP		19	10.8
	MLA	eP			10.9
	CHT	eP		21	29
		eS		30	08

	Mu	Sec
MH	16.9	20

Δ = 41.5°
Mag= 6.7 (Qt)

27	QUE	eP	09	01	29.2
	NIL	eP			50

27	WRS	eP	18	30	36.8
		eS		31	05.0
	NIL	eP		30	53 d
	MLA	eP		31	01.3
		eS			49.1
	LAH	eP			20.5
		eS		32	22.5
	QUE	eP		31	34.0
		eS		32	47.9

	Mu	Sec
PZ	.06	0.5

Δ 6°.5

KAR	eP			39.4
CHT	eP		34	56

H - 18 : 29 : 59
35.9N, 70.4E
Hindukush Region,
Depth about 223 km
Mag: 5.0 (Qt)

28	WRS	eP	00	58	19.4
	NIL	eP			32
	QUE	eP		59	15.6
	LAH	eP			28.3
28	NIL	eP	05	40	43
	QUE	eP		41	16.2
28	NIL	eP	07	27	37 c
	QUE	eP		28	15.0
28	KAR	eP	09	06	53.4
	QUE	eP		07	14.8
28	NIL	eP	16	04	39
		eS		05	19
	MLA	eP		04	48.0
		eS		05	33.2
	QUE	eP			30.1
		eS		06	51.3

H - 16 : 03 : 45
36.2N, 76.3E
Hindukush Region,
Depth about 160 km

International Seismological Centre

October, 1969

28	WRS	eP	18	45	57.1
		eS		46	31.3
	NIL	iP			08 c
	MLA	eP			16.1
		eS		47	04.5
	LAH	eP		46	34.9
		eS		47	37.0
	QUE	iP		46	53.3c
		eS		48	11.7
	KAR	eP		47	54.6
		eS		49	59
	CHT	eP			58
		eS		54	19

H 18 45 13
36.3N, 70.8E
Hindukush Region
depth about 223 km

28	WRS	eP	21	29	21.4
		eS			51.9
	NIL	eP			33
		eS		30	13
	MLA	eP		29	41.0
		eS		30	28.5
	QUE	eP			21.3
		eS		31	41.0

H 21 28 41
36.3N, 71.1E
Hindukush Region
depth about 223 km

28	QUE	eP	21	42	44.0
29	QUE	eP	16	12	02.2
29	QUE	eP	16	43	59.0
29	NIL	eP	16	49	59
	QUE	eP		50	25
29	QUE	eP	20	23	03.2
		eS		24	07.6
29	CHT	eP	22	25	04
		eS			34
	LAH	eP		28	44.7
		eS		31	41.1
	NIL	eP		29	02
	QUE	eP			23.1
		eS		34	25.0
30	CHT	eP	00	13	34.4
		eS		19	54.3
	LAH	eP		14	27.4
		eS		22	04.4
	NIL	eP		14	46 d
	QUE	eP		15	30.1
		e(S)		23	31.6
	KAR	eP		15	46.2
30	QUE	eP	00	56	44.3
30	NIL	eP	12	22	42 c
	QUE	eP		23	35.0

October, 1969

30	NIL	eP	18	03	44
	QUE	eP		04	10.0
30	CHT	eP	18	49	04
	NIL	eP		51	05c
	QUE	eP			31.1
	KAR	eP			25.6
30	QUE	eP	22	30	25.1
		eS		31	37.6
	NIL	eP			49
31	QUE	eP	00	34	58.2
	NIL	eP		35	53
31	NIL	eP	04	41	32 c
	QUE	eP			58.1
31	CHT	eP	06	52	37
	NIL	eP		53	18 c
	QUE	eP		54	00.1c
	KAR	eP			21.2
31	CHT	eP	07	08	32
		eS		15	05
	NIL	eP		09	44 c
	LAH	eP			54.0
	QUE	eP		10	27.9c
	KAR	eP			44.4
31	QUE	eP	08	57	12.1
	NIL	eP		58	08
31	CHT	eP	11	44	29c
		eS		53	53
	NIL	eP		44	40 c
	MLA	eP			41.5
	LAH	iP			46.7c
		eS		54	25.5
	QUE	eP		45	13.2
		eS		55	12.3
	KAR	eP		45	35.6
		eS		56	00
31	NIL	eP	11	59	08
	QUE	eP			42.2
31	NIL	eP	12	45	00
	QUE	eP			34.1
31	NIL	eP	22	45	35
	QUE	eP		46	16 ±

T 80
F 80

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

International Seismological Centre

Phone: 5103

Cable: Geophysics

12 JAN 1970

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/ 2545 Quetta, the 5-1- 1970

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi,
MLA-Mangla, NIL-Nilore

x-Unidentified Phase, C-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th Nov. to 30th Nov.'69

November, 1969

24	CHT	eP	02	04	06
		eS		06	05
	QUE	eP		07	06 ±
24	NIL	eP	03	55	41
	QUE	eP		56	04.8
24	QUE	eP	15	47	22.9
		eS		51	12.0
24	WRS	eP	17	24	08.2d
	NIL	eP			19 c
	MLA	iP			26.8c
	LAH	eP			46.5
		eS		25	51.7
	QUE	eP			13.9
		eS		26	35.8
	KAR	eP			16.2
		eS		28	28
	CHT	eP			15
		eS		32	18

H : 17 23 26
36°.5N, 71°.4E
HINDUKUSH REGION
Felt at Slightly at Warsak and P e s h a w a r.
Depth about 160 km.

24	NIL	eP	21	26	11
	QUE	eP			18.4
24	KAR	eP	21	49	01.1
	QUE	iP			03.6d
		ePP		50	32.7

November, 1969

24	WRS	eP	22	15	21.6
	NIL	iP			33 c
	MLA	eP			40.0
		eS		16	27.2
	LAH	eP			00.7
		iS		17	06.5
	QUE	eP		16	27.8
		eS		17	54.9

Mu	Sec
0.01	0.7

Δ = 7.8
H : 22 : 14 : 36
36°.5N, 70°.9E
Hindukush Region
Depth about 223 Km.
Mag: 4.9(Qt)

24	NIL	eP	23	04	09c
	LAH	eP			16.5
	CHT	eP			21
	QUE	eP			35.1
		eX		07	57.6
		eS		15	03.9
25	QUE	eP	01	35	39.7
25	QUE	eP	05	06	39.4
25	QUE	eP	09	19	10.2
		eS		23	10.0
	WRS	eP		19	18 ±
25	QUE	eP	13	44	55.6
25	WRS	eP	15	47	39.1
		eS		48	12.2
	NIL	eP		47	51d
		eS		48	31
	MLA	eP		47	57.8
		eS		48	45.4
	QUE	eP			38.6
		eS		50	00.4

H : 15 : 46 : 56
36.2N, 70.9E
Hindukush Region
Depth about 223 km.

25	NIL	eP	19	42	46 c
	QUE	eP		43	29.1
25	WRS	eP	21	02	19.1
	NIL	eP			37.c
		iS		03	19
	LAH	eP			02.6
		iS		04	06.3
	QUE	eP		03	18.1
		eS		04	35.7

H : 21 : 01 : 39
36.2N, 70.4E
Hindukush Region
Depth about 160 km.

25	QUE	eP	21	24	26.6
25	NIL	eP	22	02	23
	MLA	eP	—		44.1
	QUE	eP			48.2
25	QUE	eP	22	23	45 ±
25	NIL	eP	22	43	36 c
	QUE	iP			59.2c
26	QUE	eP	00	00	40.1
26	QUE	eP	13	02	52.4
		eS		09	05.9
26	QUE	eP	18	44	51.8
	WRS	eP		45	00 ±
	NIL	eP			01
26	QUE	eP	22	46	34 ±
		eS		53	31.8
	WRS	eP		47	00 ±
26	WRS	eP	05	41	10.6
	QUE	eX		42	06.6
		eS		44	35.0
27	QUE	eP	15	55	50.4
	WRS	eP		57	17.2
	NIL	eP			33
27	CHT	eP	16	01	22
		eS			27
	NIL	eP		03	03
	QUE	eP			24.3
27	NIL	eP	16	38	39
	LAH	eP			43.0
	WRS	eP		39	00.3
	QUE	eP			44 ±
	KAR	eP			49.3
27	NIL	eP	21	07	32d
		eS		08	00
	QUE	iP			11.7d

November, 1969

27	NIL	eP	23	48	00
	QUE	eP			11.5
28	QUE	eP	01	33	56.4
28	NIL	eP	08	33	17
	QUE	eP			33 ±
28	CHT	eP	13	55	37 c
	LAH	iP		57	44.0d
		eS	14	06	17.3
	NIL	eP	13	57	56c
	WRS	eP		58	05.0
	QUE	iP			18.8c
28	WRS	eP	19	03	51.5
	NIL	eP			57 d
	LAH	eP		04	24.0
	QUE	eP			37.6
28	QUE	eP	20	30	07.7
28	NIL	eP	22	32	12
	QUE	eP			54.4
29	NIL	eP	10	48	40
	QUE	eP		49	04.9
29	NIL	eP	16	21	34 c
	QUE	eP		22	15.6
29	QUE	eP	16	52	42.4
29	NIL	eP	18	38	59
	QUE	eP		39	22 ±
30	QUE	eP	00	45	03.4
30	NIL	eP	03	36	50
	WRS	eP			56.7
		eS		40	08.7
	QUE	iP		37	52.2c
	KAR	eP		38	39.8
	CHT	eP		39	04.5
30	NIL	eP	12	58	11
	QUE	iP			53.9c
30	QUE	eP	15	16	50.2
30	KAR	eP	16	08	31.3
	QUE	eP			45.8
30	QUE	eP	19	14	47.2
30	NIL	eP	20	12	25
	QUE	eP			46.5

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GOVERNMENT OF PAKISTAN
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GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

23 JAN 1970

International Seismological Centre

No.SS-3(2)/69/ 2645 Quetta, the 17 January, 1970

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore

x-Unidentified Phase, c-Compression, d- Dilatation.

Provisional Readings at Seismological Stations from 1st to 8th December, 1969

December, 1969

1	NIL	eP	00	01	59
		eS		02	41
	QUE	eP			44.0
1	QUE	eP	00	04	02.7
1	QUE	eP	00	18	57.5
1	QUE	eP	02	34	28.8d
1	QUE	eP	05	30	10.5
1	QUE	eP	12	22	49.2
1	QUE	eP	13	07	29.0
		eS		11	20
	NIL	eP		08	48
1	NIL	eP	13	21	32
	QUE	eP			57.3
1	QUE	eP	20	25	09.8
		eX		30	43.8
	NIL	eP		25	39
	LAH	iP			42.0c
	MLA	eP			44.3
1	QUE	eP	20	39	20.1
1	QUE	eP	20	53	34.4
		eS	21	00	17.3
	NIL	eP	20	53	44
1	QUE	eP	22	32	30 ±
		eS		42	31.2
	CHT	eP		33	07
2	CHT	eP	04	22	52
	NIL	eP			56
	QUE	eP		23	35.1
2	NIL	eP	10	17	58
	MLA	eP		18	04.8
		eS			25.0
	WRS	eP			14.5
	QUE	eP		19	25.3
		eS		20	44.4

H : 10 : 17 : 40
34°.5N, 73°.9E
West Pakistan
Depth about 96 km.

2	NIL	eP	17	37	14 ±
	QUE	eP			48.7

December, 1969

2	QUE	eP	18	02	46.5
	CHT	eP		03	58
2	CHT	eP	18	04	05
		eS		10	13
	LAH	iP		06	16.5c
		iS		13	41.5
	NIL	eP		06	22 d
		eS		14	00
	MLA	eP		06	24.0
	WRS	iP			36.6c
	KAR	eP			51.8
	QUE	eP			59.1d
		eS		15	01.8
2	WRS	iP	18	17	44.7d
		iS		18	16.0
	NIL	eP	18	00 c	
	MLA	eP			08.6
		eS			56.2
	LAH	eP			27.0
		iS		19	26.5
	QUE	iP		18	41.0d
		iS		19	57.5

	Mu	Sec
P#	0.05	0.6

△ = 6°.6

KAR	eP	18	19	42.8

H : 18 : 17 : 05
36°.1N, 70°.2E
HINDUKUSH REGION
Depth about 160 km
Mag - 5.1(QUE)

2	NIL	eP	19	11	14 c
	QUE	eP		12	08.3
2	QUE	eP	22	48	10.3
		eX			44.2
		eS		50	31.8
	WRS	eP		48	46.8
	NIL	eP		49	08

Contd.....2

2 NIL eP 22 58 57 c
LAH eP 59 26.4
QUE eP 54.6

3 LAH iP 00 43 38.0c
iS 58.4
MLA eP 44.9
eS 44 10.4
NIL eP 43 52
WRS eP 44 12.0
QUE eP 45 07 ±
eS 46 39.5
KAR eP 45 33.2

H 00 43 10
32.9 N, 76.1E
Himalaya Range
Depth about 160 km

3 KAR eP 02 32 13.6
QUE iP 33 10.2c
eS 34 32.3
WRS eP 18.7d
LAH eP 20.5
MLA eP 24.5
NIL eP 25
CHT eP 37 07.8

H : 02 31 30
24.1N, 63.8E
Arabian Sea
Depth about 33 km

3 KAR eP 10 51 27.0
QUE eP 52 22.9
eS 53 29.1

3 NIL eP 12 45 12
QUE eP 51.6
3 WRS eP 13 00 07.6
NIL iP 22 d
MLA eP 31.2
QUE iP 01 10.5c

3 NIL iP 16 45 16 c
MLA eP 25.1
eS 46 13.3
LAH eP 45 43.4
iS 46 45.4
QUE iP 03.0d
iS 47 23.2

	Mu	Sec
PZ	0.1	0.5

Δ = 7°.0

H = 16 : 44 : 21
36.4N, 70.6E
Hindukush Region
Depth about 160 km
Mag - 5.3(QUE)

4 CHT eP 00 37 24.8
eS 39 09.8
LAH eP 00 40 31.7
iS 45 25.7
NIL eP 40 51 d
WRS eP 41 03.5
QUE iP 13.1d
eX 16.0
eS 47 14.7

4 WRS eP 01 40 03.6
NIL eP 39
QUE eP 41 36.8d

4 NIL eP 03 13 50 d
QUE eP 14 24.6d
4 NIL eP 08 09 46
QUE eP 10 34.2d

4 NIL eP 09 00 00
eS 07 47
LAH iP 00 01.4c
eS 07 45
MLA eP 00 02.0
WRS iP 07.0c
QUE eP 01 43.7d
iS 09 08.6

5 NIL eP 10 00 59c
QUE eP 01 14.6
5 QUE eP 11 43 14.0c
WRS eP 44 10.0
NIL eP 15

5 NIL eP 14 14 48 d
QUE eP 15 14.0c
5 NIL eP 15 12 27
QUE eP 13 11 ±

5 WRS eP 15 23 25.2
NIL eP 31
eS 24 18
MLA eP 23 38.0
eS 24 31.1
QUE iP 31.9c
eS 26 11.7

H : 15 : 22 : 29
37.5N, 72.0E
Tadzhik S.S.R.
Depth about 160 km

5 NIL eP 15 47 40 d
eS 48 25
QUE iP 38.1d
eS 50 10.2

5 QUE eP 17 20 06.7

International Seismological Centre

December, 1969

5	LAH	eP	18	46	46.0
	MLA	eP		47	01.3
	NIL	eP			09
	WRS	eP			28.6
	QUE	eP		48	07.8
6	NIL	eP	01	56	17
	QUE	eP		57	35.1
6	WRS	eP	04	34	16.7
		eS		35	13.2
	MLA	eP		34	29.5
		eS		35	23.3
	LAH	iP		34	50.5c
		eS		35	59.0
	QUE	iP			24.5c
		eS		37	04.6

H = 04 33 18
37.8N, 73.3E
Tadzhik S.S.R.
Depth about 160 km

6	WRS	eP	07	06	45.4
	QUE	eP			54.0
		iX			59.6
		eS		10	16.0
	NIL	eP		07	05
	MLA	eP			13.6
	LAH	eP			30.5
	CHT	eP		10	14c
6	WRS	eP	15	04	40.2
	NIL	eP			44
	MLA	eP			47.0
	QUE	eP		05	48 ±
6	CHT	eP	19	49	39.2
	NIL	eP		52	11
	QUE	eP			22.3
6	WRS	eP	21	08	12.5
	NIL	eP			24 c
	MLA	eP			31.6
	QUE	eP		09	10. ±
7	QUE	eP	02	52	10.0
		eS		53	16.1
7	QUE	eP	09	30	42.3
		eS		32	09.6
7	NIL	eP	12	51	07
	QUE	eP		52	03 ±
		eS		53	17.8
7	NIL	eP	13	43	25 c
	WRS	eP			32.4
	QUE	iP			47.8c

(K.U.Siddiqi)T.I,
for Director, Meteorological Services.

December, 1969

7	WRS	eP	14	50	23.3
	NIL	eP			37
	QUE	eP		51	19.6d
7	CHT	eP	21	53	04
		eS		58	39
	LAH	eP		55	22.5
	NIL	eP			34
	WRS	eP			44.4
	QUE	eP		56	07.5
		eS	22	04	08.5
7	NIL	eP	22	44	12 d
	QUE	iP			36.3d
8	QUE	eP	01	54	45.7
	WRS	eP		55	44.0
	NIL	eP			49
8	WRS	eP	03	13	59.3
		iS		14	41.5
	NIL	eP			06
		eS			52
	MLA	eP			14.0
		eS		15	05.1
	QUE	eP			05.2
		eS		16	39.7

H 03 13 05
37.4N, 71.9E.
Tadzhik S.S.R.
Depth about 160 km.

8	CHT	eP	05	11	48
		eS		17	45
	LAH	eP		14	05.0c
		eS		21	55.0
	NIL	eP		14	15
	WRS	eP			26.0c
	KAR	eP			35.4
	QUE	iP			43.5d
		eS		23	07.3
8	NIL	eP	05	28	48
	QUE	eP		29	26.8
8	NIL	eP	09	47	09
	WRS	eP			19.4
	QUE	eP			32 ±
8	NIL	eP	14	49	05
	QUE	eP			20. ±
8	WRS	eP	17	36	36.2
		eS		37	00.3
	NIL	eP		36	49
	MLA	eP			58.5
		eS		37	39.7
	LAH	eP			19.2
		eS		38	13.1
	QUE	eP		37	42 ±
		eS		38	56.6

H - 17 36 06
35.6N, 70.1E
Hindukush Region
Depth about 160 km.

International Seismological Centre

Phone : 5103

Cable: Geophysics

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

International Seismological Centre

No.SS-3(2)/69/ 2242 Quetta, the 4 November, 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 1st November, to 8th Nov.1969

November, 1969

01	NIL	eP	04	26	03
					36.7
01	QUE	eP	08	25	24.4
01	Q				
01	NIL	eP	08	50	30
		eS		51	42
	MLA	eP		50	34.0
		eS		51	49.8
	QUE	eP			44.4
		eS		53	51.5

H - 08 49 00
38°.9N, 77°.1E
Tadzhik S.S.R
depth about 223 km

01	QUE	ePKP	11	27	26.8
		ePP		29	27
		ePPS		41	02.0
	CHT	ePKP		27	33
	KAR	ePKP			39.4
	LAH	ePKP		29	06.4
01	NIL	eP	20	03	17
	LAH	eP			42.1
		eS		04	24.0
	QUE	eP			16 -
01	NIL	eP	20	45	42
	QUE	eP		47	04.4
01	CHT	eP	21	17	06
	QUE	eP		19	31.7
01	QUE	eP	21	33	49.8
02	QUE	eP	18	33	28.6
02	NIL	eP	19	02	05
	QUE	eP			20 +
02	NIL	eP	23	01	34
	QUE	eP		02	00.4

November, 1969

02	NIL	eP	23	41	19
		eS		43	20
	QUE	eP		42	18.3
03	NIL	eP	12	25	02
	QUE	eP			26.9
03	NIL	eP	13	27	30
	QUE	eP		28	12.3
03	QUE	eP	16	54	53.1
		eS		57	03.0
	NIL	eP		56	10
03	NIL	eP	17	07	51c
	QUE	eP		08	13.8
03	MLA	eP	17	14	28.2c
		eS			54.8
	NIL	eP			29d
	LAH	eP		48.2	
		eS		15	25.8
	QUE	eP		54 -	
		eS		17	28.6

H 17 13 53
34°.2N, 75°.5E
KASHMIR
Depth about 160 km

03	NIL	eP	20	17	05c
	QUE	eP			47.2
03	QUE	eP	21	56	13.2
		eS		58	26.9
	NIL	eP		57	33
03	QUE	eP	22	42	10 +
		eS		43	17.4

November, 1969

03	KAR	eP	23	24	30.8
	QUE	eP		25	31.2
		eS		28	04.1
	NIL	eP			55
	CHT	eP			09

H - 23 22 10
17°.2N, 74°.0E
Southern India
depth about 160 km

04	NIL	eP	01	21	56
	QUE	eP		22	27.2
04	NIL	eP	04	08	14
	QUE	eP			36.7
04	QUE	eP	05	37	05.4
		eS		41	19.4
04	CHT	eP	08	58	01
	MLA	eP		59	22.3
	LAH	el			24.4d
	NIL	eP			26 d
	QUE	eP	09	00	09.4d
	KAR	eP			23.4
04	QUE	eP	11	00	15.0
04	QUE	eP	11	01	44.4c
04	NIL	eP	12	17	00.
	QUE	eP			33.4
04	NIL	eP	14	42	04
	QUE	eP			35.1
04	QUE	eP	20	21	47.8
	NIL	eP		22	15
	KAR	eP		22	30.0
	LAH	eP			35.0
04	QUE	eP	21	09	54.8
	NIL	eP		10	24
04	CHT	eP	22	11	40
	LAH	eP		13	57.7
		eS		21	48.5
	MLA	eP		14	05.5
	NIL	eP			09
	KAR	eP			24.7
	QUE	eP			35.0c
04	QUE	eP	23	58	07.6

November, 1969

05	NIL	eP	02	17	31.
		eS		18	18
	MLA	eP		17	39.4
		eS		18	31.4
	QUE	eP			31.9c
		eS		20	07.3

H - 02 16 30.
37°.5N, 70°.3 E
Tadzhik S.S.R.
depth about 160 km

05	NIL	eP	08	10	12c
	MLA	eP			17.0
	WRS	eP			19.7
	LAH	eP			40.7
	QUE	eP		11	36.1
05	QUE	eP	18	13	40.6
05	QUE	eP	18	19	19.1
	NIL	eP		20	21
	LAH	eP			26.8
05	QUE	eP	18	50	10 -
		eS			30.0
	NIL	eP		51	34
		eS		52	28
	MLA	eP		51	41.0
		eS		52	39.2
05	QUE	eP	19	05	13.1
	NIL	eP		06	33
05	QUE	eP	19	14	33.0
05	NIL	eP	20	28	54.
	LAH	eP		29	11
	QUE	iP			56.4c
	KAR	eP		30	00.4
05	NIL	eP	21	04	01
	QUE	eP		05	04.-
		eS		10	20,0
05	LAH	eP	23	13	02.8
	NIL	eP			12
	QUE	eP			53.3
06	NIL	eP	02	05	30 c
	QUE	eP		06	13.4
06	QUE	eP	04	38	57.2
	NIL	eP		40	15.

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November, 1969

06	QUE	eP	06	33	40 ±
06	KAR	eP	10	51	27.1
	QUE	eP		52	13 ±
06	QUE	eP	13	20	16.6
06	QUE	eP	13	23	32.4
06	QUE	eP	13	32	59.5
06	QUE	eP	19	07	49.9
06	QUE	eP	20	31	00.4
06	CHT	eP	20	31	44
	MLA	eP			53.9
	NIL	eP			55d
	WRS	eP			56.1
	LAH	eP		32	01.6
	QUE	eP			27.8
		eS		42	32.8

	Mu	Sec
PZ	.16	1.0
MH	5.1	20
△	81°.0	

KAR eP 20 32 50.8
Mag : 5.9 (Qt)

07	WRS	eP	00	01	19.6
		eS			51.6
	NIL	eP			34d
	MLA	eP			40.3
		eS		02	31.5
	QUE	eP		02	19.3
		eS		03	40.1

H 00 00 34
36°.7N, 70°.4E
HINDUKUSH REGION
Depth about 160 Km

07	QUE	eP	02	44	23 ±
07	NIL	eP	08	16	13
	QUE	eP			57.4
07	NIL	eP	09	27	01
	QUE	eP			52.4
	MLA	eP		28	25.2
07	QUE	eP	12	24	06 ±
	NIL	eP			33
07	QUE	eP	12	57	54.8
	NIL	eP		58	23
07	QUE	eP	13	16	44.2
	KAR	eP			44.4
	WRS	eP		17	06.9
	NIL	eP			12
07	QUE	eP	13	21	37.7
	NIL	eP		22	57

November, 1969

07	NIL	eP	13	49	24
	WRS	eP			37.0
	KAR	eP		50	09.0
	QUE	eP			10.0c
07	QUE	eP	15	58	59.0
07	QUE	eP	16	33	20.8
	WRS	eP		34	26.0
	NIL	eP			41
07	QUE	eP	16	53	25.9c
	NIL	eP			53
07	QUE	eP	18	32	55.3
07	QUE	eP	18	35	39.6
		eS		36	54.0
	KAR	eP		35	42.2
	WRS	eP		36	49.0d
	NIL	iP		37	03p
	LAH	eP			05.0d
		eS		39	13.2
	MLA	eP		37	06.4
		eS		39	22.9
	CHT	eP			59
		eS		45	44

H : 18 : 34 : 04
27°.7N, 60°.0E
Eastern Iran
Depth about 96 km

07	NIL	eP	19	34	19
	QUE	eP		35	02.3d
07	NIL	eP	20	01	52.
	QUE	eP		02	24.9c
08	QUE	eP	00	41	42.1
08	NIL	eP	07	31	21.
	WRS	eP			25.8
	QUE	eP		32	03.8
	KAR	eP			25.8
08	KAR	eP	20	40	43.4
	QUE	eP			44.6
	WRS	eP		41	04.6
	NIL	eP			12
08	QUE	eP	21	18	02.1d
08	CHT	eP	22	02	59.
	LAH	eP		04	59.4
	MLA	eP		05	06.3
	NIL	eP			08
	WRS	eP			18.6
	KAR	eP			21.4
	QUE	eP			32.9
		eS		14	36.0

November, 1969

08	QUE	eP	22	33	57.2
	WRS	eP		34	41.6
08	QUE	eP	22	56	10.5
08	QUE	eP	23	00	19 ±
08	CHT	eP	23	33	46
		eS		40	00
	LAH	eP		36	01.5
		eS		44	08.0
	WRS	eP		36	22.9
	KAR	eP			28.1
	QUE	eP			37.6
	MLA	eP		37	07.2
08	QUE	eP	23	54	58 ±

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services,

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Cable:Geophysics

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/ 2371 Quetta, the 18-12 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla

NIL_Nilore

x-Unidentified Phase, c-Compression,
d- Dilatation

Provisional Readings at Seismological Stations from 9th November to 15th Nov.1969

November, 1969

09	CHT	eP	01	17	14
	LAH	eP		19	30.4
		eS		27	37.2
	WRS	eP		19	51.2
	KAR	eP			54.2
	QUE	eP		20	05.6
09	QUE	eP	01	32	46.1
09	WRS	eP	01	41	00.1
	QUE	eP			14.7
09	NIL	eP	06	55	29
	MLA	eP	—		34.1
	WRS	eP			38.4
	QUE	eP			50.9
09	QUE	eP	09	25	51 ±
09	QUE	eP	12	05	33 ±
09	WRS	eP	14	25	04.5c
	NIL	eP			19
	MLA	eP	—		27.1
		eS		26	17.2
	LAH	eP		25	45.6
		eS		26	51.4
	QUE	iP		25	56.7d

H - 14 24 21
36.1N, 68.8E
Hindukush Region
Depth about 223 Km

09	QUE	eP	16	54	29 ±
09	NIL	eP	19	58	11
	QUE	eP			47.8
10	NIL	eP	05	48	15
	QUE	eP			42.1
10	QUE	eP	09	16	50.8

November, 1969

10	NIL	eP	15	54	19
	QUE	eP			44.9
10	NIL	eP	18	24	56
	QUE	eP		25	14.1
10	QUE	eP	21	57	05.0
		eS			18.0
11	NIL	eP	00	25	51
	MLA	eP	—		59.0
		eS		26	45.9
	QUE	eP			52.0
		eS		28	19.3

H : 00 25 00
36.3N, 71.6E
Hindukush Region
depth about 223 km

11	WRS	eP	00	32	44.2
	QUE	eP		33	10.2
		eS		36	47.6
	KAR	eP		33	50.4
	NIL	eP		34	09
	LAH	eP			23.0
11	NIL	eP	01	48	04
	QUE	eP			39.8
11	CHT	eP	05	51	15
	NIL	eP		53	47
	QUE	eP		54	59.4
11	CHT	eP	15	34	31
	NIL	eP		36	19
	QUE	eP			43.0
11	CHT	eP	16	11	46
	NIL	eP		14	19
	QUE	eP			56.6

November, 1969

11	QUE	eP	19	04	21 ±
12	LAH	eP	12	38	27.7
	NIL	eP		39	18
	KAR	eP		40	21.1
12	NIL	eP	15	52	23
	WRS	eP			30.4
12	NIL	eP	16	40	44
	MLA	eP			50.6
		eS		41	40.6
12	LAH	eP	18	32	49.2
	NIL	eP			50
12	NIL	eP	19	20	59
	WRS	eP		21	00.4
	LAH	eP			06.2
		eS		30	29.7
	KAR	eP		21	52.1
13	KAR	eP	08	11	02.0
	NIL	eP			13
	MLA	eP			19.3
	LAH	eP			20.0
14	CHT	eP	07	55	11
		eS	08	02	28
	KAR	eP	07	56	16.8
14	WRS	eP	09	42	31.3
	NIL	eP			44
	LAH	eP		43	11
14	NIL	eP	10	51	16
14	KAR	eP	11	55	35.3
	WRS	eP		56	01.8d
	NIL	eP			11
	LAH	eP			25.0

November, 1969

14	WRS	eP	16	55	49.2
	NIL	eP		56	02
	MLA	eP			12 ±
		eS		57	55.7
15	WRS	eP	04	37	58.6
		eS		38	30.8
	NIL	eP			07
	MLA	eP			19.7
		eS		39	07.4

H - 04 : 37 : 18
36.1N, 70.7E
Hindukush Region
Depth about 223 km

15	WRS	eP	13	39	49.7
	NIL	eP		40	05 ±
15	NIL	eP	17	54	50
	MLA	eP			58.3
		eS		55	44.1

(K.U.Siddiqi)T.I,
for Director,
Meteorological Services

International Seismological Centre

Phone: 5103 Cable: Geophysics

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
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POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/69/2361 Quetta, the 18-12 1969

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla
NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd November, 1969

November, 1969

16	KAR	eP	00	01	45
	NIL	eP		03	04
16	NIL	eP	03	03	43
	CHT	eP		04	01
16	NIL	eP	20	54	17
	MLA	eP			25.7
	LAH	eP		55	15.0
17	QUE	eP	B	44	29.3
17	NIL	eP	19	02	29
	QUE	iP		03	03.9d
17	NIL	eP	21	30	19
	MLA	eP			23.4
	LAH	eP		30	38.5
	QUE	eP		31	32.3
		eS		33	53.3

H - 21 28 32
40.0N, 77.6E
KIRGIZ S.S.R.
depth about 160 km

17	NIL	eP	22	38	26
	QUE	eP		39	08.9
17	QUE	eP	23	33	47.1
17	QUE	eP	23	51	19 ±
18	QUE	eP	01	25	23.0
18	QUE	eP	05	10	37.3
19	CHT	eP	08	52	03
		eS		57	34
	NIL	eP		53	02
	KAR	eP		54	06.1

November, 1969

20	NIL	eP	02	12	46 ±
	KAR	eP			31 ±
20	NIL	eP	16	13	37
		eS		14	22
	MLA	eP		13	43.0
		eS		14	28.2
20	CHT	eP	21	09	25
		eS		16	40
	NIL	eP		10	15
20	CHT	eP	23	58	44
	NIL	eP			58
21	CHT	iP	02	10	D .0d
	MLA	eP		12	44.8
	NIL	eP			46 ±
21	NIL	eP	07	38	00
	QUE	eP			31.3
21	CHT	eP	08	21	08
	NIL	eP		22	15
	QUE	eP			58 ±
21	CHT	eP	09	06	13
	NIL	eP		07	03
	QUE	eP			46.3
21	QUE	eP	11	56	30.3
21	QUE	eP	13	55	39.2
22	NIL	eP	03	38	38.
	QUE	eP		39	23.9
		eS		40	43.9
22	QUE	eP	05	19	34.0
22	NIL	eP	06	58	07 ±
	QUE	eP			57.5

November, 1969

22	CHT	eE	07	54	11
	QUE	eE		56	52.7
22	NIL	eE	08	46	43
	QUE	eE		47	09.8
22	QUE	eE	14	09	16.2
		eS		10	34.8

Mu Sec

PZ .006 0.7
△ 7°.0
Mag: 4.3 (Qt)

22	CHT	eE	15	10	13
	NIL	eE		12	32
	QUE	eE			54.3
		eS		21	27.7
22	QUE	eE	16	25	42.8
22	QUE	eE	17	26	32.8
22	QUE	eE	18	58	04 ±
22	QUE	eE	19	46	45.4
22	CHT	eE	23	19	55
		eS		28	27
	NIL	eE		19	58
	MLA	eE		20	00.6
	LAH	eE			05.5d
		eS		28	39
	QUE	eE		20	36.2
		eS		29	47.5
	KAR	eP		21	02,0
		eS		30	48

November, 1969

23	QUE	eE	00	59	41.3
23	QUE	eE	03	49	12.9
23	NIL	eE	07	18	31
	QUE	eE		19	14.7
23	NIL	eE	09	21	25 -
	MLA	eE			33.0
		eS		22	22.8
	QUE	eE			20.6
		eS		23	48.9
23	QUE	eE	11	43	44.0
23	NIL	eE	16	56	53
	QUE	eE		57	41.0
		eS		59	02.2

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services

International Seismological Centre

Phone:5103

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

Cable . Geophysics

23 JAN 1970

International Seismological Centre

No.SS-3(2)/70/ 2645 Quetta, the 19th January, 1970

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla

NIL-Nilore.

x-Unidentified Phase, c-Compression, d- Dilatation

Provisional Readings at Seismological Stations from 9th to 15th December, 1969

December, 1969					
09	CHT	eP	03	33	15
	NIL	eP		35	43
	WRS	eP			52.6
	QUE	eP		36	09.7
09	QUE	eP	11	42	51.3
09	NIL	eP	12	08	16 d
		eS			59
	QUE	eP		09	00.2
		eS		10	13.2
09	NIL	eP	13	42	50
	LAH			43	15.0
		eS		44	58.0
	QUE	eP		43	35 ±
09	NIL	eP	22	09	00c
	QUE	eP			43.1
10	NIL	eP	00	21	03 c
	QUE	eP			28.4c
10	NIL	eP	11	07	14
	MLA	eP			24.0
		eS		08	08.6
	QUE	eP			06 ±
		eS		09	29.1
10	QUE	eP	12	14	24.9
10	QUE	eP	17	04	13±
10	CHT	ePKP	20	06	20
	NIL	ePKP		07	47
	QUE	ePKP		08	0c ±
		ePP		12	27.9
10	NIL	eP	21	51	18
		eS		52	27
	QUE	eP		53	58.7
11	NIL	eP	01	02	51 d
	QUE	eP		03	32.8

December, 1969					
12	CHT	eP	01	21	47
		eS		28	44
	NIL	eP		22	49c
	LAH	eP			49.6d
	WRS	eP			56.6
	QUE	iP		23	32.6c
12	QUE	eP	04	10	22 ±
12	MLA	eP	17	D	11.4
		eS			37.4
	NIL	eP		11	20
	QUE	eP		12	34.±
		eS		14	00.1
12	WRS	eP	19	46	30.5c
	MLA	eP			34.0
	NIL	eP			44.d
	QUE	eP		47	36 ±
		eS		48	48.3
12	WRS	eP	22	35	13.0
		eS			47.5
	NIL	eP			28 d
		eS		36	11
	QUE	eP			07.3
		eS		37	24.9

H - 22 : 34 : 27
36°.6N, 69°.9E
AFCHANISTAN
Depth about 160 km

13	QUE	iP	01	05	02.0
	NIL	eP		06	24
13	QUE	eP	03	33	15.8
13	KAR	eP	03	47	49 ±
	QUE	eP		49	55.6

December, 1969

13	MLA	eP	04	13	50.0
	NIL	eP			52
	WRS	eP		14	02.7
	KAR	eP			11.5
	QUE	eP			18.8
13	NIL	eP	09	34	12
	QUE	eP			55.1
13	NIL	eP	13	38	44
	QUE	eP		39	25.8
13	QUE	eP	20	41	04.1
13	LAH	eP	21	45	33 d
	NIL	eP			39
	WRS	eP			50.0
	QUE	eP		46	23.1
13	QUE	eP	21	52	43.7
	WRS	eP			53.6
	NIL	eP			55
13	NIL	eP	22	16	41
	QUE	eP		17	10.9c
14	MLA	eP	02	52	04.4
	NIL	eP			07
		eS	03	00	10
	WRS	eP	02	52	17.5d
		iS	03	00	30.0
	KAR	eP	02	52	27.1
		eS	03	00	45
	QUE	eP	02	52	36.1
		eS	03	01	01.0
14	QUE	eP	03	21	28 ±
	WRS	iP			35.0c
	KAR	eP			47.0
14	NIL	eP	16	13	27
	QUE	eP		14	10.6
14	WRS	eP	17	32	25.5
		eS		33	02.0
	NIL	eP		32	36
	MLA	eP			44.9
		eS		33	35.6
	QUE	eP			31.0
		eS		34	58.8

H - 17 : 31 : 38
37.0N, 70.1E
AFGHANISTAN
Depth about 160 km

December, 1969

14	QUE	eP	18	42	16.0
		eS		46	32.6
	KAR	eP		42	27.4
	LAH	eP			53.8
	WRS	eP		43	04.9c
	NIL	eP			07
14	NIL	eP	19	27	23
	QUE	iP			53.1d
14	QUE	eP	23	59	19.3
15	NIL	eP	00	25	58 c
	QUE	eP		26	31.2
15	NIL	eP	03	47	30
	QUE	eP			51.4
	MLA	eP			54.8
	LAH	eP		48	22 ±
15	QUE	eP	15	58	20.9
15	WRS	eP	17	29	44.5
	NIL	eP			58
	QUE	eP		30	44.5
15	WRS	eP	21	04	25.5
		eS		05	06.6
	NIL	eP		04	34d
		eS		05	19
	QUE	eP			30.3
		eS		07	00.3

H - 21 : 03 : 35
37.2N, 71.6E
Tadzhik, S.S.R.
Depth about 160 km.

(K. U. Siddiqi)T.I.
for Director,
Meteorological Service

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International Seismological Centre

Phone : 5103

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA

P A K I S T A N

International Seismological Centre

No.SS-3(2)/70/ 2645

Quetta, the 12th January, 1970

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-MANGLA

NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 16th to 23rd December, 1969

December, 1969

16	WRS	eP	11	02	42.6
		eS		03	16.0
	NIL	eP		02	55 d
		eS		03	38
	MLA	eP			03.8
		eS			53.1
	QUE	eP			42.2
		eS		05	01.8

H - 11 : 01 : 59
36.6N, 70.7E
Hindukush Region
Depth about 160 km.

16	QUE	eP	14	20	34.5
16	QUE	eP	15	10	19 ±
16	QUE	eP	17	23	14.8
		eS		25	09.0
16	QUE	eP	19	54	53.1
17	CHT	eP	02	34	22
		eS		38	10
	NIL	eP		37	01
	WRS	iP			13.0d
	QUE	eP			15.6
17	WRS	eP	06	36	49.0
		eS		37	17.5
	NIL	eP			02 d
	MLA	eP			11.0
		eS			56.3
	QUE	eP			52.4
		eS		39	10.3

H - 06 : 36 : 11
36.2N, 71.0E
Hindukush Region
Depth about 160 km.

December, 1969

17	NIL	eP	08	07	09 ±
	WRS	eP			17.1
	QUE	eP			47.6
17	NIL	eP	21	00	15
	QUE	eP			24.5
18	CHT	eP	13	40	04d
		eS		46	30
	MLA	eP		40	48.7
	LAH	iP			53.0c
		eS		47	58.5
	WRS	eP		40	55.0
		eS		48	04.0
	QUE	eP		41	32.6
		eS		49	04.7
	KAR	eP		41	55.8
		eS		49	57.8
18	QUE	eP	14	10	52.3
18	QUE	eP	14	43	54.4
18	QUE	eP	18	35	04.5
18	QUE	eP	19	10	04.8
18	WRS	eP	23	47	47.0
		eS		48	27.8
	QUE	eP			52.7
		eS		50	27.1
19	NIL	eP	00	25	11
	QUE	eP			32.5
19	MLA	eP	02	26	37.2
	WRS	eP			43.0
	QUE	eP		27	52.1
19	CHT	eP	04	38	56.5
	NIL	eP		39	48 c
	QUE	eP		40	30.9

.....2

December, 1969

19	QUE	eP	07	03	05.3
	NIL	eP			55
19	NIL	eP	08	10	41
	QUE	eP			42.7
	WRS	eP			45.6
19	WRS	eP	13	43	08.1
	NIL	eP			09 c
	QUE	eP			32.7
19	CHT	eP	14	42	00
	NIL	eP		45	48 c
	WRS	eP		46	07.7
	QUE	eP			33.6
	KAR	eP			33.7
19	NIL	eP	18	51	45
	QUE	eP		52	27.9
20	CHT	eP	02	13	23.4
		eS		20	04.4
	NIL	eP		16	16
	QUE	eP			57.4
20	WRS	eP	04	24	05.0
		eS			35.5
	NIL	eP			18
	MLA	eP			28,5
		eS		25	13.0
	QUE	eP			03.5

H - 04 23 28
36.0N, 70.5E
Hindukush Region
Depth about 160 km.

20	NIL	eP	07	10	26
	QUE	eP			58.4
20	WRS	eP	09	31	23.0
	NIL	eP			38
	QUE	eP		32	14.3
20	CHT	eP	13	13	42.4
	NIL	eP		16	02 c
	WRS	iP			11.5 d
	QUE	iP			24.1 c
20	QUE	eP	17	47	33.3
	NIL	eP		48	09 c

December, 1969

20	WRS	iP	21	28	31.9
		eS		29	01.2
	NIL	eP		28	44
		eS		29	23
	MLA	eP		28	53.6
		eS		29	37.0
	QUE	eP			37.0
		eS		30	57.7

H - 21 : 27 : 53
36.3N, 71.1E
Hindukush Region
Depth about 160 km.

20	NIL	eP	22	49	24
	QUE	eP			44.9
21	NIL	eP	00	31	13
	QUE	eP			40.2
21	NIL	eP	00	48	08
	QUE	eP			17.3
21	NIL	eP	10	26	49 ±
	WRS	iP			59.1 c
	QUE	eP		27	33.8 d
21	NIL	eP	12	29	51 c
	QUE	eP			30 35.5
21	QUE	eP	12	51	10 ±
21	NIL	eP	15	20	04
	QUE	eP			18.3
21	NIL	eP	15	40	40
	WRS	iP			42.1d
	MLA	eP			45.6
	LAH	eP		41	28.0
	QUE	eP			53.9
21	QUE	eP	17	16	56.9
21	WRS	iP	19	14	24.3 c
		eS			55.8
	NIL	eP			38 c
		eS		15	19
	MLA	eP		14	46.5
		eS		15	33.0
	LAH	eP			04.5
		eS		16	06.5
	QUE	eP		15	21.0
		eS		16	39.0

H - 19 : 13 : 42
36.5N, 70.6E
Hindukush Region
Depth about 160 km.

International Seismological Centre

21	QUE	eP	22	07	36 ±
	NIL	eP		08	09
22	QUE	eP	00	25	25 ±
	NIL	eP			38 c
22	NIL	eP	01	24	49
	QUE	eP		25	33.8
22	QUE	eP	01	36	59.5
22	WRS	iP	04	54	15.4
	NIL	eP			32.d
		eS		55	17
	MLA	eP		54	41.4
		eS		55	32.7
	QUE	eP			07.8
		eS		56	20.2

H - 04 : 53 : 33
35.9 N, 69.9 E
Hindukush Region
Depth about 223 km.

22	NIL	eP	05	15	00
	QUE	eP			37.7
22	CHT	eP	11	31	18
		eS		41	08
	NIL	eP		31	22 c
	WRS	eP			23.3
	QUE	iP			52.3 c
		eS		42	19.2
22	QUE	eP	12	36	43.3
	NIL	eP		37	00
22	WRS	eP	12	49	34.6
	NIL	eP			38
		eS		50	26
	MLA	eP		49	45.6
		eS		50	39.0
	QUE	eP			41.5
		eS		52	20.0

H - 12 : 48 : 36
37.7N, 72.4E
Tadzhik. S.S.R.
Depth about 160 km.

22	QUE	eP	19	23	57.3
22	QUE	eP	19	59	54.3
	WRS	eP	20	00	13.1
22	QUE	eP	21	10	41.4
22	QUE	eP	23	37	33.8

December, 1969

23	NIL	eP	01	03	54
	QUE	eP		04	08.?
23	QUE	eP	01	58	3[illegible]0
23	NIL	eP	03	01	05
		eS		03	23
	QUE	eP		02	08.8
		eS		05	08.8
23	NIL	eP	04	48	08
	QUE	eP			20.8
23	CHT	eP	13	24	53
		eS		25	12
	QUE	eP		29	25.2
23	CHT	eP	13	33	09
	NIL	eP			15
	WRS	iP			17.8 d
	LAH	eP			20.6
	QUE	iP			53.2 c
		eS		42	54.2
	KAR	eP		34	19.1
23	CHT	eP	14	13	49
	LAH	eP		16	10
	MLA	eP			19.3
	NIL	eP			23
		eS		23	07
	WRS	iP		16	35.4d
	QUE	iP			59.6 c
		eS		26	13.9
23	NIL	eP	15	59	53
	QUE	eP	16	00	36.4
23	QUE	eP	16	29	25 ±
23	QUE	eP	20	54	30.1

(K. U. Siddiqi)T.I,
for Director,
Meteorological Services.

International Seismological Centre

GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
GEOPHYSICAL CENTRE
POST BOX 2, QUETTA
P A K I S T A N

International Seismological Centre

No.SS-3(2)/70/ 2709 Quetta, the 23 January, 1970

QUE-Quetta, LAH-Lahore, CHT-Chittagong, WRS-Warsak, KAR-Karachi, MLA-Mangla, NIL-Nilore

x-Unidentified Phase, c-Compression, d-Dilatation

Provisional Readings at Seismological Stations from 24th to 31st December, 1969

December, 1969					
24	QUE	eP	05	15	13.2
	WRS	iP			23.1d
	NIL	eP			34
24	WRS	eP	12	29	54.8
	NIL	eP		30	05
24	WRS	eP	14	59	28.2
		eS	15	00	04.0
	NIL	eP	14	59	41
		eS	15	00	24
	MLA	eP	14	59	49.8
		eS	15	00	36.2
	H - 14 58 42 36°.6N, 70°.6E Hindukush Region Depth about 223 km				
24	WRS	eP	21	01	23.3
		eS			55.3
	NIL	eP			36
		eS		02	18
25	WRS	iP	18	08	29.4d
		iS		09	05.7
	NIL	eP		08	39
		eS		09	20
	MLA	eP		08	47.8
		eS		09	34.5
	H - 18 07 45 36°.6N, 71°.5E Hindukush Region Depth about 223 km				
25	KAR	eP	21	50	47 ±
	LAH	eP		51	09.6
	CHT	eP			51
25	LAH	eP	22	49	50.5
	KAR	eX		50	14
	CHT	eP			28

December, 1969					
26	NIL	eP	00	30	31
	WRS	eP			31.8
	MLA	eP			32.2
	LAH	eP			38.6
		epP			55.7
		eS		40	51.0
	CHT	eP		30	42
		eS		41	02
	KAR	eP		31	22.2
26	MLA	eP	02	19	37.2
	NIL	eP			49
	WRS	eP		20	17.7
27	WRS	eP	06	38	15.0
		eS			45.2
	NIL	eP			26
27	NIL	eP	09	09	57
	MLA	eP			03.8
	WRS	iP			13.7c
27	CHT	eP	09	19	19
		eS		25	24
	NIL	eP		20	34
	WRS	iP		21	43.6c
	QUE	eP			49 ±
28	NIL	eP	01	28	58
	QUE	eP		29	41.5
28	WRS	eP	03	50	49.0
	NIL	eP			52
	MLA				58.5
	KAR	eP		52	36.4
28	CHT	eP	05	02	07 d
	NIL	e(P)			57
	WRS	eP		04	00.1
28	CHT	eP	14	46	55
	NIL	eP		47	46
	WRS	iP			52.1d
	QUE	eP		48	27.8

28	WRS	iP	16	50	43.5c
		iS		51	14.0
	NIL	eP		50	55
	MLA	eP		51	03.8 —
		eS			48.2
	LAH	eP			23.9
		eS		52	23.9
	QUE	iP		51	43.3d
		eS		53	02.3

	Mu	Sec
PZ	.06	0.9
△	- 7°.0	

	KAR	eP	16	52	44.1

H - 16 50 02
36°.2N, 71.0
Hindukush Region
Depth about 223 km
Mag - 5.3 (Qt)

28	NIL	eP	20	14	13
	QUE	eP			42.4
29	WRS	eP	17	08	37.1
	NIL	eP			05
	QUE	eP			39.8
29	WRS	iP	18	09	44.5c
		iS		10	25.5
	NIL	eP		09	55
	MLA	eP		10	03.0
		eS			59.0
	QUE	eP			51.2
		eS		12	22.1

	Mu	Sec
PZ	.008	0.9
△	- 8.1°	

H - 18 08 52
37.5 N, 71.0 E
Tadzhik S.S.R.
Depth about 33 km
Mag - 4.8 (Qt)

29	QUE	eP	21	02	54.0
29	WRS	eP	21	53	06.9
		eS			39.9
	QUE	eP		54	06.7
		eS		55	26.0
30	QUE	eP	00	05	37.8
30	QUE	eP	02	17	47.1
30	QUE	eP	06	59	41.3
30	NIL	eP	11	27	18
	WRS	iP			28.5d
	QUE	eP			42.4

December, 1969

30	WRS	iP	13	56	16.9d
	NIL	eP			56
	MLA	eP			06.1 —
	QUE	eP		57	06.3
	LAH	eP			23.6
30	QUE	eP	21	56	28.9
31	QUE	eP	05	43	50.3
	WRS	iP		44	13.5d
	NIL	eP			27
31	WRS	eP	09	11	31.9
		iS			58.9
	NIL	eP			47
	MLA	eP			56.1 —
	QUE	eP		12	34.2
		eS		13	50.3

H 09 10 56
36.1N, 70.7E
Hindukush Region
depth about 96 km

31	QUE	eP	13	26	28.2
31	CHT	eP	19	08	42
		eS		15	08
	WRS	iP		10	12.1d
	LAH	eP			25.7
	MLA	eP			30.0 —
	NIL	eP			31
	QUE	eP		11	15.4
		eS		18	45.8

	Mu	Sec
MH	22.2	20.0
△	- 53°.7	
Mag	- 6.3 (Qt)	

	KAR	eP	19	11	24 ±
31	CHT	eP	23	47	20
	LAH	eP			46.4
		eS		54	56.6
	MLA	eP		47	58.0 —
	NIL	eP		48	02
	KAR	eP			03.6
	WRS	eP			12.0
	QUE	eP			20.3
		eS		56	00.0

(K.U.Siddiqi)T.I.
for Director,
Meteorological Services.

International Seismological Centre